



# ANTERO RESOURCES CORPORATION



Location: Tyler County, WV  
 Field: Tyler  
 Facility: Thin Air Pad

Slot: Slot 2E  
 Well: Marcellina Unit 2H  
 Wellbore: Marcellina Unit 2H PWB

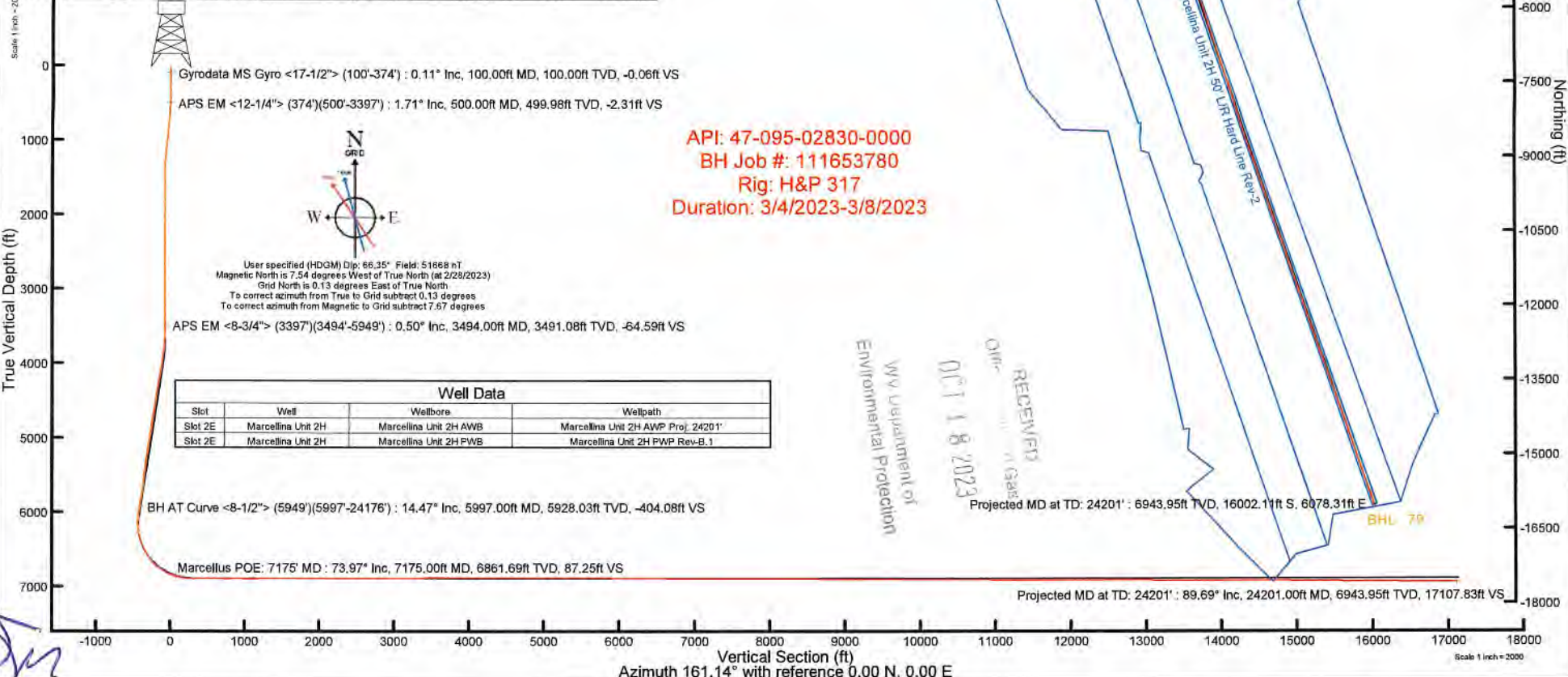
Plot reference wellpath is Marcellina Unit 2H PWP Rev-B.1	GCS System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1225.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot 2E): -1200 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edcarson on 2023-03-14; Database: WA_MPL_EASTERNUS_Depts

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Thin Air Pad	1698787.140	14354225.910	39°31'40.5860"N	80°47'34.7850"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot 2E	181.36	105.99	1698893.096	14354407.200	39°31'42.3781"N 80°47'33.4270"W

Comment: Marcellina Unit 2H	
H&P 317 (RKB) to Ground level (At Slot: Slot 2E)	25.5ft
Mean Sea Level to Ground level (At Slot: Slot 2E)	-1200ft
H&P 317 (RKB) to Mean Sea Level	1225.5ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	3397.00	0.130	163.630	3394.09	58.25	-29.31	0.11	-64.60
Proj. to Bottom	3488.00	0.130	163.630	3485.09	58.05	-29.25	0.00	-64.39
KOP 1	3568.00	0.130	163.630	3565.09	57.86	-29.20	0.00	-64.21
End of 3D Arc	4051.62	14.431	33.639	4043.53	107.81	4.53	3.00	-109.56
Curve KOP	5142.41	14.431	33.639	5088.46	541.56	293.14	0.00	-417.73
POE	7183.11	74.217	161.135	6858.00	94.02	579.05	8.00	98.21
Landing Pt.	7380.39	90.000	161.135	6885.00	-90.32	642.03	8.00	293.01
BHL	24225.00	90.000	161.135	5885.00	-16030.11	6088.48	0.00	17137.62



API: 47-095-02830-0000  
 BH Job #: 111653780  
 Rig: H&P 317  
 Duration: 3/4/2023-3/8/2023

Gyrodatta MS Gyro <17-1/2'> (100°-374') : 0.11° Inc, 100.00ft MD, 100.00ft TVD, -0.06ft VS  
 APS EM <12-1/4'> (374°)(500°-3397') : 1.71° Inc, 500.00ft MD, 499.98ft TVD, -2.31ft VS

APS EM <8-3/4'> (3397°)(3494°-5949') : 0.50° Inc, 3494.00ft MD, 3491.08ft TVD, -64.59ft VS

BH AT Curve <8-1/2'> (5949°)(5997°-24176') : 14.47° Inc, 5997.00ft MD, 5928.03ft TVD, -404.08ft VS  
 Marcellus POE: 7175° MD : 73.97° Inc, 7175.00ft MD, 6861.69ft TVD, 87.25ft VS

Slot	Well	Wellbore	Wellpath
Slot 2E	Marcellina Unit 2H	Marcellina Unit 2H AWB	Marcellina Unit 2H AWP Proj. 24201'
Slot 2E	Marcellina Unit 2H	Marcellina Unit 2H PWB	Marcellina Unit 2H PWP Rev-B.1

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Projected MD at TD: 24201' : 6943.95ft TVD, 16002.11ft S, 6078.31ft E  
 BHL 79  
 Projected MD at TD: 24201' : 89.69° Inc, 24201.00ft MD, 6943.95ft TVD, 17107.83ft VS

Vertical Section (ft)  
 Azimuth 161.14° with reference 0.00 N, 0.00 E



# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999604	Report Generated	3/14/2023 at 2:53:18 AM
Convergence at slot	0.13° 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	181.36	105.99	1698893.09	14354407.20	39°31'42.3781"N	80°47'33.4270"W
Facility Reference Pt			1698787.14	14354225.91	39°31'40.5880"N	80°47'34.7850"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	1225.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1225.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot 2E)	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	161.14°

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'

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Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

WELLPATH DATA (260 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	307.210	0.00	0.00	0.00	0.00	1698893.09	14354407.20	39°31'42.3781"N	80°47'33.4270"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	307.210	25.50	0.00	0.00	0.00	1698893.09	14354407.20	39°31'42.3781"N	80°47'33.4270"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.110	307.210	100.00	-0.06	0.04	-0.06	1698893.03	14354407.24	39°31'42.3785"N	80°47'33.4277"W	0.07	307.210	0.15	0.15	0.00	Gyrodata MS Gyro <17-1/2"> (100'-374')
200.00	0.070	302.240	200.00	-0.19	0.13	-0.19	1698892.90	14354407.33	39°31'42.3794"N	80°47'33.4293"W	0.23	305.882	0.04	-0.04	-4.97	
300.00	0.140	319.830	300.00	-0.35	0.26	-0.32	1698892.77	14354407.46	39°31'42.3806"N	80°47'33.4310"W	0.41	309.469	0.08	0.07	17.59	
374.00	0.320	19.570	374.00	-0.59	0.52	-0.30	1698892.79	14354407.72	39°31'42.3832"N	80°47'33.4309"W	0.61	329.808	0.37	0.24	80.73	
500.00	1.710	21.030	499.98	-2.31	2.61	0.49	1698893.58	14354409.81	39°31'42.4038"N	80°47'33.4207"W	2.66	10.588	1.10	1.10	1.16	APS EM <12-1/4"> (374')(500'-3397')
589.00	2.590	9.200	588.91	-5.11	5.83	1.29	1698894.38	14354413.03	39°31'42.4357"N	80°47'33.4104"W	5.97	12.429	1.10	0.99	-13.29	
679.00	3.960	353.320	678.77	-9.94	10.93	1.25	1698894.34	14354418.12	39°31'42.4860"N	80°47'33.4107"W	11.00	6.523	1.81	1.52	-17.64	
769.00	4.760	349.970	768.50	-16.67	17.69	0.24	1698893.33	14354424.89	39°31'42.5529"N	80°47'33.4234"W	17.69	0.770	0.93	0.89	-3.72	
858.00	4.920	348.460	857.19	-24.10	25.07	-1.17	1698891.92	14354432.26	39°31'42.6258"N	80°47'33.4412"W	25.10	357.330	0.23	0.18	-1.70	
948.00	5.440	341.530	946.82	-32.19	32.90	-3.29	1698889.80	14354440.08	39°31'42.7033"N	80°47'33.4680"W	33.06	354.284	0.90	0.58	-7.70	
1037.00	5.840	334.740	1035.39	-40.91	40.99	-6.56	1698886.53	14354448.18	39°31'42.7833"N	80°47'33.5095"W	41.51	350.906	0.87	0.45	-7.63	
1132.00	6.000	330.680	1129.88	-50.60	49.69	-11.06	1698882.04	14354456.87	39°31'42.8694"N	80°47'33.5666"W	50.91	347.458	0.47	0.17	-4.27	
1226.00	4.980	326.220	1223.45	-59.37	57.37	-15.73	1698877.37	14354464.55	39°31'42.9454"N	80°47'33.6260"W	59.49	344.667	1.18	-1.09	-4.74	
1321.00	3.250	317.100	1318.20	-65.82	62.77	-19.86	1698873.24	14354469.94	39°31'42.9989"N	80°47'33.6785"W	65.83	342.446	1.94	-1.82	-9.60	
1416.00	1.240	297.270	1413.13	-69.02	65.21	-22.60	1698870.50	14354472.39	39°31'43.0231"N	80°47'33.7135"W	69.02	340.883	2.24	-2.12	-20.87	
1510.00	0.450	211.950	1507.12	-69.52	65.36	-23.70	1698869.40	14354472.54	39°31'43.0246"N	80°47'33.7276"W	69.53	340.069	1.37	-0.84	-90.77	
1604.00	0.430	232.580	1601.12	-69.17	64.84	-24.18	1698868.92	14354472.01	39°31'43.0194"N	80°47'33.7336"W	69.20	339.550	0.17	-0.02	21.95	
1699.00	0.730	231.900	1696.11	-68.86	64.25	-24.94	1698868.16	14354471.42	39°31'43.0136"N	80°47'33.7433"W	68.92	338.787	0.32	0.32	-0.72	
1793.00	0.600	228.610	1790.11	-68.47	63.55	-25.78	1698867.32	14354470.73	39°31'43.0067"N	80°47'33.7541"W	68.58	337.922	0.14	-0.14	-3.50	
1887.00	0.500	266.960	1884.10	-68.40	63.21	-26.56	1698866.54	14354470.38	39°31'43.0033"N	80°47'33.7640"W	68.56	337.210	0.40	-0.11	40.80	
1982.00	0.410	211.140	1979.10	-68.29	62.89	-27.15	1698865.95	14354470.07	39°31'43.0003"N	80°47'33.7716"W	68.50	336.854	0.46	-0.09	-58.76	
2076.00	0.310	209.370	2073.10	-67.91	62.38	-27.44	1698865.66	14354469.56	39°31'42.9952"N	80°47'33.7754"W	68.15	336.253	0.11	-0.11	-1.88	
2170.00	0.270	206.450	2167.10	-67.58	61.98	-27.67	1698865.43	14354469.14	39°31'42.9911"N	80°47'33.7783"W	67.86	335.938	0.05	-0.04	-3.11	
2264.00	0.200	204.300	2261.09	-67.30	61.62	-27.83	1698865.27	14354468.79	39°31'42.9876"N	80°47'33.7804"W	67.61	335.689	0.08	-0.07	-2.29	
2359.00	0.510	226.490	2356.09	-67.01	61.17	-28.21	1698864.89	14354468.35	39°31'42.9833"N	80°47'33.7852"W	67.36	335.244	0.35	0.33	23.36	
2453.00	0.370	255.650	2450.09	-66.86	60.81	-28.81	1698864.29	14354467.99	39°31'42.9797"N	80°47'33.7928"W	67.29	334.652	0.28	-0.15	31.02	
2548.00	0.260	201.340	2545.09	-66.72	60.53	-29.18	1698863.92	14354467.71	39°31'42.9770"N	80°47'33.7976"W	67.20	334.262	0.32	-0.12	-57.17	
2642.00	0.210	168.080	2639.09	-66.38	60.17	-29.22	1698863.88	14354467.34	39°31'42.9734"N	80°47'33.7982"W	66.89	334.093	0.15	-0.05	-35.38	

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

WELLPATH DATA (260 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
2736.00	0.090	150.720	2733.09	-66.14	59.93	-29.15	1698863.95	14354467.11	39°31'42.9710"N	80°47'33.7973"W	66.65	334.061	0.14	-0.13	-18.47	
2831.00	0.170	155.180	2828.09	-65.93	59.74	-29.06	1698864.04	14354466.92	39°31'42.9691"N	80°47'33.7961"W	66.43	334.062	0.08	0.08	4.69	
2925.00	0.190	208.920	2922.09	-65.68	59.48	-29.07	1698864.03	14354466.65	39°31'42.9665"N	80°47'33.7963"W	66.20	333.950	0.17	0.02	57.17	
3020.00	0.200	210.060	3017.09	-65.47	59.20	-29.23	1698863.87	14354466.37	39°31'42.9638"N	80°47'33.7983"W	66.02	333.718	0.01	0.01	1.20	
3114.00	0.180	187.430	3111.09	-65.23	58.91	-29.33	1698863.77	14354466.08	39°31'42.9609"N	80°47'33.7996"W	65.81	333.528	0.08	-0.02	-24.07	
3208.00	0.200	167.710	3205.09	-64.93	58.60	-29.32	1698863.78	14354465.78	39°31'42.9579"N	80°47'33.7994"W	65.53	333.421	0.07	0.02	-20.98	
3303.00	0.060	211.800	3300.09	-64.74	58.40	-29.31	1698863.79	14354465.57	39°31'42.9559"N	80°47'33.7993"W	65.34	333.348	0.17	-0.15	46.41	
3397.00	0.130	163.630	3394.09	-64.60	58.25	-29.31	1698863.80	14354465.43	39°31'42.9544"N	80°47'33.7993"W	65.21	333.294	0.11	0.07	-51.24	
3494.00	0.500	265.610	3491.08	-64.59	58.11	-29.70	1698863.41	14354465.29	39°31'42.9531"N	80°47'33.8043"W	65.26	332.933	0.56	0.38	105.13	APS EM <8-3/4"> (3397')(3494'-5949')
3588.00	2.780	28.420	3585.05	-66.24	60.09	-29.02	1698864.08	14354467.26	39°31'42.9726"N	80°47'33.7956"W	66.73	334.221	3.28	2.43	130.65	
3683.00	5.780	29.770	3679.77	-70.97	66.27	-25.55	1698867.55	14354473.44	39°31'43.0336"N	80°47'33.7511"W	71.02	338.917	3.16	3.16	1.42	
3777.00	8.460	30.230	3773.04	-78.63	76.35	-19.72	1698873.38	14354483.52	39°31'43.1331"N	80°47'33.6763"W	78.86	345.522	2.85	2.85	0.49	
3871.00	12.570	30.000	3865.44	-89.89	91.19	-11.12	1698881.98	14354498.36	39°31'43.2796"N	80°47'33.5662"W	91.87	353.050	4.37	4.37	-0.24	
3965.00	12.200	29.130	3957.25	-103.27	108.73	-1.17	1698891.92	14354515.88	39°31'43.4526"N	80°47'33.4387"W	108.73	359.385	0.44	-0.39	-0.93	
4060.00	13.620	25.790	4049.85	-117.94	127.57	8.59	1698901.67	14354534.72	39°31'43.6386"N	80°47'33.3136"W	127.86	3.851	1.69	1.49	-3.52	
4154.00	15.530	30.100	4140.83	-134.08	148.42	19.71	1698912.80	14354555.56	39°31'43.8445"N	80°47'33.1710"W	149.73	7.566	2.34	2.03	4.59	
4249.00	16.760	37.860	4232.09	-149.95	170.24	34.50	1698927.58	14354577.37	39°31'44.0598"N	80°47'32.9817"W	173.70	11.457	2.61	1.29	8.17	
4343.00	16.000	36.790	4322.27	-164.70	191.32	50.58	1698943.65	14354598.44	39°31'44.2677"N	80°47'32.7759"W	197.89	14.808	0.87	-0.81	-1.14	
4437.00	14.740	32.370	4412.91	-179.50	211.79	64.74	1698957.80	14354618.91	39°31'44.4698"N	80°47'32.5945"W	221.47	16.997	1.83	-1.34	-4.70	
4532.00	13.190	28.650	4505.10	-194.39	231.51	76.41	1698969.47	14354638.62	39°31'44.6644"N	80°47'32.4451"W	243.80	18.265	1.88	-1.63	-3.92	
4626.00	13.580	29.850	4596.55	-208.91	250.50	87.04	1698980.10	14354657.60	39°31'44.8518"N	80°47'32.3088"W	265.19	19.161	0.51	0.41	1.28	
4721.00	14.950	32.740	4688.62	-223.88	270.48	99.22	1698992.27	14354677.57	39°31'45.0490"N	80°47'32.1528"W	288.10	20.145	1.62	1.44	3.04	
4815.00	14.030	31.000	4779.63	-238.76	290.45	111.65	1699004.69	14354697.53	39°31'45.2461"N	80°47'31.9936"W	311.17	21.027	1.08	-0.98	-1.85	
4909.00	12.110	27.270	4871.19	-252.94	308.98	122.04	1699015.08	14354716.06	39°31'45.4290"N	80°47'31.8605"W	332.21	21.552	2.23	-2.04	-3.97	
5004.00	12.750	29.190	4963.96	-266.85	326.99	131.71	1699024.75	14354734.06	39°31'45.6068"N	80°47'31.7364"W	352.52	21.940	0.80	0.67	2.02	
5099.00	14.860	35.560	5056.22	-280.95	346.05	143.91	1699036.95	14354753.12	39°31'45.7949"N	80°47'31.5802"W	374.79	22.581	2.73	2.22	6.71	
5193.00	15.940	38.950	5146.85	-294.84	365.90	159.04	1699052.07	14354772.95	39°31'45.9907"N	80°47'31.3866"W	398.97	23.492	1.50	1.15	3.61	
5288.00	14.870	35.560	5238.43	-308.89	385.96	174.33	1699067.35	14354793.01	39°31'46.1886"N	80°47'31.1908"W	423.50	24.308	1.47	-1.13	-3.57	
5382.00	13.400	38.000	5329.59	-321.86	404.36	188.05	1699081.07	14354811.40	39°31'46.3701"N	80°47'31.0152"W	445.95	24.941	1.69	-1.56	2.60	
5477.00	13.660	41.850	5421.95	-333.37	421.39	202.31	1699095.32	14354828.42	39°31'46.5381"N	80°47'30.8327"W	467.44	25.646	0.99	0.27	4.05	

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Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

WELLPATH DATA (260 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
5571.00	12.080	38.910	5513.59	-344.04	437.31	215.90	1699108.90	14354844.34	39°31'46.6952"N	80°47'30.6588"W	487.70	26.275	1.82	-1.68	-3.13	
5666.00	11.710	35.650	5606.55	-354.94	452.88	227.76	1699120.76	14354859.90	39°31'46.8488"N	80°47'30.5070"W	506.93	26.698	0.81	-0.39	-3.43	
5760.00	13.150	34.180	5698.34	-366.91	469.48	239.33	1699132.32	14354876.49	39°31'47.0126"N	80°47'30.3589"W	526.96	27.011	1.57	1.53	-1.56	
5854.00	14.630	28.590	5789.60	-381.37	488.75	251.02	1699144.01	14354895.75	39°31'47.2028"N	80°47'30.2091"W	549.44	27.184	2.12	1.57	-5.95	
5949.00	14.460	33.380	5881.55	-396.74	509.19	263.28	1699156.27	14354916.19	39°31'47.4045"N	80°47'30.0520"W	573.23	27.342	1.28	-0.18	5.04	
5997.00	14.470	33.390	5928.03	-404.08	519.20	269.88	1699162.86	14354926.19	39°31'47.5033"N	80°47'29.9675"W	585.15	27.465	0.02	0.02	0.02	BH AT Curve <8-1/2"> (5949')(5997'-24176')
6081.00	14.290	35.120	6009.40	-416.61	536.44	281.62	1699174.60	14354943.43	39°31'47.6734"N	80°47'29.8171"W	605.87	27.698	0.55	-0.21	2.06	
6176.00	14.450	50.250	6101.46	-427.73	553.62	297.48	1699190.46	14354960.60	39°31'47.8428"N	80°47'29.6142"W	628.48	28.251	3.95	0.17	15.93	
6270.00	14.350	86.590	6192.69	-428.81	561.83	318.17	1699211.13	14354968.80	39°31'47.9235"N	80°47'29.3499"W	645.66	29.524	9.46	-0.11	38.66	
6364.00	13.960	126.370	6284.05	-416.37	555.78	338.98	1699231.93	14354962.76	39°31'47.8633"N	80°47'29.0846"W	651.00	31.379	10.16	-0.41	42.32	
6459.00	18.570	145.360	6375.29	-392.37	536.52	356.82	1699249.77	14354943.50	39°31'47.6724"N	80°47'28.8574"W	644.34	33.627	7.35	4.85	19.99	
6553.00	24.450	144.560	6462.70	-359.29	508.33	376.63	1699269.57	14354915.33	39°31'47.3934"N	80°47'28.6054"W	632.65	36.535	6.26	6.26	-0.85	
6647.00	30.260	148.600	6546.16	-317.49	472.23	400.27	1699293.20	14354879.24	39°31'47.0361"N	80°47'28.3048"W	619.05	40.285	6.49	6.18	4.30	
6656.00†	30.966	148.901	6553.91	-313.01	468.31	402.65	1699295.58	14354875.32	39°31'46.9973"N	80°47'28.2746"W	617.61	40.689	8.03	7.84	3.34	Sycamore: 6656' MD
6742.00	37.740	151.260	6624.87	-265.40	426.24	426.76	1699319.68	14354833.27	39°31'46.5809"N	80°47'27.9681"W	603.16	45.035	8.03	7.88	2.74	
6802.00†	42.757	153.703	6670.65	-227.09	391.85	444.63	1699337.54	14354798.90	39°31'46.2407"N	80°47'27.7411"W	592.66	48.610	8.76	8.36	4.07	Middlesex: 6802' MD
6836.00	45.620	154.890	6695.03	-203.56	370.50	454.90	1699347.81	14354777.55	39°31'46.0294"N	80°47'27.6106"W	586.69	50.838	8.76	8.42	3.49	
6931.00	54.290	157.410	6756.10	-131.18	304.02	484.18	1699377.08	14354711.10	39°31'45.3717"N	80°47'27.2389"W	571.71	57.875	9.35	9.13	2.65	
6951.00†	55.994	157.672	6767.53	-114.80	288.85	490.45	1699383.34	14354695.94	39°31'45.2216"N	80°47'27.1594"W	569.19	59.504	8.59	8.52	1.31	Burkett: 6951' MD
7010.00†	61.026	158.388	6798.34	-64.58	242.21	509.26	1699402.14	14354649.31	39°31'44.7602"N	80°47'26.9207"W	563.92	64.564	8.59	8.53	1.21	Tully: 7010' MD
7026.00	62.390	158.570	6805.92	-50.51	229.10	514.42	1699407.31	14354636.21	39°31'44.6305"N	80°47'26.8552"W	563.13	65.994	8.59	8.53	1.14	
7120.00	69.300	158.250	6844.36	35.11	149.40	545.97	1699438.84	14354556.54	39°31'43.8421"N	80°47'26.4549"W	566.04	74.696	7.36	7.35	-0.34	
7175.00†	73.968	159.220	6861.69	87.25	100.77	564.89	1699457.76	14354507.93	39°31'43.3610"N	80°47'26.2149"W	573.81	79.886	8.65	8.49	1.76	Marcellus POE: 7175' MD
7214.00	77.280	159.880	6871.37	125.01	65.37	578.09	1699470.95	14354472.55	39°31'43.0109"N	80°47'26.0476"W	581.77	83.548	8.65	8.49	1.69	
7309.00	84.110	160.890	6886.72	218.69	-22.89	609.53	1699502.38	14354384.32	39°31'42.1379"N	80°47'25.6489"W	609.96	92.150	7.27	7.19	1.06	
7403.00	90.220	160.930	6891.37	312.53	-111.57	640.22	1699533.06	14354295.68	39°31'41.2608"N	80°47'25.2598"W	649.87	99.885	6.50	6.50	0.04	
7497.00	90.250	160.290	6890.98	406.53	-200.23	671.43	1699564.25	14354207.05	39°31'40.3837"N	80°47'24.8642"W	700.65	106.606	0.68	0.03	-0.68	
7592.00	89.940	159.960	6890.83	501.51	-289.57	703.73	1699596.54	14354117.74	39°31'39.5000"N	80°47'24.4547"W	760.98	112.367	0.48	-0.33	-0.35	
7687.00	90.060	159.830	6890.83	596.49	-378.79	736.38	1699629.18	14354028.57	39°31'38.6175"N	80°47'24.0406"W	828.09	117.221	0.19	0.13	-0.14	
7782.00	89.600	159.780	6891.11	691.46	-467.94	769.18	1699661.96	14353939.44	39°31'37.7356"N	80°47'23.6247"W	900.34	121.315	0.49	-0.48	-0.05	

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

WELLPATH DATA (260 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
7876.00	90.090	160.550	6891.36	785.45	-556.37	801.07	1699693.84	14353851.06	39°31'36.8610"N	80°47'23.2204"W	975.33	124.781	0.97	0.52	0.82	
7970.00	90.310	161.980	6891.03	879.44	-645.38	831.26	1699724.02	14353762.07	39°31'35.9805"N	80°47'22.8377"W	1052.39	127.825	1.54	0.23	1.52	
8065.00	89.420	160.230	6891.26	974.44	-735.26	862.03	1699754.77	14353672.23	39°31'35.0915"N	80°47'22.4478"W	1133.00	130.462	2.07	-0.94	-1.84	
8159.00	90.030	159.930	6891.71	1068.42	-823.63	894.05	1699786.79	14353583.89	39°31'34.2173"N	80°47'22.0418"W	1215.61	132.652	0.72	0.65	-0.32	
8254.00	90.400	159.880	6891.35	1163.40	-912.85	926.69	1699819.41	14353494.71	39°31'33.3348"N	80°47'21.6279"W	1300.79	134.569	0.39	0.39	-0.05	
8348.00	90.000	161.810	6891.03	1257.39	-1001.64	957.53	1699850.24	14353405.96	39°31'32.4566"N	80°47'21.2370"W	1385.70	136.290	2.10	-0.43	2.05	
8443.00	90.370	160.080	6890.72	1352.39	-1091.43	988.55	1699881.24	14353316.20	39°31'31.5684"N	80°47'20.8439"W	1472.56	137.832	1.86	0.39	-1.82	
8538.00	90.060	160.800	6890.36	1447.38	-1180.95	1020.35	1699913.04	14353226.72	39°31'30.6830"N	80°47'20.4407"W	1560.69	139.173	0.83	-0.33	0.76	
8632.00	90.860	160.890	6889.61	1541.37	-1269.74	1051.19	1699943.87	14353137.97	39°31'29.8047"N	80°47'20.0497"W	1648.41	140.379	0.86	0.85	0.10	
8727.00	89.820	160.720	6889.04	1636.37	-1359.45	1082.43	1699975.09	14353048.29	39°31'28.9173"N	80°47'19.6538"W	1737.75	141.472	1.11	-1.09	-0.18	
8821.00	90.650	161.080	6888.66	1730.37	-1448.28	1113.19	1700005.83	14352959.50	39°31'28.0387"N	80°47'19.2640"W	1826.66	142.453	0.96	0.88	0.38	
8916.00	89.420	158.350	6888.60	1825.33	-1537.38	1146.12	1700038.75	14352870.44	39°31'27.1574"N	80°47'18.8464"W	1917.58	143.295	3.15	-1.29	-2.87	
9011.00	90.430	160.850	6888.72	1920.28	-1626.41	1179.23	1700071.85	14352781.44	39°31'26.2767"N	80°47'18.4265"W	2008.93	144.056	2.84	1.06	2.63	
9106.00	89.880	160.740	6888.47	2015.28	-1716.12	1210.48	1700103.09	14352691.76	39°31'25.3893"N	80°47'18.0304"W	2100.08	144.802	0.59	-0.58	-0.12	
9200.00	89.970	158.510	6888.59	2109.24	-1804.23	1243.20	1700135.80	14352603.68	39°31'24.5177"N	80°47'17.6155"W	2191.08	145.431	2.37	0.10	-2.37	
9295.00	90.400	161.040	6888.28	2204.21	-1893.37	1276.04	1700168.63	14352514.58	39°31'23.6360"N	80°47'17.1991"W	2283.23	146.022	2.70	0.45	2.66	
9389.00	90.280	160.500	6887.73	2298.20	-1982.12	1307.00	1700199.57	14352425.87	39°31'22.7581"N	80°47'16.8067"W	2374.25	146.599	0.59	-0.13	-0.57	
9483.00	90.090	160.520	6887.42	2392.20	-2070.74	1338.37	1700230.92	14352337.29	39°31'21.8816"N	80°47'16.4091"W	2465.60	147.124	0.20	-0.20	0.02	
9578.00	90.090	159.950	6887.27	2487.18	-2160.14	1370.49	1700263.03	14352247.92	39°31'20.9972"N	80°47'16.0019"W	2558.21	147.607	0.60	0.00	-0.60	
9673.00	90.520	161.280	6886.77	2582.18	-2249.75	1402.02	1700294.55	14352158.35	39°31'20.1108"N	80°47'15.6022"W	2650.86	148.069	1.47	0.45	1.40	
9767.00	89.420	159.310	6886.82	2676.16	-2338.24	1433.71	1700326.23	14352069.89	39°31'19.2355"N	80°47'15.2005"W	2742.79	148.485	2.40	-1.17	-2.10	
9861.00	90.400	161.150	6886.96	2770.14	-2426.69	1465.51	1700358.01	14351981.47	39°31'18.3606"N	80°47'14.7974"W	2834.88	148.872	2.22	1.04	1.96	
9956.00	90.180	160.340	6886.48	2865.14	-2516.38	1496.83	1700389.33	14351891.82	39°31'17.4735"N	80°47'14.4004"W	2927.91	149.254	0.88	-0.23	-0.85	
10051.00	90.550	160.830	6885.88	2960.13	-2605.97	1528.41	1700420.89	14351802.26	39°31'16.5872"N	80°47'14.0001"W	3021.12	149.608	0.65	0.39	0.52	
10145.00	89.940	160.200	6885.48	3054.12	-2694.59	1559.77	1700452.24	14351713.68	39°31'15.7107"N	80°47'13.6027"W	3113.47	149.936	0.93	-0.65	-0.67	
10239.00	90.090	162.390	6885.45	3148.12	-2783.62	1589.91	1700482.37	14351624.69	39°31'14.8301"N	80°47'13.2207"W	3205.67	150.266	2.34	0.16	2.33	
10334.00	90.280	161.890	6885.14	3243.10	-2874.04	1619.05	1700511.49	14351534.31	39°31'13.9357"N	80°47'12.8517"W	3298.70	150.606	0.56	0.20	-0.53	
10428.00	90.030	160.790	6884.89	3337.10	-2963.10	1649.12	1700541.55	14351445.28	39°31'13.0548"N	80°47'12.4706"W	3391.10	150.902	1.20	-0.27	-1.17	
10523.00	90.550	160.900	6884.41	3432.10	-3052.83	1680.29	1700572.71	14351355.58	39°31'12.1672"N	80°47'12.0756"W	3484.71	151.171	0.56	0.55	0.12	
10617.00	89.850	160.590	6884.08	3526.09	-3141.58	1711.29	1700603.70	14351266.88	39°31'11.2894"N	80°47'11.6827"W	3577.43	151.422	0.81	-0.74	-0.33	

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Marcellina Unit 2H
Field	Tyler		API	47-095-02830-0000
Facility	Thin Air Pad		Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E			

WELLPATH DATA (260 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
10712.00	90.030	161.510	6884.18	3621.09	-3231.43	1742.14	1700634.54	14351177.06	39°31'10.4007"N	80°47'11.2917"W	3671.13	151.670	0.99	0.19	0.97	
10806.00	90.180	161.760	6884.01	3715.09	-3320.64	1771.76	1700664.14	14351087.88	39°31'9.5183"N	80°47'10.9165"W	3763.74	151.917	0.31	0.16	0.27	
10900.00	89.750	161.440	6884.07	3809.09	-3409.83	1801.43	1700693.80	14350998.73	39°31'8.6361"N	80°47'10.5406"W	3856.44	152.152	0.57	-0.46	-0.34	
10995.00	90.090	161.980	6884.20	3904.08	-3500.03	1831.24	1700723.60	14350908.56	39°31'7.7439"N	80°47'10.1629"W	3950.15	152.381	0.67	0.36	0.57	
11089.00	90.120	161.240	6884.03	3998.08	-3589.23	1860.90	1700753.25	14350819.40	39°31'6.8616"N	80°47'9.7872"W	4042.96	152.595	0.79	0.03	-0.79	
11183.00	90.800	161.730	6883.27	4092.07	-3678.36	1890.75	1700783.08	14350730.30	39°31'5.9800"N	80°47'9.4091"W	4135.85	152.796	0.89	0.72	0.52	
11277.00	89.600	160.840	6882.94	4186.07	-3767.39	1920.91	1700813.23	14350641.31	39°31'5.0994"N	80°47'9.0269"W	4228.84	152.984	1.59	-1.28	-0.95	
11371.00	90.370	161.540	6882.97	4280.07	-3856.37	1951.21	1700843.53	14350552.37	39°31'4.2193"N	80°47'8.6429"W	4321.90	153.162	1.11	0.82	0.74	
11466.00	90.000	161.010	6882.66	4375.06	-3946.34	1981.71	1700874.01	14350462.43	39°31'3.3294"N	80°47'8.2565"W	4415.97	153.336	0.68	-0.39	-0.56	
11560.00	90.280	161.650	6882.43	4469.06	-4035.39	2011.80	1700904.09	14350373.42	39°31'2.4485"N	80°47'7.8752"W	4509.07	153.502	0.74	0.30	0.68	
11655.00	90.460	161.580	6881.82	4564.06	-4125.54	2041.76	1700934.04	14350283.30	39°31'1.5569"N	80°47'7.4957"W	4603.14	153.669	0.20	0.19	-0.07	
11750.00	90.950	162.210	6880.65	4659.04	-4215.83	2071.28	1700963.55	14350193.05	39°31'0.6638"N	80°47'7.1217"W	4697.17	153.835	0.84	0.52	0.66	
11844.00	90.150	159.820	6879.75	4753.03	-4304.70	2101.86	1700994.11	14350104.21	39°30'59.7847"N	80°47'6.7343"W	4790.44	153.975	2.68	-0.85	-2.54	
11939.00	89.690	158.280	6879.88	4847.96	-4393.42	2135.83	1701028.07	14350015.53	39°30'58.9071"N	80°47'6.3036"W	4885.07	154.074	1.69	-0.48	-1.62	
12033.00	89.510	157.830	6880.54	4941.82	-4480.61	2170.95	1701063.18	14349928.38	39°30'58.0446"N	80°47'5.8580"W	4978.84	154.149	0.52	-0.19	-0.48	
12128.00	89.910	156.530	6881.02	5036.59	-4568.17	2207.80	1701100.01	14349840.85	39°30'57.1783"N	80°47'5.3906"W	5073.71	154.206	1.43	0.42	-1.37	
12223.00	89.970	157.450	6881.12	5131.34	-4655.61	2244.93	1701137.13	14349753.44	39°30'56.3132"N	80°47'4.9194"W	5168.60	154.257	0.97	0.06	0.97	
12318.00	89.450	160.020	6881.60	5226.25	-4744.13	2279.38	1701171.57	14349664.96	39°30'55.4375"N	80°47'4.4826"W	5263.30	154.337	2.76	-0.55	2.71	
12412.00	88.680	161.780	6883.13	5320.23	-4832.94	2310.14	1701202.31	14349576.18	39°30'54.5591"N	80°47'4.0929"W	5356.68	154.452	2.04	-0.82	1.87	
12507.00	89.970	161.800	6884.25	5415.22	-4923.17	2339.82	1701231.98	14349485.99	39°30'53.6665"N	80°47'3.7169"W	5450.91	154.580	1.36	1.36	0.02	
12602.00	89.780	162.000	6884.46	5510.21	-5013.47	2369.34	1701261.48	14349395.72	39°30'52.7734"N	80°47'3.3430"W	5545.15	154.705	0.29	-0.20	0.21	
12696.00	90.580	162.640	6884.16	5604.19	-5103.03	2397.88	1701290.02	14349306.20	39°30'51.8876"N	80°47'2.9815"W	5638.33	154.831	1.09	0.85	0.68	
12791.00	90.030	164.730	6883.66	5699.09	-5194.20	2424.57	1701316.69	14349215.07	39°30'50.9859"N	80°47'2.6438"W	5732.21	154.978	2.27	-0.58	2.20	
12980.00	89.450	161.230	6884.51	5887.96	-5374.89	2479.88	1701371.98	14349034.45	39°30'49.1988"N	80°47'1.9436"W	5919.40	155.232	1.88	-0.31	-1.85	
13075.00	90.150	162.290	6884.85	5982.95	-5465.12	2509.61	1701401.70	14348944.26	39°30'48.3084"N	80°47'1.5670"W	6013.79	155.335	1.34	0.74	1.12	
13170.00	89.290	160.770	6885.31	6077.94	-5555.22	2539.71	1701431.79	14348854.19	39°30'47.4151"N	80°47'1.1858"W	6108.24	155.431	1.84	-0.91	-1.60	
13264.00	90.060	161.450	6885.84	6171.94	-5644.15	2570.14	1701462.21	14348765.29	39°30'46.5354"N	80°47'0.8002"W	6201.78	155.517	1.09	0.82	0.72	
13359.00	89.910	160.710	6885.87	6266.94	-5734.02	2600.94	1701493.00	14348675.46	39°30'45.6465"N	80°47'0.4100"W	6296.34	155.601	0.79	-0.16	-0.78	
13454.00	89.970	161.670	6885.97	6361.94	-5823.94	2631.57	1701523.62	14348585.57	39°30'44.7570"N	80°47'0.0219"W	6390.89	155.684	1.01	0.06	1.01	
13548.00	88.310	160.830	6887.38	6455.92	-5912.94	2661.79	1701553.82	14348496.61	39°30'43.8767"N	80°46'59.6392"W	6484.44	155.765	1.98	-1.77	-0.89	

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

WELLPATH DATA (260 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
13643.00	88.650	162.570	6889.90	6550.88	-6003.10	2691.60	1701583.62	14348406.49	39°30'42.9849"N	80°46'59.2615"W	6578.90	155.850	1.87	0.36	1.83	
13738.00	89.630	162.370	6891.32	6645.84	-6093.68	2720.21	1701612.22	14348315.95	39°30'42.0891"N	80°46'58.8993"W	6673.27	155.944	1.05	1.03	-0.21	
13832.00	90.090	162.660	6891.55	6739.82	-6183.33	2748.46	1701640.45	14348226.33	39°30'41.2023"N	80°46'58.5417"W	6766.66	156.035	0.58	0.49	0.31	
13927.00	89.510	162.780	6891.89	6834.78	-6274.05	2776.67	1701668.66	14348135.65	39°30'40.3051"N	80°46'58.1844"W	6861.02	156.127	0.62	-0.61	0.13	
14022.00	89.880	162.070	6892.39	6929.75	-6364.61	2805.36	1701697.33	14348045.12	39°30'39.4093"N	80°46'57.8212"W	6955.45	156.213	0.84	0.39	-0.75	
14116.00	89.660	161.910	6892.77	7023.74	-6454.00	2834.42	1701726.38	14347955.77	39°30'38.5251"N	80°46'57.4532"W	7048.98	156.290	0.29	-0.23	-0.17	
14211.00	89.820	162.170	6893.20	7118.73	-6544.37	2863.72	1701755.67	14347865.43	39°30'37.6313"N	80°46'57.0822"W	7143.51	156.367	0.32	0.17	0.27	
14400.00	90.030	161.570	6893.45	7307.71	-6723.99	2922.53	1701814.45	14347685.89	39°30'35.8547"N	80°46'56.3374"W	7331.66	156.508	0.34	0.11	-0.32	
14495.00	89.720	163.260	6893.66	7402.69	-6814.55	2951.23	1701843.14	14347595.37	39°30'34.9590"N	80°46'55.9740"W	7426.15	156.584	1.81	-0.33	1.78	
14590.00	90.180	162.320	6893.74	7497.64	-6905.29	2979.34	1701871.24	14347504.66	39°30'34.0615"N	80°46'55.6182"W	7520.60	156.662	1.10	0.48	-0.99	
14684.00	90.220	162.670	6893.41	7591.62	-6994.94	3007.61	1701899.50	14347415.05	39°30'33.1748"N	80°46'55.2603"W	7614.12	156.734	0.37	0.04	0.37	
14779.00	90.340	162.440	6892.95	7686.59	-7085.57	3036.09	1701927.97	14347324.45	39°30'32.2784"N	80°46'54.8997"W	7708.64	156.805	0.27	0.13	-0.24	
14873.00	89.540	161.790	6893.04	7780.57	-7175.02	3064.96	1701956.83	14347235.03	39°30'31.3936"N	80°46'54.5342"W	7802.24	156.869	1.10	-0.85	-0.69	
14968.00	90.030	162.360	6893.40	7875.56	-7265.41	3094.19	1701986.05	14347144.68	39°30'30.4995"N	80°46'54.1639"W	7896.85	156.932	0.79	0.52	0.60	
15062.00	89.600	161.950	6893.70	7969.54	-7354.89	3123.00	1702014.85	14347055.24	39°30'29.6145"N	80°46'53.7992"W	7990.46	156.993	0.63	-0.46	-0.44	
15251.00	89.750	162.390	6894.78	8158.51	-7534.81	3180.87	1702072.69	14346875.39	39°30'27.8350"N	80°46'53.0665"W	8178.71	157.113	0.25	0.08	0.23	
15345.00	89.880	162.320	6895.08	8252.49	-7624.38	3209.36	1702101.17	14346785.85	39°30'26.9489"N	80°46'52.7057"W	8272.32	157.172	0.16	0.14	-0.07	
15535.00	89.600	161.950	6895.94	8442.46	-7805.22	3267.65	1702159.44	14346605.09	39°30'25.1603"N	80°46'51.9677"W	8461.62	157.283	0.24	-0.15	-0.19	
15724.00	89.380	162.230	6897.62	8631.42	-7985.05	3325.77	1702217.53	14346425.33	39°30'23.3815"N	80°46'51.2318"W	8649.96	157.388	0.19	-0.12	0.15	
15819.00	89.230	161.000	6898.78	8726.41	-8075.19	3355.73	1702247.48	14346335.22	39°30'22.4899"N	80°46'50.8524"W	8744.69	157.434	1.30	-0.16	-1.29	
15913.00	90.220	162.590	6899.23	8820.40	-8164.48	3385.09	1702276.84	14346245.97	39°30'21.6067"N	80°46'50.4805"W	8838.42	157.481	1.99	1.05	1.69	
16008.00	89.600	162.330	6899.38	8915.37	-8255.07	3413.72	1702305.46	14346155.42	39°30'20.7108"N	80°46'50.1181"W	8933.07	157.533	0.71	-0.65	-0.27	
16102.00	89.970	162.150	6899.73	9009.35	-8344.59	3442.40	1702334.12	14346065.94	39°30'19.8253"N	80°46'49.7550"W	9026.75	157.582	0.44	0.39	-0.19	
16197.00	89.820	162.080	6899.90	9104.34	-8435.00	3471.57	1702363.28	14345975.56	39°30'18.9311"N	80°46'49.3856"W	9121.46	157.630	0.17	-0.16	-0.07	
16291.00	89.690	161.000	6900.31	9198.34	-8524.16	3501.34	1702393.03	14345886.44	39°30'18.0492"N	80°46'49.0087"W	9215.24	157.669	1.16	-0.14	-1.15	
16386.00	89.910	161.430	6900.64	9293.34	-8614.10	3531.93	1702423.61	14345796.53	39°30'17.1595"N	80°46'48.6212"W	9310.06	157.706	0.51	0.23	0.45	
16480.00	89.350	159.160	6901.24	9387.32	-8702.58	3563.62	1702455.29	14345708.08	39°30'16.2842"N	80°46'48.2197"W	9403.95	157.731	2.49	-0.60	-2.41	
16575.00	90.280	161.760	6901.55	9482.30	-8792.10	3595.39	1702487.05	14345618.60	39°30'15.3987"N	80°46'47.8171"W	9498.84	157.759	2.91	0.98	2.74	
16669.00	89.080	161.230	6902.08	9576.29	-8881.24	3625.22	1702516.87	14345529.50	39°30'14.5170"N	80°46'47.4393"W	9592.64	157.795	1.40	-1.28	-0.56	
16764.00	90.430	160.810	6902.48	9671.29	-8971.07	3656.12	1702547.75	14345439.70	39°30'13.6284"N	80°46'47.0480"W	9687.48	157.827	1.49	1.42	-0.44	

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Marcellina Unit 2H
Field	Tyler		API	47-095-02830-0000
Facility	Thin Air Pad		Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E			

WELLPATH DATA (260 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
16858.00	87.880	158.780	6903.87	9765.24	-9059.27	3688.58	1702580.20	14345351.54	39°30'12.7560"N	80°46'46.6367"W	9781.41	157.846	3.47	-2.71	-2.16	
16953.00	89.660	161.840	6905.91	9860.20	-9148.68	3720.57	1702612.18	14345262.17	39°30'11.8716"N	80°46'46.2313"W	9876.28	157.869	3.73	1.87	3.22	
17047.00	89.540	160.850	6906.56	9954.19	-9237.73	3750.64	1702642.24	14345173.14	39°30'10.9906"N	80°46'45.8505"W	9970.11	157.902	1.06	-0.13	-1.05	
17142.00	89.750	161.100	6907.15	10049.19	-9327.54	3781.61	1702673.19	14345083.37	39°30'10.1023"N	80°46'45.4582"W	10064.97	157.931	0.34	0.22	0.26	
17236.00	89.780	161.140	6907.54	10143.19	-9416.49	3812.02	1702703.60	14344994.46	39°30'9.2225"N	80°46'45.0730"W	10158.82	157.961	0.05	0.03	0.04	
17331.00	89.940	160.920	6907.77	10238.19	-9506.33	3842.91	1702734.47	14344904.66	39°30'8.3338"N	80°46'44.6818"W	10253.69	157.989	0.29	0.17	-0.23	
17425.00	90.000	161.360	6907.82	10332.19	-9595.28	3873.29	1702764.84	14344815.74	39°30'7.4539"N	80°46'44.2970"W	10347.55	158.018	0.47	0.06	0.47	
17520.00	89.630	161.470	6908.13	10427.19	-9685.32	3903.57	1702795.10	14344725.73	39°30'6.5633"N	80°46'43.9135"W	10442.38	158.049	0.41	-0.39	0.12	
17614.00	89.200	161.140	6909.09	10521.18	-9774.36	3933.70	1702825.22	14344636.73	39°30'5.6826"N	80°46'43.6320"W	10536.23	158.078	0.58	-0.46	-0.35	
17709.00	89.720	160.580	6909.98	10616.17	-9864.10	3964.84	1702856.36	14344547.02	39°30'4.7948"N	80°46'43.1375"W	10631.11	158.103	0.80	0.55	-0.59	
17803.00	90.120	161.420	6910.11	10710.17	-9952.98	3995.45	1702886.95	14344458.18	39°30'3.9157"N	80°46'42.7498"W	10724.99	158.128	0.99	0.43	0.89	
17898.00	89.850	161.330	6910.14	10805.17	-10043.00	4025.79	1702917.27	14344368.19	39°30'3.0252"N	80°46'42.3656"W	10819.84	158.156	0.30	-0.28	-0.09	
17992.00	89.380	160.820	6910.77	10899.17	-10131.92	4056.27	1702947.75	14344279.31	39°30'2.1457"N	80°46'41.9795"W	10913.72	158.182	0.74	-0.50	-0.54	
18087.00	89.450	162.110	6911.74	10994.16	-10221.99	4086.47	1702977.93	14344189.28	39°30'1.2548"N	80°46'41.5971"W	11008.55	158.210	1.36	0.07	1.36	
18181.00	89.570	161.180	6912.54	11088.15	-10311.20	4116.07	1703007.52	14344100.10	39°30'0.3724"N	80°46'41.2223"W	11102.38	158.239	1.00	0.13	-0.99	
18276.00	89.630	161.030	6913.21	11183.15	-10401.08	4146.83	1703038.27	14344010.26	39°29'59.4833"N	80°46'40.8327"W	11197.26	158.263	0.17	0.06	-0.16	
18371.00	89.880	161.160	6913.61	11278.15	-10490.95	4177.61	1703069.04	14343920.42	39°29'58.5943"N	80°46'40.4429"W	11292.15	158.287	0.30	0.26	0.14	
18465.00	89.780	161.100	6913.89	11372.15	-10579.90	4208.01	1703099.43	14343831.51	39°29'57.7145"N	80°46'40.0579"W	11386.03	158.310	0.12	-0.11	-0.06	
18559.00	89.600	160.750	6914.40	11466.15	-10668.74	4238.73	1703130.14	14343742.71	39°29'56.8357"N	80°46'39.6688"W	11479.93	158.332	0.42	-0.19	-0.37	
18654.00	90.030	161.240	6914.71	11561.15	-10758.56	4269.67	1703161.06	14343652.92	39°29'55.9472"N	80°46'39.2770"W	11574.83	158.354	0.69	0.45	0.52	
18749.00	89.850	161.150	6914.81	11656.15	-10848.49	4300.29	1703191.67	14343563.03	39°29'55.0577"N	80°46'38.8892"W	11669.71	158.377	0.21	-0.19	-0.09	
18843.00	89.940	161.460	6914.98	11750.14	-10937.53	4330.42	1703221.79	14343474.03	39°29'54.1769"N	80°46'38.5076"W	11763.59	158.400	0.34	0.10	0.33	
18938.00	90.680	161.720	6914.46	11845.14	-11027.66	4360.42	1703251.78	14343383.93	39°29'53.2853"N	80°46'38.1278"W	11858.44	158.426	0.83	0.78	0.27	
19033.00	89.450	160.980	6914.36	11940.14	-11117.67	4390.80	1703282.15	14343293.95	39°29'52.3950"N	80°46'37.7431"W	11953.32	158.449	1.51	-1.29	-0.78	
19127.00	90.250	161.000	6914.60	12034.13	-11206.55	4421.42	1703312.75	14343205.12	39°29'51.5159"N	80°46'37.3553"W	12047.22	158.469	0.85	0.85	0.02	
19222.00	90.180	160.960	6914.25	12129.13	-11296.36	4452.38	1703343.70	14343115.34	39°29'50.6275"N	80°46'36.9632"W	12142.13	158.488	0.08	-0.07	-0.04	
19316.00	89.320	161.900	6914.66	12223.13	-11385.46	4482.32	1703373.62	14343026.27	39°29'49.7461"N	80°46'36.5842"W	12236.01	158.511	1.36	-0.91	1.00	
19411.00	89.170	160.560	6915.91	12318.12	-11475.40	4512.88	1703404.17	14342936.37	39°29'48.8565"N	80°46'36.1971"W	12330.89	158.532	1.42	-0.16	-1.41	
19506.00	90.830	161.690	6915.91	12413.11	-11565.29	4543.61	1703434.89	14342846.52	39°29'47.9674"N	80°46'35.8080"W	12425.79	158.552	2.11	1.75	1.19	
19600.00	89.110	160.700	6915.96	12507.11	-11654.26	4573.91	1703465.18	14342757.58	39°29'47.0872"N	80°46'35.4243"W	12519.69	158.572	2.11	-1.83	-1.05	

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

WELLPATH DATA (260 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
19695.00	89.780	159.890	6916.88	12602.09	-11743.70	4605.94	1703497.20	14342668.18	39°29'46.2026"N	80°46'35.0185"W	12614.64	158.585	1.11	0.71	-0.85	
19789.00	89.850	161.380	6917.18	12696.09	-11832.37	4637.11	1703528.35	14342579.54	39°29'45.3254"N	80°46'34.6238"W	12708.57	158.600	1.59	0.07	1.59	
19883.00	90.430	160.060	6916.95	12790.08	-11921.10	4668.15	1703559.38	14342490.85	39°29'44.4477"N	80°46'34.2307"W	12802.51	158.615	1.53	0.62	-1.40	
19978.00	89.780	160.920	6916.78	12885.07	-12010.64	4699.87	1703591.09	14342401.34	39°29'43.5619"N	80°46'33.8288"W	12897.46	158.629	1.13	-0.68	0.91	
20072.00	89.630	161.230	6917.26	12979.07	-12099.56	4730.38	1703621.57	14342312.46	39°29'42.6824"N	80°46'33.4427"W	12991.37	158.647	0.37	-0.16	0.33	
20167.00	89.660	161.140	6917.85	13074.07	-12189.48	4761.00	1703652.19	14342222.57	39°29'41.7929"N	80°46'33.0548"W	13086.28	158.665	0.10	0.03	-0.09	
20261.00	89.820	161.500	6918.28	13168.07	-12278.53	4791.10	1703682.29	14342133.56	39°29'40.9121"N	80°46'32.6738"W	13180.17	158.684	0.42	0.17	0.38	
20356.00	89.750	161.070	6918.63	13263.07	-12368.51	4821.59	1703712.76	14342043.62	39°29'40.0220"N	80°46'32.2876"W	13275.08	158.703	0.46	-0.07	-0.45	
20450.00	89.880	160.910	6918.94	13357.07	-12457.38	4852.20	1703743.36	14341954.78	39°29'39.1429"N	80°46'31.8999"W	13369.00	158.719	0.22	0.14	-0.17	
20545.00	89.380	160.610	6919.55	13452.06	-12547.07	4883.51	1703774.65	14341865.12	39°29'38.2557"N	80°46'31.5034"W	13463.94	158.733	0.61	-0.53	-0.32	
20639.00	89.750	160.600	6920.26	13546.06	-12635.73	4914.72	1703805.86	14341776.50	39°29'37.3787"N	80°46'31.1081"W	13557.89	158.746	0.39	0.39	-0.01	
20733.00	89.880	161.200	6920.57	13640.05	-12724.56	4945.48	1703836.60	14341687.71	39°29'36.5000"N	80°46'30.7186"W	13651.82	158.761	0.65	0.14	0.64	
20828.00	89.290	161.190	6921.26	13735.05	-12814.48	4976.10	1703867.21	14341597.82	39°29'35.6105"N	80°46'30.3308"W	13746.73	158.778	0.62	-0.62	-0.01	
20922.00	89.140	161.140	6922.54	13829.04	-12903.44	5006.45	1703897.54	14341508.89	39°29'34.7305"N	80°46'29.9466"W	13840.64	158.794	0.17	-0.16	-0.05	
21017.00	89.260	160.870	6923.87	13924.03	-12993.26	5037.37	1703928.45	14341419.11	39°29'33.8421"N	80°46'29.5551"W	13935.56	158.809	0.31	0.13	-0.28	
21112.00	90.990	161.030	6923.66	14019.03	-13083.05	5068.37	1703959.44	14341329.35	39°29'32.9538"N	80°46'29.1625"W	14030.49	158.824	1.83	1.82	0.17	
21207.00	90.680	160.980	6922.28	14114.02	-13172.87	5099.29	1703990.35	14341239.57	39°29'32.0654"N	80°46'28.7710"W	14125.41	158.838	0.33	-0.33	-0.05	
21301.00	89.690	160.700	6921.97	14208.01	-13261.66	5130.14	1704021.19	14341150.82	39°29'31.1871"N	80°46'28.3803"W	14219.35	158.852	1.09	-1.05	-0.30	
21396.00	90.310	161.000	6921.97	14303.01	-13351.41	5161.30	1704052.34	14341061.11	39°29'30.2993"N	80°46'27.9857"W	14314.30	158.865	0.73	0.65	0.32	
21490.00	89.420	160.520	6922.20	14397.01	-13440.15	5192.28	1704083.30	14340972.40	39°29'29.4214"N	80°46'27.5934"W	14408.24	158.877	1.08	-0.95	-0.51	
21584.00	90.620	160.630	6922.16	14491.00	-13528.80	5223.54	1704114.55	14340883.78	39°29'28.5445"N	80°46'27.1975"W	14502.20	158.888	1.28	1.28	0.12	
21679.00	89.630	161.060	6921.96	14586.00	-13618.54	5254.71	1704145.71	14340794.08	39°29'27.6568"N	80°46'26.8028"W	14597.14	158.901	1.14	-1.04	0.45	
21773.00	90.120	159.890	6922.16	14679.99	-13707.13	5286.13	1704177.11	14340705.52	39°29'26.7805"N	80°46'26.4049"W	14691.11	158.911	1.35	0.52	-1.24	
21868.00	88.950	160.640	6922.93	14774.97	-13796.55	5318.20	1704209.18	14340616.14	39°29'25.8960"N	80°46'25.9986"W	14786.08	158.920	1.46	-1.23	0.79	
21963.00	89.600	159.420	6924.13	14869.95	-13885.83	5350.65	1704241.61	14340526.90	39°29'25.0128"N	80°46'25.5877"W	14881.05	158.927	1.46	0.68	-1.28	
22057.00	89.290	161.080	6925.05	14963.93	-13974.29	5382.41	1704273.36	14340438.47	39°29'24.1377"N	80°46'25.1854"W	14975.02	158.935	1.80	-0.33	1.77	
22151.00	89.290	161.030	6926.21	15057.92	-14063.19	5412.92	1704303.86	14340349.61	39°29'23.2583"N	80°46'24.7990"W	15068.94	158.948	0.05	0.00	-0.05	
22245.00	89.540	161.000	6927.17	15151.92	-14152.07	5443.50	1704334.43	14340260.76	39°29'22.3791"N	80°46'24.4119"W	15162.88	158.961	0.27	0.27	-0.03	
22340.00	89.320	160.800	6928.11	15246.91	-14241.84	5474.59	1704365.50	14340171.03	39°29'21.4911"N	80°46'24.0183"W	15257.82	158.973	0.31	-0.23	-0.21	
22434.00	89.660	160.870	6928.95	15340.90	-14330.62	5505.44	1704396.34	14340082.28	39°29'20.6128"N	80°46'23.8275"W	15351.77	158.985	0.37	0.36	0.07	

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

WELLPATH DATA (260 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
22529.00	89.420	161.160	6929.71	15435.90	-14420.45	5536.35	1704427.23	14339992.49	39°29'19.7243"N	80°46'23.2362"W	15446.70	158.997	0.40	-0.25	0.31	
22623.00	89.450	161.050	6930.64	15529.90	-14509.38	5566.79	1704457.66	14339903.59	39°29'18.8446"N	80°46'22.8509"W	15540.64	159.010	0.12	0.03	-0.12	
22718.00	89.320	160.690	6931.66	15624.89	-14599.13	5597.92	1704488.78	14339813.88	39°29'17.9568"N	80°46'22.4567"W	15635.58	159.021	0.40	-0.14	-0.38	
22812.00	89.450	161.020	6932.67	15718.88	-14687.93	5628.74	1704519.59	14339725.12	39°29'17.0784"N	80°46'22.0664"W	15729.53	159.032	0.38	0.14	0.35	
22907.00	89.570	161.100	6933.48	15813.88	-14777.78	5659.58	1704550.42	14339635.30	39°29'16.1896"N	80°46'21.6760"W	15824.46	159.044	0.15	0.13	0.08	
23001.00	89.660	161.000	6934.11	15907.88	-14866.69	5690.10	1704580.93	14339546.43	39°29'15.3102"N	80°46'21.2895"W	15918.40	159.056	0.14	0.10	-0.11	
23095.00	89.420	161.070	6934.87	16001.87	-14955.58	5720.65	1704611.46	14339457.57	39°29'14.4308"N	80°46'20.9028"W	16012.35	159.068	0.27	-0.26	0.07	
23190.00	89.540	160.700	6935.73	16096.87	-15045.34	5751.76	1704642.56	14339367.85	39°29'13.5430"N	80°46'20.5089"W	16107.29	159.078	0.41	0.13	-0.39	
23284.00	89.510	161.050	6936.51	16190.86	-15134.15	5782.56	1704673.34	14339279.08	39°29'12.6645"N	80°46'20.1190"W	16201.25	159.089	0.37	-0.03	0.37	
23378.00	89.480	161.000	6937.34	16284.86	-15223.04	5813.12	1704703.90	14339190.22	39°29'11.7852"N	80°46'19.7320"W	16295.19	159.100	0.06	-0.03	-0.05	
23473.00	89.450	161.240	6938.23	16379.86	-15312.92	5843.86	1704734.62	14339100.38	39°29'10.8960"N	80°46'19.3429"W	16390.13	159.112	0.25	-0.03	0.25	
23567.00	89.540	160.740	6939.05	16473.85	-15401.79	5874.48	1704765.23	14339011.54	39°29'10.0169"N	80°46'18.9552"W	16484.07	159.122	0.54	0.10	-0.53	
23662.00	89.540	161.080	6939.82	16568.85	-15491.56	5905.55	1704796.28	14338921.80	39°29'9.1289"N	80°46'18.5619"W	16579.02	159.133	0.36	0.00	0.36	
23756.00	89.540	161.260	6940.57	16662.84	-15580.53	5935.88	1704826.61	14338832.87	39°29'8.2489"N	80°46'18.1778"W	16672.96	159.144	0.19	0.00	0.19	
23850.00	89.600	161.380	6941.28	16756.84	-15669.57	5965.99	1704856.70	14338743.86	39°29'7.3681"N	80°46'17.7967"W	16766.89	159.156	0.14	0.06	0.13	
23945.00	89.570	161.330	6941.96	16851.84	-15759.59	5996.36	1704887.06	14338653.89	39°29'6.4777"N	80°46'17.4123"W	16861.82	159.169	0.06	-0.03	-0.05	
24040.00	89.450	161.090	6942.78	16946.83	-15849.52	6026.96	1704917.65	14338563.99	39°29'5.5881"N	80°46'17.0249"W	16956.75	159.180	0.28	-0.13	-0.25	
24134.00	89.600	161.610	6943.56	17040.83	-15938.58	6057.02	1704947.70	14338474.96	39°29'4.7071"N	80°46'16.6444"W	17050.68	159.192	0.58	0.16	0.55	
24176.00	89.690	161.410	6943.82	17082.83	-15978.41	6070.34	1704961.01	14338435.15	39°29'4.3131"N	80°46'16.4759"W	17092.65	159.198	0.52	0.21	-0.48	
24201.00‡	89.690	161.410	6943.95	17107.83	-16002.11	6078.31	1704968.98	14338411.46	39°29'4.0787"N	80°46'16.3750"W	17117.63	159.201	0.00	0.00	0.00	Projected MD at TD: 24201'

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

HOLE & CASING SECTIONS - Ref Wellbore: Marcellina Unit 2H AWB Ref Wellpath: Marcellina Unit 2H AWP Proj: 24201'									
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	126.00	100.50	25.50	126.00	0.00	0.00	0.07	-0.10
17.5in Open Hole	126.00	457.00	331.00	126.00	456.99	0.07	-0.10	1.58	0.09
13.375in Casing Surface	25.50	438.00	412.50	25.50	437.99	0.00	0.00	1.23	-0.04
12.25in Open Hole	457.00	3488.00	3031.00	456.99	3485.08	1.58	0.09	58.12	-29.65
9.625in Casing Intermediate	25.50	3458.00	3432.50	25.50	3455.09	0.00	0.00	58.15	-29.45
8.75in Open Hole	3488.00	6025.00	2537.00	3485.08	5955.15	58.12	-29.65	525.01	273.75
8.5in Open Hole	6025.00	24201.00	18176.00	5955.15	6943.95	525.01	273.75	-16002.11	6078.31
5.5in Casing Production	25.50	24181.00	24155.50	25.50	6943.84	0.00	0.00	-15983.15	6071.93

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# Actual Wellpath Report

Marcellina Unit 2H AWP Proj: 24201'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Marcellina Unit 2H POE Rev-3	6858.00	94.02	579.05	1699471.91	14354501.18	39°31'43.2940"N	80°47'26.0344"W	point
Marcellina Unit 2H BHL Rev-3	6885.00	-16173.85	6137.59	1705028.24	14338239.79	39°29'2.3798"N	80°46'15.6244"W	point
Marcellina Unit 2H BHL Rev-4	6885.00	-16030.11	6088.48	1704979.15	14338383.47	39°29'3.8017"N	80°46'16.2461"W	point
Marcellina Unit 2H LP Rev-3	6885.00	-90.31	642.03	1699534.87	14354316.92	39°31'41.4707"N	80°47'25.2361"W	point
Marcellina Unit 2H 50' L/R Hard Line Rev-2	7000.00	-7968.05	3333.76	1702225.52	14346442.32	39°30'23.5494"N	80°46'51.1293"W	rectangle
2D Rectangle 17039.4 x 100.								

## WELLPATH COMPOSITION - Ref Wellbore: Marcellina Unit 2H AWB Ref Wellpath: Marcellina Unit 2H AWP Proj: 24201'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	374.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-374')	Marcellina Unit 2H AWB	2/3/2023
374.00	3397.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (374')(500'-3397')	Marcellina Unit 2H AWB	2/3/2023
3397.00	5949.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3397')(3494'-5949')	Marcellina Unit 2H AWB	3/1/2023
5949.00	24201.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (5949')(5997'-24176')	Marcellina Unit 2H AWB	3/1/2023

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Marcellina Unit 2H AWP Proj: 24201'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 2H
Field	Tyler	API	47-095-02830-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 2H AWB
Slot	Slot 2E		

## COMMENTS

### Wellpath general comments

API: 47-095-02830-0000  
BH Job #: 111653780  
Rig: H&P 317  
Duration: 3/4/2023-3/8/2023  
Gyrodata MS Gyro <17-1/2"> (100'-374')  
APS EM <12-1/4"> (374')(500'-3397')  
APS EM <8-3/4"> (3397')(3494'-5949')  
BH AT Curve <8-1/2"> (5949')(5997'-24176')  
Sycamore: 6656' MD  
Middlesex: 6802' MD  
Burkett: 6951' MD  
Tully: 7010' MD  
Marcellus POE: 7175' MD  
Projected MD at TD: 24201'

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