



ANTERO RESOURCES CORPORATION



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

Slot: Slot B
Well: Wilma Unit 1H
Wellbore: Wilma Unit 1H PWB

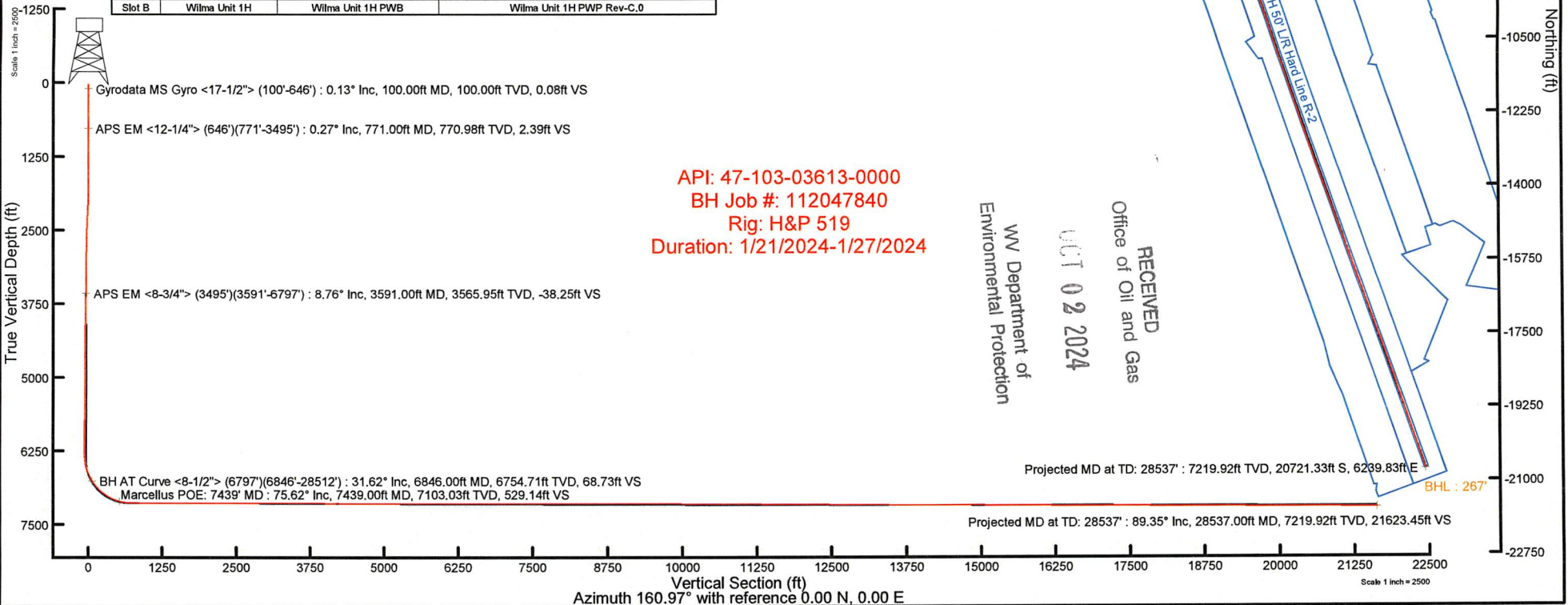
Easting (ft) 0 1750 3500 5250 7000
Scale 1 inch = 3500

Plot reference wellpath is Wilma Unit 1H PWP Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1280 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot B): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: rcdaryar on 2024-02-26; Database: WA_MPL_EASTERNUS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Cedar Pad	1721002.500	14368725.810	39°34'3.3492"N	80°42'50.5764"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot B	2.59	14.65	1721017.140	14368728.400
			39°34'3.3744"N	80°42'50.3893"W
Comment	Wilma Unit 1H			
H&P 519 (RKB) to Ground level (At Slot: Slot B)	30ft			
Mean Sea Level to Ground level (At Slot: Slot B)	-1250ft			
H&P 519 (RKB) to Mean Sea Level	1280ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (1/100ft)	VS (ft)
Tie On	3495.00	8.940	254.990	3471.10	-62.32	-295.88	0.48	-37.56
Proj. to Bottom	3565.00	8.940	254.990	3540.25	-65.13	-306.38	0.00	-38.33
Drill Out	3645.00	8.940	254.990	3619.27	-68.35	-318.39	0.00	-39.20
End of 3D Arc	3681.33	8.902	250.310	3655.17	-70.03	-323.76	2.00	-39.36
Curve KOP	6478.97	8.902	250.310	6419.11	-215.90	-731.36	0.00	-34.37
POE	7404.23	73.925	160.974	7102.00	-734.49	-640.89	8.00	485.38
Landing Pt.	7602.67	89.800	160.974	7130.00	-919.61	-577.06	8.00	681.19
BHL	28542.00	89.800	160.974	7203.09	-20714.91	6249.07	0.00	21620.39

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	Wilma Unit 1H	Wilma Unit 1H AWB	Wilma Unit 1H AWP Proj; 28537
Slot B	Wilma Unit 1H	Wilma Unit 1H PWB	Wilma Unit 1H PWP Rev-C.0





Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999607	Report Generated	2/26/2024 at 5:45:34 PM
Convergence at slot	0.18° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	2.59	14.65	1721017.14	14368728.40	39°34'3.3744"N	80°42'50.3893"W
Facility Reference Pt			1721002.50	14368725.81	39°34'3.3492"N	80°42'50.5764"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1280.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1280.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot B)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.97°



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Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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	168.560	0.00	0.00	0.00	0.00	1721017.14	14368728.40	39°34'3.3744"N	80°42'50.3893"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	168.560	30.00	0.00	0.00	0.00	1721017.14	14368728.40	39°34'3.3744"N	80°42'50.3893"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.130	168.560	100.00	0.08	-0.08	0.02	1721017.16	14368728.32	39°34'3.3736"N	80°42'50.3891"W	0.08	168.560	0.19	0.19	0.00	Gyrodata MS Gyro <17-1/2"> (100'-646')
200.00	0.400	197.600	200.00	0.47	-0.52	-0.07	1721017.07	14368727.88	39°34'3.3692"N	80°42'50.3901"W	0.53	187.349	0.29	0.27	29.04	
300.00	0.460	201.090	300.00	1.06	-1.23	-0.32	1721016.82	14368727.17	39°34'3.3622"N	80°42'50.3934"W	1.27	194.476	0.07	0.06	3.49	
400.00	0.480	204.150	399.99	1.67	-1.99	-0.63	1721016.51	14368726.42	39°34'3.3548"N	80°42'50.3974"W	2.08	197.683	0.03	0.02	3.06	
500.00	0.480	211.440	499.99	2.24	-2.73	-1.02	1721016.12	14368725.68	39°34'3.3475"N	80°42'50.4024"W	2.91	200.574	0.06	0.00	7.29	
600.00	0.440	234.060	599.99	2.62	-3.31	-1.55	1721015.59	14368725.09	39°34'3.3417"N	80°42'50.4092"W	3.65	205.138	0.18	-0.04	22.62	
646.00	0.200	252.720	645.99	2.67	-3.44	-1.77	1721015.37	14368724.97	39°34'3.3405"N	80°42'50.4120"W	3.87	207.283	0.56	-0.52	40.57	
771.00	0.270	320.200	770.98	2.39	-3.27	-2.17	1721014.97	14368725.13	39°34'3.3421"N	80°42'50.4171"W	3.93	213.521	0.21	0.06	53.98	APS EM <12-1/4"> (646')(771'-3495')
861.00	0.130	328.560	860.98	2.09	-3.02	-2.36	1721014.78	14368725.38	39°34'3.3446"N	80°42'50.4195"W	3.83	217.943	0.16	-0.16	9.29	
951.00	0.270	328.900	950.98	1.78	-2.76	-2.52	1721014.62	14368725.65	39°34'3.3472"N	80°42'50.4216"W	3.73	222.452	0.16	0.16	0.38	
1042.00	0.390	32.730	1041.98	1.38	-2.31	-2.46	1721014.68	14368726.09	39°34'3.3516"N	80°42'50.4208"W	3.38	226.831	0.40	0.13	70.14	
1136.00	0.100	239.650	1135.98	1.20	-2.08	-2.36	1721014.78	14368726.32	39°34'3.3538"N	80°42'50.4195"W	3.15	228.580	0.51	-0.31	-162.85	
1230.00	0.140	210.550	1229.98	1.29	-2.22	-2.49	1721014.65	14368726.18	39°34'3.3525"N	80°42'50.4212"W	3.34	228.240	0.08	0.04	-30.96	
1325.00	0.090	195.500	1324.98	1.43	-2.40	-2.57	1721014.57	14368726.01	39°34'3.3508"N	80°42'50.4222"W	3.51	227.007	0.06	-0.05	-15.84	
1420.00	0.170	155.590	1419.98	1.63	-2.60	-2.53	1721014.61	14368725.80	39°34'3.3488"N	80°42'50.4217"W	3.63	224.279	0.12	0.08	-42.01	
1514.00	1.410	236.080	1513.97	2.06	-3.37	-3.43	1721013.71	14368725.03	39°34'3.3412"N	80°42'50.4332"W	4.81	225.549	1.48	1.32	85.63	
1609.00	3.500	250.180	1608.88	2.41	-5.00	-7.13	1721010.01	14368723.40	39°34'3.3251"N	80°42'50.4805"W	8.71	234.945	2.27	2.20	14.84	
1703.00	5.820	254.850	1702.56	2.12	-7.22	-14.43	1721002.71	14368721.18	39°34'3.3034"N	80°42'50.5738"W	16.14	243.414	2.50	2.47	4.97	
1798.00	8.090	255.730	1796.86	1.24	-10.13	-25.56	1720991.59	14368718.27	39°34'3.2751"N	80°42'50.7161"W	27.50	248.382	2.39	2.39	0.93	
1892.00	8.000	255.200	1889.93	0.21	-13.43	-38.30	1720978.86	14368714.97	39°34'3.2428"N	80°42'50.8788"W	40.58	250.673	0.12	-0.10	-0.56	
1986.00	8.830	263.360	1982.92	-1.82	-15.94	-51.79	1720965.37	14368712.47	39°34'3.2185"N	80°42'51.0512"W	54.18	252.895	1.54	0.88	8.68	
2081.00	9.440	263.410	2076.72	-5.06	-17.67	-66.77	1720950.40	14368710.73	39°34'3.2018"N	80°42'51.2425"W	69.07	255.174	0.64	0.64	0.05	
2176.00	10.880	266.970	2170.23	-9.21	-19.04	-83.46	1720933.71	14368709.37	39°34'3.1888"N	80°42'51.4558"W	85.61	257.148	1.65	1.52	3.75	
2270.00	10.640	264.810	2262.57	-13.73	-20.30	-100.96	1720916.22	14368708.11	39°34'3.1770"N	80°42'51.6793"W	102.98	258.634	0.50	-0.26	-2.30	
2365.00	10.560	263.020	2355.95	-17.65	-22.15	-118.34	1720898.85	14368706.26	39°34'3.1592"N	80°42'51.9012"W	120.39	259.400	0.36	-0.08	-1.88	
2459.00	10.480	261.630	2448.37	-21.03	-24.44	-135.35	1720881.85	14368703.97	39°34'3.1371"N	80°42'52.1185"W	137.53	259.765	0.28	-0.09	-1.48	
2553.00	9.670	259.870	2540.92	-23.83	-27.07	-151.58	1720865.62	14368701.34	39°34'3.1116"N	80°42'52.3258"W	153.97	259.874	0.92	-0.86	-1.87	
2648.00	9.710	258.750	2634.57	-26.15	-30.04	-167.29	1720849.92	14368698.37	39°34'3.0828"N	80°42'52.5266"W	169.96	259.821	0.20	0.04	-1.18	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
2742.00	9.570	257.190	2727.24	-28.07	-33.32	-182.68	1720834.53	14368695.10	39°34'3.0508"N	80°42'52.7233"W	185.70	259.664	0.32	-0.15	-1.66	
2837.00	9.240	256.440	2820.96	-29.65	-36.86	-197.80	1720819.42	14368691.56	39°34'3.0163"N	80°42'52.9164"W	201.20	259.445	0.37	-0.35	-0.79	
2932.00	9.200	255.180	2914.74	-30.94	-40.59	-212.55	1720804.67	14368687.83	39°34'2.9799"N	80°42'53.1050"W	216.39	259.190	0.22	-0.04	-1.33	
3027.00	8.720	255.920	3008.58	-32.12	-44.28	-226.88	1720790.35	14368684.14	39°34'2.9439"N	80°42'53.2881"W	231.16	258.956	0.52	-0.51	0.78	
3121.00	8.450	255.010	3101.52	-33.22	-47.80	-240.46	1720776.77	14368680.62	39°34'2.9095"N	80°42'53.4617"W	245.17	258.757	0.32	-0.29	-0.97	
3215.00	7.970	254.390	3194.56	-34.09	-51.34	-253.41	1720763.83	14368677.08	39°34'2.8749"N	80°42'53.6272"W	258.56	258.547	0.52	-0.51	-0.66	
3310.00	9.250	255.700	3288.49	-35.12	-55.00	-267.15	1720750.09	14368673.42	39°34'2.8392"N	80°42'53.8028"W	272.76	258.367	1.36	1.35	1.38	
3405.00	9.340	256.040	3382.24	-36.43	-58.74	-282.03	1720735.22	14368669.68	39°34'2.8026"N	80°42'53.9929"W	288.09	258.234	0.11	0.09	0.36	
3495.00	8.940	254.990	3471.10	-37.56	-62.32	-295.88	1720721.38	14368666.11	39°34'2.7678"N	80°42'54.1698"W	302.37	258.106	0.48	-0.44	-1.17	
3591.00	8.760	252.270	3565.95	-38.25	-66.48	-310.04	1720707.22	14368661.95	39°34'2.7271"N	80°42'54.3509"W	317.09	257.899	0.47	-0.19	-2.83	APS EM <8-3/4"> (3495')(3591'-6797')
3685.00	10.270	254.130	3658.66	-38.88	-70.95	-324.92	1720692.35	14368657.48	39°34'2.6834"N	80°42'54.5411"W	332.58	257.683	1.64	1.61	1.98	
3780.00	10.300	252.680	3752.13	-39.60	-75.79	-341.18	1720676.10	14368652.64	39°34'2.6360"N	80°42'54.7488"W	349.49	257.475	0.27	0.03	-1.53	
3874.00	9.840	251.640	3844.68	-39.94	-80.82	-356.82	1720660.46	14368647.61	39°34'2.5868"N	80°42'54.9488"W	365.86	257.237	0.53	-0.49	-1.11	
3969.00	9.370	262.850	3938.36	-41.63	-84.34	-372.20	1720645.09	14368644.09	39°34'2.5525"N	80°42'55.1453"W	381.64	257.232	2.03	-0.49	11.80	
4063.00	9.280	261.740	4031.12	-44.62	-86.38	-387.29	1720630.00	14368642.05	39°34'2.5328"N	80°42'55.3381"W	396.81	257.426	0.21	-0.10	-1.18	
4157.00	8.760	259.490	4123.96	-47.10	-88.78	-401.83	1720615.47	14368639.66	39°34'2.5095"N	80°42'55.5239"W	411.52	257.542	0.67	-0.55	-2.39	
4252.00	10.650	252.730	4217.60	-48.44	-92.70	-417.33	1720599.97	14368635.73	39°34'2.4712"N	80°42'55.7219"W	427.50	257.476	2.32	1.99	-7.12	
4346.00	10.950	250.040	4309.93	-48.56	-98.33	-434.02	1720583.30	14368630.11	39°34'2.4161"N	80°42'55.9352"W	445.02	257.235	0.62	0.32	-2.86	
4441.00	9.850	247.540	4403.37	-47.93	-104.52	-450.01	1720567.31	14368623.93	39°34'2.3555"N	80°42'56.1396"W	461.98	256.925	1.25	-1.16	-2.63	
4535.00	8.250	255.490	4496.20	-47.98	-109.28	-463.97	1720553.36	14368619.17	39°34'2.3089"N	80°42'56.3181"W	476.66	256.747	2.16	-1.70	8.46	
4629.00	7.250	255.930	4589.34	-49.02	-112.41	-476.25	1720541.08	14368616.03	39°34'2.2783"N	80°42'56.4751"W	489.34	256.720	1.07	-1.06	0.47	
4723.00	8.300	256.210	4682.47	-50.15	-115.47	-488.59	1720528.74	14368612.98	39°34'2.2485"N	80°42'56.6328"W	502.05	256.703	1.12	1.12	0.30	
4818.00	9.730	253.610	4776.30	-51.15	-119.37	-502.96	1720514.38	14368609.08	39°34'2.2104"N	80°42'56.8163"W	516.93	256.649	1.56	1.51	-2.74	
4912.00	10.190	249.740	4868.88	-51.34	-124.49	-518.38	1720498.97	14368603.96	39°34'2.1603"N	80°42'57.0135"W	533.11	256.496	0.86	0.49	-4.12	
5007.00	9.390	245.910	4962.50	-50.47	-130.56	-533.33	1720484.02	14368597.89	39°34'2.1007"N	80°42'57.2047"W	549.08	256.244	1.09	-0.84	-4.03	
5101.00	9.550	254.610	5055.22	-50.29	-135.76	-547.85	1720469.50	14368592.69	39°34'2.0498"N	80°42'57.3903"W	564.43	256.082	1.53	0.17	9.26	
5195.00	9.610	255.280	5147.91	-51.38	-139.83	-562.96	1720454.40	14368588.63	39°34'2.0101"N	80°42'57.5834"W	580.07	256.051	0.13	0.06	0.71	
5290.00	8.080	249.340	5241.78	-51.78	-144.20	-576.88	1720440.49	14368584.26	39°34'1.9673"N	80°42'57.7613"W	594.63	255.966	1.87	-1.61	-6.25	
5384.00	8.730	253.430	5334.77	-51.90	-148.56	-589.90	1720427.48	14368579.90	39°34'1.9246"N	80°42'57.9277"W	608.32	255.864	0.94	0.69	4.35	
5479.00	8.660	253.600	5428.68	-52.54	-152.64	-603.67	1720413.71	14368575.82	39°34'1.8847"N	80°42'58.1037"W	622.67	255.810	0.08	-0.07	0.18	

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Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

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5573.00	7.650	249.730	5521.73	-52.73	-156.80	-616.33	1720401.06	14368571.66	39°34'1.8439"N	80°42'58.2655"W	635.96	255.726	1.22	-1.07	-4.12	
5667.00	9.210	255.910	5614.71	-53.24	-160.80	-629.49	1720387.89	14368567.66	39°34'1.8048"N	80°42'58.4338"W	649.71	255.670	1.92	1.66	6.57	
5761.00	10.090	257.120	5707.38	-54.77	-164.47	-644.82	1720372.58	14368564.00	39°34'1.7691"N	80°42'58.6296"W	665.46	255.691	0.96	0.94	1.29	
5950.00	8.190	248.260	5893.98	-55.91	-173.15	-673.47	1720343.94	14368555.32	39°34'1.6842"N	80°42'58.9957"W	695.37	255.582	1.25	-1.01	-4.69	
6044.00	8.710	254.160	5986.96	-55.99	-177.57	-686.53	1720330.88	14368550.90	39°34'1.6409"N	80°42'59.1628"W	709.12	255.498	1.07	0.55	6.28	
6138.00	7.700	255.110	6080.00	-56.84	-181.13	-699.47	1720317.95	14368547.34	39°34'1.6061"N	80°42'59.3281"W	722.54	255.482	1.08	-1.07	1.01	
6233.00	8.620	253.560	6174.04	-57.62	-184.78	-712.44	1720304.98	14368543.69	39°34'1.5704"N	80°42'59.4939"W	736.02	255.460	1.00	0.97	-1.63	
6327.00	7.740	250.580	6267.08	-57.89	-188.88	-725.17	1720292.26	14368539.60	39°34'1.5303"N	80°42'59.6566"W	749.37	255.401	1.04	-0.94	-3.17	
6421.00	8.090	230.860	6360.20	-55.58	-195.16	-736.27	1720281.16	14368533.32	39°34'1.4686"N	80°42'59.7986"W	761.70	255.154	2.90	0.37	-20.98	
6515.00	14.150	211.440	6452.43	-45.98	-209.16	-747.41	1720270.03	14368519.33	39°34'1.3306"N	80°42'59.9414"W	776.12	254.366	7.49	6.45	-20.66	
6609.00	19.520	200.710	6542.39	-26.57	-233.67	-758.97	1720258.47	14368494.82	39°34'1.0887"N	80°43'0.0900"W	794.13	252.887	6.58	5.71	-11.41	
6703.00	25.420	188.100	6629.26	3.50	-268.39	-767.38	1720250.07	14368460.12	39°34'0.7459"N	80°43'0.1987"W	812.96	250.723	8.07	6.28	-13.41	
6797.00	29.860	175.540	6712.58	44.16	-311.75	-768.40	1720249.04	14368416.78	39°34'0.3173"N	80°43'0.2135"W	829.23	247.917	7.77	4.72	-13.36	
6846.00	31.620	168.100	6754.71	68.73	-336.49	-764.80	1720252.64	14368392.04	39°34'0.0727"N	80°43'0.1686"W	835.55	246.252	8.55	3.59	-15.18	BH AT Curve <8-1/2"> (6797')(6846'-28512')
6850.00†	31.867	167.834	6758.11	70.81	-338.55	-764.36	1720253.08	14368389.99	39°34'0.0523"N	80°43'0.1631"W	835.98	246.111	7.10	6.18	-6.64	Sycamore: 6850' MD
6919.00	36.210	163.770	6815.29	109.28	-375.94	-754.82	1720262.62	14368352.60	39°33'59.6825"N	80°43'0.0428"W	843.26	243.524	7.10	6.29	-5.89	
7012.00†	42.847	166.705	6886.98	168.25	-433.16	-739.86	1720277.58	14368295.41	39°33'59.1165"N	80°42'59.8539"W	857.33	239.652	7.41	7.14	3.16	Middlesex: 7012' MD
7014.00	42.990	166.760	6888.45	169.60	-434.49	-739.54	1720277.89	14368294.08	39°33'59.1034"N	80°42'59.8500"W	857.73	239.565	7.41	7.17	2.74	
7109.00	50.980	169.240	6953.21	238.47	-502.39	-725.21	1720292.22	14368226.21	39°33'58.4319"N	80°42'59.6697"W	882.23	235.288	8.62	8.41	2.61	
7161.00†	54.254	165.448	6984.78	279.51	-542.68	-716.13	1720301.29	14368185.94	39°33'58.0334"N	80°42'59.5554"W	898.52	232.846	8.56	6.30	-7.29	Burkett: 7161' MD
7203.00	56.980	162.610	7008.50	314.12	-575.99	-706.58	1720310.83	14368152.64	39°33'57.7039"N	80°42'59.4349"W	911.60	230.814	8.56	6.49	-6.76	
7213.00†	57.736	162.519	7013.90	322.54	-584.02	-704.06	1720313.36	14368144.61	39°33'57.6244"N	80°42'59.4030"W	914.76	230.324	7.60	7.56	-0.91	Tully: 7213' MD
7297.00	64.090	161.810	7054.71	395.89	-653.86	-681.58	1720335.83	14368074.80	39°33'56.9335"N	80°42'59.1187"W	944.50	226.189	7.60	7.56	-0.84	
7392.00	72.240	160.070	7090.02	483.99	-737.12	-652.77	1720364.63	14367991.57	39°33'56.1097"N	80°42'58.7542"W	984.61	221.527	8.75	8.58	-1.83	
7439.00†	75.620	159.984	7103.03	529.14	-779.56	-637.34	1720380.05	14367949.14	39°33'55.6897"N	80°42'58.5589"W	1006.94	219.268	7.19	7.19	-0.18	Marcellus POE: 7439' MD
7486.00	79.000	159.900	7113.35	574.98	-822.63	-621.62	1720395.77	14367906.10	39°33'55.2636"N	80°42'58.3599"W	1031.08	217.077	7.19	7.19	-0.18	
7581.00	86.610	159.320	7125.24	669.14	-910.91	-588.80	1720428.57	14367817.85	39°33'54.3901"N	80°42'57.9444"W	1084.64	212.878	8.03	8.01	-0.61	
7675.00	89.570	159.220	7128.37	763.03	-998.76	-555.55	1720461.81	14367730.03	39°33'53.5208"N	80°42'57.5234"W	1142.88	209.085	3.15	3.15	-0.11	
7769.00	89.420	159.250	7129.20	856.99	-1086.65	-522.23	1720495.12	14367642.18	39°33'52.6511"N	80°42'57.1014"W	1205.63	205.668	0.16	-0.16	0.03	
7862.00	89.660	159.160	7129.95	949.94	-1173.59	-489.21	1720528.12	14367555.27	39°33'51.7908"N	80°42'56.6834"W	1271.47	202.629	0.28	0.26	-0.10	



Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
7958.00	89.420	161.450	7130.72	1045.92	-1263.97	-456.86	1720560.46	14367464.93	39°33'50.8966"N	80°42'56.2740"W	1344.00	199.872	2.40	-0.25	2.39	
8053.00	89.570	161.030	7131.56	1140.92	-1353.92	-426.31	1720591.00	14367375.02	39°33'50.0067"N	80°42'55.8875"W	1419.45	197.478	0.47	0.16	-0.44	
8147.00	89.510	161.140	7132.31	1234.92	-1442.84	-395.84	1720621.46	14367286.13	39°33'49.1269"N	80°42'55.5020"W	1496.15	195.341	0.13	-0.06	0.12	
8241.00	89.820	161.090	7132.86	1328.91	-1531.78	-365.41	1720651.87	14367197.23	39°33'48.2470"N	80°42'55.1172"W	1574.76	193.417	0.33	0.33	-0.05	
8335.00	90.060	160.840	7132.96	1422.91	-1620.64	-334.76	1720682.52	14367108.40	39°33'47.3678"N	80°42'54.7293"W	1654.85	191.671	0.37	0.26	-0.27	
8430.00	90.620	159.790	7132.39	1517.90	-1710.08	-302.76	1720714.50	14367018.99	39°33'46.4828"N	80°42'54.3243"W	1736.67	190.040	1.25	0.59	-1.11	
8524.00	90.180	159.950	7131.74	1611.88	-1798.34	-270.41	1720746.84	14366930.77	39°33'45.6095"N	80°42'53.9149"W	1818.55	188.551	0.50	-0.47	0.17	
8619.00	89.320	158.690	7132.15	1706.84	-1887.21	-236.86	1720780.37	14366841.93	39°33'44.7301"N	80°42'53.4901"W	1902.02	187.154	1.61	-0.91	-1.33	
8713.00	89.850	160.210	7132.83	1800.80	-1975.23	-203.87	1720813.35	14366753.95	39°33'43.8592"N	80°42'53.0724"W	1985.72	185.893	1.71	0.56	1.62	
8807.00	90.550	160.510	7132.51	1894.80	-2063.76	-172.27	1720844.94	14366665.46	39°33'42.9833"N	80°42'52.6726"W	2070.93	184.772	0.81	0.74	0.32	
8902.00	88.250	159.600	7133.50	1989.77	-2153.05	-139.87	1720877.33	14366576.20	39°33'42.0998"N	80°42'52.2625"W	2157.58	183.717	2.60	-2.42	-0.96	
8996.00	89.940	161.360	7134.98	2083.75	-2241.63	-108.47	1720908.72	14366487.66	39°33'41.2233"N	80°42'51.8652"W	2244.25	182.770	2.60	1.80	1.87	
9090.00	90.680	160.350	7134.48	2177.75	-2330.42	-77.64	1720939.53	14366398.90	39°33'40.3448"N	80°42'51.4752"W	2331.72	181.908	1.33	0.79	-1.07	
9184.00	90.400	160.740	7133.59	2271.74	-2419.05	-46.33	1720970.82	14366310.30	39°33'39.4678"N	80°42'51.0790"W	2419.50	181.097	0.51	-0.30	0.41	
9279.00	89.850	159.540	7133.38	2366.73	-2508.40	-14.06	1721003.08	14366220.99	39°33'38.5838"N	80°42'50.6706"W	2508.44	180.321	1.39	-0.58	-1.26	
9374.00	89.660	160.290	7133.79	2461.71	-2597.62	18.56	1721035.70	14366131.80	39°33'37.7010"N	80°42'50.2577"W	2597.69	179.591	0.81	-0.20	0.79	
9468.00	89.940	159.720	7134.12	2555.69	-2685.95	50.70	1721067.82	14366043.51	39°33'36.8270"N	80°42'49.8509"W	2686.43	178.919	0.68	0.30	-0.61	
9562.00	89.750	160.490	7134.37	2649.68	-2774.34	82.69	1721099.80	14365955.15	39°33'35.9524"N	80°42'49.4461"W	2775.57	178.293	0.84	-0.20	0.82	
9657.00	89.880	159.980	7134.68	2744.67	-2863.74	114.82	1721131.91	14365865.79	39°33'35.0678"N	80°42'49.0396"W	2866.05	177.704	0.55	0.14	-0.54	
9751.00	89.970	160.460	7134.80	2838.66	-2952.20	146.63	1721163.71	14365777.37	39°33'34.1926"N	80°42'48.6370"W	2955.84	177.157	0.52	0.10	0.51	
9846.00	89.750	160.270	7135.03	2933.66	-3041.67	178.55	1721195.62	14365687.93	39°33'33.3073"N	80°42'48.2331"W	3046.91	176.641	0.31	-0.23	-0.20	
9940.00	90.030	160.240	7135.21	3027.65	-3130.15	210.31	1721227.36	14365599.49	39°33'32.4319"N	80°42'47.8312"W	3137.20	176.156	0.30	0.30	-0.03	
10128.00	89.910	160.860	7135.31	3215.65	-3307.42	272.91	1721289.94	14365422.29	39°33'30.6779"N	80°42'47.0392"W	3318.66	175.283	0.34	-0.06	0.33	
10223.00	89.940	160.230	7135.44	3310.64	-3396.99	304.55	1721321.57	14365332.75	39°33'29.7916"N	80°42'46.6389"W	3410.62	174.877	0.66	0.03	-0.66	
10317.00	89.940	161.090	7135.54	3404.64	-3485.69	335.68	1721352.69	14365244.09	39°33'28.9140"N	80°42'46.2450"W	3501.81	174.499	0.91	0.00	0.91	
10411.00	89.750	159.510	7135.79	3498.63	-3574.18	367.36	1721384.36	14365155.63	39°33'28.0384"N	80°42'45.8441"W	3593.01	174.132	1.69	-0.20	-1.68	
10505.00	89.630	160.490	7136.30	3592.61	-3662.51	399.51	1721416.50	14365067.33	39°33'27.1644"N	80°42'45.4372"W	3684.24	173.775	1.05	-0.13	1.04	
10600.00	90.800	160.580	7135.94	3687.61	-3752.08	431.17	1721448.14	14364977.80	39°33'26.2782"N	80°42'45.0367"W	3776.77	173.445	1.24	1.23	0.09	
10694.00	89.450	160.230	7135.74	3781.60	-3840.63	462.69	1721479.65	14364889.28	39°33'25.4020"N	80°42'44.6379"W	3868.40	173.131	1.48	-1.44	-0.37	
10789.00	89.720	160.780	7136.42	3876.60	-3930.18	494.40	1721511.34	14364799.77	39°33'24.5160"N	80°42'44.2368"W	3961.16	172.830	0.64	0.28	0.58	

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Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
10883.00	89.140	160.970	7137.36	3970.59	-4018.99	525.19	1721542.12	14364710.99	39°33'23.6373"N	80°42'43.8472"W	4053.16	172.555	0.65	-0.62	0.20	
10978.00	89.780	161.810	7138.26	4065.58	-4109.02	555.51	1721572.43	14364621.00	39°33'22.7466"N	80°42'43.4639"W	4146.40	172.301	1.11	0.67	0.88	
11072.00	90.620	161.560	7137.93	4159.57	-4198.26	585.04	1721601.95	14364531.80	39°33'21.8637"N	80°42'43.0904"W	4238.82	172.067	0.93	0.89	-0.27	
11166.00	89.570	160.560	7137.77	4253.57	-4287.16	615.55	1721632.45	14364442.93	39°33'20.9840"N	80°42'42.7045"W	4331.13	171.829	1.54	-1.12	-1.06	
11261.00	90.220	160.840	7137.95	4348.57	-4376.82	646.95	1721663.84	14364353.30	39°33'20.0969"N	80°42'42.3073"W	4424.38	171.592	0.74	0.68	0.29	
11355.00	89.510	161.030	7138.17	4442.57	-4465.67	677.66	1721694.53	14364264.49	39°33'19.2179"N	80°42'41.9190"W	4516.79	171.371	0.78	-0.76	0.20	
11449.00	90.280	161.830	7138.34	4536.56	-4554.77	707.59	1721724.45	14364175.43	39°33'18.3363"N	80°42'41.5405"W	4609.41	171.170	1.18	0.82	0.85	
11544.00	89.600	160.930	7138.44	4631.56	-4644.80	737.92	1721754.77	14364085.44	39°33'17.4456"N	80°42'41.1569"W	4703.05	170.973	1.19	-0.72	-0.95	
11732.00	90.120	161.870	7138.90	4819.55	-4822.97	797.89	1721814.71	14363907.33	39°33'15.6827"N	80°42'40.3987"W	4888.53	170.606	0.57	0.28	0.50	
11827.00	89.880	161.650	7138.90	4914.54	-4913.20	827.62	1721844.44	14363817.14	39°33'14.7901"N	80°42'40.0228"W	4982.42	170.438	0.34	-0.25	-0.23	
11921.00	89.690	161.220	7139.25	5008.54	-5002.31	857.55	1721874.35	14363728.06	39°33'13.9084"N	80°42'39.6443"W	5075.28	170.272	0.50	-0.20	-0.46	
12015.00	89.750	162.300	7139.71	5102.53	-5091.58	886.97	1721903.76	14363638.83	39°33'13.0252"N	80°42'39.2724"W	5168.26	170.118	1.15	0.06	1.15	
12110.00	89.750	161.660	7140.12	5197.51	-5181.92	916.36	1721933.14	14363548.52	39°33'12.1314"N	80°42'38.9009"W	5262.32	169.972	0.67	0.00	-0.67	
12204.00	89.820	161.510	7140.48	5291.50	-5271.11	946.05	1721962.82	14363459.37	39°33'11.2490"N	80°42'38.5255"W	5355.33	169.825	0.18	0.07	-0.16	
12298.00	89.780	161.140	7140.81	5385.50	-5360.16	976.15	1721992.91	14363370.36	39°33'10.3680"N	80°42'38.1449"W	5448.32	169.679	0.40	-0.04	-0.39	
12393.00	90.000	161.450	7140.99	5480.50	-5450.14	1006.62	1722023.36	14363280.41	39°33'9.4777"N	80°42'37.7597"W	5542.32	169.536	0.40	0.23	0.33	
12487.00	90.120	161.570	7140.89	5574.50	-5539.29	1036.43	1722053.16	14363191.30	39°33'8.5957"N	80°42'37.3828"W	5635.41	169.402	0.18	0.13	0.13	
12582.00	89.600	161.540	7141.12	5669.49	-5629.41	1066.49	1722083.20	14363101.21	39°33'7.7041"N	80°42'37.0027"W	5729.54	169.273	0.55	-0.55	-0.03	
12676.00	90.030	161.830	7141.43	5763.48	-5718.64	1096.02	1722112.73	14363012.01	39°33'6.8212"N	80°42'36.6293"W	5822.73	169.150	0.55	0.46	0.31	
12770.00	89.720	161.540	7141.63	5857.47	-5807.88	1125.56	1722142.26	14362922.81	39°33'5.9383"N	80°42'36.2559"W	5915.94	169.032	0.45	-0.33	-0.31	
12865.00	90.030	161.180	7141.84	5952.47	-5897.90	1155.93	1722172.61	14362832.83	39°33'5.0476"N	80°42'35.8720"W	6010.11	168.911	0.50	0.33	-0.38	
12959.00	89.600	161.560	7142.14	6046.47	-5986.97	1185.95	1722202.63	14362743.79	39°33'4.1664"N	80°42'35.4923"W	6103.30	168.795	0.61	-0.46	0.40	
13053.00	90.090	161.710	7142.40	6140.46	-6076.18	1215.57	1722232.23	14362654.61	39°33'3.2837"N	80°42'35.1179"W	6196.58	168.687	0.55	0.52	0.16	
13148.00	89.820	163.010	7142.47	6235.43	-6166.71	1244.36	1722261.01	14362564.12	39°33'2.3881"N	80°42'34.7541"W	6291.01	168.592	1.40	-0.28	1.37	
13242.00	89.880	161.710	7142.72	6329.40	-6256.29	1272.84	1722289.48	14362474.58	39°33'1.5018"N	80°42'34.3942"W	6384.46	168.500	1.38	0.06	-1.38	
13337.00	89.970	161.310	7142.84	6424.40	-6346.39	1302.97	1722319.60	14362384.52	39°33'0.6104"N	80°42'34.0133"W	6478.76	168.398	0.43	0.09	-0.42	
13431.00	90.250	161.270	7142.66	6518.39	-6435.42	1333.12	1722349.74	14362295.52	39°32'59.7295"N	80°42'33.6320"W	6572.05	168.296	0.30	0.30	-0.04	
13526.00	90.060	161.550	7142.40	6613.39	-6525.46	1363.41	1722380.01	14362205.51	39°32'58.8387"N	80°42'33.2491"W	6666.38	168.199	0.36	-0.20	0.29	
13621.00	89.880	161.060	7142.45	6708.39	-6615.45	1393.86	1722410.45	14362115.56	39°32'57.9483"N	80°42'32.8641"W	6760.70	168.102	0.55	-0.19	-0.52	
13715.00	89.750	161.200	7142.76	6802.39	-6704.40	1424.26	1722440.84	14362026.65	39°32'57.0683"N	80°42'32.4797"W	6854.01	168.007	0.20	-0.14	0.15	



Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
13810.00	90.150	161.730	7142.84	6897.38	-6794.47	1454.46	1722471.03	14361936.61	39°32'56.1771"N	80°42'32.0979"W	6948.40	167.917	0.70	0.42	0.56	
13904.00	90.310	161.570	7142.46	6991.38	-6883.69	1484.05	1722500.61	14361847.43	39°32'55.2944"N	80°42'31.7238"W	7041.85	167.834	0.24	0.17	-0.17	
13999.00	90.090	161.450	7142.13	7086.37	-6973.78	1514.18	1722530.72	14361757.37	39°32'54.4030"N	80°42'31.3429"W	7136.27	167.750	0.26	-0.23	-0.13	
14093.00	89.880	161.400	7142.15	7180.37	-7062.89	1544.12	1722560.66	14361668.30	39°32'53.5214"N	80°42'30.9644"W	7229.71	167.668	0.23	-0.22	-0.05	
14187.00	90.280	161.850	7142.02	7274.36	-7152.09	1573.76	1722590.28	14361579.13	39°32'52.6388"N	80°42'30.5898"W	7323.19	167.590	0.64	0.43	0.48	
14281.00	89.880	161.340	7141.89	7368.36	-7241.29	1603.43	1722619.94	14361489.97	39°32'51.7564"N	80°42'30.2146"W	7416.69	167.514	0.69	-0.43	-0.54	
14375.00	89.690	161.770	7142.24	7462.35	-7330.46	1633.18	1722649.67	14361400.84	39°32'50.8741"N	80°42'29.8386"W	7510.18	167.440	0.50	-0.20	0.46	
14469.00	89.540	161.160	7142.88	7556.34	-7419.58	1663.06	1722679.54	14361311.75	39°32'49.9923"N	80°42'29.4609"W	7603.68	167.366	0.67	-0.16	-0.65	
14563.00	90.280	160.910	7143.02	7650.34	-7508.47	1693.60	1722710.08	14361222.89	39°32'49.1128"N	80°42'29.0746"W	7697.11	167.289	0.83	0.79	-0.27	
14658.00	89.910	161.510	7142.87	7745.34	-7598.41	1724.20	1722740.66	14361132.99	39°32'48.2229"N	80°42'28.6877"W	7791.58	167.215	0.74	-0.39	0.63	
14752.00	89.690	161.140	7143.19	7839.34	-7687.46	1754.30	1722770.75	14361043.97	39°32'47.3419"N	80°42'28.3072"W	7885.09	167.145	0.46	-0.23	-0.39	
14847.00	89.720	160.960	7143.68	7934.34	-7777.31	1785.15	1722801.59	14360954.16	39°32'46.4529"N	80°42'27.9171"W	7979.56	167.073	0.19	0.03	-0.19	
14942.00	89.720	160.710	7144.15	8029.34	-7867.04	1816.34	1722832.76	14360864.46	39°32'45.5650"N	80°42'27.5227"W	8074.00	166.999	0.26	0.00	-0.26	
15037.00	90.150	160.950	7144.26	8124.34	-7956.78	1847.54	1722863.95	14360774.76	39°32'44.6772"N	80°42'27.1283"W	8168.46	166.928	0.52	0.45	0.25	
15131.00	89.970	161.390	7144.16	8218.33	-8045.75	1877.87	1722894.27	14360685.83	39°32'43.7969"N	80°42'26.7447"W	8261.99	166.862	0.51	-0.19	0.47	
15225.00	89.850	161.060	7144.31	8312.33	-8134.74	1908.13	1722924.52	14360596.87	39°32'42.9163"N	80°42'26.3622"W	8355.54	166.799	0.37	-0.13	-0.35	
15320.00	90.590	162.260	7143.94	8407.32	-8224.92	1938.02	1722954.40	14360506.73	39°32'42.0242"N	80°42'25.9843"W	8450.16	166.741	1.48	0.78	1.26	
15414.00	90.000	161.320	7143.46	8501.31	-8314.20	1967.39	1722983.76	14360417.48	39°32'41.1408"N	80°42'25.6131"W	8543.81	166.687	1.18	-0.63	-1.00	
15508.00	90.000	161.250	7143.46	8595.31	-8403.23	1997.55	1723013.91	14360328.48	39°32'40.2599"N	80°42'25.2318"W	8637.39	166.628	0.07	0.00	-0.07	
15603.00	90.220	161.410	7143.27	8690.31	-8493.24	2027.97	1723044.31	14360238.52	39°32'39.3694"N	80°42'24.8473"W	8731.99	166.571	0.29	0.23	0.17	
15697.00	90.150	161.610	7142.97	8784.30	-8582.38	2057.78	1723074.10	14360149.40	39°32'38.4874"N	80°42'24.4705"W	8825.63	166.517	0.23	-0.07	0.21	
15791.00	90.340	161.450	7142.57	8878.30	-8671.54	2087.56	1723103.87	14360060.28	39°32'37.6053"N	80°42'24.0941"W	8919.28	166.464	0.26	0.20	-0.17	
15886.00	90.340	161.280	7142.00	8973.29	-8761.56	2117.91	1723134.22	14359970.30	39°32'36.7146"N	80°42'23.7104"W	9013.90	166.411	0.18	0.00	-0.18	
15981.00	90.220	161.680	7141.54	9068.29	-8851.64	2148.09	1723164.38	14359880.26	39°32'35.8234"N	80°42'23.3289"W	9108.55	166.359	0.44	-0.13	0.42	
16076.00	89.320	159.980	7141.92	9163.28	-8941.36	2179.28	1723195.56	14359790.56	39°32'34.9356"N	80°42'22.9345"W	9203.11	166.302	2.02	-0.95	-1.79	
16170.00	89.880	160.890	7142.58	9257.28	-9029.93	2210.76	1723227.03	14359702.03	39°32'34.0592"N	80°42'22.5364"W	9296.62	166.243	1.14	0.60	0.97	
16264.00	89.720	161.090	7142.91	9351.27	-9118.81	2241.38	1723257.63	14359613.19	39°32'33.1799"N	80°42'22.1493"W	9390.23	166.191	0.27	-0.17	0.21	
16358.00	90.370	161.420	7142.83	9445.27	-9207.82	2271.58	1723287.83	14359524.21	39°32'32.2992"N	80°42'21.7674"W	9483.88	166.142	0.78	0.69	0.35	
16453.00	89.570	161.320	7142.88	9540.27	-9297.84	2301.93	1723318.16	14359434.23	39°32'31.4085"N	80°42'21.3838"W	9578.56	166.094	0.85	-0.84	-0.11	
16547.00	89.450	161.350	7143.69	9634.26	-9386.89	2332.01	1723348.23	14359345.21	39°32'30.5274"N	80°42'21.0035"W	9672.23	166.048	0.13	-0.13	0.03	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
16641.00	89.880	161.370	7144.24	9728.26	-9475.96	2362.06	1723378.27	14359256.18	39°32'29.6461"N	80°42'20.6238"W	9765.92	166.003	0.46	0.46	0.02	
16735.00	89.450	161.070	7144.79	9822.26	-9564.95	2392.32	1723408.52	14359167.22	39°32'28.7656"N	80°42'20.2412"W	9859.59	165.958	0.56	-0.46	-0.32	
16830.00	89.600	161.490	7145.57	9917.25	-9654.93	2422.81	1723438.99	14359077.28	39°32'27.8754"N	80°42'19.8558"W	9954.27	165.913	0.47	0.16	0.44	
16924.00	89.510	161.320	7146.30	10011.25	-9744.02	2452.78	1723468.95	14358988.23	39°32'26.9940"N	80°42'19.4769"W	10047.98	165.871	0.20	-0.10	-0.18	
17018.00	89.570	161.330	7147.06	10105.24	-9833.06	2482.88	1723499.04	14358899.22	39°32'26.1129"N	80°42'19.0965"W	10141.69	165.829	0.06	0.06	0.01	
17113.00	90.090	161.870	7147.34	10200.24	-9923.21	2512.87	1723529.01	14358809.11	39°32'25.2210"N	80°42'18.7175"W	10236.43	165.790	0.79	0.55	0.57	
17207.00	89.720	161.210	7147.50	10294.23	-10012.37	2542.63	1723558.77	14358719.98	39°32'24.3389"N	80°42'18.3413"W	10330.17	165.751	0.80	-0.39	-0.70	
17301.00	89.850	161.350	7147.85	10388.23	-10101.39	2572.80	1723588.92	14358630.99	39°32'23.4580"N	80°42'17.9600"W	10423.89	165.711	0.20	0.14	0.15	
17396.00	89.570	161.320	7148.33	10483.22	-10191.40	2603.20	1723619.31	14358541.02	39°32'22.5675"N	80°42'17.5757"W	10518.61	165.671	0.30	-0.29	-0.03	
17490.00	89.750	161.400	7148.89	10577.22	-10280.46	2633.24	1723649.35	14358451.99	39°32'21.6863"N	80°42'17.1959"W	10612.35	165.633	0.21	0.19	0.09	
17585.00	90.030	161.110	7149.07	10672.22	-10370.43	2663.77	1723679.86	14358362.07	39°32'20.7962"N	80°42'16.8100"W	10707.07	165.594	0.42	0.29	-0.31	
17680.00	89.690	161.070	7149.30	10767.22	-10460.30	2694.56	1723710.64	14358272.23	39°32'19.9069"N	80°42'16.4208"W	10801.78	165.555	0.36	-0.36	-0.04	
17775.00	89.600	161.590	7149.89	10862.21	-10550.30	2724.97	1723741.04	14358182.27	39°32'19.0165"N	80°42'16.0365"W	10896.52	165.518	0.56	-0.09	0.55	
17869.00	89.380	161.400	7150.73	10956.21	-10639.43	2754.80	1723770.86	14358093.17	39°32'18.1346"N	80°42'15.6594"W	10990.29	165.484	0.31	-0.23	-0.20	
17963.00	89.660	161.700	7151.51	11050.20	-10728.60	2784.55	1723800.59	14358004.04	39°32'17.2524"N	80°42'15.2835"W	11084.07	165.450	0.44	0.30	0.32	
18058.00	89.350	160.830	7152.33	11145.19	-10818.56	2815.06	1723831.09	14357914.11	39°32'16.3622"N	80°42'14.8978"W	11178.81	165.415	0.97	-0.33	-0.92	
18152.00	89.380	160.830	7153.38	11239.19	-10907.34	2845.93	1723861.95	14357825.36	39°32'15.4838"N	80°42'14.5076"W	11272.51	165.376	0.03	0.03	0.00	
18246.00	89.320	160.830	7154.44	11333.18	-10996.12	2876.79	1723892.80	14357736.61	39°32'14.6053"N	80°42'14.1174"W	11366.21	165.339	0.06	-0.06	0.00	
18341.00	89.720	161.450	7155.24	11428.18	-11086.02	2907.50	1723923.49	14357646.75	39°32'13.7159"N	80°42'13.7292"W	11460.95	165.304	0.78	0.42	0.65	
18436.00	89.630	161.620	7155.78	11523.17	-11176.13	2937.59	1723953.57	14357556.68	39°32'12.8243"N	80°42'13.3489"W	11555.75	165.273	0.20	-0.09	0.18	
18530.00	88.920	160.550	7156.97	11617.16	-11265.04	2968.06	1723984.03	14357467.80	39°32'11.9446"N	80°42'12.9638"W	11649.49	165.239	1.37	-0.76	-1.14	
18625.00	89.780	161.360	7158.04	11712.15	-11354.84	2999.06	1724015.01	14357378.05	39°32'11.0561"N	80°42'12.5719"W	11744.22	165.205	1.24	0.91	0.85	
18719.00	89.720	161.280	7158.45	11806.15	-11443.88	3029.16	1724045.11	14357289.03	39°32'10.1751"N	80°42'12.1914"W	11838.00	165.174	0.11	-0.06	-0.09	
18813.00	89.720	161.240	7158.91	11900.15	-11532.90	3059.36	1724075.29	14357200.05	39°32'9.2943"N	80°42'11.8097"W	11931.78	165.143	0.04	0.00	-0.04	
18908.00	89.720	161.650	7159.38	11995.14	-11622.96	3089.59	1724105.51	14357110.03	39°32'8.4032"N	80°42'11.4277"W	12026.58	165.114	0.43	0.00	0.43	
19002.00	89.140	160.710	7160.31	12089.14	-11711.93	3119.91	1724135.82	14357021.09	39°32'7.5230"N	80°42'11.0444"W	12120.36	165.084	1.17	-0.62	-1.00	
19096.00	89.690	161.670	7161.27	12183.13	-11800.90	3150.22	1724166.12	14356932.16	39°32'6.6426"N	80°42'10.6614"W	12214.14	165.054	1.18	0.59	1.02	
19191.00	89.630	161.110	7161.84	12278.12	-11890.93	3180.54	1724196.42	14356842.16	39°32'5.7518"N	80°42'10.2782"W	12308.94	165.025	0.59	-0.06	-0.59	
19285.00	89.910	161.680	7162.21	12372.12	-11980.02	3210.53	1724226.40	14356753.11	39°32'4.8704"N	80°42'9.8992"W	12402.75	164.998	0.68	0.30	0.61	
19380.00	89.540	161.230	7162.67	12467.12	-12070.08	3240.74	1724256.60	14356663.08	39°32'3.9793"N	80°42'9.5174"W	12497.57	164.971	0.61	-0.39	-0.47	

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Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
19474.00	89.690	161.490	7163.30	12561.11	-12159.15	3270.78	1724286.63	14356574.05	39°32'3.0980"N	80°42'9.1377"W	12591.39	164.944	0.32	0.16	0.28	
19569.00	89.230	160.950	7164.20	12656.11	-12249.09	3301.37	1724317.20	14356484.14	39°32'2.2081"N	80°42'8.7512"W	12686.18	164.916	0.75	-0.48	-0.57	
19663.00	89.850	161.460	7164.95	12750.10	-12338.07	3331.65	1724347.48	14356395.20	39°32'1.3277"N	80°42'8.3684"W	12779.98	164.889	0.85	0.66	0.54	
19757.00	89.880	161.340	7165.17	12844.10	-12427.16	3361.63	1724377.45	14356306.14	39°32'0.4462"N	80°42'7.9895"W	12873.81	164.863	0.13	0.03	-0.13	
19851.00	89.690	161.820	7165.53	12938.09	-12516.35	3391.33	1724407.14	14356216.99	39°31'59.5638"N	80°42'7.6142"W	12967.65	164.840	0.55	-0.20	0.51	
19946.00	89.110	160.800	7166.52	13033.08	-12606.33	3421.77	1724437.56	14356127.04	39°31'58.6735"N	80°42'7.2295"W	13062.47	164.814	1.24	-0.61	-1.07	
20040.00	88.920	161.190	7168.14	13127.07	-12695.19	3452.38	1724468.16	14356038.22	39°31'57.7943"N	80°42'6.8427"W	13156.25	164.787	0.46	-0.20	0.41	
20135.00	89.600	161.250	7169.36	13222.06	-12785.13	3482.96	1724498.73	14355948.32	39°31'56.9044"N	80°42'6.4562"W	13251.06	164.761	0.72	0.72	0.06	
20229.00	89.720	161.520	7169.92	13316.06	-12874.21	3512.97	1724528.72	14355859.27	39°31'56.0230"N	80°42'6.0770"W	13344.89	164.737	0.31	0.13	0.29	
20324.00	89.480	161.550	7170.59	13411.05	-12964.31	3543.05	1724558.80	14355769.20	39°31'55.1315"N	80°42'5.6968"W	13439.74	164.715	0.25	-0.25	0.03	
20512.00	89.720	161.130	7171.90	13599.04	-13142.43	3603.20	1724618.92	14355591.16	39°31'53.3692"N	80°42'4.9367"W	13627.42	164.668	0.26	0.13	-0.22	
20607.00	89.660	160.260	7172.41	13694.04	-13232.08	3634.61	1724650.32	14355501.54	39°31'52.4821"N	80°42'4.5397"W	13722.19	164.641	0.92	-0.06	-0.92	
20701.00	89.720	160.250	7172.92	13788.03	-13320.56	3666.37	1724682.06	14355413.10	39°31'51.6066"N	80°42'4.1381"W	13815.91	164.611	0.06	0.06	-0.01	
20795.00	89.660	160.460	7173.43	13882.02	-13409.08	3697.97	1724713.65	14355324.61	39°31'50.7307"N	80°42'3.7386"W	13909.65	164.582	0.23	-0.06	0.22	
20890.00	90.000	160.870	7173.71	13977.02	-13498.72	3729.42	1724745.09	14355235.00	39°31'49.8437"N	80°42'3.3410"W	14004.43	164.556	0.56	0.36	0.43	
20984.00	89.540	160.320	7174.09	14071.01	-13587.38	3760.65	1724776.31	14355146.38	39°31'48.9664"N	80°42'2.9462"W	14098.21	164.529	0.76	-0.49	-0.59	
21078.00	89.820	160.600	7174.61	14165.01	-13675.97	3792.09	1724807.73	14355057.83	39°31'48.0899"N	80°42'2.5487"W	14191.97	164.502	0.42	0.30	0.30	
21173.00	89.750	160.290	7174.97	14260.00	-13765.49	3823.89	1724839.52	14354968.34	39°31'47.2041"N	80°42'2.1467"W	14286.73	164.475	0.33	-0.07	-0.33	
21267.00	89.820	160.300	7175.32	14354.00	-13853.98	3855.58	1724871.20	14354879.88	39°31'46.3284"N	80°42'1.7460"W	14380.48	164.448	0.08	0.07	0.01	
21361.00	89.690	160.320	7175.72	14447.99	-13942.48	3887.25	1724902.86	14354791.42	39°31'45.4527"N	80°42'1.3455"W	14474.24	164.421	0.14	-0.14	0.02	
21455.00	89.630	160.200	7176.28	14541.98	-14030.96	3919.00	1724934.60	14354702.98	39°31'44.5772"N	80°42'0.9441"W	14567.99	164.394	0.14	-0.06	-0.13	
21550.00	89.690	160.340	7176.85	14636.97	-14120.38	3951.07	1724966.65	14354613.59	39°31'43.6924"N	80°42'0.5386"W	14662.75	164.368	0.16	0.06	0.15	
21644.00	89.660	160.340	7177.38	14730.97	-14208.90	3982.70	1724998.27	14354525.11	39°31'42.8165"N	80°42'0.1388"W	14756.51	164.342	0.03	-0.03	0.00	
21738.00	89.690	160.250	7177.91	14824.96	-14297.39	4014.39	1725029.95	14354436.65	39°31'41.9408"N	80°41'59.7381"W	14850.28	164.316	0.10	0.03	-0.10	
21833.00	89.750	160.490	7178.38	14919.95	-14386.87	4046.31	1725061.85	14354347.21	39°31'41.0555"N	80°41'59.3346"W	14945.05	164.291	0.26	0.06	0.25	
21927.00	89.540	160.690	7178.96	15013.95	-14475.53	4077.54	1725093.07	14354258.58	39°31'40.1782"N	80°41'58.9397"W	15038.86	164.268	0.31	-0.22	0.21	
22022.00	89.570	160.450	7179.70	15108.94	-14565.11	4109.14	1725124.66	14354169.03	39°31'39.2918"N	80°41'58.5403"W	15133.66	164.245	0.25	0.03	-0.25	
22211.00	89.600	160.190	7181.07	15297.92	-14743.07	4172.79	1725188.28	14353991.15	39°31'37.5309"N	80°41'57.7356"W	15322.22	164.197	0.14	0.02	-0.14	
22305.00	89.660	160.220	7181.67	15391.91	-14831.51	4204.62	1725220.11	14353902.74	39°31'36.6557"N	80°41'57.3331"W	15415.99	164.172	0.07	0.06	0.03	
22400.00	89.750	160.450	7182.16	15486.91	-14920.97	4236.59	1725252.06	14353813.32	39°31'35.7705"N	80°41'56.9290"W	15510.77	164.149	0.26	0.09	0.24	



Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
22494.00	89.660	160.370	7182.65	15580.90	-15009.53	4268.11	1725283.57	14353724.79	39°31'34.8943"N	80°41'56.5306"W	15604.57	164.126	0.13	-0.10	-0.09	
22588.00	89.660	159.960	7183.20	15674.89	-15097.95	4300.00	1725315.45	14353636.41	39°31'34.0193"N	80°41'56.1273"W	15698.35	164.103	0.44	0.00	-0.44	
22682.00	89.660	160.550	7183.76	15768.88	-15186.42	4331.76	1725347.19	14353547.97	39°31'33.1439"N	80°41'55.7258"W	15792.14	164.080	0.63	0.00	0.63	
22776.00	89.630	160.300	7184.34	15862.87	-15274.99	4363.25	1725378.67	14353459.44	39°31'32.2675"N	80°41'55.3277"W	15885.94	164.058	0.27	-0.03	-0.27	
22870.00	89.450	160.310	7185.10	15956.87	-15363.49	4394.93	1725410.34	14353370.98	39°31'31.3918"N	80°41'54.9272"W	15979.74	164.036	0.19	-0.19	0.01	
22964.00	89.200	159.800	7186.21	16050.85	-15451.84	4426.99	1725442.39	14353282.66	39°31'30.5175"N	80°41'54.5219"W	16073.51	164.013	0.60	-0.27	-0.54	
23059.00	89.350	160.270	7187.41	16145.83	-15541.12	4459.43	1725474.81	14353193.41	39°31'29.6341"N	80°41'54.1118"W	16168.27	163.989	0.52	0.16	0.49	
23247.00	89.690	160.700	7188.98	16333.81	-15718.32	4522.23	1725537.58	14353016.28	39°31'27.8807"N	80°41'53.3179"W	16355.92	163.949	0.29	0.18	0.23	
23341.00	89.690	160.330	7189.49	16427.81	-15806.93	4553.58	1725568.93	14352927.70	39°31'27.0039"N	80°41'52.9216"W	16449.75	163.930	0.39	0.00	-0.39	
23435.00	89.750	160.570	7189.95	16521.80	-15895.51	4585.04	1725600.37	14352839.16	39°31'26.1274"N	80°41'52.5240"W	16543.57	163.910	0.26	0.06	0.26	
23529.00	89.750	160.710	7190.36	16615.80	-15984.20	4616.20	1725631.52	14352750.51	39°31'25.2499"N	80°41'52.1302"W	16637.42	163.891	0.15	0.00	0.15	
23718.00	89.820	160.700	7191.07	16804.80	-16162.58	4678.65	1725693.94	14352572.20	39°31'23.4848"N	80°41'51.3409"W	16826.13	163.856	0.04	0.04	-0.01	
23812.00	89.570	160.430	7191.57	16898.79	-16251.22	4709.93	1725725.21	14352483.59	39°31'22.6077"N	80°41'50.9456"W	16919.98	163.837	0.39	-0.27	-0.29	
23906.00	89.690	160.460	7192.18	16992.79	-16339.80	4741.39	1725756.66	14352395.05	39°31'21.7312"N	80°41'50.5479"W	17013.81	163.819	0.13	0.13	0.03	
24001.00	89.850	160.570	7192.56	17087.78	-16429.36	4773.08	1725788.33	14352305.53	39°31'20.8450"N	80°41'50.1474"W	17108.65	163.800	0.20	0.17	0.12	
24095.00	89.690	160.360	7192.94	17181.78	-16517.94	4804.51	1725819.75	14352216.97	39°31'19.9684"N	80°41'49.7501"W	17202.49	163.782	0.28	-0.17	-0.22	
24190.00	89.720	160.260	7193.43	17276.77	-16607.39	4836.52	1725851.75	14352127.56	39°31'19.0834"N	80°41'49.3455"W	17297.32	163.763	0.11	0.03	-0.11	
24284.00	89.820	160.600	7193.80	17370.77	-16695.96	4868.00	1725883.22	14352039.03	39°31'18.2070"N	80°41'48.9475"W	17391.16	163.745	0.38	0.11	0.36	
24378.00	89.720	160.430	7194.18	17464.76	-16784.57	4899.36	1725914.56	14351950.45	39°31'17.3301"N	80°41'48.5512"W	17485.01	163.728	0.21	-0.11	-0.18	
24473.00	89.720	160.310	7194.64	17559.76	-16874.05	4931.27	1725946.47	14351861.01	39°31'16.4447"N	80°41'48.1478"W	17579.85	163.710	0.13	0.00	-0.13	
24567.00	89.750	160.700	7195.08	17653.75	-16962.66	4962.64	1725977.82	14351772.43	39°31'15.5679"N	80°41'47.7513"W	17673.70	163.692	0.42	0.03	0.41	
24661.00	89.660	160.340	7195.56	17747.75	-17051.28	4993.99	1726009.16	14351683.85	39°31'14.6911"N	80°41'47.3551"W	17767.55	163.676	0.39	-0.10	-0.38	
24756.00	89.690	160.630	7196.10	17842.74	-17140.82	5025.72	1726040.88	14351594.34	39°31'13.8050"N	80°41'46.9540"W	17862.41	163.659	0.31	0.03	0.31	
24850.00	89.780	160.700	7196.54	17936.74	-17229.52	5056.84	1726071.99	14351505.68	39°31'12.9274"N	80°41'46.5607"W	17956.28	163.643	0.12	0.10	0.07	
24945.00	89.720	160.220	7196.95	18031.73	-17319.04	5088.62	1726103.75	14351416.19	39°31'12.0415"N	80°41'46.1591"W	18051.13	163.626	0.51	-0.06	-0.51	
25039.00	89.600	160.640	7197.51	18125.73	-17407.61	5120.10	1726135.22	14351327.66	39°31'11.1651"N	80°41'45.7612"W	18144.98	163.610	0.46	-0.13	0.45	
25134.00	89.690	160.420	7198.10	18220.72	-17497.18	5151.77	1726166.87	14351238.13	39°31'10.2788"N	80°41'45.3610"W	18239.85	163.594	0.25	0.09	-0.23	
25228.00	89.630	160.160	7198.66	18314.72	-17585.67	5183.47	1726198.56	14351149.67	39°31'9.4032"N	80°41'44.9603"W	18333.69	163.577	0.28	-0.06	-0.28	
25323.00	89.720	160.490	7199.19	18409.71	-17675.12	5215.45	1726230.54	14351060.25	39°31'8.5181"N	80°41'44.5560"W	18428.53	163.560	0.36	0.09	0.35	
25417.00	89.750	160.760	7199.63	18503.70	-17763.80	5246.64	1726261.71	14350971.61	39°31'7.6406"N	80°41'44.1619"W	18522.41	163.545	0.29	0.03	0.29	

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Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
25512.00	89.660	160.530	7200.12	18598.70	-17853.43	5278.12	1726293.18	14350882.02	39°31'6.7537"N	80°41'43.7640"W	18617.29	163.530	0.26	-0.09	-0.24	
25606.00	89.690	160.420	7200.65	18692.70	-17942.02	5309.54	1726324.58	14350793.46	39°31'5.8771"N	80°41'43.3670"W	18711.15	163.515	0.12	0.03	-0.12	
25701.00	89.720	160.550	7201.14	18787.69	-18031.56	5341.27	1726356.31	14350703.95	39°31'4.9911"N	80°41'42.9659"W	18806.02	163.500	0.14	0.03	0.14	
25795.00	89.820	160.710	7201.52	18881.69	-18120.24	5372.45	1726387.47	14350615.31	39°31'4.1136"N	80°41'42.5720"W	18899.90	163.485	0.20	0.11	0.17	
25889.00	89.720	161.660	7201.90	18975.69	-18209.21	5402.76	1726417.77	14350526.37	39°31'3.2332"N	80°41'42.1890"W	18993.82	163.474	1.02	-0.11	1.01	
25984.00	89.600	161.520	7202.46	19070.68	-18299.35	5432.77	1726447.76	14350436.27	39°31'2.3414"N	80°41'41.8100"W	19088.77	163.465	0.19	-0.13	-0.15	
26078.00	89.630	161.570	7203.09	19164.67	-18388.52	5462.52	1726477.51	14350347.14	39°31'1.4591"N	80°41'41.4342"W	19182.72	163.455	0.06	0.03	0.05	
26173.00	89.780	161.330	7203.58	19259.67	-18478.58	5492.74	1726507.72	14350257.11	39°31'0.5680"N	80°41'41.0525"W	19277.66	163.445	0.30	0.16	-0.25	
26268.00	89.690	161.500	7204.02	19354.66	-18568.62	5523.02	1726537.98	14350167.10	39°30'59.6771"N	80°41'40.6701"W	19372.60	163.435	0.20	-0.09	0.18	
26362.00	89.690	161.740	7204.53	19448.66	-18657.83	5552.66	1726567.61	14350077.94	39°30'58.7944"N	80°41'40.2957"W	19466.55	163.427	0.26	0.00	0.26	
26456.00	89.660	161.700	7205.06	19542.65	-18747.08	5582.15	1726597.08	14349988.72	39°30'57.9113"N	80°41'39.9234"W	19560.51	163.419	0.05	-0.03	-0.04	
26551.00	89.750	161.960	7205.55	19637.64	-18837.34	5611.77	1726626.70	14349898.49	39°30'57.0183"N	80°41'39.5493"W	19655.47	163.411	0.29	0.09	0.27	
26645.00	89.690	161.510	7206.01	19731.63	-18926.61	5641.23	1726656.14	14349809.26	39°30'56.1351"N	80°41'39.1773"W	19749.43	163.403	0.48	-0.06	-0.48	
26739.00	89.630	161.580	7206.57	19825.62	-19015.77	5670.99	1726685.89	14349720.13	39°30'55.2528"N	80°41'38.8015"W	19843.38	163.394	0.10	-0.06	0.07	
26834.00	89.690	161.610	7207.13	19920.61	-19105.91	5700.98	1726715.87	14349630.03	39°30'54.3609"N	80°41'38.4227"W	19938.33	163.386	0.07	0.06	0.03	
26928.00	89.510	161.640	7207.79	20014.60	-19195.11	5730.61	1726745.49	14349540.86	39°30'53.4783"N	80°41'38.0485"W	20032.28	163.377	0.19	-0.19	0.03	
27116.00	90.000	161.170	7208.59	20202.60	-19373.30	5790.56	1726805.41	14349362.75	39°30'51.7153"N	80°41'37.2913"W	20220.17	163.359	0.36	0.26	-0.25	
27211.00	89.660	161.790	7208.87	20297.59	-19463.38	5820.73	1726835.58	14349272.70	39°30'50.8240"N	80°41'36.9102"W	20315.12	163.350	0.74	-0.36	0.65	
27305.00	89.750	161.570	7209.36	20391.58	-19552.61	5850.28	1726865.11	14349183.50	39°30'49.9411"N	80°41'36.5371"W	20409.08	163.342	0.25	0.10	-0.23	
27399.00	89.820	161.530	7209.71	20485.58	-19641.78	5880.03	1726894.85	14349094.37	39°30'49.0588"N	80°41'36.1614"W	20503.03	163.334	0.09	0.07	-0.04	
27494.00	89.690	161.740	7210.12	20580.57	-19731.94	5909.96	1726924.77	14349004.25	39°30'48.1667"N	80°41'35.7834"W	20597.99	163.326	0.26	-0.14	0.22	
27588.00	89.600	161.480	7210.70	20674.56	-19821.14	5939.61	1726954.41	14348915.08	39°30'47.2841"N	80°41'35.4089"W	20691.94	163.319	0.29	-0.10	-0.28	
27683.00	89.690	161.470	7211.29	20769.56	-19911.21	5969.80	1726984.58	14348825.04	39°30'46.3929"N	80°41'35.0277"W	20786.89	163.310	0.10	0.09	-0.01	
27778.00	89.820	161.230	7211.69	20864.55	-20001.22	6000.18	1727014.95	14348735.07	39°30'45.5023"N	80°41'34.6440"W	20881.84	163.301	0.29	0.14	-0.25	
27872.00	89.630	161.770	7212.14	20958.55	-20090.36	6030.00	1727044.76	14348645.96	39°30'44.6202"N	80°41'34.2674"W	20975.79	163.293	0.61	-0.20	0.57	
27966.00	89.170	161.780	7213.13	21052.53	-20179.64	6059.40	1727074.15	14348556.72	39°30'43.7369"N	80°41'33.8962"W	21069.75	163.286	0.49	-0.49	0.01	
28156.00	89.260	161.990	7215.73	21242.49	-20360.21	6118.47	1727133.20	14348376.22	39°30'41.9503"N	80°41'33.1504"W	21259.68	163.274	0.12	0.05	0.11	
28251.00	89.380	161.400	7216.86	21337.48	-20450.40	6148.30	1727163.02	14348286.07	39°30'41.0580"N	80°41'32.7736"W	21354.63	163.267	0.63	0.13	-0.62	
28345.00	89.420	160.640	7217.84	21431.47	-20539.28	6178.88	1727193.58	14348197.23	39°30'40.1785"N	80°41'32.3875"W	21448.55	163.257	0.81	0.04	-0.81	
28440.00	89.380	161.810	7218.84	21526.46	-20629.22	6209.45	1727224.14	14348107.32	39°30'39.2886"N	80°41'32.0013"W	21543.49	163.248	1.23	-0.04	1.23	

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Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (302 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
28512.00	89.350	161.710	7219.64	21598.45	-20697.60	6231.98	1727246.66	14348038.97	39°30'38.6120"N	80°41'31.7168"W	21615.46	163.243	0.14	-0.04	-0.14	
28537.00‡	89.350	161.710	7219.92	21623.45	-20721.33	6239.83	1727254.51	14348015.24	39°30'38.3771"N	80°41'31.6177"W	21640.45	163.241	0.00	0.00	0.00	Projected MD at TD: 28537'

HOLE & CASING SECTIONS - Ref Wellbore: Wilma Unit 1H AWB Ref Wellpath: Wilma Unit 1H AWP Proj: 28537'

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	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.16	0.02
17.5in Open Hole	130.00	737.00	607.00	130.00	736.98	-0.16	0.02	-3.38	-2.06
13.375in Casing Surface	30.00	717.00	687.00	30.00	716.98	0.00	0.00	-3.42	-2.00
12.25in Open Hole	737.00	3565.00	2828.00	736.98	3540.26	-3.38	-2.06	-65.29	-306.25
9.625in Casing Intermediate	30.00	3534.00	3504.00	30.00	3509.63	0.00	0.00	-63.94	-301.69
8.75in Open Hole	3565.00	6870.00	3305.00	3540.26	6774.98	-65.29	-306.25	-349.02	-761.98
8.5in Open Hole	6870.00	28537.00	21667.00	6774.98	7219.92	-349.02	-761.98	-20721.33	6239.83
5.5in Casing Production	30.00	28517.00	28487.00	30.00	7219.69	0.00	0.00	-20702.34	6233.55

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Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Wilma Unit 1H POE Rev-2	7102.00	-734.49	-640.89	1720376.50	14367994.20	39°33'56.1353"N	80°42'58.6024"W	point
Wilma Unit 1H LP Rev-2	7130.00	-919.61	-577.06	1720440.31	14367809.15	39°33'54.3038"N	80°42'57.7948"W	point
Wilma Unit 1H BHL Rev-3	7203.09	-20714.91	6249.07	1727263.75	14348021.66	39°30'38.4403"N	80°41'31.4995"W	point
Wilma Unit 1H BHL Rev-2	7203.86	-20922.64	6320.70	1727335.35	14347814.02	39°30'36.3849"N	80°41'30.5947"W	point
Wilma Unit 1H 50' L/R Hard Line R-2	7500.00	-10724.70	2804.09	1723820.12	14358007.93	39°32'17.2902"N	80°42'15.0339"W	rectangle
2D Rectangle 21135 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Wilma Unit 1H AWB Ref Wellpath: Wilma Unit 1H AWP Proj: 28537'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	646.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-646')	Wilma Unit 1H AWB	12/2/2023
646.00	3495.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (646')(771'-3495')	Wilma Unit 1H AWB	12/2/2023
3495.00	6797.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3495')(3591'-6797')	Wilma Unit 1H AWB	1/17/2024
6797.00	28537.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (6797')(6846'-28512')	Wilma Unit 1H AWB	1/17/2024

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Actual Wellpath Report

Wilma Unit 1H AWP Proj: 28537'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Wilma Unit 1H
Field	Wetzel	API	47-103-03613-0000
Facility	Cedar Pad	Wellbore	Wilma Unit 1H AWB
Slot	Slot B		

COMMENTS
<p>Wellpath general comments API: 47-103-03613-0000 BH Job #: 112047840 Rig: H&P 519 Duration: 1/21/2024-1/27/2024 Gyrodata MS Gyro <17-1/2"> (100'-646') APS EM <12-1/4"> (646')(771'-3495') APS EM <8-3/4"> (3495')(3591'-6797') BH AT Curve <8-1/2"> (6797')(6846'-28512') Sycamore: 6850' MD Middlesex: 7012' MD Burkett: 7161' MD Tully: 7213' MD Marcellus POE: 7439' MD Projected MD at TD: 28537'</p>

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