



ANTERO RESOURCES CORPORATION



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

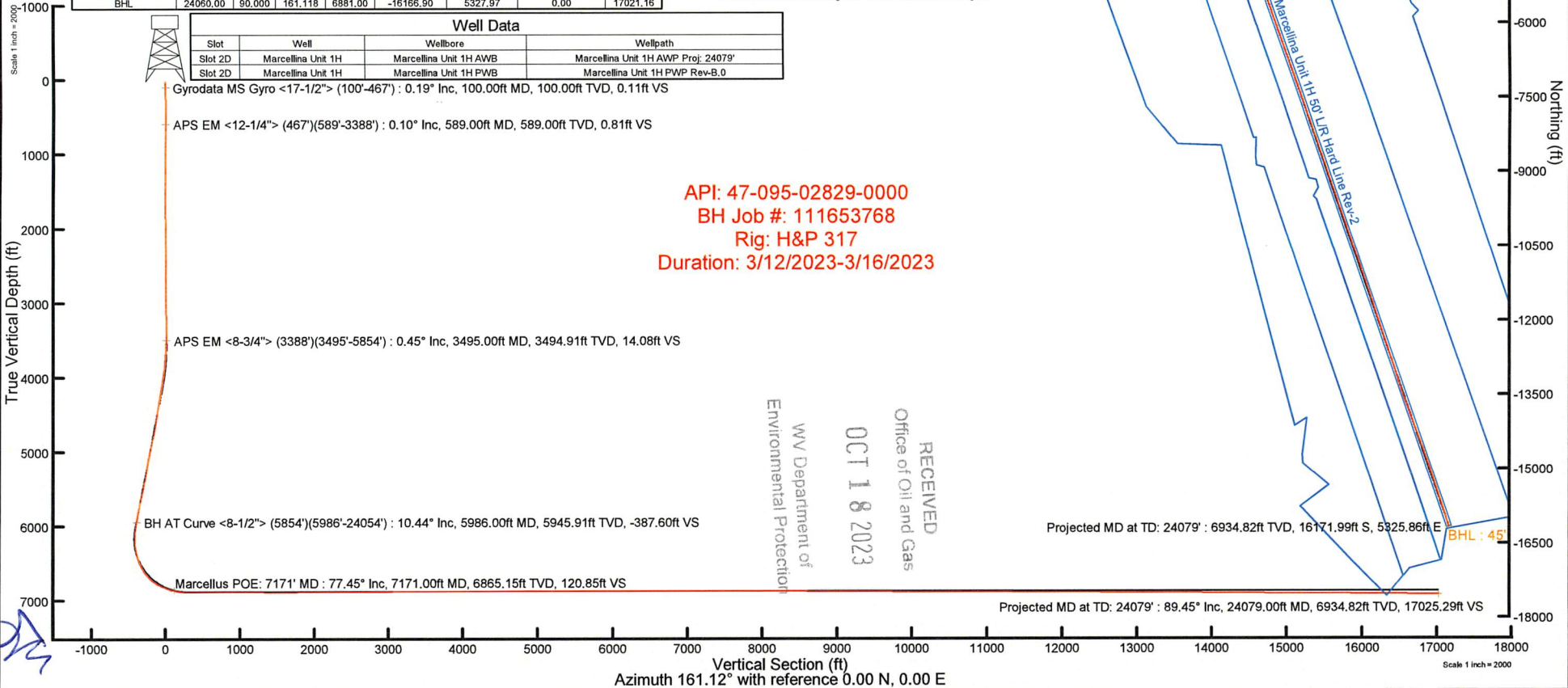
Slot: Slot 2D
Well: Marcellina Unit 1H
Wellbore: Marcellina Unit 1H PWB

Plot reference wellpath is Marcellina Unit 1H PWP 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: 1225.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot 2D): -1200 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edslaryar on 2023-04-26; Database: WA_MPL_EASTERNJS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Thin Air Pad	1698787.140	14354225.910	39°31'40.5880"N	80°47'34.7850"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot 2D	172.73	93.63	1698880.730	14354398.570	39°31'42.2930"N 80°47'33.5850"W
Comment	Marcellina Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot 2D)	25.5ft				
Mean Sea Level to Ground level (At Slot: Slot 2D)	-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	3388.00	0.680	85.600	3387.92	-10.32	13.76	0.04	14.22
Proj. to Bottom	3465.00	0.680	85.600	3464.91	-10.25	14.67	0.00	14.45
KOP 1	3545.00	0.680	85.600	3544.91	-10.18	15.62	0.00	14.69
End of 3D Arc	4148.87	11.673	320.447	4144.73	37.37	-19.84	2.00	-41.78
Curve KOP	6074.27	11.673	320.447	6030.31	337.74	-267.91	0.00	-406.26
POE	7131.69	73.639	161.118	6852.00	-152.19	-149.53	8.00	95.62
Landing Pt.	7396.20	90.000	161.118	6881.00	-343.07	-84.24	8.00	297.36
BHL	24060.00	90.000	161.118	6881.00	-16166.90	5327.97	0.00	17021.16

Well Data			
Slot	Well	Wellbore	Wellpath
Slot 2D	Marcellina Unit 1H	Marcellina Unit 1H AWB	Marcellina Unit 1H AWP Proj: 24079'
Slot 2D	Marcellina Unit 1H	Marcellina Unit 1H PWB	Marcellina Unit 1H PWP Rev-B.0





Actual Wellpath Report

Marcellina Unit 1H AWP Proj: 24079'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

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	4/26/2023 at 5:58:58 PM
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	172.73	93.63	1698880.73	14354398.57	39°31'42.2930"N	80°47'33.5850"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 2D)	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	161.12°

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Marcellina Unit 1H AWP Proj: 24079'

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Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

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†	0.000	137.180	0.00	0.00	0.00	0.00	1698880.73	14354398.57	39°31'42.2930"N	80°47'33.5850"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	137.180	25.50	0.00	0.00	0.00	1698880.73	14354398.57	39°31'42.2930"N	80°47'33.5850"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.190	137.180	100.00	0.11	-0.09	0.08	1698880.81	14354398.48	39°31'42.2921"N	80°47'33.5840"W	0.12	137.180	0.26	0.26	0.00	Gyrodata MS Gyro <17-1/2"> (100'-467')
200.00	0.090	129.040	200.00	0.33	-0.26	0.26	1698880.99	14354398.31	39°31'42.2904"N	80°47'33.5818"W	0.37	135.445	0.10	-0.10	-8.14	
300.00	0.110	201.200	300.00	0.47	-0.40	0.28	1698881.01	14354398.17	39°31'42.2890"N	80°47'33.5814"W	0.49	144.675	0.12	0.02	72.16	
400.00	0.170	232.700	400.00	0.59	-0.58	0.13	1698880.86	14354397.99	39°31'42.2873"N	80°47'33.5834"W	0.59	167.253	0.10	0.06	31.50	
467.00	0.090	217.340	467.00	0.65	-0.68	0.02	1698880.75	14354397.89	39°31'42.2863"N	80°47'33.5848"W	0.68	178.300	0.13	-0.12	-22.93	
589.00	0.100	142.680	589.00	0.81	-0.84	0.03	1698880.76	14354397.73	39°31'42.2847"N	80°47'33.5847"W	0.84	178.188	0.09	0.01	-61.20	APS EM <12-1/4"> (467')(589'-3388')
679.00	0.240	184.030	679.00	1.05	-1.09	0.06	1698880.79	14354397.48	39°31'42.2822"N	80°47'33.5843"W	1.10	176.805	0.20	0.16	45.94	
769.00	0.160	133.300	769.00	1.34	-1.37	0.14	1698880.87	14354397.20	39°31'42.2795"N	80°47'33.5833"W	1.37	174.187	0.21	-0.09	-56.37	
858.00	0.040	144.850	858.00	1.48	-1.48	0.25	1698880.98	14354397.09	39°31'42.2784"N	80°47'33.5819"W	1.50	170.493	0.14	-0.13	12.98	
948.00	0.170	107.830	948.00	1.59	-1.54	0.39	1698881.12	14354397.03	39°31'42.2777"N	80°47'33.5801"W	1.59	165.736	0.16	0.14	-41.13	
1037.00	0.270	154.520	1037.00	1.88	-1.77	0.61	1698881.34	14354396.80	39°31'42.2755"N	80°47'33.5773"W	1.88	161.069	0.22	0.11	52.46	
1126.00	0.310	132.790	1126.00	2.30	-2.13	0.88	1698881.61	14354396.44	39°31'42.2720"N	80°47'33.5739"W	2.30	157.630	0.13	0.04	-24.42	
1226.00	0.360	139.340	1225.99	2.83	-2.55	1.28	1698882.01	14354396.02	39°31'42.2678"N	80°47'33.5688"W	2.85	153.363	0.06	0.05	6.55	
1321.00	0.400	162.690	1320.99	3.43	-3.09	1.57	1698882.30	14354395.48	39°31'42.2624"N	80°47'33.5651"W	3.47	153.056	0.17	0.04	24.58	
1416.00	0.360	174.490	1415.99	4.06	-3.71	1.70	1698882.43	14354394.87	39°31'42.2563"N	80°47'33.5635"W	4.08	155.369	0.09	-0.04	12.42	
1510.00	0.410	175.650	1509.99	4.67	-4.34	1.75	1698882.48	14354394.24	39°31'42.2501"N	80°47'33.5628"W	4.68	157.984	0.05	0.05	1.23	
1604.00	0.370	180.500	1603.99	5.28	-4.97	1.78	1698882.51	14354393.60	39°31'42.2438"N	80°47'33.5625"W	5.28	160.352	0.06	-0.04	5.16	
1699.00	0.410	198.890	1698.98	5.84	-5.60	1.66	1698882.39	14354392.97	39°31'42.2376"N	80°47'33.5640"W	5.84	163.466	0.14	0.04	19.36	
1793.00	0.500	179.090	1792.98	6.50	-6.33	1.56	1698882.29	14354392.24	39°31'42.2304"N	80°47'33.5653"W	6.52	166.150	0.19	0.10	-21.06	
1887.00	0.500	158.070	1886.98	7.30	-7.12	1.72	1698882.45	14354391.45	39°31'42.2226"N	80°47'33.5633"W	7.33	166.418	0.19	0.00	-22.36	
1982.00	0.410	150.000	1981.97	8.04	-7.80	2.05	1698882.77	14354390.77	39°31'42.2159"N	80°47'33.5592"W	8.06	165.307	0.12	-0.09	-8.49	
2076.00	0.450	100.650	2075.97	8.55	-8.16	2.58	1698883.31	14354390.41	39°31'42.2123"N	80°47'33.5524"W	8.56	162.478	0.38	0.04	-52.50	
2170.00	0.530	121.810	2169.97	9.07	-8.46	3.31	1698884.04	14354390.12	39°31'42.2093"N	80°47'33.5431"W	9.08	158.635	0.21	0.09	22.51	
2264.00	0.580	106.520	2263.96	9.68	-8.82	4.13	1698884.86	14354389.75	39°31'42.2057"N	80°47'33.5325"W	9.74	154.891	0.17	0.05	-16.27	
2359.00	0.440	118.660	2358.96	10.23	-9.13	4.92	1698885.64	14354389.44	39°31'42.2026"N	80°47'33.5226"W	10.37	151.713	0.19	-0.15	12.78	
2453.00	0.580	110.700	2452.96	10.80	-9.47	5.68	1698886.40	14354389.10	39°31'42.1992"N	80°47'33.5129"W	11.05	149.071	0.17	0.15	-8.47	
2548.00	0.420	113.420	2547.95	11.34	-9.78	6.45	1698887.17	14354388.79	39°31'42.1962"N	80°47'33.5031"W	11.72	146.618	0.17	-0.17	2.86	
2642.00	0.440	107.300	2641.95	11.79	-10.03	7.11	1698887.83	14354388.55	39°31'42.1937"N	80°47'33.4946"W	12.29	144.673	0.05	0.02	-6.51	

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Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

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	
2736.00	0.440	111.690	2735.95	12.24	-10.27	7.79	1698888.51	14354388.31	39°31'42.1913"N	80°47'33.4860"W	12.89	142.825	0.04	0.00	4.67		
2831.00	0.400	94.490	2830.95	12.60	-10.43	8.46	1698889.18	14354388.15	39°31'42.1897"N	80°47'33.4774"W	13.43	140.962	0.14	-0.04	-18.11		
2925.00	0.530	94.980	2924.94	12.91	-10.49	9.22	1698889.94	14354388.08	39°31'42.1891"N	80°47'33.4677"W	13.97	138.703	0.14	0.14	0.52		
3020.00	0.460	89.890	3019.94	13.21	-10.53	10.04	1698890.76	14354388.04	39°31'42.1887"N	80°47'33.4573"W	14.55	136.376	0.09	-0.07	-5.36		
3114.00	0.520	101.480	3113.94	13.55	-10.61	10.83	1698891.56	14354387.96	39°31'42.1879"N	80°47'33.4471"W	15.16	134.419	0.12	0.06	12.33		
3208.00	0.610	77.290	3207.93	13.82	-10.59	11.74	1698892.46	14354387.99	39°31'42.1881"N	80°47'33.4356"W	15.81	132.055	0.27	0.10	-25.73		
3303.00	0.660	83.550	3302.92	13.99	-10.42	12.77	1698893.50	14354388.16	39°31'42.1898"N	80°47'33.4223"W	16.48	129.193	0.09	0.05	6.59		
3388.00	0.680	85.600	3387.92	14.22	-10.32	13.76	1698894.49	14354388.25	39°31'42.1907"N	80°47'33.4097"W	17.20	126.869	0.04	0.02	2.41		
3495.00	0.450	26.040	3494.91	14.08	-9.90	14.58	1698895.31	14354388.68	39°31'42.1949"N	80°47'33.3992"W	17.62	124.164	0.56	-0.21	-55.66	APS EM <8-3/4"> (3388')(3495'-5854')	
3590.00	2.260	3.990	3589.88	12.09	-7.69	14.88	1698895.60	14354390.88	39°31'42.2166"N	80°47'33.3954"W	16.75	117.343	1.95	1.91	-23.21		
3684.00	5.040	331.370	3683.69	6.31	-2.22	13.03	1698893.75	14354396.35	39°31'42.2708"N	80°47'33.4189"W	13.21	99.661	3.58	2.96	-34.70		
3778.00	5.110	325.290	3777.33	-1.78	4.85	8.66	1698889.39	14354403.42	39°31'42.3407"N	80°47'33.4743"W	9.93	60.767	0.58	0.07	-6.47		
3872.00	6.520	321.380	3870.84	-10.84	12.46	2.95	1698883.68	14354411.02	39°31'42.4161"N	80°47'33.5470"W	12.80	13.312	1.56	1.50	-4.16		
3967.00	8.590	321.410	3965.01	-22.59	22.22	-4.84	1698875.89	14354420.78	39°31'42.5127"N	80°47'33.6462"W	22.74	347.701	2.18	2.18	0.03		
4061.00	8.320	320.220	4057.99	-35.55	32.93	-13.57	1698867.16	14354431.49	39°31'42.6188"N	80°47'33.7573"W	35.62	337.599	0.34	-0.29	-1.27		
4155.00	10.030	317.280	4150.78	-49.40	44.18	-23.48	1698857.26	14354442.73	39°31'42.7301"N	80°47'33.8834"W	50.03	332.008	1.89	1.82	-3.13		
4250.00	10.540	314.000	4244.26	-64.70	56.29	-35.34	1698845.40	14354454.84	39°31'42.8501"N	80°47'34.0344"W	66.46	327.876	0.82	0.54	-3.45		
4344.00	11.480	316.290	4336.53	-80.84	69.02	-47.99	1698832.76	14354467.57	39°31'42.9763"N	80°47'34.1955"W	84.07	325.189	1.10	1.00	2.44		
4439.00	10.890	315.470	4429.72	-97.51	82.25	-60.82	1698819.94	14354480.79	39°31'43.1073"N	80°47'34.3588"W	102.30	323.521	0.64	-0.62	-0.86		
4533.00	9.620	316.960	4522.22	-112.68	94.33	-72.41	1698808.35	14354492.86	39°31'43.2269"N	80°47'34.5063"W	118.91	322.489	1.38	-1.35	1.59		
4628.00	9.370	326.070	4615.92	-127.39	106.54	-82.14	1698798.62	14354505.07	39°31'43.3479"N	80°47'34.6302"W	134.53	322.369	1.60	-0.26	9.59		
4722.00	11.110	328.220	4708.42	-143.61	120.59	-91.18	1698789.58	14354519.12	39°31'43.4869"N	80°47'34.7452"W	151.19	322.906	1.89	1.85	2.29		
4816.00	13.180	327.510	4800.31	-162.86	137.33	-101.71	1698779.06	14354535.85	39°31'43.6526"N	80°47'34.8790"W	170.90	323.476	2.21	2.20	-0.76		
4911.00	11.920	324.490	4893.04	-182.78	154.46	-113.23	1698767.55	14354552.96	39°31'43.8221"N	80°47'35.0255"W	191.51	323.756	1.49	-1.33	-3.18		
5005.00	13.190	322.490	4984.79	-202.25	170.87	-125.40	1698755.38	14354569.37	39°31'43.9846"N	80°47'35.1803"W	211.94	323.726	1.43	1.35	-2.13		
5100.00	12.170	320.440	5077.47	-221.89	187.18	-138.37	1698742.41	14354585.68	39°31'44.1461"N	80°47'35.3455"W	232.78	323.527	1.17	-1.07	-2.16		
5194.00	9.740	317.840	5169.76	-238.47	200.72	-150.02	1698730.77	14354599.21	39°31'44.2802"N	80°47'35.4937"W	250.59	323.225	2.64	-2.59	-2.77		
5289.00	10.230	322.280	5263.32	-253.83	213.35	-160.58	1698720.22	14354611.83	39°31'44.4052"N	80°47'35.6281"W	267.03	323.033	0.96	0.52	4.67		
5383.00	11.480	328.140	5355.64	-270.85	227.90	-170.62	1698710.17	14354626.38	39°31'44.5493"N	80°47'35.7558"W	284.69	323.178	1.77	1.33	6.23		
5478.00	10.840	326.170	5448.84	-288.69	243.35	-180.59	1698700.22	14354641.82	39°31'44.7022"N	80°47'35.8825"W	303.03	323.421	0.78	-0.67	-2.07		

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Field	Tyler		API	47-095-02829-0000
Facility	Thin Air Pad		Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D			

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5573.00	11.460	327.560	5542.05	-306.50	258.73	-190.62	1698690.18	14354657.20	39°31'44.8545"N	80°47'36.0102"W	321.37	323.619	0.71	0.65	1.46	
5667.00	13.600	326.680	5633.80	-326.28	275.85	-201.70	1698679.11	14354674.31	39°31'45.0239"N	80°47'36.1511"W	341.73	323.826	2.29	2.28	-0.94	
5761.00	12.850	320.550	5725.31	-346.77	293.16	-214.42	1698666.40	14354691.61	39°31'45.1953"N	80°47'36.3128"W	363.20	323.818	1.69	-0.80	-6.52	
5854.00	11.240	319.460	5816.26	-364.88	308.03	-226.88	1698653.94	14354706.48	39°31'45.3425"N	80°47'36.4714"W	382.57	323.627	1.75	-1.73	-1.17	
5986.00	10.440	315.280	5945.91	-387.60	326.31	-243.66	1698637.17	14354724.75	39°31'45.5235"N	80°47'36.6850"W	407.24	323.251	0.85	-0.61	-3.17	BH AT Curve <8-1/2"> (5854')(5986'-24054')
6081.00	9.500	308.030	6039.48	-401.91	337.26	-255.89	1698624.94	14354735.69	39°31'45.6320"N	80°47'36.8408"W	423.34	322.811	1.65	-0.99	-7.63	
6175.00	5.710	264.250	6132.70	-409.48	341.57	-266.67	1698614.17	14354740.00	39°31'45.6749"N	80°47'36.9782"W	433.34	322.021	7.09	-4.03	-46.57	
6269.00	7.740	231.510	6226.09	-408.42	337.16	-276.28	1698604.56	14354735.60	39°31'45.6315"N	80°47'37.1010"W	435.90	320.668	4.53	2.16	-34.83	
6364.00	12.340	194.230	6319.70	-397.75	323.32	-283.79	1698597.05	14354721.76	39°31'45.4949"N	80°47'37.1973"W	430.20	318.725	8.14	4.84	-39.24	
6458.00	17.030	185.230	6410.61	-376.76	299.86	-287.52	1698593.33	14354698.31	39°31'45.2631"N	80°47'37.2455"W	415.43	316.204	5.53	4.99	-9.57	
6552.00	23.570	166.560	6498.82	-345.42	267.80	-284.40	1698596.45	14354666.27	39°31'44.9462"N	80°47'37.2067"W	390.64	313.279	9.71	6.96	-19.86	
6618.00†	28.790	162.770	6558.03	-316.38	239.77	-276.62	1698604.22	14354638.24	39°31'44.6690"N	80°47'37.1082"W	366.07	310.918	8.30	7.91	-5.74	Sycamore: 6618' MD
6647.00	31.110	161.480	6583.16	-301.90	225.99	-272.17	1698608.67	14354624.47	39°31'44.5327"N	80°47'37.0518"W	353.76	309.704	8.30	8.00	-4.45	
6741.00	39.260	161.680	6659.92	-247.79	174.64	-255.08	1698625.76	14354573.14	39°31'44.0248"N	80°47'36.8352"W	309.13	304.398	8.67	8.67	0.21	
6760.00†	41.490	162.354	6674.39	-235.48	162.94	-251.28	1698629.55	14354561.44	39°31'43.9091"N	80°47'36.7871"W	299.48	302.961	11.96	11.74	3.55	Middlesex: 6760' MD
6836.00	50.440	164.560	6727.17	-180.95	110.60	-235.82	1698645.01	14354509.12	39°31'43.3914"N	80°47'36.5913"W	260.46	295.127	11.96	11.78	2.90	
6912.00†	58.516	163.627	6771.29	-119.23	51.17	-218.85	1698661.96	14354449.72	39°31'42.8037"N	80°47'36.3765"W	224.75	283.159	10.67	10.63	-1.23	Burkett: 6912' MD
6930.00	60.430	163.430	6780.43	-103.74	36.30	-214.46	1698666.36	14354434.86	39°31'42.6566"N	80°47'36.3208"W	217.51	279.607	10.67	10.63	-1.09	
6974.00†	63.777	162.746	6801.02	-64.88	-0.90	-203.14	1698677.67	14354397.67	39°31'42.2887"N	80°47'36.1775"W	203.14	269.747	7.73	7.61	-1.56	Tully: 6974' MD
7025.00	67.660	162.000	6821.98	-18.42	-45.19	-189.06	1698691.74	14354353.39	39°31'41.8506"N	80°47'35.9992"W	194.39	256.556	7.73	7.61	-1.46	
7119.00	74.420	161.970	6852.51	70.42	-129.69	-161.58	1698719.21	14354268.93	39°31'41.0150"N	80°47'35.6510"W	207.19	231.250	7.19	7.19	-0.03	
7171.00†	77.447	161.882	6865.15	120.85	-177.63	-145.94	1698734.85	14354221.01	39°31'40.5407"N	80°47'35.4527"W	229.89	219.405	5.82	5.82	-0.17	Marcellus POE: 7171' MD
7214.00	79.950	161.810	6873.57	163.01	-217.70	-132.80	1698747.98	14354180.96	39°31'40.1445"N	80°47'35.2862"W	255.01	211.384	5.82	5.82	-0.17	
7308.00	85.040	161.610	6885.85	256.17	-306.15	-103.56	1698777.21	14354092.54	39°31'39.2696"N	80°47'34.9157"W	323.20	198.689	5.42	5.41	-0.21	
7402.00	90.220	161.510	6889.73	350.06	-395.22	-73.86	1698806.90	14354003.51	39°31'38.3886"N	80°47'34.5393"W	402.06	190.586	5.51	5.51	-0.11	
7497.00	89.880	161.570	6889.65	445.05	-485.33	-43.78	1698836.97	14353913.43	39°31'37.4973"N	80°47'34.1580"W	487.30	185.155	0.36	-0.36	0.06	
7591.00	90.120	161.740	6889.65	539.05	-574.56	-14.20	1698866.54	14353824.24	39°31'36.6148"N	80°47'33.7831"W	574.73	181.415	0.31	0.26	0.18	
7686.00	90.120	161.690	6889.45	634.04	-664.76	15.61	1698896.33	14353734.08	39°31'35.7227"N	80°47'33.4054"W	664.94	178.655	0.05	0.00	-0.05	
7780.00	89.630	161.530	6889.65	728.04	-753.96	45.26	1698925.98	14353644.91	39°31'34.8404"N	80°47'33.0296"W	755.31	176.564	0.55	-0.52	-0.17	
7875.00	90.120	161.910	6889.86	823.03	-844.16	75.06	1698955.76	14353554.74	39°31'33.9482"N	80°47'32.6520"W	847.49	174.919	0.65	0.52	0.40	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

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
7969.00	90.310	162.140	6889.51	917.02	-933.57	104.07	1698984.76	14353465.37	39°31'33.0639"N	80°47'32.2844"W	939.36	173.639	0.32	0.20	0.24	
8064.00	89.970	160.940	6889.28	1012.02	-1023.68	134.15	1699014.83	14353375.29	39°31'32.1726"N	80°47'31.9032"W	1032.44	172.534	1.31	-0.36	-1.26	
8158.00	89.480	159.110	6889.73	1105.99	-1112.02	166.26	1699046.92	14353286.99	39°31'31.2988"N	80°47'31.4960"W	1124.38	171.497	2.02	-0.52	-1.95	
8253.00	89.420	158.430	6890.64	1200.91	-1200.57	200.66	1699081.31	14353198.48	39°31'30.4228"N	80°47'31.0597"W	1217.22	170.512	0.72	-0.06	-0.72	
8347.00	89.720	160.790	6891.35	1294.87	-1288.67	233.41	1699114.04	14353110.41	39°31'29.5514"N	80°47'30.6444"W	1309.64	169.734	2.53	0.32	2.51	
8442.00	89.940	161.960	6891.63	1389.86	-1378.70	263.75	1699144.37	14353020.42	39°31'28.6609"N	80°47'30.2598"W	1403.70	169.170	1.25	0.23	1.23	
8537.00	90.060	162.190	6891.63	1484.85	-1469.08	292.98	1699173.60	14352930.07	39°31'27.7669"N	80°47'29.8894"W	1498.01	168.721	0.27	0.13	0.24	
8631.00	89.660	161.100	6891.86	1578.85	-1558.30	322.58	1699203.19	14352840.89	39°31'26.8845"N	80°47'29.5143"W	1591.34	168.304	1.24	-0.43	-1.16	
8726.00	89.880	160.810	6892.24	1673.84	-1648.10	353.58	1699234.17	14352751.13	39°31'25.9963"N	80°47'29.1214"W	1685.60	167.891	0.38	0.23	-0.31	
8820.00	90.800	161.220	6891.68	1767.84	-1736.98	384.16	1699264.74	14352662.28	39°31'25.1171"N	80°47'28.7338"W	1778.96	167.529	1.07	0.98	0.44	
8915.00	90.340	161.960	6890.74	1862.83	-1827.12	414.16	1699294.73	14352572.18	39°31'24.2256"N	80°47'28.3536"W	1873.47	167.228	0.92	-0.48	0.78	
9010.00	90.090	161.950	6890.38	1957.82	-1917.44	443.59	1699324.14	14352481.89	39°31'23.3322"N	80°47'27.9808"W	1968.08	166.974	0.26	-0.26	-0.01	
9104.00	90.490	161.220	6889.90	2051.82	-2006.63	473.28	1699353.83	14352392.74	39°31'22.4501"N	80°47'27.6045"W	2061.69	166.729	0.89	0.43	-0.78	
9199.00	90.120	161.280	6889.40	2146.81	-2096.58	503.82	1699384.35	14352302.82	39°31'21.5603"N	80°47'27.2175"W	2156.27	166.488	0.39	-0.39	0.06	
9293.00	90.060	160.760	6889.25	2240.81	-2185.47	534.39	1699414.91	14352213.97	39°31'20.6811"N	80°47'26.8300"W	2249.86	166.260	0.56	-0.06	-0.55	
9388.00	90.250	161.060	6888.99	2335.81	-2275.25	565.46	1699445.97	14352124.23	39°31'19.7931"N	80°47'26.4362"W	2344.46	166.043	0.37	0.20	0.32	
9482.00	90.430	161.380	6888.43	2429.81	-2364.24	595.72	1699476.22	14352035.27	39°31'18.9129"N	80°47'26.0527"W	2438.14	165.857	0.39	0.19	0.34	
9577.00	90.000	160.500	6888.08	2524.81	-2454.03	626.75	1699507.23	14351945.51	39°31'18.0248"N	80°47'25.6595"W	2532.80	165.673	1.03	-0.45	-0.93	
9671.00	90.250	160.870	6887.87	2618.81	-2542.74	657.84	1699538.31	14351856.84	39°31'17.1473"N	80°47'25.2653"W	2626.46	165.495	0.48	0.27	0.39	
9766.00	90.090	161.310	6887.59	2713.80	-2632.61	688.63	1699569.08	14351767.01	39°31'16.2584"N	80°47'24.8751"W	2721.19	165.341	0.49	-0.17	0.46	
9860.00	90.490	161.590	6887.12	2807.80	-2721.73	718.53	1699598.97	14351677.93	39°31'15.3769"N	80°47'24.4962"W	2814.98	165.211	0.52	0.43	0.30	
9955.00	89.970	161.180	6886.73	2902.80	-2811.76	748.85	1699629.29	14351587.93	39°31'14.4864"N	80°47'24.1119"W	2909.77	165.087	0.70	-0.55	-0.43	
10050.00	91.110	162.170	6885.84	2997.79	-2901.93	778.72	1699659.14	14351497.79	39°31'13.5945"N	80°47'23.7335"W	3004.60	164.979	1.59	1.20	1.04	
10144.00	90.370	161.500	6884.62	3091.77	-2991.24	808.02	1699688.43	14351408.52	39°31'12.7112"N	80°47'23.3623"W	3098.45	164.884	1.06	-0.79	-0.71	
10238.00	90.000	160.950	6884.32	3185.77	-3080.24	838.28	1699718.67	14351319.56	39°31'11.8309"N	80°47'22.9789"W	3192.27	164.776	0.71	-0.39	-0.59	
10333.00	90.400	162.680	6883.99	3280.76	-3170.49	867.92	1699748.31	14351229.34	39°31'10.9383"N	80°47'22.6032"W	3287.14	164.690	1.87	0.42	1.82	
10427.00	90.340	161.370	6883.38	3374.74	-3259.90	896.93	1699777.30	14351139.97	39°31'10.0539"N	80°47'22.2358"W	3381.04	164.616	1.40	-0.06	-1.39	
10521.00	90.280	160.990	6882.87	3468.74	-3348.87	927.25	1699807.61	14351051.03	39°31'9.1739"N	80°47'21.8515"W	3474.87	164.523	0.41	-0.06	-0.40	
10616.00	90.710	161.520	6882.05	3563.74	-3438.83	957.78	1699838.13	14350961.11	39°31'8.2841"N	80°47'21.4646"W	3569.72	164.436	0.72	0.45	0.56	
10710.00	89.600	159.960	6881.80	3657.73	-3527.56	988.79	1699869.12	14350872.41	39°31'7.4064"N	80°47'21.0717"W	3663.52	164.342	2.04	-1.18	-1.66	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

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
10805.00	90.650	161.970	6881.59	3752.72	-3617.36	1019.77	1699900.09	14350782.65	39°31'6.5182"N	80°47'20.6790"W	3758.35	164.256	2.39	1.11	2.12	
10899.00	89.910	161.060	6881.13	3846.72	-3706.51	1049.57	1699929.88	14350693.54	39°31'5.6364"N	80°47'20.3014"W	3852.25	164.189	1.25	-0.79	-0.97	
10993.00	90.060	160.030	6881.16	3940.71	-3795.14	1080.88	1699961.18	14350604.94	39°31'4.7597"N	80°47'19.9046"W	3946.06	164.103	1.11	0.16	-1.10	
11088.00	90.090	161.300	6881.03	4035.71	-3884.78	1112.33	1699992.62	14350515.34	39°31'3.8730"N	80°47'19.5059"W	4040.89	164.022	1.34	0.03	1.34	
11182.00	89.970	160.220	6880.98	4129.70	-3973.53	1143.31	1700023.58	14350426.62	39°31'2.9952"N	80°47'19.1133"W	4134.74	163.948	1.16	-0.13	-1.15	
11276.00	90.310	161.070	6880.75	4223.70	-4062.21	1174.46	1700054.72	14350337.97	39°31'2.1180"N	80°47'18.7185"W	4228.59	163.874	0.97	0.36	0.90	
11370.00	90.090	160.860	6880.43	4317.70	-4151.07	1205.12	1700085.37	14350249.15	39°31'1.2390"N	80°47'18.3299"W	4322.47	163.811	0.32	-0.23	-0.22	
11465.00	90.220	161.500	6880.17	4412.70	-4240.99	1235.76	1700116.00	14350159.27	39°31'0.3496"N	80°47'17.9416"W	4417.37	163.755	0.69	0.14	0.67	
11559.00	90.400	160.950	6879.66	4506.70	-4329.99	1266.02	1700146.24	14350070.30	39°30'59.4693"N	80°47'17.5582"W	4511.28	163.702	0.62	0.19	-0.59	
11654.00	90.490	161.590	6878.92	4601.69	-4419.96	1296.52	1700176.73	14349980.37	39°30'58.5795"N	80°47'17.1717"W	4606.19	163.652	0.68	0.09	0.67	
11749.00	89.820	160.130	6878.67	4696.69	-4509.70	1327.67	1700207.87	14349890.66	39°30'57.6918"N	80°47'16.7770"W	4701.07	163.595	1.69	-0.71	-1.54	
11843.00	90.000	160.880	6878.81	4790.68	-4598.31	1359.04	1700239.23	14349802.09	39°30'56.8153"N	80°47'16.3794"W	4794.94	163.535	0.82	0.19	0.80	
11938.00	89.690	160.150	6879.07	4885.67	-4687.87	1390.73	1700270.90	14349712.57	39°30'55.9294"N	80°47'15.9777"W	4889.81	163.476	0.83	-0.33	-0.77	
12032.00	89.880	160.350	6879.42	4979.66	-4776.34	1422.49	1700302.65	14349624.13	39°30'55.0543"N	80°47'15.5751"W	4983.66	163.415	0.29	0.20	0.21	
12127.00	90.150	161.730	6879.40	5074.66	-4866.18	1453.36	1700333.51	14349534.32	39°30'54.1656"N	80°47'15.1840"W	5078.58	163.371	1.48	0.28	1.45	
12222.00	90.000	160.060	6879.27	5169.66	-4955.95	1484.45	1700364.59	14349444.60	39°30'53.2777"N	80°47'14.7900"W	5173.49	163.326	1.76	-0.16	-1.76	
12317.00	90.030	160.490	6879.25	5264.65	-5045.37	1516.51	1700396.64	14349355.21	39°30'52.3931"N	80°47'14.3836"W	5268.36	163.271	0.45	0.03	0.45	
12411.00	89.910	159.440	6879.30	5358.63	-5133.68	1548.71	1700428.83	14349266.93	39°30'51.5196"N	80°47'13.9753"W	5362.20	163.213	1.12	-0.13	-1.12	
12506.00	90.280	161.240	6879.14	5453.61	-5223.14	1580.67	1700460.77	14349177.51	39°30'50.6347"N	80°47'13.5702"W	5457.08	163.163	1.93	0.39	1.89	
12601.00	89.910	160.670	6878.98	5548.61	-5312.94	1611.67	1700491.76	14349087.75	39°30'49.7465"N	80°47'13.1774"W	5552.01	163.125	0.72	-0.39	-0.60	
12695.00	89.820	160.130	6879.20	5642.60	-5401.49	1643.21	1700523.28	14348999.23	39°30'48.8705"N	80°47'12.7778"W	5645.91	163.080	0.58	-0.10	-0.57	
12790.00	90.150	160.820	6879.23	5737.60	-5491.03	1674.96	1700555.02	14348909.73	39°30'47.9849"N	80°47'12.3754"W	5740.81	163.036	0.81	0.35	0.73	
12885.00	89.290	159.110	6879.69	5832.57	-5580.27	1707.50	1700587.55	14348820.52	39°30'47.1021"N	80°47'11.9628"W	5835.67	162.986	2.01	-0.91	-1.80	
12979.00	89.780	161.770	6880.46	5926.55	-5668.84	1738.97	1700619.00	14348731.99	39°30'46.2260"N	80°47'11.5640"W	5929.56	162.946	2.88	0.52	2.83	
13074.00	90.030	161.520	6880.61	6021.55	-5759.01	1768.88	1700648.91	14348641.86	39°30'45.3342"N	80°47'11.1850"W	6024.54	162.926	0.37	0.26	-0.26	
13168.00	89.720	161.210	6880.82	6115.55	-5848.08	1798.92	1700678.93	14348552.82	39°30'44.4532"N	80°47'10.8045"W	6118.51	162.902	0.47	-0.33	-0.33	
13263.00	90.000	161.150	6881.05	6210.55	-5938.00	1829.57	1700709.57	14348462.94	39°30'43.5637"N	80°47'10.4162"W	6213.46	162.875	0.30	0.29	-0.06	
13358.00	89.420	160.880	6881.53	6305.55	-6027.83	1860.47	1700740.46	14348373.14	39°30'42.6752"N	80°47'10.0246"W	6308.41	162.847	0.67	-0.61	-0.28	
13452.00	89.750	160.890	6882.21	6399.54	-6116.64	1891.25	1700771.23	14348284.36	39°30'41.7967"N	80°47'9.6346"W	6402.36	162.819	0.35	0.35	0.01	
13547.00	89.780	160.610	6882.60	6494.54	-6206.33	1922.57	1700802.54	14348194.71	39°30'40.9095"N	80°47'9.2377"W	6497.29	162.788	0.30	0.03	-0.29	

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Actual Wellpath Report

Marcellina Unit 1H AWP Proj: 24079'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Marcellina Unit 1H
Field	Tyler		API	47-095-02829-0000
Facility	Thin Air Pad		Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D			

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
13642.00	90.340	161.720	6882.50	6589.54	-6296.24	1953.24	1700833.19	14348104.83	39°30'40.0202"N	80°47'8.8491"W	6592.25	162.765	1.31	0.59	1.17	
13737.00	90.120	161.730	6882.12	6684.53	-6386.45	1983.03	1700862.97	14348014.66	39°30'39.1279"N	80°47'8.4718"W	6687.24	162.750	0.23	-0.23	0.01	
13831.00	89.850	161.430	6882.15	6778.53	-6475.63	2012.73	1700892.66	14347925.51	39°30'38.2458"N	80°47'8.0955"W	6781.22	162.734	0.43	-0.29	-0.32	
13926.00	89.570	160.700	6882.63	6873.53	-6565.49	2043.56	1700923.48	14347835.69	39°30'37.3570"N	80°47'7.7049"W	6876.18	162.711	0.82	-0.29	-0.77	
14020.00	89.570	161.320	6883.33	6967.52	-6654.37	2074.15	1700954.05	14347746.85	39°30'36.4778"N	80°47'7.3174"W	6970.13	162.688	0.66	0.00	0.66	
14115.00	90.120	161.050	6883.59	7062.52	-6744.29	2104.79	1700984.68	14347656.96	39°30'35.5884"N	80°47'6.9292"W	7065.10	162.668	0.64	0.58	-0.28	
14210.00	89.540	161.010	6883.87	7157.52	-6834.13	2135.67	1701015.55	14347567.16	39°30'34.6997"N	80°47'6.5380"W	7160.06	162.646	0.61	-0.61	-0.04	
14305.00	90.120	160.160	6884.15	7252.52	-6923.73	2167.25	1701047.11	14347477.60	39°30'33.8135"N	80°47'6.1378"W	7255.00	162.619	1.08	0.61	-0.89	
14399.00	89.630	160.280	6884.36	7346.50	-7012.18	2199.06	1701078.91	14347389.18	39°30'32.9385"N	80°47'5.7347"W	7348.92	162.588	0.54	-0.52	0.13	
14494.00	90.980	161.890	6883.85	7441.50	-7102.05	2229.85	1701109.69	14347299.35	39°30'32.0496"N	80°47'5.3445"W	7443.88	162.569	2.21	1.42	1.69	
14588.00	89.380	160.970	6883.56	7535.49	-7191.15	2259.78	1701139.61	14347210.28	39°30'31.1683"N	80°47'4.9653"W	7537.85	162.555	1.96	-1.70	-0.98	
14683.00	89.600	160.520	6884.40	7630.48	-7280.83	2291.11	1701170.93	14347120.64	39°30'30.2812"N	80°47'4.5684"W	7632.80	162.532	0.53	0.23	-0.47	
14777.00	90.800	161.490	6884.07	7724.48	-7369.71	2321.70	1701201.51	14347031.79	39°30'29.4021"N	80°47'4.1808"W	7726.77	162.514	1.64	1.28	1.03	
14872.00	89.480	161.040	6883.84	7819.48	-7459.67	2352.22	1701232.01	14346941.87	39°30'28.5122"N	80°47'3.7942"W	7821.74	162.499	1.47	-1.39	-0.47	
14967.00	90.650	160.000	6883.73	7914.47	-7549.23	2383.90	1701263.68	14346852.34	39°30'27.6263"N	80°47'3.3928"W	7916.68	162.475	1.65	1.23	-1.09	
15061.00	89.600	160.940	6883.53	8008.46	-7637.82	2415.32	1701295.09	14346763.79	39°30'26.7500"N	80°47'2.9946"W	8010.62	162.451	1.50	-1.12	1.00	
15155.00	90.120	161.370	6883.76	8102.46	-7726.78	2445.68	1701325.44	14346674.86	39°30'25.8701"N	80°47'2.6100"W	8104.60	162.436	0.72	0.55	0.46	
15250.00	89.850	161.410	6883.78	8197.46	-7816.81	2476.00	1701355.74	14346584.87	39°30'24.9795"N	80°47'2.2259"W	8199.58	162.424	0.29	-0.28	0.04	
15344.00	89.880	158.990	6884.01	8291.44	-7905.25	2507.84	1701387.57	14346496.47	39°30'24.1047"N	80°47'1.8224"W	8293.51	162.399	2.57	0.03	-2.57	
15439.00	89.850	161.140	6884.23	8386.42	-7994.55	2540.23	1701419.95	14346407.20	39°30'23.2214"N	80°47'1.4120"W	8388.42	162.373	2.26	-0.03	2.26	
15533.00	90.090	161.110	6884.28	8480.42	-8083.50	2570.64	1701450.34	14346318.29	39°30'22.3416"N	80°47'1.0267"W	8482.40	162.359	0.26	0.26	-0.03	
15628.00	89.600	160.680	6884.54	8575.42	-8173.26	2601.73	1701481.42	14346228.56	39°30'21.4536"N	80°47'0.6328"W	8577.37	162.343	0.69	-0.52	-0.45	
15723.00	89.450	161.230	6885.32	8670.41	-8263.06	2632.73	1701512.41	14346138.80	39°30'20.5654"N	80°47'0.2401"W	8672.34	162.327	0.60	-0.16	0.58	
15818.00	89.660	160.940	6886.06	8765.41	-8352.93	2663.52	1701543.19	14346048.97	39°30'19.6765"N	80°46'59.8500"W	8767.31	162.314	0.38	0.22	-0.31	
15912.00	89.660	161.090	6886.62	8859.41	-8441.81	2694.10	1701573.76	14345960.12	39°30'18.7973"N	80°46'59.4626"W	8861.29	162.300	0.16	0.00	0.16	
16006.00	90.060	160.800	6886.85	8953.41	-8530.66	2724.79	1701604.44	14345871.30	39°30'17.9184"N	80°46'59.0738"W	8955.26	162.286	0.53	0.43	-0.31	
16101.00	89.780	160.900	6886.98	9048.40	-8620.41	2755.95	1701635.59	14345781.60	39°30'17.0307"N	80°46'58.6790"W	9050.23	162.271	0.31	-0.29	0.11	
16195.00	89.570	161.030	6887.51	9142.40	-8709.26	2786.61	1701666.23	14345692.77	39°30'16.1518"N	80°46'58.2906"W	9144.20	162.257	0.26	-0.22	0.14	
16290.00	89.780	160.960	6888.05	9237.40	-8799.08	2817.55	1701697.16	14345602.99	39°30'15.2633"N	80°46'57.8987"W	9239.18	162.244	0.23	0.22	-0.07	
16384.00	89.540	160.590	6888.61	9331.40	-8887.84	2848.50	1701728.10	14345514.27	39°30'14.3854"N	80°46'57.5066"W	9333.15	162.230	0.47	-0.26	-0.39	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

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
16479.00	90.220	161.330	6888.81	9426.40	-8977.64	2879.49	1701759.07	14345424.50	39°30'13.4971"N	80°46'57.1139"W	9428.12	162.217	1.06	0.72	0.78	
16573.00	89.420	161.030	6889.11	9520.39	-9066.61	2909.81	1701789.39	14345335.56	39°30'12.6170"N	80°46'56.7298"W	9522.11	162.207	0.91	-0.85	-0.32	
16668.00	89.200	160.990	6890.25	9615.39	-9156.44	2940.73	1701820.28	14345245.78	39°30'11.7286"N	80°46'56.3383"W	9617.08	162.195	0.24	-0.23	-0.04	
16763.00	89.570	160.700	6891.27	9710.38	-9246.17	2971.90	1701851.44	14345156.08	39°30'10.8409"N	80°46'55.9434"W	9712.05	162.182	0.49	0.39	-0.31	
16857.00	89.780	160.960	6891.80	9804.38	-9334.96	3002.76	1701882.30	14345067.33	39°30'9.9627"N	80°46'55.5524"W	9806.02	162.169	0.36	0.22	0.28	
16951.00	89.420	160.470	6892.46	9898.37	-9423.68	3033.81	1701913.33	14344978.64	39°30'9.0851"N	80°46'55.1591"W	9899.99	162.155	0.65	-0.38	-0.52	
17046.00	89.540	160.660	6893.32	9993.36	-9513.26	3065.41	1701944.92	14344889.09	39°30'8.1989"N	80°46'54.7586"W	9994.95	162.140	0.24	0.13	0.20	
17141.00	89.600	161.380	6894.03	10088.36	-9603.10	3096.31	1701975.81	14344799.30	39°30'7.3104"N	80°46'54.3672"W	10089.93	162.129	0.76	0.06	0.76	
17235.00	89.230	160.220	6894.99	10182.35	-9691.86	3127.22	1702006.71	14344710.57	39°30'6.4323"N	80°46'53.9756"W	10183.89	162.117	1.30	-0.39	-1.23	
17330.00	90.120	161.200	6895.53	10277.35	-9781.52	3158.60	1702038.08	14344620.94	39°30'5.5454"N	80°46'53.5781"W	10278.86	162.104	1.39	0.94	1.03	
17424.00	90.030	160.880	6895.41	10371.35	-9870.42	3189.15	1702068.61	14344532.07	39°30'4.6661"N	80°46'53.1912"W	10372.85	162.094	0.35	-0.10	-0.34	
17519.00	90.120	160.820	6895.29	10466.34	-9960.17	3220.31	1702099.76	14344442.37	39°30'3.7783"N	80°46'52.7964"W	10467.82	162.083	0.11	0.09	-0.06	
17613.00	89.750	161.270	6895.39	10560.34	-10049.07	3250.84	1702130.28	14344353.50	39°30'2.8990"N	80°46'52.4097"W	10561.81	162.074	0.62	-0.39	0.48	
17708.00	90.280	161.150	6895.37	10655.34	-10139.01	3281.44	1702160.87	14344263.60	39°30'2.0094"N	80°46'52.0221"W	10656.80	162.066	0.57	0.56	-0.13	
17802.00	90.550	161.670	6894.69	10749.34	-10228.10	3311.41	1702190.82	14344174.54	39°30'1.1281"N	80°46'51.6426"W	10750.79	162.060	0.62	0.29	0.55	
17897.00	89.170	160.390	6894.92	10844.34	-10317.94	3342.29	1702221.69	14344084.74	39°30'0.2395"N	80°46'51.2514"W	10845.77	162.051	1.98	-1.45	-1.35	
17991.00	89.570	161.240	6895.95	10938.33	-10406.71	3373.18	1702252.56	14343996.00	39°29'59.3614"N	80°46'50.8602"W	10939.74	162.041	1.00	0.43	0.90	
18086.00	90.460	161.340	6895.93	11033.33	-10496.69	3403.65	1702283.03	14343906.06	39°29'58.4713"N	80°46'50.4742"W	11034.73	162.034	0.94	0.94	0.11	
18180.00	89.260	160.150	6896.16	11127.32	-10585.43	3434.65	1702314.01	14343817.36	39°29'57.5936"N	80°46'50.0816"W	11128.70	162.023	1.80	-1.28	-1.27	
18275.00	89.540	160.190	6897.15	11222.30	-10674.79	3466.87	1702346.22	14343728.03	39°29'56.7096"N	80°46'49.6733"W	11223.65	162.008	0.30	0.29	0.04	
18370.00	89.480	160.430	6897.96	11317.29	-10764.23	3498.88	1702378.22	14343638.63	39°29'55.8248"N	80°46'49.2677"W	11318.60	161.993	0.26	-0.06	0.25	
18464.00	89.850	159.610	6898.51	11411.27	-10852.57	3531.00	1702410.32	14343550.32	39°29'54.9510"N	80°46'48.8608"W	11412.55	161.977	0.96	0.39	-0.87	
18558.00	90.340	162.020	6898.36	11505.26	-10941.34	3561.89	1702441.20	14343461.58	39°29'54.0729"N	80°46'48.4695"W	11506.52	161.968	2.62	0.52	2.56	
18653.00	89.660	160.290	6898.36	11600.26	-11031.24	3592.57	1702471.87	14343371.72	39°29'53.1836"N	80°46'48.0809"W	11601.51	161.961	1.96	-0.72	-1.82	
18747.00	89.750	161.370	6898.84	11694.25	-11120.03	3623.44	1702502.72	14343282.97	39°29'52.3053"N	80°46'47.6899"W	11695.48	161.952	1.15	0.10	1.15	
18842.00	89.540	161.870	6899.43	11789.25	-11210.18	3653.39	1702532.67	14343192.85	39°29'51.4136"N	80°46'47.3106"W	11790.48	161.949	0.57	-0.22	0.53	
18937.00	89.720	161.710	6900.04	11884.24	-11300.42	3683.08	1702562.34	14343102.65	39°29'50.5210"N	80°46'46.9347"W	11885.48	161.948	0.25	0.19	-0.17	
19032.00	89.480	161.660	6900.71	11979.23	-11390.61	3712.93	1702592.18	14343012.50	39°29'49.6290"N	80°46'46.5568"W	11980.48	161.946	0.26	-0.25	-0.05	
19126.00	89.940	162.560	6901.18	12073.21	-11480.06	3741.81	1702621.05	14342923.08	39°29'48.7442"N	80°46'46.1912"W	12074.47	161.947	1.08	0.49	0.96	
19221.00	89.080	161.940	6902.00	12168.19	-11570.53	3770.77	1702650.00	14342832.64	39°29'47.8493"N	80°46'45.8246"W	12169.47	161.950	1.12	-0.91	-0.65	

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Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
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19315.00	89.880	161.730	6902.85	12262.18	-11659.84	3800.07	1702679.29	14342743.37	39°29'46.9659"N	80°46'45.4536"W	12263.46	161.949	0.88	0.85	-0.22	
19410.00	89.510	162.250	6903.35	12357.17	-11750.19	3829.44	1702708.65	14342653.06	39°29'46.0723"N	80°46'45.0818"W	12358.46	161.949	0.67	-0.39	0.55	
19505.00	89.600	161.540	6904.09	12452.15	-11840.48	3858.96	1702738.16	14342562.80	39°29'45.1792"N	80°46'44.7080"W	12453.46	161.949	0.75	0.09	-0.75	
19599.00	89.350	162.310	6904.95	12546.14	-11929.84	3888.13	1702767.31	14342473.48	39°29'44.2953"N	80°46'44.3388"W	12547.45	161.948	0.86	-0.27	0.82	
19694.00	89.780	161.560	6905.67	12641.13	-12020.15	3917.58	1702796.75	14342383.20	39°29'43.4020"N	80°46'43.9659"W	12642.45	161.948	0.91	0.45	-0.79	
19788.00	89.570	160.810	6906.21	12735.12	-12109.13	3947.90	1702827.06	14342294.26	39°29'42.5219"N	80°46'43.5820"W	12736.44	161.943	0.83	-0.22	-0.80	
19882.00	90.000	162.140	6906.56	12829.12	-12198.25	3977.76	1702856.91	14342205.17	39°29'41.6403"N	80°46'43.2038"W	12830.43	161.939	1.49	0.46	1.41	
19977.00	89.380	161.910	6907.07	12924.11	-12288.61	4007.08	1702886.22	14342114.85	39°29'40.7465"N	80°46'42.8327"W	12925.43	161.940	0.70	-0.65	-0.24	
20071.00	90.340	160.920	6907.30	13018.10	-12377.71	4037.04	1702916.16	14342025.79	39°29'39.8653"N	80°46'42.4533"W	13019.42	161.936	1.47	1.02	-1.05	
20165.00	89.020	161.230	6907.83	13112.10	-12466.62	4067.52	1702946.64	14341936.91	39°29'38.9857"N	80°46'42.0673"W	13113.41	161.930	1.44	-1.40	0.33	
20260.00	89.600	162.390	6908.97	13207.08	-12556.87	4097.18	1702976.28	14341846.70	39°29'38.0931"N	80°46'41.6919"W	13208.40	161.929	1.37	0.61	1.22	
20355.00	90.000	160.960	6909.30	13302.07	-12647.05	4127.05	1703006.13	14341756.56	39°29'37.2011"N	80°46'41.3137"W	13303.39	161.927	1.56	0.42	-1.51	
20449.00	89.660	161.730	6909.58	13396.07	-12736.11	4157.11	1703036.19	14341667.53	39°29'36.3202"N	80°46'40.9330"W	13397.39	161.923	0.90	-0.36	0.82	
20544.00	89.970	162.180	6909.89	13491.06	-12826.43	4186.54	1703065.60	14341577.24	39°29'35.4267"N	80°46'40.5605"W	13492.39	161.923	0.58	0.33	0.47	
20638.00	89.720	161.840	6910.14	13585.05	-12915.84	4215.57	1703094.62	14341487.87	39°29'34.5424"N	80°46'40.1930"W	13586.39	161.924	0.45	-0.27	-0.36	
20732.00	89.750	161.990	6910.58	13679.04	-13005.19	4244.75	1703123.79	14341398.55	39°29'33.6586"N	80°46'39.8236"W	13680.39	161.924	0.16	0.03	0.16	
20826.00	89.910	162.420	6910.86	13773.02	-13094.70	4273.48	1703152.51	14341309.09	39°29'32.7733"N	80°46'39.4600"W	13774.38	161.926	0.49	0.17	0.46	
20921.00	89.450	163.290	6911.39	13867.98	-13185.47	4301.48	1703180.50	14341218.35	39°29'31.8754"N	80°46'39.1056"W	13869.37	161.932	1.04	-0.48	0.92	
21016.00	89.940	161.920	6911.89	13962.94	-13276.12	4329.88	1703208.89	14341127.73	39°29'30.9788"N	80°46'38.7462"W	13964.36	161.937	1.53	0.52	-1.44	
21111.00	89.690	162.030	6912.20	14057.93	-13366.46	4359.28	1703238.27	14341037.43	39°29'30.0852"N	80°46'38.3741"W	14059.36	161.937	0.29	-0.26	0.12	
21205.00	89.750	161.890	6912.66	14151.92	-13455.84	4388.39	1703267.37	14340948.09	39°29'29.2012"N	80°46'38.0056"W	14153.36	161.937	0.16	0.06	-0.15	
21300.00	89.380	159.960	6913.38	14246.91	-13545.61	4419.43	1703298.40	14340858.35	39°29'28.3131"N	80°46'37.6125"W	14248.34	161.930	2.07	-0.39	-2.03	
21395.00	89.420	159.900	6914.38	14341.88	-13634.84	4452.03	1703330.99	14340769.16	39°29'27.4305"N	80°46'37.1995"W	14343.27	161.917	0.08	0.04	-0.06	
21489.00	89.480	159.970	6915.28	14435.86	-13723.13	4484.28	1703363.23	14340680.90	39°29'26.5571"N	80°46'36.7910"W	14437.21	161.904	0.10	0.06	0.07	
21583.00	89.230	159.670	6916.34	14529.83	-13811.36	4516.71	1703395.64	14340592.71	39°29'25.6843"N	80°46'36.3802"W	14531.14	161.891	0.42	-0.27	-0.32	
21678.00	89.540	159.950	6917.36	14624.80	-13900.51	4549.49	1703428.41	14340503.59	39°29'24.8024"N	80°46'35.9648"W	14626.08	161.877	0.44	0.33	0.29	
21772.00	89.480	160.290	6918.16	14718.78	-13988.91	4581.45	1703460.36	14340415.23	39°29'23.9280"N	80°46'35.5599"W	14720.03	161.866	0.37	-0.06	0.36	
21867.00	90.000	159.710	6918.59	14813.76	-14078.18	4613.95	1703492.84	14340326.00	39°29'23.0449"N	80°46'35.1483"W	14814.98	161.854	0.82	0.55	-0.61	
21962.00	89.880	160.410	6918.69	14908.74	-14167.48	4646.34	1703525.22	14340236.73	39°29'22.1615"N	80°46'34.7379"W	14909.93	161.843	0.75	-0.13	0.74	
22056.00	89.450	158.920	6919.24	15002.71	-14255.62	4679.01	1703557.88	14340148.63	39°29'21.2896"N	80°46'34.3241"W	15003.86	161.829	1.65	-0.46	-1.59	

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Actual Wellpath Report

Marcellina Unit 1H AWP Proj: 24079'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

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
22150.00	89.690	160.410	6919.95	15096.67	-14343.75	4711.67	1703590.53	14340060.53	39°29'20.4177"N	80°46'33.9103"W	15097.79	161.816	1.61	0.26	1.59	
22244.00	89.940	159.560	6920.25	15190.65	-14432.08	4743.85	1703622.69	14339972.24	39°29'19.5440"N	80°46'33.5027"W	15191.74	161.804	0.94	0.27	-0.90	
22339.00	88.980	159.800	6921.15	15285.62	-14521.16	4776.83	1703655.66	14339883.19	39°29'18.6627"N	80°46'33.0848"W	15286.67	161.791	1.04	-1.01	0.25	
22433.00	89.750	159.760	6922.19	15379.59	-14609.36	4809.32	1703688.14	14339795.03	39°29'17.7902"N	80°46'32.6732"W	15380.60	161.779	0.82	0.82	-0.04	
22528.00	90.220	160.450	6922.21	15474.57	-14698.69	4841.65	1703720.45	14339705.73	39°29'16.9065"N	80°46'32.2637"W	15475.56	161.768	0.88	0.49	0.73	
22622.00	89.480	160.320	6922.46	15568.56	-14787.23	4873.20	1703751.99	14339617.22	39°29'16.0307"N	80°46'31.8641"W	15569.53	161.760	0.80	-0.79	-0.14	
22717.00	89.880	160.100	6922.99	15663.55	-14876.62	4905.37	1703784.14	14339527.87	39°29'15.1464"N	80°46'31.4567"W	15664.50	161.751	0.48	0.42	-0.23	
22811.00	89.200	161.770	6923.74	15757.54	-14965.46	4936.07	1703814.83	14339439.07	39°29'14.2676"N	80°46'31.0679"W	15758.48	161.746	1.92	-0.72	1.78	
22905.00	89.540	162.160	6924.78	15851.52	-15054.83	4965.17	1703843.92	14339349.73	39°29'13.3836"N	80°46'30.6996"W	15852.47	161.747	0.55	0.36	0.41	
23000.00	89.570	162.290	6925.51	15946.50	-15145.30	4994.17	1703872.91	14339259.30	39°29'12.4888"N	80°46'30.3326"W	15947.47	161.750	0.14	0.03	0.14	
23094.00	89.940	162.170	6925.92	16040.49	-15234.81	5022.86	1703901.59	14339169.82	39°29'11.6034"N	80°46'29.9696"W	16041.46	161.753	0.41	0.39	-0.13	
23188.00	89.350	161.900	6926.50	16134.47	-15324.23	5051.85	1703930.57	14339080.44	39°29'10.7190"N	80°46'29.6026"W	16135.46	161.754	0.69	-0.63	-0.29	
23283.00	89.320	161.390	6927.60	16229.46	-15414.39	5081.76	1703960.47	14338990.32	39°29'9.8271"N	80°46'29.2240"W	16230.45	161.754	0.54	-0.03	-0.54	
23377.00	89.420	162.390	6928.64	16323.44	-15503.72	5110.98	1703989.68	14338901.02	39°29'8.9435"N	80°46'28.8542"W	16324.45	161.755	1.07	0.11	1.06	
23471.00	89.290	161.930	6929.69	16417.42	-15593.20	5139.78	1704018.46	14338811.58	39°29'8.0585"N	80°46'28.4898"W	16418.44	161.757	0.51	-0.14	-0.49	
23566.00	89.600	162.060	6930.61	16512.41	-15683.54	5169.14	1704047.81	14338721.27	39°29'7.1648"N	80°46'28.1182"W	16513.43	161.758	0.35	0.33	0.14	
23660.00	89.420	162.280	6931.42	16606.39	-15773.02	5197.92	1704076.58	14338631.83	39°29'6.2797"N	80°46'27.7540"W	16607.43	161.761	0.30	-0.19	0.23	
23755.00	89.570	162.360	6932.25	16701.36	-15863.53	5226.77	1704105.42	14338541.35	39°29'5.3845"N	80°46'27.3889"W	16702.42	161.764	0.18	0.16	0.08	
23849.00	89.850	162.690	6932.73	16795.33	-15953.19	5255.00	1704133.64	14338451.73	39°29'4.4977"N	80°46'27.0318"W	16796.41	161.768	0.46	0.30	0.35	
23944.00	89.320	161.880	6933.42	16890.31	-16043.68	5283.90	1704162.53	14338361.27	39°29'3.6026"N	80°46'26.6660"W	16891.40	161.771	1.02	-0.56	-0.85	
24038.00	89.450	161.910	6934.43	16984.30	-16133.02	5313.11	1704191.73	14338271.97	39°29'2.7189"N	80°46'26.2963"W	16985.40	161.772	0.14	0.14	0.03	
24054.00	89.450	161.880	6934.58	17000.29	-16148.23	5318.09	1704196.70	14338256.77	39°29'2.5684"N	80°46'26.2334"W	17001.39	161.772	0.19	0.00	-0.19	
24079.00	89.450	161.880	6934.82	17025.29	-16171.99	5325.86	1704204.47	14338233.02	39°29'2.3334"N	80°46'26.1350"W	17026.39	161.772	0.00	0.00	0.00	Projected MD at TD: 24079'

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Marcellina Unit 1H AWP Proj: 24079'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

HOLE & CASING SECTIONS - Ref Wellbore: Marcellina Unit 1H AWB Ref Wellpath: Marcellina Unit 1H AWP Proj: 24079'

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	-0.15	0.14
17.5in Open Hole	126.00	447.00	321.00	126.00	447.00	-0.15	0.14	-0.66	0.04
13.375in Casing Surface	25.50	427.00	401.50	25.50	427.00	0.00	0.00	-0.63	0.08
12.25in Open Hole	447.00	3465.00	3018.00	447.00	3464.92	-0.66	0.04	-10.08	14.44
9.625in Casing Intermediate	25.50	3435.00	3409.50	25.50	3434.92	0.00	0.00	-10.22	14.23
8.75in Open Hole	3465.00	5931.00	2466.00	3464.92	5891.85	-10.08	14.44	319.00	-236.65
8.5in Open Hole	5931.00	24079.00	18148.00	5891.85	6934.82	319.00	-236.65	-16171.99	5325.86
5.5in Casing Production	25.50	24059.00	24033.50	25.50	6934.63	0.00	0.00	-16152.98	5319.64

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Marcellina Unit 1H AWP Proj: 24079'

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Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Marcellina Unit 1H POE Rev-3	6852.00	-152.19	-149.53	1698731.26	14354246.44	39°31'40.7923"N	80°47'35.4978"W	point
Marcellina Unit 1H BHL Rev-3	6881.00	-16301.83	5374.12	1704252.71	14338103.23	39°29'1.0490"N	80°46'25.5237"W	point
Marcellina Unit 1H BHL Rev-4	6881.00	-16166.90	5327.97	1704206.58	14338238.10	39°29'2.3837"N	80°46'26.1079"W	point
Marcellina Unit 1H LP Rev-3	6881.00	-343.07	-84.24	1698796.52	14354055.63	39°31'38.9042"N	80°47'34.6702"W	point
Marcellina Unit 1H 50' L/R Hard Line Rev-2	7000.00	-8159.55	2589.22	1701468.92	14346242.27	39°30'21.5895"N	80°47'0.7920"W	rectangle
2D Rectangle 16925.5 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Marcellina Unit 1H AWB Ref Wellpath: Marcellina Unit 1H AWP Proj: 24079'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	467.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-467')	Marcellina Unit 1H AWB	1/31/2023
467.00	3388.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (467')(589'-3388')	Marcellina Unit 1H AWB	1/31/2023
3388.00	5854.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3388')(3495'-5854')	Marcellina Unit 1H AWB	3/9/2023
5854.00	24079.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5854')(5986'-24054')	Marcellina Unit 1H AWB	3/9/2023

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Marcellina Unit 1H AWP Proj: 24079'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Marcellina Unit 1H
Field	Tyler	API	47-095-02829-0000
Facility	Thin Air Pad	Wellbore	Marcellina Unit 1H AWB
Slot	Slot 2D		

COMMENTS

Wellpath general comments

API: 47-095-02829-0000

BH Job #: 111653768

Rig: H&P 317

Duration: 3/12/2023-3/16/2023

Gyrodata MS Gyro <17-1/2"> (100'-467')

APS EM <12-1/4"> (467')(589'-3388')

APS EM <8-3/4"> (3388')(3495'-5854')

BH AT Curve <8-1/2"> (5854')(5986'-24054')

Sycamore: 6618' MD

Middlesex: 6760' MD

Burkett: 6912' MD

Tully: 6974' MD

Marcellus POE: 7171' MD

Projected MD at TD: 24079'

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