



ANTERO RESOURCES CORPORATION

Location: Wetzel County, WV
 Field: Wetzel
 Facility: Cedar Pad

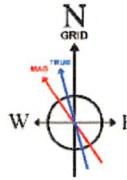
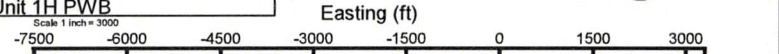
Slot: Slot I
 Well: Marma Unit 1H
 Wellbore: Marma Unit 1H PWB



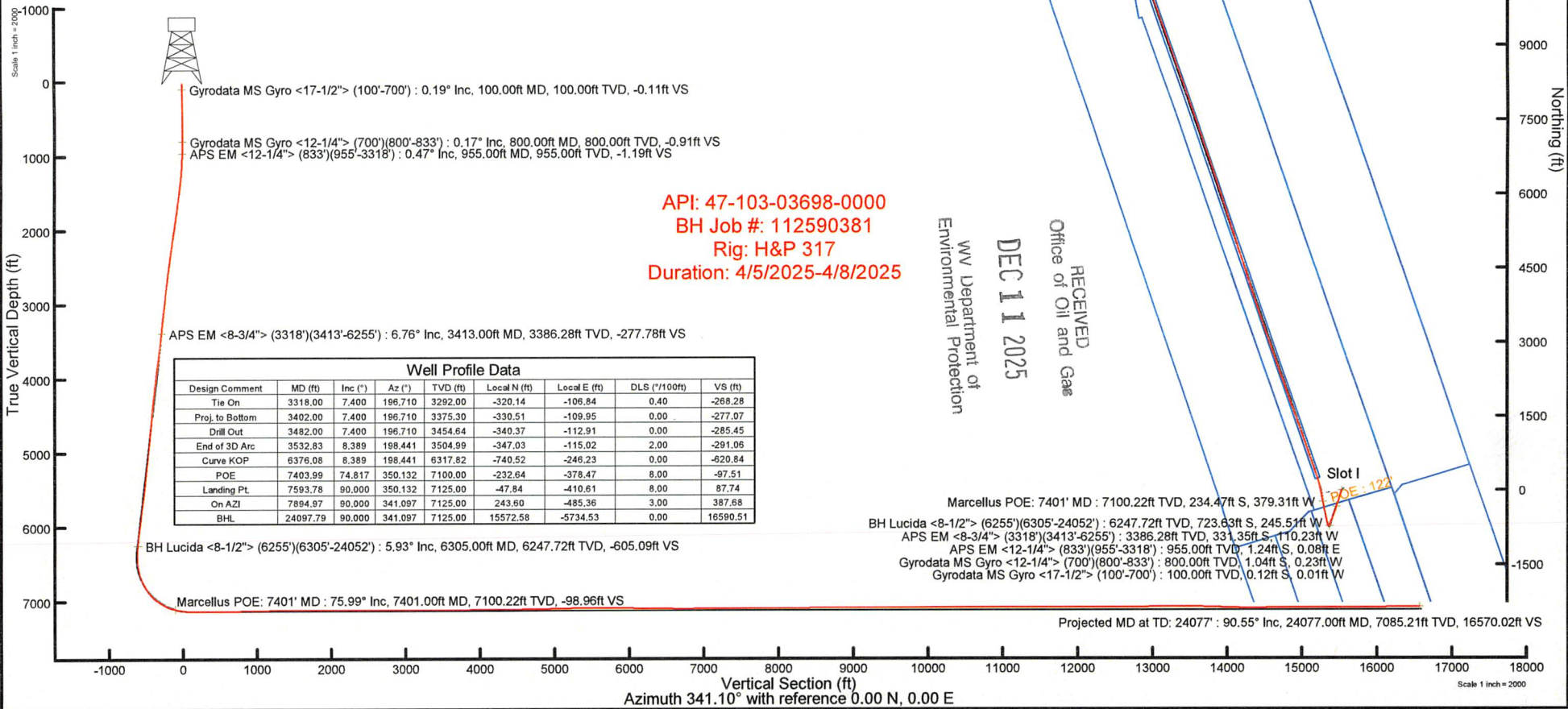
PKT reference wellpath is Marma Unit 1H PWB Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1275.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot I): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: rdsaryar on 2025-04-23; Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Cedar Pad		1721002.500	14368725.810	39°34'3.3492"N	80°42'50.5764"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot I	66.85	315.11	1721317.490	14368792.630	39°34'4.0000"N 80°42'46.5499"W
Comment: Marma Unit 1H				25.5ft	
H&P 317 (RKB) to Ground level (At Slot: Slot I)				-1250ft	
Mean Sea Level to Ground level (At Slot: Slot I)				1275.5ft	
H&P 317 (RKB) to Mean Sea Level					

Well Data			
Slot	Well	Wellbore	Wellpath
Slot I	Marma Unit 1H	Marma Unit 1H AWB	Marma Unit 1H AWP Proj: 24077
Slot I	Marma Unit 1H	Marma Unit 1H PWB	Marma Unit 1H PWP Rev-B.0



User specified (HDGM) Dip: 66.22° Field: 51515 nT
 Magnetic North is 7.93 degrees West of True North (at 4/2/2025)
 Grid North is 0.18 degrees East of True North
 To correct azimuth from True to Grid subtract 0.18 degrees
 To correct azimuth from Magnetic to Grid subtract 8.11 degrees



Gyrodatta MS Gyro <17-1/2"> (100'-700') : 0.19° Inc, 100.00ft MD, 100.00ft TVD, -0.11ft VS
 Gyrodatta MS Gyro <12-1/4"> (700')(800'-833') : 0.17° Inc, 800.00ft MD, 800.00ft TVD, -0.91ft VS
 APS EM <12-1/4"> (833')(955'-3318') : 0.47° Inc, 955.00ft MD, 955.00ft TVD, -1.19ft VS

API: 47-103-03698-0000
 BH Job #: 112590381
 Rig: H&P 317
 Duration: 4/5/2025-4/8/2025

APS EM <8-3/4"> (3318')(3413'-6255') : 6.76° Inc, 3413.00ft MD, 3386.28ft TVD, -277.78ft VS

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3318.00	7.400	196.710	3292.00	-320.14	-106.84	0.40
Proj. to Bottom	3402.00	7.400	196.710	3375.30	-330.51	-109.95	0.00
Drill Out	3482.00	7.400	196.710	3454.64	-340.37	-112.91	0.00
End of 3D Arc	3532.83	8.389	198.441	3504.99	-347.03	-115.02	2.00
Curve KOP	6376.08	8.389	198.441	6317.82	-740.52	-246.23	0.00
POE	7403.99	74.817	350.132	7100.00	-232.64	-378.47	8.00
Landing Pt.	7593.78	90.000	350.132	7125.00	-47.84	-410.61	8.00
On AZI	7884.87	90.000	341.097	7125.00	243.60	-485.36	3.00
BHL	24097.79	90.000	341.097	7125.00	15572.58	-5734.53	0.00

BH Lucida <8-1/2"> (6255')(6305'-24052') : 5.93° Inc, 6305.00ft MD, 6247.72ft TVD, -605.09ft VS
 Marcellus POE: 7401' MD : 75.99° Inc, 7401.00ft MD, 7100.22ft TVD, -98.96ft VS

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Marcellus POE: 7401' MD : 7100.22ft TVD, 234.47ft S, 379.31ft W
 BH Lucida <8-1/2"> (6255')(6305'-24052') : 6247.72ft TVD, 723.63ft S, 245.51ft W
 APS EM <8-3/4"> (3318')(3413'-6255') : 3386.28ft TVD, 331.35ft S, 110.23ft W
 APS EM <12-1/4"> (833')(955'-3318') : 955.00ft TVD, 1.24ft S, 0.08ft E
 Gyrodatta MS Gyro <12-1/4"> (700')(800'-833') : 800.00ft TVD, 1.04ft S, 0.23ft W
 Gyrodatta MS Gyro <17-1/2"> (100'-700') : 100.00ft TVD, 0.12ft S, 0.01ft W

Projected MD at TD: 24077' : 90.55° Inc, 24077.00ft MD, 7085.21ft TVD, 16570.02ft VS



Actual Wellpath Report

Marma Unit 1H AWP Proj: 24077'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWB
Slot	Slot I		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999607	Report Generated	4/23/2025 at 3:22:41 PM
Convergence at slot	0.18° East	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	66.85	315.11	1721317.49	14368792.63	39°34'4.0000"N	80°42'46.5499"W
Facility Reference Pt			1721002.50	14368725.81	39°34'3.3492"N	80°42'50.5764"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1275.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1275.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot I)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.10°

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Marma Unit 1H AWP Proj: 24077'
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Operator	ANTERO RESOURCES CORPORATION		Well	Marma Unit 1H
Field	Wetzel		API	47-103-03698-0000
Facility	Cedar Pad		Wellbore	Marma Unit 1H AWB
Slot	Slot I			

WELLPATH DATA (263 stations) † = interpolated, ‡ = extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.00	182.530	0.00	0.00	0.00	0.00	1721317.49	14368792.63	39°34'4.0000"N	80°42'46.5499"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	182.530	25.50	0.00	0.00	0.00	1721317.49	14368792.63	39°34'4.0000"N	80°42'46.5499"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.190	182.530	100.00	-0.11	-0.12	-0.01	1721317.48	14368792.51	39°34'3.9987"N	80°42'46.5500"W	0.12	182.530	0.26	0.26	0.00	Gyrodata MS Gyro <17-1/2"> (100'-700')
200.00	0.230	195.190	200.00	-0.44	-0.48	-0.07	1721317.42	14368792.15	39°34'3.9952"N	80°42'46.5508"W	0.49	187.711	0.06	0.04	12.66	
300.00	0.220	208.560	300.00	-0.73	-0.85	-0.21	1721317.28	14368791.79	39°34'3.9916"N	80°42'46.5526"W	0.87	193.939	0.05	-0.01	13.37	
400.00	0.230	202.360	400.00	-1.01	-1.20	-0.38	1721317.11	14368791.43	39°34'3.9881"N	80°42'46.5548"W	1.26	197.488	0.03	0.01	-6.20	
500.00	0.110	195.980	500.00	-1.24	-1.48	-0.48	1721317.01	14368791.15	39°34'3.9854"N	80°42'46.5561"W	1.55	198.024	0.12	-0.12	-6.38	
600.00	0.130	24.720	600.00	-1.24	-1.47	-0.46	1721317.03	14368791.16	39°34'3.9855"N	80°42'46.5559"W	1.54	197.403	0.24	0.02	-171.26	
700.00	0.130	21.040	700.00	-1.07	-1.26	-0.37	1721317.12	14368791.37	39°34'3.9875"N	80°42'46.5547"W	1.31	196.457	0.01	0.00	-3.68	
800.00	0.170	41.390	800.00	-0.91	-1.04	-0.23	1721317.26	14368791.59	39°34'3.9897"N	80°42'46.5529"W	1.07	192.606	0.07	0.04	20.35	Gyrodata MS Gyro <12-1/4"> (700')(800'-833')
833.00	0.200	26.360	833.00	-0.84	-0.95	-0.17	1721317.32	14368791.68	39°34'3.9906"N	80°42'46.5522"W	0.97	190.399	0.17	0.09	-45.55	
955.00	0.470	161.380	955.00	-1.19	-1.24	0.08	1721317.57	14368791.40	39°34'3.9877"N	80°42'46.5490"W	1.24	176.314	0.51	0.22	110.67	APS EM <12-1/4"> (833')(955'-3318')
1046.00	2.020	195.650	1045.97	-2.89	-3.13	-0.23	1721317.26	14368789.50	39°34'3.9690"N	80°42'46.5530"W	3.14	184.269	1.82	1.70	37.66	
1141.00	3.610	192.430	1140.85	-6.82	-7.67	-1.33	1721316.16	14368784.97	39°34'3.9242"N	80°42'46.5672"W	7.78	189.837	1.68	1.67	-3.39	
1235.00	5.340	196.230	1234.56	-12.93	-14.76	-3.19	1721314.30	14368777.88	39°34'3.8542"N	80°42'46.5913"W	15.10	192.194	1.87	1.84	4.04	
1330.00	7.280	195.880	1328.98	-21.49	-24.79	-6.07	1721311.42	14368767.85	39°34'3.7551"N	80°42'46.6285"W	25.52	193.762	2.04	2.04	-0.37	
1425.00	9.180	199.490	1423.00	-32.37	-37.73	-10.25	1721307.25	14368754.92	39°34'3.6274"N	80°42'46.6823"W	39.09	195.197	2.07	2.00	3.80	
1519.00	9.310	200.460	1515.78	-44.13	-51.92	-15.41	1721302.09	14368740.73	39°34'3.4873"N	80°42'46.7488"W	54.16	196.528	0.22	0.14	1.03	
1614.00	9.370	200.510	1609.52	-56.05	-66.36	-20.80	1721296.70	14368726.29	39°34'3.3447"N	80°42'46.8183"W	69.55	197.405	0.06	0.06	0.05	
1709.00	9.560	198.900	1703.23	-68.25	-81.07	-26.07	1721291.43	14368711.59	39°34'3.1996"N	80°42'46.8861"W	85.16	197.825	0.34	0.20	-1.69	
1803.00	9.490	198.710	1795.93	-80.56	-95.79	-31.08	1721286.42	14368696.87	39°34'3.0542"N	80°42'46.9507"W	100.71	197.977	0.08	-0.07	-0.20	
1898.00	9.300	195.410	1889.66	-93.11	-110.61	-35.63	1721281.87	14368682.06	39°34'2.9079"N	80°42'47.0095"W	116.21	197.857	0.60	-0.20	-3.47	
1993.00	9.520	195.370	1983.38	-105.94	-125.59	-39.76	1721277.75	14368667.09	39°34'2.7600"N	80°42'47.0627"W	131.73	197.566	0.23	0.23	-0.04	
2087.00	9.380	192.670	2076.11	-118.89	-140.56	-43.50	1721274.01	14368652.13	39°34'2.6122"N	80°42'47.1111"W	147.13	197.195	0.49	-0.15	-2.87	
2182.00	8.960	191.860	2169.89	-131.84	-155.35	-46.71	1721270.79	14368637.34	39°34'2.4661"N	80°42'47.1528"W	162.22	196.737	0.46	-0.44	-0.85	
2277.00	9.600	191.790	2263.65	-145.01	-170.34	-49.85	1721267.66	14368622.35	39°34'2.3180"N	80°42'47.1935"W	177.49	196.313	0.67	0.67	-0.07	
2372.00	9.860	195.500	2357.28	-158.53	-185.94	-53.65	1721263.86	14368606.77	39°34'2.1640"N	80°42'47.2425"W	193.52	196.094	0.71	0.27	3.91	
2466.00	10.200	201.680	2449.85	-171.50	-201.43	-58.87	1721258.64	14368591.28	39°34'2.0111"N	80°42'47.3099"W	209.85	196.292	1.20	0.36	6.57	
2560.00	10.240	203.050	2542.36	-184.03	-216.85	-65.22	1721252.30	14368575.87	39°34'1.8589"N	80°42'47.3915"W	226.44	196.739	0.26	0.04	1.46	
2655.00	9.830	205.590	2635.90	-196.10	-231.93	-72.03	1721245.49	14368560.79	39°34'1.7100"N	80°42'47.4791"W	242.86	197.252	0.63	-0.43	2.67	

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Marma Unit 1H
Field	Wetzel		API	47-103-03698-0000
Facility	Cedar Pad		Wellbore	Marma Unit 1H AWB
Slot	Slot I			

WELLPATH DATA (263 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2750.00	9.540	206.460	2729.55	-207.41	-246.29	-79.04	1721238.48	14368546.43	39°34'1.5683"N	80°42'47.5692"W	258.67	197.792	0.34	-0.31	0.92	
2845.00	8.430	203.230	2823.38	-218.11	-259.74	-85.29	1721232.23	14368532.99	39°34'1.4356"N	80°42'47.6496"W	273.39	198.179	1.28	-1.17	-3.40	
2939.00	7.910	202.560	2916.43	-228.07	-272.05	-90.49	1721227.03	14368520.69	39°34'1.3141"N	80°42'47.7165"W	286.70	198.399	0.56	-0.55	-0.71	
3034.00	7.740	200.530	3010.54	-237.91	-284.07	-95.24	1721222.29	14368508.67	39°34'1.1954"N	80°42'47.7777"W	299.62	198.535	0.34	-0.18	-2.14	
3129.00	7.680	198.920	3104.68	-247.86	-296.07	-99.54	1721217.98	14368496.68	39°34'1.0770"N	80°42'47.8331"W	312.36	198.584	0.24	-0.06	-1.69	
3223.00	7.760	195.900	3197.83	-258.04	-308.12	-103.32	1721214.21	14368484.64	39°34'0.9580"N	80°42'47.8818"W	324.98	198.538	0.44	0.09	-3.21	
3318.00	7.400	196.710	3292.00	-268.28	-320.14	-106.84	1721210.70	14368472.61	39°34'0.8393"N	80°42'47.9272"W	337.50	198.454	0.40	-0.38	0.85	
3413.00	6.760	197.000	3386.28	-277.78	-331.35	-110.23	1721207.30	14368461.41	39°34'0.7286"N	80°42'47.9709"W	349.20	198.401	0.67	-0.67	0.31	APS EM <-8-3/4"> (3318')(3413'-6255')
3508.00	8.860	192.350	3480.39	-288.56	-343.84	-113.43	1721204.11	14368448.92	39°34'0.6052"N	80°42'48.0123"W	362.07	198.257	2.31	2.21	-4.89	
3602.00	8.730	189.380	3573.29	-301.04	-357.95	-116.14	1721201.40	14368434.82	39°34'0.4659"N	80°42'48.0475"W	376.32	197.976	0.50	-0.14	-3.16	
3697.00	8.050	187.730	3667.27	-313.33	-371.66	-118.21	1721199.33	14368421.12	39°34'0.3305"N	80°42'48.0745"W	390.01	197.644	0.76	-0.72	-1.74	
3791.00	8.890	193.120	3760.25	-325.37	-385.26	-120.74	1721196.79	14368407.53	39°34'0.1962"N	80°42'48.1074"W	403.73	197.402	1.23	0.89	5.73	
3886.00	9.970	204.020	3853.97	-337.62	-399.92	-125.76	1721191.78	14368392.87	39°34'0.0515"N	80°42'48.1720"W	419.22	197.456	2.19	1.14	11.47	
3981.00	9.700	206.110	3947.57	-349.30	-414.62	-132.63	1721184.91	14368378.18	39°33'59.9064"N	80°42'48.2603"W	435.31	197.739	0.47	-0.28	2.20	
4075.00	9.270	201.820	4040.29	-360.64	-428.76	-138.93	1721178.62	14368364.04	39°33'59.7669"N	80°42'48.3414"W	450.70	197.954	0.88	-0.46	-4.56	
4170.00	8.520	197.060	4134.15	-372.13	-442.59	-143.84	1721173.71	14368350.22	39°33'59.6303"N	80°42'48.4046"W	465.37	198.004	1.11	-0.79	-5.01	
4265.00	7.900	195.380	4228.17	-383.22	-455.61	-147.63	1721169.92	14368337.20	39°33'59.5017"N	80°42'48.4536"W	478.93	197.954	0.70	-0.65	-1.77	
4359.00	7.100	193.920	4321.37	-393.44	-467.48	-150.74	1721166.81	14368325.34	39°33'59.3845"N	80°42'48.4938"W	491.18	197.873	0.87	-0.85	-1.55	
4454.00	7.040	202.460	4415.65	-402.75	-478.56	-154.38	1721163.17	14368314.26	39°33'59.2752"N	80°42'48.5407"W	502.84	197.879	1.11	-0.06	8.99	
4548.00	6.390	199.920	4509.00	-411.15	-488.80	-158.36	1721159.19	14368304.03	39°33'59.1741"N	80°42'48.5920"W	513.81	197.952	0.76	-0.69	-2.70	
4643.00	5.780	194.090	4603.47	-419.28	-498.41	-161.33	1721156.23	14368294.42	39°33'59.0792"N	80°42'48.6302"W	523.87	197.936	0.91	-0.64	-6.14	
4738.00	7.510	197.370	4697.83	-428.30	-508.97	-164.35	1721153.21	14368283.86	39°33'58.9749"N	80°42'48.6692"W	534.85	197.895	1.86	1.82	3.45	
4832.00	8.720	206.590	4790.89	-438.25	-521.21	-169.37	1721148.19	14368271.63	39°33'58.8541"N	80°42'48.7338"W	548.04	198.002	1.89	1.29	9.81	
4927.00	8.130	206.400	4884.86	-448.02	-533.67	-175.58	1721141.98	14368259.17	39°33'58.7312"N	80°42'48.8136"W	561.81	198.212	0.62	-0.62	-0.20	
5022.00	7.290	199.500	4979.00	-457.47	-545.36	-180.58	1721136.98	14368247.48	39°33'58.6157"N	80°42'48.8779"W	574.48	198.321	1.31	-0.88	-7.26	
5116.00	8.050	200.940	5072.16	-467.20	-557.13	-184.92	1721132.64	14368235.72	39°33'58.4995"N	80°42'48.9339"W	587.02	198.362	0.83	0.81	1.53	
5211.00	8.810	201.070	5166.14	-477.88	-570.13	-189.92	1721127.65	14368222.72	39°33'58.3712"N	80°42'48.9982"W	600.93	198.423	0.80	0.80	0.14	
5306.00	9.430	207.270	5259.94	-488.84	-583.84	-196.10	1721121.47	14368209.02	39°33'58.2359"N	80°42'49.0776"W	615.89	198.566	1.22	0.65	6.53	
5400.00	8.070	202.550	5352.84	-499.12	-596.78	-202.16	1721115.41	14368196.08	39°33'58.1082"N	80°42'49.1555"W	630.09	198.714	1.63	-1.45	-5.02	
5495.00	9.150	206.550	5446.77	-509.42	-609.70	-208.09	1721109.48	14368183.17	39°33'57.9808"N	80°42'49.2318"W	644.23	198.845	1.30	1.14	4.21	

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Actual Wellpath Report

Marma Unit 1H AWP Proj: 24077'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWB
Slot	Slot I		

WELLPATH DATA (263 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
5589.00	8.320	204.650	5539.68	-519.59	-622.56	-214.27	1721103.31	14368170.31	39°33'57.8538"N	80°42'49.3112"W	658.40	198.992	0.93	-0.88	-2.02	
5687.00	9.150	196.190	5636.55	-531.11	-636.49	-219.40	1721098.18	14368156.39	39°33'57.7163"N	80°42'49.3773"W	673.24	199.019	1.56	0.85	-8.63	
5782.00	8.640	191.160	5730.40	-543.47	-650.75	-222.88	1721094.69	14368142.14	39°33'57.5755"N	80°42'49.4224"W	687.86	198.907	0.98	-0.54	-5.29	
5876.00	8.600	198.660	5823.35	-555.15	-664.33	-226.50	1721091.08	14368128.56	39°33'57.4414"N	80°42'49.4691"W	701.88	198.826	1.20	-0.04	7.98	
5971.00	9.980	197.700	5917.10	-567.39	-678.91	-231.28	1721086.31	14368113.99	39°33'57.2975"N	80°42'49.5307"W	717.22	198.812	1.46	1.45	-1.01	
6066.00	8.620	193.950	6010.85	-579.98	-693.66	-235.49	1721082.09	14368099.25	39°33'57.1518"N	80°42'49.5852"W	732.54	198.752	1.57	-1.43	-3.95	
6160.00	8.090	200.570	6103.85	-591.00	-706.69	-239.52	1721078.07	14368086.22	39°33'57.0232"N	80°42'49.6371"W	746.17	198.723	1.17	-0.56	7.04	
6255.00	6.900	198.880	6198.04	-600.67	-718.35	-243.71	1721073.87	14368074.57	39°33'56.9081"N	80°42'49.6911"W	758.56	198.740	1.27	-1.25	-1.78	
6305.00	5.930	198.720	6247.72	-605.09	-723.63	-245.51	1721072.07	14368069.28	39°33'56.8559"N	80°42'49.7143"W	764.15	198.741	1.94	-1.94	-0.32	BH Lucida <8-1/2"> (6255')(6305'-24052')
6374.00	6.900	206.460	6316.29	-610.83	-730.72	-248.50	1721069.08	14368062.20	39°33'56.7859"N	80°42'49.7528"W	771.82	198.782	1.88	1.41	11.22	
6469.00	5.200	254.220	6410.82	-614.61	-737.00	-255.19	1721062.40	14368055.92	39°33'56.7240"N	80°42'49.8385"W	779.94	199.099	5.40	-1.79	50.27	
6564.00	9.340	315.960	6505.15	-607.38	-732.63	-264.71	1721052.88	14368060.29	39°33'56.7676"N	80°42'49.9598"W	778.98	199.866	8.69	4.36	64.99	
6659.00	13.820	336.310	6598.24	-589.08	-716.68	-274.64	1721042.96	14368076.23	39°33'56.9255"N	80°42'50.0859"W	767.50	200.967	6.31	4.72	21.42	
6753.00	20.760	343.320	6687.94	-561.21	-690.40	-283.94	1721033.66	14368102.50	39°33'57.1855"N	80°42'50.2037"W	746.51	202.356	7.70	7.38	7.46	
6821.00†	26.351	347.005	6750.25	-534.13	-664.13	-290.80	1721026.80	14368128.76	39°33'57.4454"N	80°42'50.2902"W	725.01	203.647	8.50	8.22	5.42	Sycamore: 6821' MD
6848.00	28.590	348.090	6774.21	-521.76	-651.97	-293.48	1721024.12	14368140.92	39°33'57.5656"N	80°42'50.3239"W	714.98	204.235	8.50	8.29	4.02	
6942.00	35.660	348.940	6853.77	-472.23	-603.01	-303.39	1721014.22	14368189.86	39°33'58.0498"N	80°42'50.4485"W	675.03	206.708	7.54	7.52	0.90	
6977.00†	39.189	348.595	6881.56	-451.15	-582.15	-307.54	1721010.07	14368210.71	39°33'58.2561"N	80°42'50.5006"W	658.39	207.847	10.10	10.08	-0.99	Middlesex: 6977' MD
7037.00	45.240	348.110	6925.98	-411.17	-542.69	-315.68	1721001.93	14368250.15	39°33'58.6464"N	80°42'50.6030"W	627.83	210.187	10.10	10.09	-0.81	
7122.00†	53.570	347.094	6981.24	-347.10	-479.72	-329.56	1720988.06	14368313.10	39°33'59.2692"N	80°42'50.7776"W	582.01	214.489	9.84	9.80	-1.19	Burkett: 7122' MD
7132.00	54.550	346.990	6987.11	-339.05	-471.83	-331.38	1720986.24	14368320.99	39°33'59.3472"N	80°42'50.8005"W	576.57	215.082	9.84	9.80	-1.04	
7178.00†	57.647	347.657	7012.76	-301.10	-434.58	-339.75	1720977.87	14368358.22	39°33'59.7156"N	80°42'50.9059"W	551.63	218.018	6.84	6.73	1.45	Tully: 7178' MD
7227.00	60.950	348.320	7037.78	-259.28	-393.38	-348.51	1720969.11	14368399.41	39°34'0.1231"N	80°42'51.0161"W	525.55	221.540	6.84	6.74	1.35	
7321.00	69.940	349.450	7076.80	-174.66	-309.56	-364.95	1720952.68	14368483.19	39°34'0.9520"N	80°42'51.2226"W	478.56	229.694	9.63	9.56	1.20	
7401.00†	75.995	348.908	7100.22	-98.96	-234.47	-379.31	1720938.33	14368558.25	39°34'1.6946"N	80°42'51.4029"W	445.93	238.278	7.60	7.57	-0.68	Marcellus POE: 7401' MD
7416.00	77.130	348.810	7103.71	-84.51	-220.15	-382.13	1720935.51	14368572.56	39°34'1.8361"N	80°42'51.4383"W	441.01	240.053	7.60	7.57	-0.65	
7510.00	83.590	349.180	7119.44	7.24	-129.23	-399.81	1720917.84	14368663.45	39°34'2.7353"N	80°42'51.6603"W	420.17	252.087	6.88	6.87	0.39	
7605.00	89.910	349.300	7124.82	101.08	-36.10	-417.50	1720900.15	14368756.54	39°34'3.6563"N	80°42'51.8826"W	419.06	265.058	6.65	6.65	0.13	
7700.00	89.910	347.380	7124.97	195.32	56.93	-436.70	1720880.96	14368849.54	39°34'4.5764"N	80°42'52.1239"W	440.40	277.428	2.02	0.00	-2.02	
7794.00	90.150	345.120	7124.92	288.93	148.23	-459.04	1720858.63	14368940.81	39°34'5.4794"N	80°42'52.4055"W	482.39	287.896	2.42	0.26	-2.40	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWP
Slot	Slot I		

WELLPATH DATA (263 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
7889.00	89.850	342.810	7124.92	383.81	239.53	-485.28	1720832.40	14369032.07	39°34'6.3826"N	80°42'52.7369"W	541.18	296.270	2.45	-0.32	-2.43	
7984.00	89.780	339.720	7125.23	478.80	329.49	-515.79	1720801.90	14369121.99	39°34'7.2725"N	80°42'53.1228"W	612.05	302.570	3.25	-0.07	-3.25	
8078.00	90.090	340.220	7125.34	572.78	417.80	-547.99	1720769.72	14369210.27	39°34'8.1464"N	80°42'53.5304"W	689.09	307.323	0.63	0.33	0.53	
8173.00	90.860	341.130	7124.55	667.77	507.44	-579.43	1720738.29	14369299.87	39°34'9.0333"N	80°42'53.9281"W	770.22	311.211	1.25	0.81	0.96	
8268.00	90.520	342.040	7123.41	762.76	597.57	-609.43	1720708.30	14369389.96	39°34'9.9250"N	80°42'54.3077"W	853.52	314.437	1.02	-0.36	0.96	
8362.00	90.460	340.690	7122.60	856.75	686.64	-639.47	1720678.27	14369479.00	39°34'10.8062"N	80°42'54.6876"W	938.29	317.037	1.44	-0.06	-1.44	
8457.00	92.560	341.390	7120.10	951.71	776.45	-670.32	1720647.43	14369568.77	39°34'11.6948"N	80°42'55.0780"W	1025.77	319.195	2.33	2.21	0.74	
8552.00	90.580	340.120	7117.50	1046.67	866.10	-701.62	1720616.15	14369658.39	39°34'12.5818"N	80°42'55.4740"W	1114.63	320.989	2.48	-2.08	-1.34	
8647.00	90.490	340.540	7116.61	1141.66	955.55	-733.60	1720584.18	14369747.80	39°34'13.4669"N	80°42'55.8787"W	1204.67	322.486	0.45	-0.09	0.44	
8741.00	90.710	340.350	7115.62	1235.64	1044.12	-765.06	1720552.73	14369836.34	39°34'14.3432"N	80°42'56.2769"W	1294.41	323.769	0.31	0.23	-0.20	
8836.00	90.550	340.790	7114.58	1330.63	1133.71	-796.66	1720521.15	14369925.89	39°34'15.2296"N	80°42'56.6768"W	1385.62	324.904	0.49	-0.17	0.46	
8930.00	90.400	340.210	7113.80	1424.63	1222.31	-828.04	1720489.78	14370014.46	39°34'16.1063"N	80°42'57.0739"W	1476.38	325.885	0.64	-0.16	-0.62	
9025.00	90.580	341.110	7112.99	1519.62	1311.95	-859.50	1720458.33	14370104.06	39°34'16.9931"N	80°42'57.4720"W	1568.42	326.770	0.97	0.19	0.95	
9119.00	90.770	340.470	7111.88	1613.61	1400.71	-890.42	1720427.42	14370192.78	39°34'17.8713"N	80°42'57.8634"W	1659.77	327.556	0.71	0.20	-0.68	
9214.00	91.260	341.070	7110.20	1708.59	1490.39	-921.71	1720396.15	14370282.43	39°34'18.7587"N	80°42'58.2592"W	1752.37	328.266	0.82	0.52	0.63	
9309.00	88.430	339.360	7110.46	1803.57	1579.77	-953.86	1720364.01	14370371.78	39°34'19.6430"N	80°42'58.6662"W	1845.40	328.877	3.48	-2.98	-1.80	
9403.00	89.780	340.430	7111.92	1897.53	1668.03	-986.16	1720331.71	14370460.00	39°34'20.5163"N	80°42'59.0752"W	1937.74	329.408	1.83	1.44	1.14	
9498.00	89.720	340.510	7112.34	1992.53	1757.56	-1017.92	1720299.97	14370549.50	39°34'21.4022"N	80°42'59.4772"W	2031.06	329.922	0.11	-0.06	0.08	
9593.00	89.820	340.280	7112.72	2087.52	1847.05	-1049.80	1720268.11	14370638.95	39°34'22.2876"N	80°42'59.8806"W	2124.54	330.388	0.26	0.11	-0.24	
9687.00	89.880	340.730	7112.97	2181.51	1935.66	-1081.17	1720236.75	14370727.53	39°34'23.1644"N	80°43'0.2776"W	2217.14	330.814	0.48	0.06	0.48	
9782.00	89.690	340.870	7113.32	2276.51	2025.38	-1112.41	1720205.52	14370817.21	39°34'24.0520"N	80°43'0.6730"W	2310.76	331.223	0.25	-0.20	0.15	
9877.00	89.660	340.990	7113.86	2371.51	2115.16	-1143.45	1720174.49	14370906.96	39°34'24.9403"N	80°43'1.0657"W	2404.45	331.605	0.13	-0.03	0.13	
9971.00	89.850	340.730	7114.26	2465.51	2203.97	-1174.27	1720143.68	14370995.73	39°34'25.8189"N	80°43'1.4558"W	2497.27	331.951	0.34	0.20	-0.28	
10066.00	89.750	340.940	7114.59	2560.50	2293.70	-1205.46	1720112.51	14371085.43	39°34'26.7068"N	80°43'1.8504"W	2591.17	332.276	0.24	-0.11	0.22	
10161.00	89.690	340.780	7115.06	2655.50	2383.45	-1236.60	1720081.37	14371175.14	39°34'27.5947"N	80°43'2.2446"W	2685.15	332.578	0.18	-0.06	-0.17	
10255.00	89.940	340.440	7115.36	2749.50	2472.12	-1267.81	1720050.18	14371263.77	39°34'28.4720"N	80°43'2.6396"W	2778.26	332.849	0.45	0.27	-0.36	
10350.00	90.090	341.210	7115.34	2844.50	2561.84	-1299.01	1720018.99	14371353.46	39°34'29.3598"N	80°43'3.0344"W	2872.37	333.112	0.83	0.16	0.81	
10445.00	90.180	341.370	7115.11	2939.50	2651.82	-1329.49	1719988.53	14371443.41	39°34'30.2500"N	80°43'3.4200"W	2966.43	333.373	0.19	0.09	0.17	
10539.00	89.850	340.190	7115.09	3033.49	2740.58	-1360.43	1719957.59	14371532.13	39°34'31.1282"N	80°43'3.8116"W	3059.67	333.600	1.30	-0.35	-1.26	
10634.00	89.880	340.560	7115.31	3128.48	2830.06	-1392.34	1719925.70	14371621.58	39°34'32.0136"N	80°43'4.2155"W	3154.02	333.804	0.39	0.03	0.39	

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REFERENCE WELLPATH IDENTIFICATION				
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Field	Wetzel		API	47-103-03698-0000
Facility	Cedar Pad		Wellbore	Marma Unit 1H AWP
Slot	Slot I			

WELLPATH DATA (263 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
10729.00	91.170	340.830	7114.44	3223.48	2919.72	-1423.74	1719894.31	14371711.19	39°34'32.9006"N	80°43'4.6129"W	3248.35	334.005	1.39	1.36	0.28	
10823.00	90.430	340.940	7113.13	3317.47	3008.52	-1454.52	1719863.54	14371799.97	39°34'33.7792"N	80°43'5.0024"W	3341.68	334.198	0.80	-0.79	0.12	
10918.00	90.150	340.530	7112.65	3412.46	3098.20	-1485.87	1719832.21	14371889.61	39°34'34.6665"N	80°43'5.3991"W	3436.08	334.378	0.52	-0.29	-0.43	
11013.00	90.370	340.680	7112.22	3507.46	3187.81	-1517.41	1719800.68	14371979.18	39°34'35.5531"N	80°43'5.7984"W	3530.54	334.545	0.28	0.23	0.16	
11108.00	90.400	340.810	7111.58	3602.45	3277.49	-1548.74	1719769.36	14372068.83	39°34'36.4404"N	80°43'6.1949"W	3624.99	334.707	0.14	0.03	0.14	
11202.00	90.520	341.110	7110.82	3696.45	3366.35	-1579.41	1719738.71	14372157.65	39°34'37.3196"N	80°43'6.5830"W	3718.44	334.865	0.34	0.13	0.32	
11297.00	90.180	340.810	7110.24	3791.45	3456.15	-1610.40	1719707.73	14372247.42	39°34'38.2080"N	80°43'6.9752"W	3812.92	335.017	0.48	-0.36	-0.32	
11392.00	90.620	341.080	7109.58	3886.44	3545.94	-1641.41	1719676.73	14372337.17	39°34'39.0964"N	80°43'7.3677"W	3907.42	335.161	0.54	0.46	0.28	
11486.00	90.340	341.970	7108.79	3980.44	3635.09	-1671.20	1719646.95	14372426.29	39°34'39.9784"N	80°43'7.7445"W	4000.85	335.310	0.99	-0.30	0.95	
11581.00	90.770	342.550	7107.87	4075.41	3725.57	-1700.14	1719618.02	14372516.73	39°34'40.8735"N	80°43'8.1105"W	4095.16	335.471	0.76	0.45	0.61	
11676.00	90.650	342.230	7106.70	4170.38	3816.11	-1728.88	1719589.29	14372607.24	39°34'41.7693"N	80°43'8.4739"W	4189.48	335.627	0.36	-0.13	-0.34	
11770.00	90.180	342.160	7106.02	4264.36	3905.61	-1757.62	1719560.56	14372696.70	39°34'42.6546"N	80°43'8.8374"W	4282.87	335.771	0.51	-0.50	-0.07	
11865.00	90.650	342.180	7105.33	4359.34	3996.04	-1786.71	1719531.48	14372787.09	39°34'43.5493"N	80°43'9.2053"W	4377.29	335.910	0.50	0.49	0.02	
11960.00	90.710	341.830	7104.20	4454.32	4086.39	-1816.06	1719502.15	14372877.41	39°34'44.4431"N	80°43'9.5765"W	4471.76	336.039	0.37	0.06	-0.37	
12054.00	90.520	342.230	7103.19	4548.31	4175.80	-1845.06	1719473.16	14372966.78	39°34'45.3277"N	80°43'9.9433"W	4565.25	336.162	0.47	-0.20	0.43	
12149.00	90.520	340.350	7102.33	4643.30	4265.77	-1875.53	1719442.70	14373056.72	39°34'46.2178"N	80°43'10.3289"W	4659.87	336.266	1.98	0.00	-1.98	
12244.00	91.020	342.900	7101.05	4738.28	4355.91	-1905.47	1719412.77	14373146.82	39°34'47.1096"N	80°43'10.7077"W	4754.45	336.373	2.74	0.53	2.68	
12338.00	91.050	343.400	7099.35	4832.20	4445.86	-1932.71	1719385.54	14373236.73	39°34'47.9994"N	80°43'11.0520"W	4847.79	336.504	0.53	0.03	0.53	
12433.00	91.630	342.730	7097.13	4927.12	4536.71	-1960.38	1719357.89	14373327.55	39°34'48.8982"N	80°43'11.4017"W	4942.15	336.630	0.93	0.61	-0.71	
12528.00	91.540	342.180	7094.50	5022.05	4627.26	-1989.00	1719329.27	14373418.06	39°34'49.7940"N	80°43'11.7637"W	5036.63	336.740	0.59	-0.09	-0.58	
12622.00	91.230	342.050	7092.23	5116.01	4716.69	-2017.86	1719300.42	14373507.46	39°34'50.6787"N	80°43'12.1287"W	5130.20	336.838	0.36	-0.33	-0.14	
12717.00	91.450	341.930	7090.01	5210.97	4807.01	-2047.23	1719271.07	14373597.74	39°34'51.5723"N	80°43'12.5002"W	5224.80	336.932	0.26	0.23	-0.13	
12812.00	91.940	342.610	7087.20	5305.91	4897.46	-2076.15	1719242.16	14373688.16	39°34'52.4671"N	80°43'12.8659"W	5319.35	337.027	0.88	0.52	0.72	
12906.00	90.460	342.150	7085.23	5399.87	4987.03	-2104.59	1719213.73	14373777.69	39°34'53.3532"N	80°43'13.2257"W	5412.92	337.120	1.65	-1.57	-0.49	
13001.00	89.660	342.000	7085.13	5494.85	5077.41	-2133.83	1719184.50	14373868.04	39°34'54.2474"N	80°43'13.5955"W	5507.57	337.205	0.86	-0.84	-0.16	
13096.00	89.910	342.080	7085.49	5589.84	5167.78	-2163.12	1719155.22	14373958.37	39°34'55.1414"N	80°43'13.9660"W	5602.24	337.287	0.28	0.26	0.08	
13190.00	89.820	342.040	7085.71	5683.82	5257.21	-2192.08	1719126.28	14374047.77	39°34'56.0262"N	80°43'14.3323"W	5695.92	337.366	0.10	-0.10	-0.04	
13285.00	89.350	342.350	7086.40	5778.80	5347.66	-2221.13	1719097.24	14374138.18	39°34'56.9210"N	80°43'14.6997"W	5790.58	337.445	0.59	-0.49	0.33	
13380.00	89.380	342.230	7087.45	5873.78	5438.15	-2250.02	1719068.35	14374228.64	39°34'57.8162"N	80°43'15.0652"W	5885.24	337.523	0.13	0.03	-0.13	
13474.00	89.290	342.160	7088.54	5967.75	5527.64	-2278.76	1719039.62	14374318.09	39°34'58.7016"N	80°43'15.4287"W	5978.93	337.596	0.12	-0.10	-0.07	

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Actual Wellpath Report

Marma Unit 1H AWP Proj: 24077'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWP
Slot	Slot I		

WELLPATH DATA (263 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
13569.00	89.260	341.850	7089.74	6062.73	5617.99	-2308.11	1719010.29	14374408.40	39°34'59.5954"N	80°43'15.7999"W	6073.65	337.665	0.33	-0.03	-0.33	
13663.00	89.450	341.950	7090.80	6156.72	5707.33	-2337.31	1718981.10	14374497.71	39°35'0.4792"N	80°43'16.1693"W	6167.39	337.730	0.23	0.20	0.11	
13758.00	89.320	342.240	7091.82	6251.70	5797.73	-2366.52	1718951.91	14374588.07	39°35'1.3735"N	80°43'16.5388"W	6262.11	337.796	0.33	-0.14	0.31	
13853.00	89.540	342.120	7092.77	6346.68	5888.16	-2395.59	1718922.85	14374678.47	39°35'2.2682"N	80°43'16.9065"W	6356.83	337.861	0.26	0.23	-0.13	
13947.00	88.950	342.260	7094.01	6440.65	5977.65	-2424.34	1718894.11	14374767.92	39°35'3.1535"N	80°43'17.2701"W	6450.56	337.924	0.65	-0.63	0.15	
14042.00	88.920	339.770	7095.77	6535.63	6067.46	-2455.23	1718863.22	14374857.70	39°35'4.0421"N	80°43'17.6612"W	6545.40	337.969	2.62	-0.03	-2.62	
14137.00	90.090	342.350	7096.59	6630.61	6157.30	-2486.06	1718832.41	14374947.50	39°35'4.9310"N	80°43'18.0514"W	6640.25	338.013	2.98	1.23	2.72	
14231.00	89.720	342.060	7096.75	6724.60	6246.81	-2514.79	1718803.69	14375036.97	39°35'5.8164"N	80°43'18.4148"W	6734.00	338.072	0.50	-0.39	-0.31	
14326.00	90.370	342.030	7096.67	6819.58	6337.18	-2544.08	1718774.42	14375127.31	39°35'6.7105"N	80°43'18.7853"W	6828.78	338.127	0.68	0.68	-0.03	
14421.00	90.280	341.680	7096.14	6914.57	6427.45	-2573.66	1718744.84	14375217.55	39°35'7.6036"N	80°43'19.1596"W	6923.58	338.178	0.38	-0.09	-0.37	
14515.00	91.350	342.310	7094.80	7008.55	6516.84	-2602.71	1718715.80	14375306.90	39°35'8.4879"N	80°43'19.5271"W	7017.36	338.229	1.32	1.14	0.67	
14610.00	90.340	340.630	7093.40	7103.53	6606.90	-2632.90	1718685.63	14375396.92	39°35'9.3789"N	80°43'19.9091"W	7112.19	338.272	2.06	-1.06	-1.77	
14705.00	90.250	340.950	7092.91	7198.53	6696.61	-2664.16	1718654.38	14375486.60	39°35'10.2664"N	80°43'20.3048"W	7207.10	338.306	0.35	-0.09	0.34	
14800.00	90.060	340.930	7092.65	7293.53	6786.40	-2695.18	1718623.37	14375576.35	39°35'11.1548"N	80°43'20.6975"W	7302.00	338.340	0.20	-0.20	-0.02	
14894.00	90.310	340.880	7092.35	7387.53	6875.23	-2725.93	1718592.63	14375665.15	39°35'12.0336"N	80°43'21.0868"W	7395.91	338.372	0.27	0.27	-0.05	
14989.00	90.370	341.100	7091.78	7482.53	6965.05	-2756.88	1718561.70	14375754.93	39°35'12.9223"N	80°43'21.4785"W	7490.81	338.406	0.24	0.06	0.23	
15084.00	90.180	340.710	7091.33	7577.53	7054.82	-2787.95	1718530.64	14375844.66	39°35'13.8104"N	80°43'21.8719"W	7585.72	338.437	0.46	-0.20	-0.41	
15178.00	90.250	340.600	7090.98	7671.52	7143.51	-2819.09	1718499.51	14375933.32	39°35'14.6879"N	80°43'22.2661"W	7679.65	338.464	0.14	0.07	-0.12	
15273.00	89.940	340.770	7090.82	7766.52	7233.16	-2850.51	1718468.10	14376022.94	39°35'15.5750"N	80°43'22.6639"W	7774.58	338.491	0.37	-0.33	0.18	
15368.00	90.220	341.300	7090.69	7861.52	7323.00	-2881.39	1718437.24	14376112.75	39°35'16.4638"N	80°43'23.0547"W	7869.48	338.522	0.63	0.29	0.56	
15462.00	89.910	341.110	7090.58	7955.52	7411.99	-2911.67	1718406.97	14376201.70	39°35'17.3442"N	80°43'23.4380"W	7963.38	338.553	0.39	-0.33	-0.20	
15557.00	90.180	340.770	7090.50	8050.52	7501.78	-2942.70	1718375.96	14376291.45	39°35'18.2326"N	80°43'23.8308"W	8058.30	338.582	0.46	0.28	-0.36	
15652.00	89.970	340.800	7090.38	8145.52	7591.49	-2973.96	1718344.70	14376381.13	39°35'19.1201"N	80°43'24.2266"W	8153.23	338.607	0.22	-0.22	0.03	
15746.00	90.150	340.860	7090.28	8239.51	7680.28	-3004.83	1718313.85	14376469.88	39°35'19.9986"N	80°43'24.6174"W	8247.16	338.633	0.20	0.19	0.06	
15841.00	90.120	341.110	7090.06	8334.51	7770.09	-3035.78	1718282.91	14376559.66	39°35'20.8872"N	80°43'25.0092"W	8342.08	338.659	0.27	-0.03	0.26	
15936.00	90.280	341.700	7089.73	8429.51	7860.13	-3066.07	1718252.63	14376649.66	39°35'21.7780"N	80°43'25.3926"W	8436.97	338.690	0.64	0.17	0.62	
16031.00	89.940	340.630	7089.54	8524.51	7950.04	-3096.74	1718221.97	14376739.54	39°35'22.6675"N	80°43'25.7808"W	8531.88	338.718	1.18	-0.36	-1.13	
16125.00	90.250	341.170	7089.39	8618.51	8038.87	-3127.50	1718191.22	14376828.33	39°35'23.5463"N	80°43'26.1702"W	8625.82	338.742	0.66	0.33	0.57	
16220.00	90.150	340.810	7089.06	8713.51	8128.69	-3158.45	1718160.29	14376918.11	39°35'24.4350"N	80°43'26.5619"W	8720.74	338.766	0.39	-0.11	-0.38	
16315.00	90.180	341.790	7088.78	8808.51	8218.67	-3188.90	1718129.84	14377008.06	39°35'25.3252"N	80°43'26.9474"W	8815.65	338.793	1.03	0.03	1.03	

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Marma Unit 1H AWP Proj: 24077'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWB
Slot	Slot I		

WELLPATH DATA (263 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
16409.00	90.000	340.810	7088.63	8902.50	8307.71	-3219.04	1718099.72	14377097.06	39°35'26.2061"N	80°43'27.3289"W	8909.56	338.820	1.06	-0.19	-1.04	
16504.00	90.000	340.730	7088.63	8997.50	8397.41	-3250.33	1718068.44	14377186.72	39°35'27.0935"N	80°43'27.7251"W	9004.50	338.840	0.08	0.00	-0.08	
16599.00	90.060	340.740	7088.58	9092.50	8487.09	-3281.67	1718037.11	14377276.37	39°35'27.9808"N	80°43'28.1219"W	9099.45	338.860	0.06	0.06	0.01	
16693.00	90.000	340.700	7088.54	9186.50	8575.82	-3312.71	1718006.09	14377365.06	39°35'28.8587"N	80°43'28.5149"W	9193.40	338.879	0.08	-0.06	-0.04	
16788.00	90.000	340.670	7088.54	9281.50	8665.47	-3344.13	1717974.68	14377454.68	39°35'29.7457"N	80°43'28.9128"W	9288.36	338.898	0.03	0.00	-0.03	
16883.00	90.060	340.840	7088.49	9376.49	8755.16	-3375.45	1717943.38	14377544.34	39°35'30.6330"N	80°43'29.3092"W	9383.31	338.916	0.19	0.06	0.18	
16977.00	90.060	340.590	7088.39	9470.49	8843.88	-3406.49	1717912.34	14377633.03	39°35'31.5109"N	80°43'29.7023"W	9477.26	338.934	0.27	0.00	-0.27	
17072.00	90.060	340.740	7088.29	9565.49	8933.53	-3437.95	1717880.90	14377722.63	39°35'32.3978"N	80°43'30.1006"W	9572.22	338.951	0.16	0.00	0.16	
17167.00	89.970	340.640	7088.26	9660.49	9023.18	-3469.36	1717849.50	14377812.25	39°35'33.2848"N	80°43'30.4984"W	9667.18	338.969	0.14	-0.09	-0.11	
17262.00	90.000	340.930	7088.29	9755.49	9112.89	-3500.63	1717818.25	14377901.92	39°35'34.1723"N	80°43'30.8942"W	9762.13	338.986	0.31	0.03	0.31	
17356.00	89.940	340.790	7088.34	9849.48	9201.69	-3531.45	1717787.44	14377990.69	39°35'35.0509"N	80°43'31.2845"W	9856.08	339.004	0.16	-0.06	-0.15	
17451.00	90.030	340.530	7088.36	9944.48	9291.33	-3562.91	1717755.99	14378080.30	39°35'35.9378"N	80°43'31.6829"W	9951.04	339.020	0.29	0.09	-0.27	
17545.00	90.090	340.850	7088.26	10038.48	9380.04	-3593.99	1717724.92	14378168.97	39°35'36.8155"N	80°43'32.0765"W	10045.00	339.036	0.35	0.06	0.34	
17640.00	90.000	340.830	7088.19	10133.48	9469.78	-3625.17	1717693.75	14378258.68	39°35'37.7033"N	80°43'32.4712"W	10139.95	339.052	0.10	-0.09	-0.02	
17734.00	90.030	340.720	7088.16	10227.48	9558.54	-3656.12	1717662.81	14378347.40	39°35'38.5815"N	80°43'32.8632"W	10233.91	339.068	0.12	0.03	-0.12	
17829.00	90.060	340.480	7088.09	10322.47	9648.15	-3687.68	1717631.27	14378436.97	39°35'39.4680"N	80°43'33.2628"W	10328.88	339.082	0.25	0.03	-0.25	
17923.00	89.970	340.400	7088.07	10416.47	9736.72	-3719.15	1717599.81	14378525.51	39°35'40.3444"N	80°43'33.6613"W	10422.85	339.095	0.13	-0.10	-0.09	
18018.00	90.030	340.640	7088.07	10511.46	9826.28	-3750.83	1717568.14	14378615.04	39°35'41.2305"N	80°43'34.0625"W	10517.82	339.107	0.26	0.06	0.25	
18112.00	89.940	340.670	7088.09	10605.46	9914.98	-3781.97	1717537.01	14378703.69	39°35'42.1080"N	80°43'34.4568"W	10611.79	339.121	0.10	-0.10	0.03	
18207.00	90.060	340.640	7088.09	10700.46	10004.61	-3813.44	1717505.56	14378793.30	39°35'42.9948"N	80°43'34.8553"W	10706.75	339.135	0.13	0.13	-0.03	
18301.00	90.180	341.150	7087.89	10794.45	10093.43	-3844.20	1717474.80	14378882.08	39°35'43.8736"N	80°43'35.2449"W	10800.71	339.150	0.56	0.13	0.54	
18396.00	90.180	341.140	7087.59	10889.45	10183.34	-3874.90	1717444.11	14378971.95	39°35'44.7630"N	80°43'35.6336"W	10895.65	339.167	0.01	0.00	-0.01	
18491.00	90.090	340.740	7087.37	10984.45	10273.13	-3905.93	1717413.10	14379061.70	39°35'45.6514"N	80°43'36.0264"W	10990.61	339.183	0.43	-0.09	-0.42	
18585.00	89.820	339.920	7087.44	11078.44	10361.64	-3937.57	1717381.48	14379150.18	39°35'46.5271"N	80°43'36.4271"W	11084.59	339.193	0.92	-0.29	-0.87	
18680.00	90.060	340.680	7087.54	11173.43	10451.08	-3969.59	1717349.47	14379239.59	39°35'47.4120"N	80°43'36.8327"W	11179.57	339.202	0.84	0.25	0.80	
18775.00	90.090	341.050	7087.42	11268.43	10540.83	-4000.73	1717318.34	14379329.30	39°35'48.3000"N	80°43'37.2271"W	11274.53	339.216	0.39	0.03	0.39	
18869.00	90.000	340.770	7087.35	11362.43	10629.66	-4031.47	1717287.61	14379418.10	39°35'49.1788"N	80°43'37.6163"W	11368.49	339.230	0.31	-0.10	-0.30	
18964.00	90.060	340.550	7087.30	11457.43	10719.30	-4062.94	1717256.16	14379507.70	39°35'50.0657"N	80°43'38.0148"W	11463.46	339.242	0.24	0.06	-0.23	
19059.00	90.030	340.780	7087.22	11552.43	10808.94	-4094.39	1717224.72	14379597.31	39°35'50.9526"N	80°43'38.4131"W	11558.43	339.253	0.24	-0.03	0.24	
19153.00	90.000	340.490	7087.20	11646.42	10897.62	-4125.56	1717193.56	14379685.96	39°35'51.8300"N	80°43'38.8078"W	11652.40	339.265	0.31	-0.03	-0.31	

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Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWP
Slot	Slot I		

WELLPATH DATA (263 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
19248.00	90.000	340.370	7087.20	11741.42	10987.14	-4157.38	1717161.75	14379775.43	39°35'52.7156"N	80°43'39.2109"W	11747.38	339.274	0.13	0.00	-0.13	
19343.00	90.000	340.650	7087.20	11836.41	11076.69	-4189.08	1717130.07	14379864.95	39°35'53.6016"N	80°43'39.6123"W	11842.36	339.284	0.29	0.00	0.29	
19438.00	90.060	340.840	7087.15	11931.41	11166.38	-4220.40	1717098.75	14379954.60	39°35'54.4889"N	80°43'40.0090"W	11937.33	339.296	0.21	0.06	0.20	
19532.00	90.340	340.890	7086.82	12025.41	11255.18	-4251.22	1717067.95	14380043.37	39°35'55.3675"N	80°43'40.3992"W	12031.29	339.308	0.30	0.30	0.05	
19627.00	90.090	340.580	7086.46	12120.41	11344.86	-4282.56	1717036.62	14380133.02	39°35'56.2548"N	80°43'40.7962"W	12126.26	339.319	0.42	-0.26	-0.33	
19721.00	90.220	340.900	7086.21	12214.40	11433.60	-4313.57	1717005.63	14380221.72	39°35'57.1327"N	80°43'41.1889"W	12220.23	339.330	0.37	0.14	0.34	
19816.00	90.250	341.110	7085.82	12309.40	11523.43	-4344.49	1716974.72	14380311.51	39°35'58.0214"N	80°43'41.5804"W	12315.19	339.343	0.22	0.03	0.22	
19911.00	90.180	341.140	7085.46	12404.40	11613.32	-4375.22	1716944.00	14380401.37	39°35'58.9107"N	80°43'41.9695"W	12410.15	339.357	0.08	-0.07	0.03	
20005.00	90.030	338.800	7085.29	12498.38	11701.63	-4407.41	1716911.81	14380489.64	39°35'59.7845"N	80°43'42.3774"W	12504.13	339.361	2.49	-0.16	-2.49	
20100.00	90.220	340.970	7085.08	12593.35	11790.83	-4440.08	1716879.16	14380578.81	39°36'0.6670"N	80°43'42.7913"W	12599.12	339.365	2.29	0.20	2.28	
20194.00	90.220	340.820	7084.72	12687.35	11879.65	-4470.85	1716848.41	14380667.59	39°36'1.5458"N	80°43'43.1809"W	12693.09	339.376	0.16	0.00	-0.16	
20289.00	90.340	341.010	7084.26	12782.35	11969.43	-4501.91	1716817.36	14380757.33	39°36'2.4340"N	80°43'43.5743"W	12788.06	339.388	0.24	0.13	0.20	
20383.00	90.430	340.820	7083.63	12876.34	12058.26	-4532.65	1716786.63	14380846.13	39°36'3.3128"N	80°43'43.9635"W	12882.02	339.399	0.22	0.10	-0.20	
20478.00	90.460	341.410	7082.89	12971.34	12148.14	-4563.39	1716755.90	14380935.98	39°36'4.2021"N	80°43'44.3528"W	12976.97	339.412	0.62	0.03	0.62	
20573.00	90.120	340.770	7082.41	13066.34	12238.01	-4594.18	1716725.12	14381025.81	39°36'5.0912"N	80°43'44.7427"W	13071.93	339.424	0.76	-0.36	-0.67	
20667.00	90.740	340.790	7081.70	13160.33	12326.77	-4625.12	1716694.19	14381114.54	39°36'5.9693"N	80°43'45.1346"W	13165.90	339.433	0.66	0.66	0.02	
20762.00	90.680	340.170	7080.52	13255.32	12416.30	-4656.86	1716662.46	14381204.03	39°36'6.8551"N	80°43'45.5366"W	13260.88	339.441	0.66	-0.06	-0.65	
20857.00	89.820	340.390	7080.11	13350.31	12505.73	-4688.92	1716630.42	14381293.42	39°36'7.7399"N	80°43'45.9427"W	13355.87	339.447	0.93	-0.91	0.23	
20951.00	90.000	340.940	7080.26	13444.31	12594.43	-4720.04	1716599.31	14381382.09	39°36'8.6174"N	80°43'46.3369"W	13449.85	339.455	0.62	0.19	0.59	
21047.00	89.200	340.730	7080.93	13540.30	12685.10	-4751.56	1716567.81	14381472.73	39°36'9.5146"N	80°43'46.7360"W	13545.81	339.465	0.86	-0.83	-0.22	
21142.00	89.380	341.220	7082.10	13635.29	12774.91	-4782.52	1716536.86	14381562.50	39°36'10.4030"N	80°43'47.1282"W	13640.77	339.476	0.55	0.19	0.52	
21237.00	88.280	340.970	7084.04	13730.27	12864.76	-4813.29	1716506.09	14381652.32	39°36'11.2920"N	80°43'47.5179"W	13735.72	339.487	1.19	-1.16	-0.26	
21331.00	88.310	340.640	7086.84	13824.23	12953.50	-4844.19	1716475.21	14381741.02	39°36'12.1699"N	80°43'47.9091"W	13829.65	339.496	0.35	0.03	-0.35	
21426.00	88.370	340.790	7089.59	13919.19	13043.13	-4875.55	1716443.87	14381830.61	39°36'13.0566"N	80°43'48.3064"W	13924.59	339.504	0.17	0.06	0.16	
21521.00	88.340	340.790	7092.32	14014.15	13132.80	-4906.79	1716412.63	14381920.25	39°36'13.9438"N	80°43'48.7021"W	14019.52	339.513	0.03	-0.03	0.00	
21616.00	88.280	340.810	7095.12	14109.10	13222.48	-4938.02	1716381.42	14382009.89	39°36'14.8310"N	80°43'49.0976"W	14114.46	339.522	0.07	-0.06	0.02	
21710.00	89.290	340.850	7097.12	14203.08	13311.24	-4968.88	1716350.57	14382098.62	39°36'15.7093"N	80°43'49.4885"W	14208.41	339.530	1.08	1.07	0.04	
21805.00	90.430	341.370	7097.35	14298.08	13401.13	-4999.64	1716319.82	14382188.47	39°36'16.5985"N	80°43'49.8780"W	14303.38	339.541	1.32	1.20	0.55	
21900.00	90.220	341.180	7096.81	14393.08	13491.10	-5030.13	1716289.34	14382278.40	39°36'17.4886"N	80°43'50.2642"W	14398.33	339.552	0.30	-0.22	-0.20	
21994.00	90.120	341.340	7096.53	14487.08	13580.11	-5060.33	1716259.15	14382367.38	39°36'18.3692"N	80°43'50.6466"W	14492.29	339.563	0.20	-0.11	0.17	

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Marma Unit 1H AWP Proj: 24077'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWB
Slot	Slot I		

WELLPATH DATA (263 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
22089.00	90.520	341.400	7096.00	14582.07	13670.13	-5090.68	1716228.82	14382457.37	39°36'19.2598"N	80°43'51.0308"W	14587.24	339.575	0.43	0.42	0.06	
22184.00	90.370	341.120	7095.26	14677.07	13760.09	-5121.20	1716198.31	14382547.29	39°36'20.1498"N	80°43'51.4173"W	14682.20	339.586	0.33	-0.16	-0.29	
22279.00	90.280	341.040	7094.72	14772.07	13849.96	-5152.01	1716167.52	14382637.13	39°36'21.0389"N	80°43'51.8074"W	14777.16	339.595	0.13	-0.09	-0.08	
22374.00	90.280	340.870	7094.26	14867.07	13939.76	-5183.00	1716136.53	14382726.89	39°36'21.9273"N	80°43'52.2001"W	14872.13	339.604	0.18	0.00	-0.18	
22469.00	90.370	340.820	7093.72	14962.06	14029.50	-5214.18	1716105.37	14382816.59	39°36'22.8151"N	80°43'52.5949"W	14967.11	339.612	0.11	0.09	-0.05	
22563.00	90.150	340.890	7093.29	15056.06	14118.30	-5245.00	1716074.56	14382905.36	39°36'23.6936"N	80°43'52.9853"W	15061.09	339.620	0.25	-0.23	0.07	
22658.00	89.880	340.890	7093.27	15151.06	14208.06	-5276.10	1716043.47	14382995.09	39°36'24.5817"N	80°43'53.3793"W	15156.06	339.628	0.28	-0.28	0.00	
22753.00	89.940	341.380	7093.42	15246.06	14297.96	-5306.82	1716012.76	14383084.95	39°36'25.4711"N	80°43'53.7683"W	15251.03	339.637	0.52	0.06	0.52	
22847.00	89.970	340.940	7093.49	15340.06	14386.92	-5337.18	1715982.42	14383173.88	39°36'26.3512"N	80°43'54.1527"W	15345.00	339.646	0.47	0.03	-0.47	
22942.00	90.000	341.190	7093.52	15435.06	14476.78	-5368.00	1715951.60	14383263.70	39°36'27.2402"N	80°43'54.5432"W	15439.97	339.655	0.27	0.03	0.26	
23037.00	90.000	340.910	7093.52	15530.06	14566.63	-5398.85	1715920.77	14383353.52	39°36'28.1291"N	80°43'54.9339"W	15534.94	339.664	0.29	0.00	-0.29	
23131.00	90.280	341.070	7093.29	15624.06	14655.50	-5429.47	1715890.16	14383442.35	39°36'29.0084"N	80°43'55.3217"W	15628.92	339.672	0.34	0.30	0.17	
23226.00	90.340	341.110	7092.77	15719.06	14745.38	-5460.26	1715859.38	14383532.19	39°36'29.8975"N	80°43'55.7116"W	15723.89	339.680	0.08	0.06	0.04	
23321.00	90.250	340.580	7092.28	15814.06	14835.12	-5491.43	1715828.22	14383621.89	39°36'30.7853"N	80°43'56.1065"W	15818.86	339.687	0.57	-0.09	-0.56	
23415.00	90.310	341.030	7091.82	15908.05	14923.89	-5522.34	1715797.33	14383710.63	39°36'31.6636"N	80°43'56.4980"W	15912.85	339.694	0.48	0.06	0.48	
23510.00	90.680	341.360	7091.00	16003.05	15013.81	-5552.96	1715766.72	14383800.52	39°36'32.5532"N	80°43'56.8858"W	16007.81	339.703	0.52	0.39	0.35	
23604.00	90.460	341.260	7090.07	16097.04	15102.85	-5583.08	1715736.61	14383889.52	39°36'33.4341"N	80°43'57.2673"W	16101.77	339.712	0.26	-0.23	-0.11	
23699.00	90.710	341.350	7089.10	16192.04	15192.83	-5613.53	1715706.18	14383979.47	39°36'34.3243"N	80°43'57.6529"W	16196.73	339.721	0.28	0.26	0.09	
23793.00	90.740	341.070	7087.91	16286.03	15281.82	-5643.80	1715675.91	14384068.42	39°36'35.2046"N	80°43'58.0363"W	16290.69	339.730	0.30	0.03	-0.30	
23888.00	90.490	340.930	7086.89	16381.02	15371.64	-5674.73	1715645.00	14384158.20	39°36'36.0932"N	80°43'58.4281"W	16385.66	339.737	0.30	-0.26	-0.15	
23983.00	90.490	341.060	7086.08	16476.02	15461.45	-5705.67	1715614.07	14384247.99	39°36'36.9818"N	80°43'58.8199"W	16480.63	339.745	0.14	0.00	0.14	
24052.00	90.550	341.260	7085.45	16545.02	15526.76	-5727.95	1715591.80	14384313.26	39°36'37.6279"N	80°43'59.1021"W	16549.61	339.751	0.30	0.09	0.29	
24077.00‡	90.550	341.260	7085.21	16570.02	15550.43	-5735.98	1715583.77	14384336.92	39°36'37.8621"N	80°43'59.2038"W	16574.60	339.753	0.00	0.00	0.00	Projected MD at TD: 24077'

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Actual Wellpath Report

Marma Unit 1H AWP Proj: 24077'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWB
Slot	Slot I		

DIRECTIONAL DIFFICULTY INDEX			
Directional Difficulty Index @ TD = 7.19		Reference: IADC/SPE 59196	
Values	Wellpath characterized as:	Values	Wellpath characterized as:
< 6.0	Relatively short or simple profiles with low tortuosity	6.4-6.8	Longer with relatively tortuous well paths
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity	> 6.8	Long tortuous profiles, high degree of difficulty

HOLE & CASING SECTIONS - Ref Wellbore: Marma Unit 1H AWB Ref Wellpath: Marma Unit 1H AWP Proj: 24077'									
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]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.21	-0.01
17.5in Open Hole	125.50	739.00	613.50	125.50	739.00	-0.21	-0.01	-1.17	-0.33
13.375in Casing Surface	25.50	719.00	693.50	25.50	719.00	0.00	0.00	-1.22	-0.35
12.25in Open Hole	739.00	3402.00	2663.00	739.00	3375.36	-1.17	-0.33	-330.10	-109.85
9.625in Casing Intermediate	25.50	3372.00	3346.50	25.50	3345.57	0.00	0.00	-326.64	-108.80
8.75in Open Hole	3402.00	6328.00	2926.00	3375.36	6270.60	-330.10	-109.85	-725.92	-246.35
8.5in Open Hole	6328.00	24077.00	17749.00	6270.60	7085.21	-725.92	-246.35	15550.43	-5735.98
5.5in Casing Production	25.50	24057.00	24031.50	25.50	7085.40	0.00	0.00	15531.49	-5729.55

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Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWB
Slot	Slot I		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Marma Unit 1H POE Rev-2	7100.00	-232.64	-378.47	1720939.17	14368560.08	39°34'1.7126"N	80°42'51.3921"W	point
Marma Unit 1H AZI Rev-2	7125.00	243.60	-485.36	1720832.32	14369036.13	39°34'6.4227"N	80°42'52.7377"W	point
Marma Unit 1H BHL Rev-2	7125.00	15572.58	-5734.53	1715585.22	14384359.07	39°36'38.0810"N	80°43'59.1845"W	point
Marma Unit 1H LP Rev-2	7125.00	-47.84	-410.61	1720907.04	14368744.81	39°34'3.5401"N	80°42'51.7950"W	point
Marma Unit 1H 50' L/R Hard Line	7500.00	7908.09	-3109.95	1718208.77	14376697.60	39°35'22.2533"N	80°43'25.9511"W	rectangle
2D Rectangle 16202.8 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Marma Unit 1H AWB Ref Wellpath: Marma Unit 1H AWP Proj: 24077'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	700.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-700')	Marma Unit 1H AWB	3/3/2025
700.00	833.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4"> (700')(800'-833')	Marma Unit 1H AWB	3/4/2025
833.00	3318.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (833')(955'-3318')	Marma Unit 1H AWB	3/3/2025
3318.00	6255.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3318')(3413'-6255')	Marma Unit 1H AWB	4/2/2025
6255.00	24077.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH Lucida <8-1/2"> (6255')(6305'-24052')	Marma Unit 1H AWB	4/2/2025

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Marma Unit 1H AWP Proj: 24077'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 1H
Field	Wetzel	API	47-103-03698-0000
Facility	Cedar Pad	Wellbore	Marma Unit 1H AWB
Slot	Slot I		

COMMENTS

Wellpath general comments

API: 47-103-03698-0000
 BH Job #: 112590381
 Rig: H&P 317
 Duration: 4/5/2025-4/8/2025
 Gyrodata MS Gyro <17-1/2"> (100'-700')
 Gyrodata MS Gyro <12-1/4"> (700')(800'-833')
 APS EM <12-1/4"> (833')(955'-3318')
 APS EM <8-3/4"> (3318')(3413'-6255')
 BH Lucida <8-1/2"> (6255')(6305'-24052')
 Sycamore: 6821' MD
 Middlesex: 6977' MD
 Burkett: 7122' MD
 Tully: 7178' MD
 Marcellus POE: 7401' MD
 Projected MD at TD: 24077'

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