



ANTERO RESOURCES CORPORATION



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

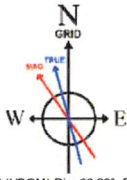
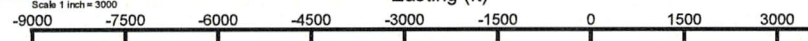
Slot: Slot J
 Well: Marma Unit 2H
 Wellbore: Marma Unit 2H PWB

Easting (ft)

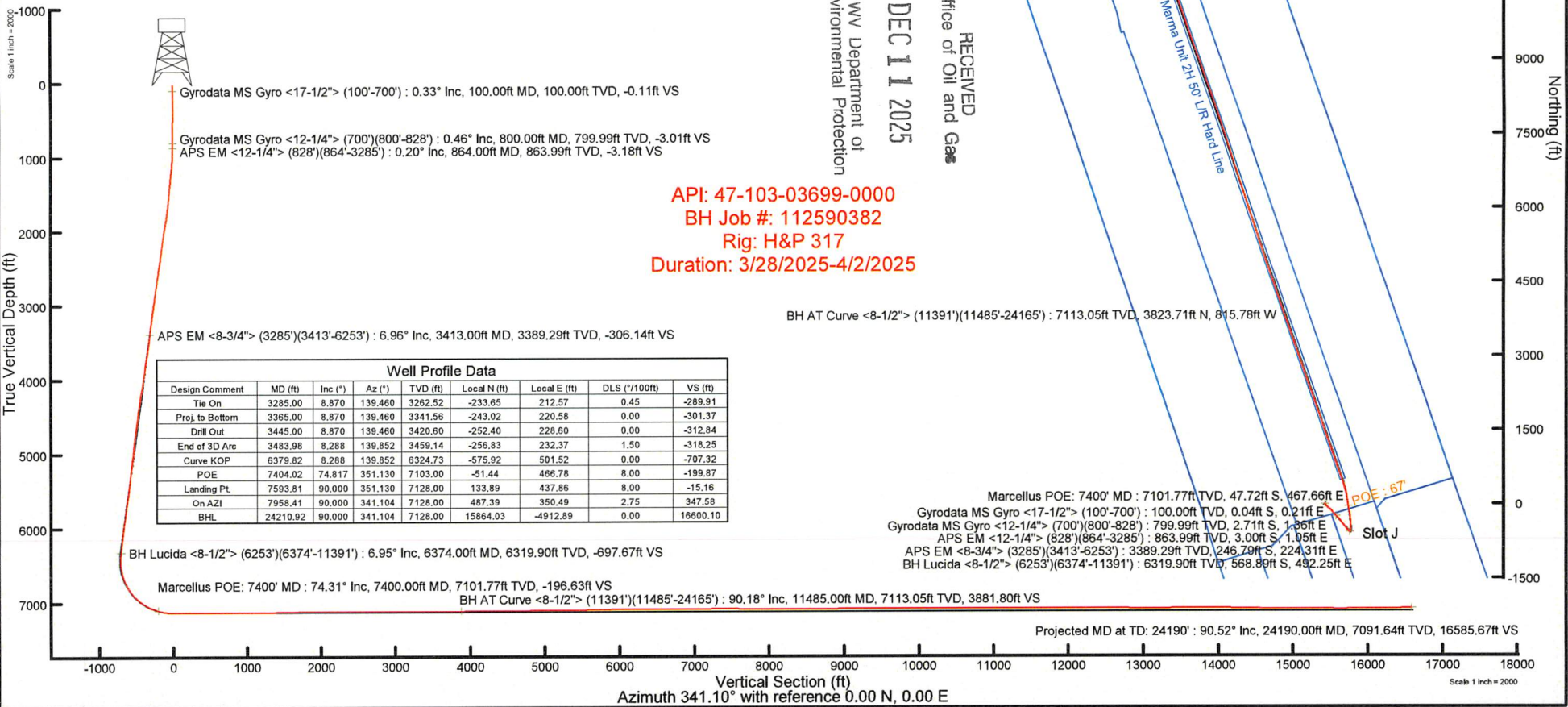
First reference wellpath is Marma Unit 2H PWB Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1275.5 feet	Coordinates are in feet referenced to Sbt
Mean Sea Level to Ground level (At Slot J): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edbayan on 2025-04-09; Database: WA_MPL_EASTERNUS_Dat

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)
Slot J	78.02	326.04	1721328.410	14368803.800
			39°34'4.1100"N	80°42'46.4100"W
Comment: Marma Unit 2H				
H&P 317 (RKB) to Ground level (At Slot: Slot J)				25.5ft
Mean Sea Level to Ground level (At Slot: Slot J)				-1250ft
H&P 317 (RKB) to Mean Sea Level				1275.5ft

Well Data			
Slot	Well	Wellbore	Wellpath
Slot J	Marma Unit 2H	Marma Unit 2H AWB	Marma Unit 2H AWP Proj: 24190'
Slot J	Marma Unit 2H	Marma Unit 2H PWB	Marma Unit 2H PWP Rev-B.0



User specified (HDGM) Dip: 66.22° Field: 51518 nT
 Magnetic North is 7.93 degrees West of True North (at 3/25/2025)
 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



Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3285.00	8.870	139.460	3262.52	-233.65	212.57	0.45
Proj. to Bottom	3365.00	8.870	139.460	3341.56	-243.02	220.58	0.00
Drill Out	3445.00	8.870	139.460	3420.60	-252.40	228.60	0.00
End of 3D Arc	3483.98	8.288	139.852	3459.14	-256.83	232.37	1.50
Curve KOP	6379.82	8.288	139.852	6324.73	-575.92	501.52	0.00
POE	7404.02	74.817	951.130	7103.00	-51.44	468.78	8.00
Landing Pt.	7593.81	90.000	351.130	7128.00	133.89	437.86	8.00
On AZI	7958.41	90.000	341.104	7128.00	487.39	350.49	2.75
BHL	24210.92	90.000	341.104	7128.00	15864.03	-4912.89	0.00



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Marma Unit 2H AWP Proj: 24190'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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	4/6/2025 at 4:04:31 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	78.02	326.04	1721328.41	14368803.80	39°34'4.1100"N	80°42'46.4100"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 J)	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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Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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	100.540	0.00	0.00	0.00	0.00	1721328.41	14368803.80	39°34'4.1100"N	80°42'46.4100"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	100.540	25.50	0.00	0.00	0.00	1721328.41	14368803.80	39°34'4.1100"N	80°42'46.4100"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.330	100.540	100.00	-0.11	-0.04	0.21	1721328.62	14368803.76	39°34'4.1097"N	80°42'46.4073"W	0.21	100.540	0.44	0.44	0.00	Gyrodata MS Gyro <17-1/2"> (100'-700')
200.00	0.140	166.350	200.00	-0.37	-0.21	0.52	1721328.93	14368803.59	39°34'4.1080"N	80°42'46.4033"W	0.56	111.942	0.30	-0.19	65.81	
300.00	0.230	127.210	300.00	-0.66	-0.45	0.71	1721329.12	14368803.35	39°34'4.1056"N	80°42'46.4009"W	0.84	122.353	0.15	0.09	-39.14	
400.00	0.250	137.270	400.00	-1.02	-0.73	1.02	1721329.43	14368803.07	39°34'4.1028"N	80°42'46.3970"W	1.26	125.694	0.05	0.02	10.06	
500.00	0.330	148.370	500.00	-1.50	-1.14	1.32	1721329.73	14368802.66	39°34'4.0988"N	80°42'46.3932"W	1.74	130.793	0.10	0.08	11.10	
600.00	0.420	150.810	599.99	-2.15	-1.70	1.65	1721330.06	14368802.10	39°34'4.0932"N	80°42'46.3890"W	2.37	135.935	0.09	0.09	2.44	
700.00	0.260	201.330	699.99	-2.68	-2.23	1.74	1721330.15	14368801.57	39°34'4.0879"N	80°42'46.3878"W	2.83	142.018	0.32	-0.16	50.52	
800.00	0.460	228.020	799.99	-3.01	-2.71	1.36	1721329.77	14368801.09	39°34'4.0832"N	80°42'46.3927"W	3.04	153.326	0.26	0.20	26.69	Gyrodata MS Gyro <12-1/4"> (700')(800'-828')
828.00	0.450	224.070	827.99	-3.10	-2.87	1.20	1721329.61	14368800.93	39°34'4.0817"N	80°42'46.3947"W	3.11	157.238	0.12	-0.04	-14.11	
864.00	0.200	237.280	863.99	-3.18	-3.00	1.05	1721329.46	14368800.80	39°34'4.0803"N	80°42'46.3967"W	3.18	160.693	0.72	-0.69	36.69	APS EM <12-1/4"> (828')(864'-3285')
954.00	1.270	160.860	953.98	-4.22	-4.03	1.25	1721329.66	14368799.77	39°34'4.0702"N	80°42'46.3942"W	4.22	162.808	1.38	1.19	-84.91	
1045.00	3.170	147.550	1044.91	-7.67	-7.11	2.93	1721331.34	14368796.70	39°34'4.0397"N	80°42'46.3729"W	7.69	157.609	2.15	2.09	-14.63	
1139.00	5.190	144.760	1138.65	-14.28	-12.77	6.78	1721335.18	14368791.03	39°34'3.9836"N	80°42'46.3240"W	14.46	152.055	2.16	2.15	-2.97	
1234.00	6.040	142.350	1233.20	-23.14	-20.24	12.31	1721340.71	14368783.57	39°34'3.9096"N	80°42'46.2536"W	23.69	148.695	0.93	0.89	-2.54	
1329.00	6.000	143.440	1327.67	-32.60	-28.19	18.32	1721346.72	14368775.63	39°34'3.8309"N	80°42'46.1772"W	33.62	146.978	0.13	-0.04	1.15	
1423.00	5.740	142.030	1421.18	-41.72	-35.84	24.14	1721352.54	14368767.98	39°34'3.7551"N	80°42'46.1032"W	43.21	146.039	0.32	-0.28	-1.50	
1518.00	5.620	139.460	1515.71	-50.54	-43.12	30.08	1721358.48	14368760.70	39°34'3.6830"N	80°42'46.0276"W	52.58	145.096	0.30	-0.13	-2.71	
1613.00	5.630	135.930	1610.26	-59.08	-50.00	36.35	1721364.74	14368753.82	39°34'3.6147"N	80°42'45.9479"W	61.82	143.984	0.36	0.01	-3.72	
1707.00	7.280	138.170	1703.66	-68.74	-57.75	43.53	1721371.92	14368746.07	39°34'3.5379"N	80°42'45.8565"W	72.32	142.994	1.78	1.76	2.38	
1802.00	9.290	137.100	1797.66	-81.29	-67.86	52.76	1721381.15	14368735.97	39°34'3.4378"N	80°42'45.7390"W	85.96	142.132	2.12	2.12	-1.13	
1896.00	10.060	136.160	1890.32	-95.66	-79.34	63.61	1721392.00	14368724.50	39°34'3.3240"N	80°42'45.6009"W	101.69	141.276	0.84	0.82	-1.00	
1991.00	9.820	133.910	1983.90	-110.39	-90.94	75.20	1721403.58	14368712.90	39°34'3.2089"N	80°42'45.4535"W	118.00	140.412	0.48	-0.25	-2.37	
2086.00	9.310	130.580	2077.58	-124.22	-101.56	86.87	1721415.25	14368702.28	39°34'3.1036"N	80°42'45.3049"W	133.64	139.456	0.79	-0.54	-3.51	
2181.00	9.380	128.800	2171.32	-137.38	-111.41	98.74	1721427.11	14368692.44	39°34'3.0059"N	80°42'45.1537"W	148.87	138.449	0.31	0.07	-1.87	
2275.00	9.190	126.600	2264.09	-150.04	-120.68	110.74	1721439.10	14368683.17	39°34'2.9138"N	80°42'45.0009"W	163.79	137.460	0.43	-0.20	-2.34	
2370.00	8.820	132.880	2357.92	-162.71	-130.16	122.16	1721450.53	14368673.69	39°34'2.8198"N	80°42'44.8554"W	178.51	136.815	1.10	-0.39	6.61	
2465.00	9.000	141.460	2451.78	-176.13	-140.93	132.13	1721460.49	14368662.93	39°34'2.7131"N	80°42'44.7285"W	193.18	136.845	1.41	0.19	9.03	
2559.00	9.130	140.900	2544.60	-190.05	-152.47	141.42	1721469.77	14368651.39	39°34'2.5987"N	80°42'44.6105"W	207.95	137.153	0.17	0.14	-0.60	

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Marma Unit 2H AWP Proj: 24190'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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
2654.00	9.030	140.500	2638.41	-204.11	-164.07	150.91	1721479.26	14368639.80	39°34'2.4839"N	80°42'44.4897"W	222.92	137.392	0.12	-0.11	-0.42	
2749.00	8.620	137.170	2732.29	-217.59	-175.04	160.49	1721488.84	14368628.83	39°34'2.3750"N	80°42'44.3678"W	237.48	137.483	0.69	-0.43	-3.51	
2843.00	8.590	137.380	2825.23	-230.46	-185.37	170.04	1721498.38	14368618.50	39°34'2.2726"N	80°42'44.2463"W	251.55	137.471	0.05	-0.03	0.22	
2938.00	8.480	140.150	2919.18	-243.49	-195.97	179.33	1721507.67	14368607.90	39°34'2.1675"N	80°42'44.1281"W	265.64	137.539	0.45	-0.12	2.92	
3033.00	8.160	139.600	3013.18	-256.31	-206.48	188.19	1721516.52	14368597.40	39°34'2.0634"N	80°42'44.0154"W	279.37	137.654	0.35	-0.34	-0.58	
3127.00	7.950	136.740	3106.25	-268.44	-216.30	196.97	1721525.30	14368587.59	39°34'1.9661"N	80°42'43.9038"W	292.54	137.679	0.48	-0.22	-3.04	
3222.00	8.670	138.170	3200.25	-281.02	-226.42	206.24	1721534.57	14368577.47	39°34'1.8658"N	80°42'43.7857"W	306.27	137.670	0.79	0.76	1.51	
3285.00	8.870	139.460	3262.52	-289.91	-233.65	212.57	1721540.89	14368570.24	39°34'1.7941"N	80°42'43.7052"W	315.87	137.705	0.45	0.32	2.05	
3413.00	6.960	136.640	3389.29	-306.14	-246.79	224.31	1721552.63	14368557.11	39°34'1.6639"N	80°42'43.5559"W	333.49	137.732	1.52	-1.49	-2.20	APS EM <8-3/4"> (3285')(3413'-6253')
3508.00	8.390	132.300	3483.44	-317.45	-255.64	233.39	1721561.70	14368548.26	39°34'1.5762"N	80°42'43.4403"W	346.15	137.605	1.62	1.51	-4.57	
3602.00	9.720	141.450	3576.27	-330.94	-266.46	243.40	1721571.72	14368537.45	39°34'1.4689"N	80°42'43.3128"W	360.90	137.589	2.08	1.41	9.73	
3697.00	9.670	140.800	3669.91	-345.97	-278.91	253.44	1721581.75	14368525.00	39°34'1.3455"N	80°42'43.1851"W	376.87	137.739	0.13	-0.05	-0.68	
3791.00	9.370	136.310	3762.62	-360.32	-290.57	263.72	1721592.03	14368513.35	39°34'1.2300"N	80°42'43.0544"W	392.40	137.773	0.85	-0.32	-4.78	
3886.00	8.640	134.190	3856.45	-373.71	-301.13	274.18	1721602.48	14368502.79	39°34'1.1252"N	80°42'42.9213"W	407.25	137.682	0.84	-0.77	-2.23	
3981.00	9.440	142.640	3950.27	-387.46	-312.30	284.02	1721612.32	14368491.62	39°34'1.0146"N	80°42'42.7960"W	422.14	137.715	1.63	0.84	8.89	
4075.00	9.770	141.550	4042.95	-402.29	-324.67	293.66	1721621.95	14368479.26	39°34'0.8920"N	80°42'42.6735"W	437.78	137.871	0.40	0.35	-1.16	
4170.00	9.300	137.610	4136.64	-416.93	-336.65	303.85	1721632.14	14368467.28	39°34'0.7732"N	80°42'42.5439"W	453.50	137.932	0.85	-0.49	-4.15	
4265.00	9.370	144.810	4230.39	-431.39	-348.64	313.48	1721641.77	14368455.29	39°34'0.6544"N	80°42'42.4214"W	468.85	138.040	1.23	0.07	7.58	
4359.00	9.070	145.330	4323.17	-445.86	-360.99	322.10	1721650.39	14368442.95	39°34'0.5321"N	80°42'42.3118"W	483.80	138.258	0.33	-0.32	0.55	
4454.00	8.530	140.420	4417.06	-459.66	-372.58	330.85	1721659.13	14368431.37	39°34'0.4173"N	80°42'42.2005"W	498.28	138.395	0.97	-0.57	-5.17	
4548.00	7.820	135.720	4510.10	-471.96	-382.53	339.76	1721668.04	14368421.42	39°34'0.3187"N	80°42'42.0872"W	511.63	138.389	1.04	-0.76	-5.00	
4643.00	8.270	143.900	4604.17	-484.33	-392.68	348.30	1721676.57	14368411.27	39°34'0.2181"N	80°42'41.9786"W	524.89	138.428	1.29	0.47	8.61	
4737.00	8.050	143.310	4697.22	-497.05	-403.42	356.21	1721684.48	14368400.54	39°34'0.1117"N	80°42'41.8780"W	538.18	138.556	0.25	-0.23	-0.63	
4832.00	7.230	140.730	4791.37	-508.99	-413.38	363.97	1721692.24	14368390.58	39°34'0.0130"N	80°42'41.7793"W	550.78	138.637	0.94	-0.86	-2.72	
4927.00	6.130	136.440	4885.73	-519.21	-421.69	371.25	1721699.52	14368382.28	39°33'59.9307"N	80°42'41.6867"W	561.83	138.639	1.27	-1.16	-4.52	
5022.00	6.650	140.350	4980.14	-528.96	-429.60	378.26	1721706.52	14368374.37	39°33'59.8523"N	80°42'41.5976"W	572.39	138.636	0.71	0.55	4.12	
5116.00	7.440	149.310	5073.43	-540.01	-439.02	384.84	1721713.10	14368364.95	39°33'59.7589"N	80°42'41.5139"W	583.81	138.763	1.44	0.84	9.53	
5211.00	7.690	147.270	5167.60	-552.20	-449.66	391.41	1721719.67	14368354.32	39°33'59.6536"N	80°42'41.4304"W	596.15	138.961	0.39	0.26	-2.15	
5305.00	6.760	141.720	5260.86	-563.53	-459.29	398.24	1721726.49	14368344.69	39°33'59.5582"N	80°42'41.3436"W	607.90	139.072	1.24	-0.99	-5.90	
5400.00	7.610	144.080	5355.11	-574.82	-468.78	405.40	1721733.65	14368335.21	39°33'59.4642"N	80°42'41.2527"W	619.75	139.147	0.95	0.89	2.48	

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Slot	Slot J			

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5495.00	7.490	144.660	5449.29	-586.77	-478.92	412.67	1721740.91	14368325.07	39°33'59.3637"N	80°42'41.1602"W	632.19	139.250	0.15	-0.13	0.61	
5589.00	7.010	141.630	5542.53	-598.05	-488.42	419.77	1721748.02	14368315.58	39°33'59.2697"N	80°42'41.0699"W	644.02	139.322	0.65	-0.51	-3.22	
5684.00	8.070	145.180	5636.71	-609.93	-498.43	427.18	1721755.42	14368305.56	39°33'59.1704"N	80°42'40.9757"W	656.44	139.402	1.22	1.12	3.74	
5779.00	7.870	143.960	5730.79	-622.56	-509.17	434.81	1721763.05	14368294.83	39°33'59.0641"N	80°42'40.8787"W	669.56	139.504	0.28	-0.21	-1.28	
5877.00	9.160	137.300	5827.72	-636.11	-520.33	444.05	1721772.28	14368283.68	39°33'58.9535"N	80°42'40.7612"W	684.05	139.522	1.65	1.32	-6.80	
5971.00	8.980	132.460	5920.54	-649.39	-530.78	454.54	1721782.77	14368273.23	39°33'58.8499"N	80°42'40.6277"W	698.81	139.425	0.83	-0.19	-5.15	
6066.00	8.870	137.560	6014.39	-662.62	-541.19	464.95	1721793.18	14368262.82	39°33'58.7467"N	80°42'40.4952"W	713.49	139.333	0.84	-0.12	5.37	
6161.00	7.620	136.110	6108.41	-675.04	-551.13	474.26	1721802.48	14368252.88	39°33'58.6481"N	80°42'40.3767"W	727.10	139.288	1.33	-1.32	-1.53	
6253.00	6.400	135.600	6199.72	-685.20	-559.19	482.08	1721810.29	14368244.83	39°33'58.5682"N	80°42'40.2772"W	738.30	139.236	1.33	-1.33	-0.55	
6374.00	6.950	131.790	6319.90	-697.67	-568.89	492.25	1721820.47	14368235.13	39°33'58.4720"N	80°42'40.1477"W	752.30	139.131	0.58	0.45	-3.15	BH Lucida <8-1/2"> (6253')(6374'-11391')
6469.00	5.440	81.830	6414.41	-703.52	-572.08	501.00	1721829.21	14368231.94	39°33'58.4402"N	80°42'40.0361"W	760.45	138.790	5.68	-1.59	-52.59	
6563.00	9.580	26.660	6507.69	-698.87	-564.45	508.93	1721837.14	14368239.58	39°33'58.5154"N	80°42'39.9345"W	760.01	137.961	8.35	4.40	-58.69	
6658.00	14.780	8.020	6600.55	-682.51	-545.36	514.18	1721842.38	14368258.65	39°33'58.7038"N	80°42'39.8668"W	749.53	136.686	6.80	5.47	-19.62	
6753.00	21.970	359.540	6690.66	-654.81	-515.55	515.73	1721843.93	14368288.45	39°33'58.9985"N	80°42'39.8458"W	729.22	134.990	8.06	7.57	-8.93	
6825.00†	28.473	359.548	6755.76	-625.72	-484.89	515.48	1721843.69	14368319.10	39°33'59.3015"N	80°42'39.8476"W	707.70	133.248	9.03	9.03	0.01	Sycamore: 6825' MD
6847.00	30.460	359.550	6774.92	-615.45	-474.07	515.40	1721843.61	14368329.92	39°33'59.4085"N	80°42'39.8483"W	700.27	132.608	9.03	9.03	0.01	
6942.00	38.080	356.850	6853.37	-564.34	-420.65	513.60	1721841.80	14368383.31	39°33'59.9364"N	80°42'39.8691"W	663.88	129.319	8.18	8.02	-2.84	
6986.00†	41.951	356.488	6887.06	-537.09	-392.41	511.95	1721840.16	14368411.54	39°34'0.2155"N	80°42'39.8889"W	645.04	127.471	8.81	8.80	-0.82	Middlesex: 6986' MD
7037.00	46.440	356.130	6923.62	-502.79	-356.94	509.66	1721837.87	14368447.00	39°34'0.5662"N	80°42'39.9168"W	622.22	125.006	8.81	8.80	-0.70	
7131.00	53.870	355.150	6983.80	-432.97	-285.04	504.14	1721832.35	14368518.88	39°34'1.2770"N	80°42'39.9843"W	579.14	119.483	7.94	7.90	-1.04	
7132.00†	53.941	355.098	6984.39	-432.19	-284.23	504.07	1721832.28	14368519.68	39°34'1.2850"N	80°42'39.9851"W	578.68	119.417	8.23	7.10	-5.15	Burkett: 7132' MD
7186.00†	57.805	352.444	7014.69	-388.58	-239.81	499.20	1721827.41	14368564.08	39°34'1.7241"N	80°42'40.0455"W	553.81	115.659	8.23	7.15	-4.92	Tully: 7186' MD
7226.00	60.700	350.620	7035.14	-354.78	-205.82	494.13	1721822.35	14368598.06	39°34'2.0603"N	80°42'40.1088"W	535.28	112.613	8.23	7.24	-4.56	
7321.00	67.980	350.450	7076.25	-270.36	-121.41	480.05	1721808.27	14368682.44	39°34'2.8949"N	80°42'40.2851"W	495.17	104.193	7.66	7.66	-0.18	
7400.00†	74.308	350.450	7101.77	-196.63	-47.72	467.66	1721795.88	14368756.10	39°34'3.6236"N	80°42'40.4404"W	470.09	95.827	8.01	8.01	0.00	Marcellus POE: 7400' MD
7415.00	75.510	350.450	7105.67	-182.34	-33.44	465.25	1721793.48	14368770.37	39°34'3.7648"N	80°42'40.4705"W	466.45	94.111	8.01	8.01	0.00	
7510.00	83.090	350.430	7123.30	-90.30	58.54	449.76	1721777.99	14368862.32	39°34'4.6744"N	80°42'40.6645"W	453.56	82.584	7.98	7.98	-0.02	
7604.00	90.340	350.200	7128.68	2.27	150.99	433.98	1721762.22	14368954.73	39°34'5.5886"N	80°42'40.8622"W	459.50	70.816	7.72	7.71	-0.24	
7699.00	90.060	347.110	7128.35	96.44	244.12	415.30	1721743.54	14369047.83	39°34'6.5096"N	80°42'41.0970"W	481.73	59.552	3.27	-0.29	-3.25	
7794.00	89.970	343.870	7128.32	191.15	336.08	391.50	1721719.76	14369139.75	39°34'7.4192"N	80°42'41.3971"W	515.97	49.356	3.41	-0.09	-3.41	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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	89.940	340.980	7128.40	286.11	426.64	362.82	1721691.08	14369230.27	39°34'8.3151"N	80°42'41.7597"W	560.05	40.378	3.04	-0.03	-3.04	
7983.00	89.910	340.850	7128.52	380.11	515.47	332.08	1721660.36	14369319.07	39°34'9.1940"N	80°42'42.1485"W	613.18	32.791	0.14	-0.03	-0.14	
8078.00	89.880	340.980	7128.69	475.11	605.25	301.02	1721629.31	14369408.81	39°34'10.0823"N	80°42'42.5415"W	675.97	26.443	0.14	-0.03	0.14	
8173.00	90.090	340.910	7128.72	570.11	695.04	270.00	1721598.31	14369498.57	39°34'10.9707"N	80°42'42.9338"W	745.64	21.230	0.23	0.22	-0.07	
8267.00	89.880	340.990	7128.74	664.11	783.89	239.32	1721567.64	14369587.38	39°34'11.8499"N	80°42'43.3220"W	819.61	16.978	0.24	-0.22	0.09	
8362.00	89.780	340.550	7129.03	759.11	873.59	208.03	1721536.36	14369677.05	39°34'12.7374"N	80°42'43.7179"W	898.02	13.395	0.47	-0.11	-0.46	
8457.00	89.910	341.170	7129.28	854.10	963.34	176.89	1721505.23	14369766.76	39°34'13.6253"N	80°42'44.1119"W	979.44	10.405	0.67	0.14	0.65	
8551.00	90.890	341.650	7128.63	948.10	1052.43	146.92	1721475.27	14369855.82	39°34'14.5068"N	80°42'44.4910"W	1062.64	7.947	1.16	1.04	0.51	
8646.00	90.150	340.950	7127.76	1043.09	1142.41	116.46	1721444.83	14369945.76	39°34'15.3970"N	80°42'44.8762"W	1148.33	5.821	1.07	-0.78	-0.74	
8741.00	90.250	340.900	7127.43	1138.09	1232.19	85.42	1721413.79	14370035.51	39°34'16.2854"N	80°42'45.2690"W	1235.15	3.966	0.12	0.11	-0.05	
8835.00	90.060	340.720	7127.18	1232.09	1320.97	54.52	1721382.91	14370124.25	39°34'17.1637"N	80°42'45.6599"W	1322.10	2.363	0.28	-0.20	-0.19	
8929.00	90.180	340.950	7126.98	1326.09	1409.76	23.66	1721352.06	14370213.01	39°34'18.0422"N	80°42'46.0504"W	1409.96	0.962	0.28	0.13	0.24	
9024.00	91.480	342.150	7125.60	1421.07	1499.87	-6.40	1721322.01	14370303.07	39°34'18.9337"N	80°42'46.4306"W	1499.88	359.756	1.86	1.37	1.26	
9119.00	90.860	340.790	7123.66	1516.05	1589.92	-36.58	1721291.84	14370393.09	39°34'19.8247"N	80°42'46.8123"W	1590.34	358.682	1.57	-0.65	-1.43	
9213.00	91.720	342.080	7121.55	1610.02	1679.00	-66.50	1721261.93	14370482.14	39°34'20.7060"N	80°42'47.1908"W	1680.32	357.732	1.65	0.91	1.37	
9308.00	90.890	340.810	7119.38	1704.99	1769.04	-96.73	1721231.72	14370572.14	39°34'21.5968"N	80°42'47.5731"W	1771.68	356.870	1.60	-0.87	-1.34	
9403.00	90.830	339.570	7117.96	1799.97	1858.40	-128.92	1721199.54	14370661.47	39°34'22.4811"N	80°42'47.9805"W	1862.87	356.032	1.31	-0.06	-1.31	
9497.00	90.980	341.110	7116.47	1893.94	1946.91	-160.54	1721167.94	14370749.94	39°34'23.3568"N	80°42'48.3807"W	1953.52	355.286	1.65	0.16	1.64	
9592.00	90.710	340.620	7115.07	1988.93	2036.65	-191.67	1721136.81	14370839.65	39°34'24.2447"N	80°42'48.7747"W	2045.65	354.624	0.59	-0.28	-0.52	
9687.00	90.400	340.770	7114.15	2083.93	2126.31	-223.08	1721105.42	14370929.27	39°34'25.1318"N	80°42'49.1721"W	2137.98	354.011	0.36	-0.33	0.16	
9781.00	90.490	340.670	7113.42	2177.92	2215.03	-254.12	1721074.39	14371017.96	39°34'26.0096"N	80°42'49.5648"W	2229.56	353.455	0.14	0.10	-0.11	
9876.00	89.940	340.910	7113.07	2272.92	2304.74	-285.37	1721043.15	14371107.63	39°34'26.8972"N	80°42'49.9603"W	2322.34	352.942	0.63	-0.58	0.25	
9971.00	89.910	340.760	7113.19	2367.92	2394.47	-316.56	1721011.97	14371197.33	39°34'27.7851"N	80°42'50.3550"W	2415.31	352.469	0.16	-0.03	-0.16	
10066.00	89.850	340.970	7113.39	2462.92	2484.23	-347.70	1720980.85	14371287.05	39°34'28.6731"N	80°42'50.7490"W	2508.44	352.032	0.23	-0.06	0.22	
10160.00	89.940	340.540	7113.56	2556.91	2572.97	-378.68	1720949.88	14371375.76	39°34'29.5511"N	80°42'51.1410"W	2600.69	351.627	0.47	0.10	-0.46	
10255.00	90.030	341.430	7113.59	2651.91	2662.79	-409.64	1720918.94	14371465.54	39°34'30.4398"N	80°42'51.5327"W	2694.11	351.254	0.94	0.09	0.94	
10350.00	89.940	341.220	7113.61	2746.91	2752.79	-440.06	1720888.53	14371555.50	39°34'31.3302"N	80°42'51.9175"W	2787.74	350.918	0.24	-0.09	-0.22	
10444.00	90.030	340.780	7113.64	2840.91	2841.66	-470.66	1720857.94	14371644.34	39°34'32.2096"N	80°42'52.3047"W	2880.38	350.596	0.48	0.10	-0.47	
10539.00	89.420	340.930	7114.09	2935.91	2931.41	-501.81	1720826.79	14371734.05	39°34'33.0975"N	80°42'52.6989"W	2974.05	350.286	0.66	-0.64	0.16	
10634.00	89.540	340.570	7114.95	3030.90	3021.09	-533.13	1720795.49	14371823.70	39°34'33.9848"N	80°42'53.0953"W	3067.77	349.992	0.40	0.13	-0.38	

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Marma Unit 2H AWP Proj: 24190'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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
10728.00	89.660	341.010	7115.61	3124.90	3109.86	-564.06	1720764.57	14371912.43	39°34'34.8631"N	80°42'53.4866"W	3160.60	349.720	0.49	0.13	0.47	
10823.00	89.480	340.990	7116.32	3219.90	3199.68	-594.99	1720733.65	14372002.22	39°34'35.7518"N	80°42'53.8780"W	3254.53	349.466	0.19	-0.19	-0.02	
10918.00	89.480	341.220	7117.19	3314.89	3289.56	-625.75	1720702.90	14372092.06	39°34'36.6410"N	80°42'54.2672"W	3348.54	349.230	0.24	0.00	0.24	
11013.00	90.400	340.780	7117.29	3409.89	3379.38	-656.68	1720671.99	14372181.85	39°34'37.5297"N	80°42'54.6586"W	3442.59	349.003	1.07	0.97	-0.46	
11107.00	90.430	340.650	7116.60	3503.89	3468.10	-687.73	1720640.96	14372270.53	39°34'38.4076"N	80°42'55.0514"W	3535.63	348.784	0.14	0.03	-0.14	
11202.00	90.370	340.950	7115.94	3598.88	3557.82	-718.97	1720609.73	14372360.21	39°34'39.2952"N	80°42'55.4468"W	3629.73	348.575	0.32	-0.06	0.32	
11296.00	90.220	340.330	7115.46	3692.88	3646.50	-750.13	1720578.58	14372448.86	39°34'40.1726"N	80°42'55.8412"W	3722.85	348.376	0.68	-0.16	-0.66	
11391.00	91.260	339.120	7114.23	3787.84	3735.60	-783.04	1720545.67	14372537.93	39°34'41.0543"N	80°42'56.2579"W	3816.79	348.161	1.68	1.09	-1.27	
11485.00	90.180	340.110	7113.05	3881.80	3823.71	-815.78	1720512.95	14372626.00	39°34'41.9261"N	80°42'56.6725"W	3909.76	347.957	1.56	-1.15	1.05	BH AT Curve <8-1/2"> (11391')(11485'-24165')
11580.00	90.650	341.990	7112.36	3976.79	3913.55	-846.63	1720482.11	14372715.81	39°34'42.8150"N	80°42'57.0628"W	4004.08	347.793	2.04	0.49	1.98	
11675.00	90.550	341.510	7111.37	4071.78	4003.77	-876.38	1720452.38	14372805.99	39°34'43.7075"N	80°42'57.4391"W	4098.56	347.653	0.52	-0.11	-0.51	
11769.00	90.150	341.440	7110.79	4165.78	4092.89	-906.25	1720422.52	14372895.08	39°34'44.5893"N	80°42'57.8169"W	4192.02	347.515	0.43	-0.43	-0.07	
11864.00	90.370	340.980	7110.36	4260.77	4182.83	-936.84	1720391.94	14372984.98	39°34'45.4791"N	80°42'58.2041"W	4286.46	347.376	0.54	0.23	-0.48	
11959.00	90.520	341.810	7109.62	4355.77	4272.86	-967.15	1720361.64	14373074.98	39°34'46.3699"N	80°42'58.5875"W	4380.95	347.246	0.89	0.16	0.87	
12053.00	90.310	341.470	7108.94	4449.76	4362.07	-996.76	1720332.04	14373164.15	39°34'47.2525"N	80°42'58.9621"W	4474.51	347.129	0.43	-0.22	-0.36	
12148.00	90.400	341.560	7108.35	4544.76	4452.17	-1026.88	1720301.94	14373254.21	39°34'48.1439"N	80°42'59.3431"W	4569.06	347.012	0.13	0.09	0.09	
12243.00	90.580	341.900	7107.54	4639.75	4542.38	-1056.66	1720272.17	14373344.39	39°34'49.0363"N	80°42'59.7198"W	4663.66	346.905	0.40	0.19	0.36	
12337.00	90.430	341.610	7106.71	4733.74	4631.65	-1086.09	1720242.75	14373433.62	39°34'49.9195"N	80°43'0.0921"W	4757.29	346.803	0.35	-0.16	-0.31	
12432.00	90.430	341.620	7106.00	4828.73	4721.80	-1116.05	1720212.80	14373523.73	39°34'50.8114"N	80°43'0.4711"W	4851.90	346.702	0.01	0.00	0.01	
12527.00	90.310	341.790	7105.39	4923.72	4811.99	-1145.87	1720182.99	14373613.90	39°34'51.7038"N	80°43'0.8483"W	4946.54	346.606	0.22	-0.13	0.18	
12621.00	90.680	341.580	7104.57	5017.72	4901.23	-1175.41	1720153.46	14373703.09	39°34'52.5866"N	80°43'1.2220"W	5040.20	346.514	0.45	0.39	-0.22	
12716.00	90.710	341.780	7103.42	5112.70	4991.41	-1205.27	1720123.62	14373793.24	39°34'53.4788"N	80°43'1.5997"W	5134.86	346.425	0.21	0.03	0.21	
12811.00	90.520	341.730	7102.40	5207.69	5081.63	-1235.01	1720093.89	14373883.42	39°34'54.3714"N	80°43'1.9759"W	5229.55	346.340	0.21	-0.20	-0.05	
12905.00	90.340	341.710	7101.70	5301.68	5170.88	-1264.49	1720064.42	14373972.64	39°34'55.2544"N	80°43'2.3489"W	5323.24	346.259	0.19	-0.19	-0.02	
13000.00	90.680	341.700	7100.85	5396.68	5261.07	-1294.31	1720034.61	14374062.80	39°34'56.1467"N	80°43'2.7261"W	5417.95	346.179	0.36	0.36	-0.01	
13094.00	89.780	341.560	7100.47	5490.67	5350.28	-1323.94	1720005.00	14374151.97	39°34'57.0293"N	80°43'3.1009"W	5511.65	346.101	0.97	-0.96	-0.15	
13189.00	92.120	342.700	7098.90	5585.63	5440.68	-1353.08	1719975.86	14374242.33	39°34'57.9236"N	80°43'3.4695"W	5606.41	346.034	2.74	2.46	1.20	
13284.00	91.140	340.950	7096.20	5680.58	5530.90	-1382.70	1719946.25	14374332.52	39°34'58.8162"N	80°43'3.8442"W	5701.11	345.964	2.11	-1.03	-1.84	
13378.00	90.800	342.350	7094.60	5774.56	5620.10	-1412.29	1719916.68	14374421.69	39°34'59.6987"N	80°43'4.2185"W	5794.83	345.894	1.53	-0.36	1.49	
13473.00	91.050	341.640	7093.07	5869.54	5710.44	-1441.65	1719887.33	14374511.98	39°35'0.5924"N	80°43'4.5899"W	5889.61	345.831	0.79	0.26	-0.75	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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
13568.00	90.950	341.180	7091.41	5964.52	5800.47	-1471.93	1719857.06	14374601.98	39°35'1.4831"N	80°43'4.9730"W	5984.31	345.761	0.50	-0.11	-0.48	
13662.00	90.650	341.720	7090.10	6058.51	5889.57	-1501.83	1719827.17	14374691.05	39°35'2.3647"N	80°43'5.3513"W	6078.04	345.695	0.66	-0.32	0.57	
13757.00	90.250	341.410	7089.35	6153.50	5979.70	-1531.87	1719797.14	14374781.14	39°35'3.2564"N	80°43'5.7314"W	6172.80	345.631	0.53	-0.42	-0.33	
13852.00	90.220	341.980	7088.97	6248.50	6069.89	-1561.71	1719767.32	14374871.29	39°35'4.1487"N	80°43'6.1089"W	6267.57	345.571	0.60	-0.03	0.60	
13946.00	90.400	341.830	7088.46	6342.49	6159.24	-1590.90	1719738.13	14374960.61	39°35'5.0326"N	80°43'6.4782"W	6361.38	345.517	0.25	0.19	-0.16	
14041.00	90.680	341.840	7087.56	6437.47	6249.50	-1620.52	1719708.53	14375050.83	39°35'5.9256"N	80°43'6.8528"W	6456.18	345.463	0.29	0.29	0.01	
14136.00	90.400	342.510	7086.67	6532.45	6339.93	-1649.60	1719679.46	14375141.23	39°35'6.8203"N	80°43'7.2206"W	6551.03	345.415	0.76	-0.29	0.71	
14230.00	89.820	341.530	7086.49	6626.44	6429.34	-1678.61	1719650.46	14375230.61	39°35'7.7048"N	80°43'7.5877"W	6644.86	345.367	1.21	-0.62	-1.04	
14325.00	89.600	341.210	7086.97	6721.44	6519.36	-1708.96	1719620.12	14375320.59	39°35'8.5954"N	80°43'7.9717"W	6739.63	345.311	0.41	-0.23	-0.34	
14420.00	90.430	342.110	7086.94	6816.43	6609.54	-1738.85	1719590.24	14375410.73	39°35'9.4876"N	80°43'8.3499"W	6834.44	345.260	1.29	0.87	0.95	
14514.00	90.180	342.320	7086.44	6910.41	6699.04	-1767.57	1719561.54	14375500.20	39°35'10.3731"N	80°43'8.7130"W	6928.31	345.219	0.35	-0.27	0.22	
14609.00	89.690	341.680	7086.55	7005.40	6789.39	-1796.92	1719532.20	14375590.51	39°35'11.2669"N	80°43'9.0844"W	7023.16	345.176	0.85	-0.52	-0.67	
14704.00	89.970	341.390	7086.83	7100.39	6879.50	-1827.01	1719502.12	14375680.59	39°35'12.1584"N	80°43'9.4651"W	7117.97	345.127	0.42	0.29	-0.31	
14799.00	90.520	341.990	7086.42	7195.39	6969.69	-1856.86	1719472.29	14375770.74	39°35'13.0507"N	80°43'9.8427"W	7212.80	345.082	0.86	0.58	0.63	
14893.00	90.060	342.100	7085.95	7289.37	7059.11	-1885.83	1719443.32	14375860.12	39°35'13.9353"N	80°43'10.2092"W	7306.67	345.043	0.50	-0.49	0.12	
14988.00	89.880	342.130	7086.00	7384.36	7149.52	-1915.01	1719414.16	14375950.50	39°35'14.8297"N	80°43'10.5783"W	7401.54	345.005	0.19	-0.19	0.03	
15083.00	90.280	342.140	7085.87	7479.34	7239.94	-1944.15	1719385.03	14376040.88	39°35'15.7243"N	80°43'10.9469"W	7496.43	344.969	0.42	0.42	0.01	
15177.00	89.480	341.880	7086.06	7573.33	7329.34	-1973.18	1719356.01	14376130.25	39°35'16.6087"N	80°43'11.3142"W	7590.30	344.932	0.89	-0.85	-0.28	
15272.00	90.060	341.650	7086.44	7668.32	7419.57	-2002.91	1719326.29	14376220.44	39°35'17.5014"N	80°43'11.6903"W	7685.16	344.893	0.66	0.61	-0.24	
15367.00	90.090	341.910	7086.32	7763.32	7509.81	-2032.61	1719296.60	14376310.64	39°35'18.3941"N	80°43'12.0661"W	7780.02	344.855	0.28	0.03	0.27	
15461.00	89.820	342.230	7086.39	7857.30	7599.24	-2061.55	1719267.67	14376400.04	39°35'19.2789"N	80°43'12.4321"W	7873.91	344.822	0.45	-0.29	0.34	
15556.00	90.120	341.900	7086.44	7952.29	7689.62	-2090.80	1719238.43	14376490.39	39°35'20.1731"N	80°43'12.8022"W	7968.80	344.789	0.47	0.32	-0.35	
15651.00	89.420	341.580	7086.82	8047.28	7779.84	-2120.57	1719208.68	14376580.57	39°35'21.0656"N	80°43'13.1788"W	8063.67	344.753	0.81	-0.74	-0.34	
15745.00	89.970	341.880	7087.32	8141.27	7869.10	-2150.04	1719179.22	14376669.79	39°35'21.9487"N	80°43'13.5517"W	8157.53	344.718	0.67	0.59	0.32	
15840.00	89.630	341.790	7087.66	8236.26	7959.36	-2179.66	1719149.61	14376760.02	39°35'22.8417"N	80°43'13.9264"W	8252.41	344.685	0.37	-0.36	-0.09	
16029.00	90.340	342.040	7087.71	8425.24	8139.02	-2238.33	1719090.97	14376939.61	39°35'24.6191"N	80°43'14.6687"W	8441.20	344.623	0.40	0.38	0.13	
16124.00	90.340	342.070	7087.14	8520.23	8229.40	-2267.59	1719061.71	14377029.95	39°35'25.5132"N	80°43'15.0389"W	8536.10	344.595	0.03	0.00	0.03	
16219.00	90.000	341.660	7086.86	8615.22	8319.68	-2297.16	1719032.15	14377120.20	39°35'26.4064"N	80°43'15.4130"W	8630.99	344.565	0.56	-0.36	-0.43	
16314.00	89.720	339.320	7087.09	8710.21	8409.22	-2328.89	1719000.44	14377209.70	39°35'27.2923"N	80°43'15.8147"W	8725.75	344.520	2.48	-0.29	-2.46	
16408.00	89.970	340.040	7087.35	8804.18	8497.37	-2361.53	1718967.81	14377297.82	39°35'28.1645"N	80°43'16.2282"W	8819.42	344.469	0.81	0.27	0.77	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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
16503.00	90.950	342.070	7086.58	8899.17	8587.21	-2392.37	1718936.98	14377387.63	39°35'29.0534"N	80°43'16.6186"W	8914.24	344.432	2.37	1.03	2.14	
16597.00	90.650	339.780	7085.27	8993.15	8676.04	-2423.09	1718906.28	14377476.42	39°35'29.9322"N	80°43'17.0074"W	9008.05	344.396	2.46	-0.32	-2.44	
16692.00	91.050	340.780	7083.86	9088.13	8765.46	-2455.14	1718874.24	14377565.80	39°35'30.8169"N	80°43'17.4132"W	9102.80	344.353	1.13	0.42	1.05	
16787.00	90.180	340.760	7082.84	9183.12	8855.15	-2486.42	1718842.97	14377655.46	39°35'31.7043"N	80°43'17.8094"W	9197.61	344.316	0.92	-0.92	-0.02	
16882.00	90.250	340.990	7082.49	9278.12	8944.90	-2517.55	1718811.85	14377745.18	39°35'32.5923"N	80°43'18.2034"W	9292.44	344.281	0.25	0.07	0.24	
16976.00	90.370	340.980	7081.98	9372.12	9033.77	-2548.18	1718781.24	14377834.01	39°35'33.4716"N	80°43'18.5911"W	9386.28	344.248	0.13	0.13	-0.01	
17071.00	90.280	340.810	7081.44	9467.12	9123.54	-2579.27	1718750.16	14377923.74	39°35'34.3597"N	80°43'18.9847"W	9481.12	344.214	0.20	-0.09	-0.18	
17166.00	90.370	340.700	7080.90	9562.11	9213.23	-2610.58	1718718.86	14378013.40	39°35'35.2471"N	80°43'19.3811"W	9575.95	344.180	0.15	0.09	-0.12	
17261.00	90.060	340.490	7080.54	9657.11	9302.83	-2642.14	1718687.31	14378102.96	39°35'36.1336"N	80°43'19.7808"W	9670.76	344.145	0.39	-0.33	-0.22	
17355.00	89.850	340.780	7080.62	9751.11	9391.51	-2673.31	1718656.15	14378191.61	39°35'37.0110"N	80°43'20.1754"W	9764.59	344.111	0.38	-0.22	0.31	
17450.00	89.880	340.780	7080.84	9846.10	9481.22	-2704.59	1718624.89	14378281.28	39°35'37.8985"N	80°43'20.5714"W	9859.43	344.079	0.03	0.03	0.00	
17544.00	89.940	340.510	7080.99	9940.10	9569.91	-2735.74	1718593.75	14378369.93	39°35'38.7760"N	80°43'20.9658"W	9953.26	344.046	0.29	0.06	-0.29	
17639.00	89.720	340.800	7081.27	10035.10	9659.54	-2767.21	1718562.29	14378459.53	39°35'39.6628"N	80°43'21.3643"W	10048.09	344.014	0.38	-0.23	0.31	
17733.00	90.250	341.590	7081.29	10129.10	9748.52	-2797.51	1718532.00	14378548.48	39°35'40.5432"N	80°43'21.7478"W	10141.98	343.988	1.01	0.56	0.84	
17828.00	89.970	340.950	7081.11	10224.10	9838.49	-2828.01	1718501.51	14378638.41	39°35'41.4333"N	80°43'22.1339"W	10236.87	343.963	0.74	-0.29	-0.67	
17922.00	89.970	340.660	7081.16	10318.09	9927.27	-2858.92	1718470.62	14378727.15	39°35'42.3116"N	80°43'22.5252"W	10330.73	343.934	0.31	0.00	-0.31	
18017.00	90.000	340.850	7081.19	10413.09	10016.96	-2890.23	1718439.32	14378816.81	39°35'43.1990"N	80°43'22.9217"W	10425.59	343.905	0.20	0.03	0.20	
18111.00	89.910	340.940	7081.26	10507.09	10105.78	-2921.00	1718408.56	14378905.59	39°35'44.0778"N	80°43'23.3112"W	10519.46	343.878	0.14	-0.10	0.10	
18206.00	89.910	340.940	7081.41	10602.09	10195.57	-2952.02	1718377.55	14378995.35	39°35'44.9661"N	80°43'23.7040"W	10614.33	343.852	0.00	0.00	0.00	
18300.00	89.780	340.800	7081.66	10696.09	10284.38	-2982.83	1718346.76	14379084.12	39°35'45.8448"N	80°43'24.0940"W	10708.21	343.826	0.20	-0.14	-0.15	
18395.00	89.940	340.860	7081.90	10791.09	10374.11	-3014.02	1718315.58	14379173.82	39°35'46.7326"N	80°43'24.4890"W	10803.08	343.800	0.18	0.17	0.06	
18490.00	89.820	340.620	7082.09	10886.09	10463.79	-3045.36	1718284.25	14379263.47	39°35'47.6199"N	80°43'24.8857"W	10897.94	343.773	0.28	-0.13	-0.25	
18584.00	89.780	341.090	7082.42	10980.09	10552.59	-3076.19	1718253.44	14379352.23	39°35'48.4984"N	80°43'25.2761"W	10991.82	343.748	0.50	-0.04	0.50	
18679.00	89.850	340.850	7082.73	11075.08	10642.40	-3107.16	1718222.47	14379442.00	39°35'49.3869"N	80°43'25.6682"W	11086.71	343.724	0.26	0.07	-0.25	
18773.00	89.780	340.810	7083.03	11169.08	10731.19	-3138.03	1718191.62	14379530.76	39°35'50.2654"N	80°43'26.0591"W	11180.59	343.700	0.09	-0.07	-0.04	
18868.00	89.970	340.900	7083.24	11264.08	10820.93	-3169.18	1718160.48	14379620.47	39°35'51.1533"N	80°43'26.4535"W	11275.48	343.676	0.22	0.20	0.09	
18963.00	89.820	340.630	7083.41	11359.08	10910.63	-3200.48	1718129.19	14379710.13	39°35'52.0407"N	80°43'26.8498"W	11370.35	343.652	0.33	-0.16	-0.28	
19058.00	89.910	340.690	7083.64	11454.08	11000.27	-3231.94	1718097.74	14379799.73	39°35'52.9276"N	80°43'27.2482"W	11465.23	343.627	0.11	0.09	0.06	
19152.00	89.940	340.880	7083.76	11548.08	11089.03	-3262.88	1718066.82	14379888.46	39°35'53.8058"N	80°43'27.6400"W	11559.11	343.604	0.20	0.03	0.20	
19247.00	89.910	340.670	7083.89	11643.07	11178.73	-3294.16	1718035.55	14379978.12	39°35'54.6933"N	80°43'28.0361"W	11654.00	343.581	0.22	-0.03	-0.22	

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Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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19342.00	89.970	340.410	7083.99	11738.07	11268.31	-3325.81	1718003.91	14380067.66	39°35'55.5795"N	80°43'28.4369"W	11748.86	343.556	0.28	0.06	-0.27	
19436.00	89.880	340.870	7084.11	11832.07	11356.99	-3356.97	1717972.76	14380156.31	39°35'56.4569"N	80°43'28.8315"W	11842.74	343.533	0.50	-0.10	0.49	
19531.00	89.940	340.620	7084.26	11927.06	11446.68	-3388.30	1717941.45	14380245.96	39°35'57.3442"N	80°43'29.2282"W	11937.63	343.511	0.27	0.06	-0.26	
19626.00	89.850	340.520	7084.43	12022.06	11536.27	-3419.90	1717909.86	14380335.52	39°35'58.2306"N	80°43'29.6284"W	12032.51	343.488	0.14	-0.09	-0.11	
19720.00	89.940	340.930	7084.60	12116.06	11625.00	-3450.93	1717878.84	14380424.21	39°35'59.1085"N	80°43'30.0213"W	12126.40	343.466	0.45	0.10	0.44	
19815.00	89.940	340.800	7084.70	12211.06	11714.75	-3482.07	1717847.71	14380513.93	39°35'59.9965"N	80°43'30.4156"W	12221.30	343.446	0.14	0.00	-0.14	
19910.00	89.850	340.750	7084.88	12306.05	11804.45	-3513.35	1717816.44	14380603.59	39°36'0.8839"N	80°43'30.8117"W	12316.20	343.425	0.11	-0.09	-0.05	
20004.00	89.970	340.510	7085.03	12400.05	11893.13	-3544.53	1717785.28	14380692.24	39°36'1.7613"N	80°43'31.2066"W	12410.09	343.404	0.29	0.13	-0.26	
20099.00	89.820	340.730	7085.20	12495.05	11982.75	-3576.05	1717753.77	14380781.82	39°36'2.6480"N	80°43'31.6058"W	12504.97	343.383	0.28	-0.16	0.23	
20193.00	90.090	340.770	7085.27	12589.05	12071.49	-3607.04	1717722.79	14380870.53	39°36'3.5260"N	80°43'31.9982"W	12598.88	343.363	0.29	0.29	0.04	
20288.00	89.750	340.650	7085.41	12684.04	12161.16	-3638.43	1717691.42	14380960.16	39°36'4.4131"N	80°43'32.3957"W	12693.77	343.344	0.38	-0.36	-0.13	
20382.00	89.600	340.470	7085.94	12778.04	12249.80	-3669.71	1717660.15	14381048.76	39°36'5.2901"N	80°43'32.7919"W	12787.66	343.323	0.25	-0.16	-0.19	
20477.00	89.970	340.850	7086.30	12873.03	12339.44	-3701.17	1717628.70	14381138.37	39°36'6.1769"N	80°43'33.1903"W	12882.56	343.304	0.56	0.39	0.40	
20571.00	89.600	340.230	7086.65	12967.03	12428.06	-3732.49	1717597.39	14381226.96	39°36'7.0538"N	80°43'33.5869"W	12976.45	343.284	0.77	-0.39	-0.66	
20666.00	89.940	340.760	7087.03	13062.02	12517.61	-3764.21	1717565.69	14381316.47	39°36'7.9398"N	80°43'33.9887"W	13071.34	343.263	0.66	0.36	0.56	
20761.00	89.780	340.660	7087.26	13157.02	12607.28	-3795.59	1717534.32	14381406.10	39°36'8.8269"N	80°43'34.3861"W	13166.24	343.245	0.20	-0.17	-0.11	
20856.00	90.310	340.390	7087.19	13252.01	12696.84	-3827.26	1717502.66	14381495.63	39°36'9.7130"N	80°43'34.7873"W	13261.14	343.225	0.63	0.56	-0.28	
20950.00	90.550	340.710	7086.48	13346.01	12785.47	-3858.56	1717471.37	14381584.23	39°36'10.5900"N	80°43'35.1837"W	13355.03	343.207	0.43	0.26	0.34	
21046.00	91.110	341.010	7085.09	13441.99	12876.16	-3890.04	1717439.91	14381674.88	39°36'11.4871"N	80°43'35.5822"W	13450.94	343.190	0.66	0.58	0.31	
21141.00	91.200	340.220	7083.18	13536.97	12965.75	-3921.56	1717408.40	14381764.44	39°36'12.3736"N	80°43'35.9815"W	13545.83	343.172	0.84	0.09	-0.83	
21236.00	90.120	340.680	7082.08	13631.96	13055.27	-3953.35	1717376.62	14381853.92	39°36'13.2592"N	80°43'36.3841"W	13640.71	343.153	1.24	-1.14	0.48	
21330.00	90.280	340.530	7081.75	13725.95	13143.93	-3984.56	1717345.42	14381942.55	39°36'14.1364"N	80°43'36.7795"W	13734.62	343.135	0.23	0.17	-0.16	
21425.00	89.230	340.750	7082.16	13820.95	13233.56	-4016.06	1717313.94	14382032.14	39°36'15.0232"N	80°43'37.1784"W	13829.53	343.118	1.13	-1.11	0.23	
21520.00	89.510	340.870	7083.20	13915.94	13323.28	-4047.28	1717282.73	14382121.82	39°36'15.9108"N	80°43'37.5738"W	13924.44	343.103	0.32	0.29	0.13	
21615.00	89.420	341.090	7084.09	14010.94	13413.09	-4078.24	1717251.78	14382211.59	39°36'16.7993"N	80°43'37.9658"W	14019.38	343.088	0.25	-0.09	0.23	
21709.00	89.380	340.900	7085.08	14104.93	13501.96	-4108.85	1717221.18	14382300.43	39°36'17.6786"N	80°43'38.3535"W	14113.31	343.074	0.21	-0.04	-0.20	
21804.00	88.890	340.100	7086.51	14199.91	13591.50	-4140.56	1717189.49	14382389.93	39°36'18.5644"N	80°43'38.7551"W	14208.20	343.057	0.99	-0.52	-0.84	
21899.00	89.140	340.300	7088.14	14294.89	13680.87	-4172.73	1717157.32	14382479.27	39°36'19.4487"N	80°43'39.1627"W	14303.07	343.038	0.34	0.26	0.21	
21993.00	89.140	340.890	7089.55	14388.87	13769.52	-4203.96	1717126.11	14382567.88	39°36'20.3257"N	80°43'39.5582"W	14396.97	343.022	0.63	0.00	0.63	
22088.00	88.980	340.710	7091.11	14483.86	13859.22	-4235.20	1717094.88	14382657.55	39°36'21.2132"N	80°43'39.9538"W	14491.89	343.008	0.25	-0.17	-0.19	

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Marma Unit 2H AWP Proj: 24190'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

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
22183.00	88.860	340.630	7092.90	14578.84	13948.85	-4266.64	1717063.46	14382747.15	39°36'22.1000"N	80°43'40.3521"W	14586.79	342.992	0.15	-0.13	-0.08	
22278.00	89.050	340.950	7094.64	14673.82	14038.54	-4297.89	1717032.22	14382836.81	39°36'22.9874"N	80°43'40.7479"W	14681.71	342.978	0.39	0.20	0.34	
22373.00	88.950	340.390	7096.29	14768.80	14128.17	-4329.33	1717000.79	14382926.40	39°36'23.8742"N	80°43'41.1461"W	14776.62	342.963	0.60	-0.11	-0.59	
22468.00	88.950	340.480	7098.03	14863.78	14217.67	-4361.14	1716968.99	14383015.87	39°36'24.7597"N	80°43'41.5490"W	14871.51	342.947	0.09	0.00	0.09	
22562.00	90.310	341.040	7098.64	14957.78	14306.42	-4392.11	1716938.03	14383104.58	39°36'25.6377"N	80°43'41.9413"W	14965.44	342.933	1.56	1.45	0.60	
22657.00	89.780	340.700	7098.57	15052.77	14396.17	-4423.24	1716906.91	14383194.29	39°36'26.5256"N	80°43'42.3356"W	15060.38	342.920	0.66	-0.56	-0.36	
22752.00	89.880	340.780	7098.85	15147.77	14485.86	-4454.58	1716875.59	14383283.94	39°36'27.4129"N	80°43'42.7325"W	15155.31	342.907	0.13	0.11	0.08	
22846.00	89.780	340.260	7099.13	15241.77	14574.47	-4485.93	1716844.25	14383372.52	39°36'28.2897"N	80°43'43.1296"W	15249.22	342.892	0.56	-0.11	-0.55	
22941.00	90.000	340.930	7099.31	15336.76	14664.08	-4517.49	1716812.70	14383462.09	39°36'29.1762"N	80°43'43.5294"W	15344.15	342.878	0.74	0.23	0.71	
23036.00	90.000	341.160	7099.31	15431.76	14753.93	-4548.35	1716781.86	14383551.91	39°36'30.0651"N	80°43'43.9202"W	15439.10	342.866	0.24	0.00	0.24	
23130.00	89.880	340.780	7099.41	15525.76	14842.79	-4579.00	1716751.22	14383640.73	39°36'30.9442"N	80°43'44.3084"W	15533.05	342.855	0.42	-0.13	-0.40	
23225.00	89.750	340.200	7099.72	15620.76	14932.33	-4610.73	1716719.50	14383730.24	39°36'31.8302"N	80°43'44.7103"W	15627.97	342.841	0.63	-0.14	-0.61	
23320.00	90.430	340.690	7099.57	15715.75	15021.85	-4642.52	1716687.72	14383819.73	39°36'32.7159"N	80°43'45.1131"W	15722.88	342.826	0.88	0.72	0.52	
23414.00	90.620	340.440	7098.70	15809.74	15110.49	-4673.80	1716656.45	14383908.33	39°36'33.5928"N	80°43'45.5093"W	15816.81	342.813	0.33	0.20	-0.27	
23509.00	90.460	341.420	7097.81	15904.73	15200.27	-4704.84	1716625.43	14383998.08	39°36'34.4811"N	80°43'45.9024"W	15911.75	342.801	1.05	-0.17	1.03	
23603.00	90.430	341.680	7097.08	15998.73	15289.44	-4734.58	1716595.69	14384087.21	39°36'35.3632"N	80°43'46.2791"W	16005.73	342.794	0.28	-0.03	0.28	
23698.00	90.520	341.710	7096.29	16093.72	15379.63	-4764.42	1716565.87	14384177.36	39°36'36.2554"N	80°43'46.6568"W	16100.70	342.788	0.10	0.09	0.03	
23792.00	90.650	341.550	7095.33	16187.71	15468.83	-4794.04	1716536.26	14384266.53	39°36'37.1379"N	80°43'47.0319"W	16194.68	342.781	0.22	0.14	-0.17	
23887.00	90.400	341.560	7094.46	16282.70	15558.95	-4824.10	1716506.21	14384356.61	39°36'38.0295"N	80°43'47.4124"W	16289.65	342.774	0.26	-0.26	0.01	
23982.00	90.650	341.770	7093.59	16377.70	15649.12	-4853.98	1716476.34	14384446.75	39°36'38.9215"N	80°43'47.7908"W	16384.63	342.767	0.34	0.26	0.22	
24076.00	90.490	341.840	7092.66	16471.68	15738.42	-4883.33	1716447.00	14384536.01	39°36'39.8049"N	80°43'48.1624"W	16478.61	342.762	0.19	-0.17	0.07	
24165.00	90.520	341.690	7091.87	16560.67	15822.95	-4911.18	1716419.17	14384620.50	39°36'40.6412"N	80°43'48.5150"W	16567.60	342.757	0.17	0.03	-0.17	
24190.00‡	90.520	341.690	7091.64	16585.67	15846.68	-4919.03	1716411.32	14384644.23	39°36'40.8759"N	80°43'48.6144"W	16592.59	342.755	0.00	0.00	0.00	Projected MD at TD: 24190'

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Marma Unit 2H AWP Proj: 24190'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

HOLE & CASING SECTIONS - Ref Wellbore: Marma Unit 2H AWB Ref Wellpath: Marma Unit 2H AWP Proj: 24190'									
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	-0.07	0.34
17.5in Open Hole	125.50	738.00	612.50	125.50	737.99	-0.07	0.34	-2.40	1.65
13.375in Casing Surface	25.50	718.00	692.50	25.50	717.99	0.00	0.00	-2.31	1.71
12.25in Open Hole	738.00	3365.00	2627.00	737.99	3341.68	-2.40	1.65	-242.30	220.16
9.625in Casing Intermediate	25.50	3335.00	3309.50	25.50	3311.97	0.00	0.00	-239.22	217.41
8.75in Open Hole	3365.00	6328.00	2963.00	3341.68	6274.23	-242.30	220.16	-565.19	488.21
8.5in Open Hole	6328.00	24190.00	17862.00	6274.23	7091.64	-565.19	488.21	15846.68	-4919.03
5.5in Casing Production	25.50	24170.00	24144.50	25.50	7091.83	0.00	0.00	15827.69	-4912.75

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Marma Unit 2H AWP Proj: 24190'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marma Unit 2H
Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Marma Unit 2H POE Rev-2	7103.00	-51.44	466.78	1721795.01	14368752.38	39°34'3.5869"N	80°42'40.4517"W	point
Marma Unit 2H AZI Rev-2	7128.00	487.39	350.50	1721678.77	14369290.99	39°34'8.9159"N	80°42'41.9145"W	point
Marma Unit 2H BHL Rev-2	7128.00	15864.03	-4912.89	1716417.46	14384661.57	39°36'41.0472"N	80°43'48.5352"W	point
Marma Unit 2H LP Rev-2	7128.00	133.89	437.86	1721766.10	14368937.64	39°34'5.4195"N	80°42'40.8134"W	point
Marma Unit 2H 50' L/R Hard Line	7500.00	8175.71	-2281.20	1719048.11	14376976.28	39°35'24.9830"N	80°43'15.2148"W	rectangle
2D Rectangle 16252.5 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Marma Unit 2H AWB Ref Wellpath: Marma Unit 2H AWP Proj: 24190'

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 2H AWB	3/4/2025
700.00	828.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4"> (700')(800'-828')	Marma Unit 2H AWB	3/6/2025
828.00	3285.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (828')(864'-3285')	Marma Unit 2H AWB	3/4/2025
3285.00	6253.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3285')(3413'-6253')	Marma Unit 2H AWB	3/25/2025
6253.00	11391.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH Lucida <8-1/2"> (6253')(6374'-11391')	Marma Unit 2H AWB	3/25/2025
11391.00	24190.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	06 BH AT Curve <8-1/2"> (11391')(11485'-24165')	Marma Unit 2H AWB	3/31/2025

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Field	Wetzel	API	47-103-03699-0000
Facility	Cedar Pad	Wellbore	Marma Unit 2H AWB
Slot	Slot J		

COMMENTS

Wellpath general comments

API: 47-103-03699-0000
 BH Job #: 112590382
 Rig: H&P 317
 Duration: 3/28/2025-4/2/2025
 Gyrodata MS Gyro <17-1/2"> (100'-700')
 Gyrodata MS Gyro <12-1/4"> (700')(800'-828')
 APS EM <12-1/4"> (828')(864'-3285')
 APS EM <8-3/4"> (3285')(3413'-6253')
 BH Lucida <8-1/2"> (6253')(6374'-11391')
 BH AT Curve <8-1/2"> (11391')(11485'-24165')
 Sycamore: 6825' MD
 Middlesex: 6986' MD
 Burkett: 7132' MD
 Tully: 7186' MD
 Marcellus POE: 7400' MD
 Projected MD at TD: 24190'

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