



ANTERO RESOURCES CORPORATION

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

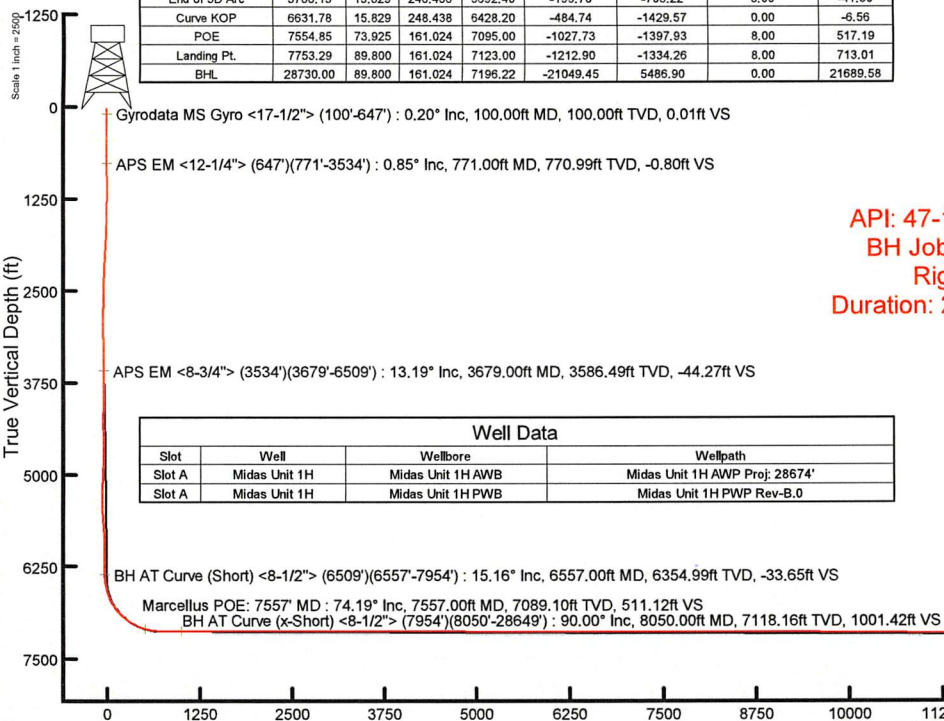
Slot: Slot A
Well: Midas Unit 1H
Wellbore: Midas Unit 1H PWB



Plot reference wellpath is Midas Unit 1H PWB Rev-B.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 A): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2024-02-26; Database: WA MPL_EASTERNUS_Dein

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)	Latitude	Longitude
Slot A	0.00	0.00	1721002.500	14368725.810	39°34'3.3492"N	80°42'50.5764"W
Comment	Midas Unit 1H					
H&P 519 (RKB) to Ground level (At Slot: Slot A)			30ft			
Mean Sea Level to Ground level (At Slot: Slot A)			-1250ft			
H&P 519 (RKB) to Mean Sea Level			1280ft			

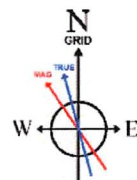
Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3534.00	12.790	246.820	3445.20	-176.88	-653.93	-45.42
Proj. to Bottom	3606.00	12.790	246.820	3515.41	-183.15	-668.58	-44.25
Drill Out	3686.00	12.790	246.820	3593.43	-190.12	-684.86	-42.96
End of 3D Arc	3788.15	15.829	248.438	3692.40	-199.70	-708.22	-41.50
Curve KOP	6631.78	15.829	248.438	6428.20	-484.74	-1429.57	-6.56
POE	7554.85	73.925	161.024	7095.00	-1027.73	-1397.93	517.19
Landing Pt.	7753.29	89.800	161.024	7123.00	-1212.90	-1334.26	713.01
BHL	28730.00	89.800	161.024	7196.22	-21049.45	5486.90	0.00



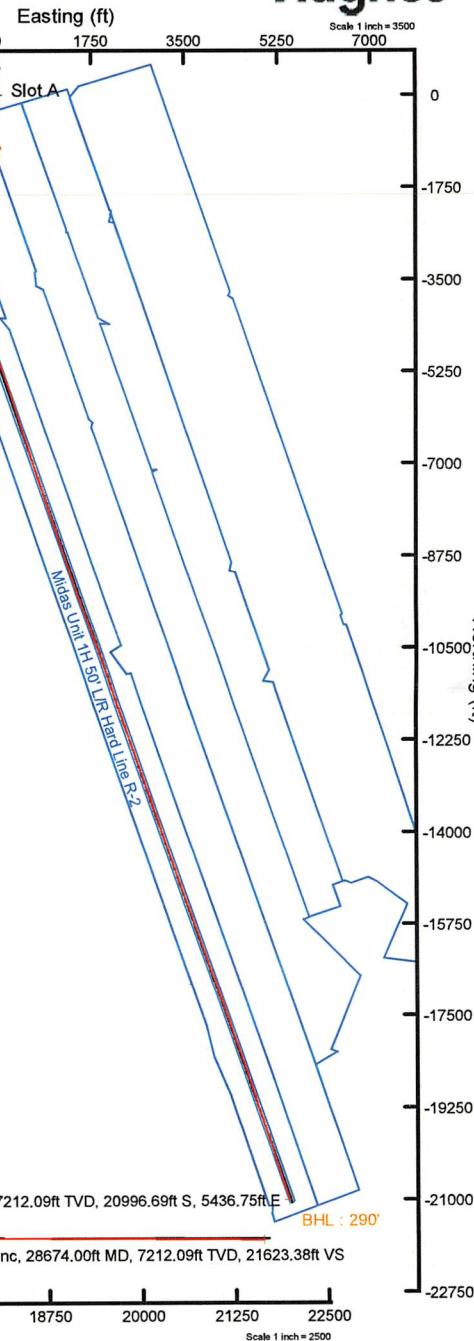
API: 47-103-03612-0000
BH Job #: 112047838
Rig: H&P 519
Duration: 2/2/2024-2/8/2024

Well Data			
Slot	Well	Wellbore	Wellpath
Slot A	Midas Unit 1H	Midas Unit 1H AWB	Midas Unit 1H AWP Proj: 28674'
Slot A	Midas Unit 1H	Midas Unit 1H PWB	Midas Unit 1H PWP Rev-B.0

Gyrodata MS Gyro <17-1/2"> (100'-647') : 100.00ft TVD, 0.05ft S, 0.11ft W
 APS EM <12-1/4"> (647')(771'-3534') : 770.99ft TVD, 0.23ft N, 1.79ft W
 APS EM <8-3/4"> (3534')(3679'-6509') : 3586.49ft TVD, 188.56ft S, 684.34ft W
 BH AT Curve (Short) <8-1/2"> (6509')(6557'-7954') : 6354.99ft TVD, 451.17ft S, 1415.26ft W
 Marcellus POE: 7557' MD : 7089.10ft TVD, 1021.12ft S, 1397.39ft W
 BH AT Curve (x-Short) <8-1/2"> (7954')(8050'-28649') : 7118.16ft TVD, 1484.19ft S, 1236.24ft W



User specified (HDGM) Dip: 66.32° Field: 51675 nT
 Magnetic North is 7.93 degrees West of True North (at 12/31/2023)
 Grid North is 0.18 degrees East of True North
 To correct azimuth from True to Grid subtract 0.18 degrees
 To correct azimuth from Magnetic to Grid subtract 8.11 degrees



Vertical Section (ft)
Azimuth 161.02° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 1 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

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 5:27:53 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	0.00	0.00	1721002.50	14368725.81	39°34'3.3492"N	80°42'50.5764"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 A)	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	161.02°

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Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 2 of 14



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Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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	244.530	0.00	0.00	0.00	0.00	1721002.50	14368725.81	39°34'3.3492"N	80°42'50.5764"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	244.530	30.00	0.00	0.00	0.00	1721002.50	14368725.81	39°34'3.3492"N	80°42'50.5764"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.200	244.530	100.00	0.01	-0.05	-0.11	1721002.39	14368725.76	39°34'3.3487"N	80°42'50.5778"W	0.12	244.530	0.29	0.29	0.00	Gyrodatta MS Gyro <17-1/2"> (100'-647')
200.00	0.040	289.620	200.00	0.01	-0.12	-0.30	1721002.20	14368725.69	39°34'3.3481"N	80°42'50.5802"W	0.32	248.929	0.17	-0.16	45.09	
300.00	0.060	260.210	300.00	-0.02	-0.11	-0.39	1721002.11	14368725.70	39°34'3.3481"N	80°42'50.5813"W	0.40	253.644	0.03	0.02	-29.41	
400.00	0.150	299.010	400.00	-0.12	-0.06	-0.55	1721001.95	14368725.75	39°34'3.3487"N	80°42'50.5834"W	0.55	263.945	0.11	0.09	38.80	
500.00	0.160	279.960	500.00	-0.29	0.03	-0.80	1721001.70	14368725.84	39°34'3.3495"N	80°42'50.5866"W	0.80	272.078	0.05	0.01	-19.05	
600.00	0.130	355.250	600.00	-0.47	0.17	-0.95	1721001.55	14368725.98	39°34'3.3509"N	80°42'50.5885"W	0.96	279.930	0.18	-0.03	75.29	
647.00	0.350	352.960	647.00	-0.66	0.36	-0.97	1721001.53	14368726.17	39°34'3.3528"N	80°42'50.5888"W	1.04	290.421	0.47	0.47	-4.87	
771.00	0.850	236.620	770.99	-0.80	0.23	-1.79	1721000.71	14368726.04	39°34'3.3516"N	80°42'50.5992"W	1.80	277.392	0.85	0.40	-93.82	APS EM <12-1/4"> (647')(771'-3534')
861.00	4.170	239.490	860.89	0.02	-1.80	-5.16	1720997.34	14368724.01	39°34'3.3316"N	80°42'50.6424"W	5.47	250.810	3.69	3.69	3.19	
951.00	7.340	244.740	950.43	1.30	-5.91	-13.18	1720989.32	14368719.90	39°34'3.2912"N	80°42'50.7450"W	14.45	245.845	3.57	3.52	5.83	
1042.00	10.570	250.130	1040.31	2.07	-11.23	-26.30	1720976.22	14368714.58	39°34'3.2390"N	80°42'50.9126"W	28.59	246.871	3.66	3.55	5.92	
1136.00	12.810	250.330	1132.36	2.33	-17.67	-44.22	1720958.30	14368708.15	39°34'3.1760"N	80°42'51.1417"W	47.62	248.217	2.38	2.38	0.21	
1230.00	15.200	253.360	1223.56	1.95	-24.71	-65.84	1720936.68	14368701.11	39°34'3.1071"N	80°42'51.4181"W	70.32	249.430	2.66	2.54	3.22	
1325.00	16.140	255.400	1315.02	0.43	-31.60	-90.55	1720911.98	14368694.22	39°34'3.0397"N	80°42'51.7339"W	95.91	250.761	1.15	0.99	2.15	
1420.00	15.500	252.960	1406.43	-1.00	-38.65	-115.47	1720887.08	14368687.17	39°34'2.9708"N	80°42'52.0523"W	121.76	251.493	0.97	-0.67	-2.57	
1514.00	15.310	257.950	1497.05	-2.93	-44.92	-139.61	1720862.94	14368680.90	39°34'2.9096"N	80°42'52.3609"W	146.66	252.164	1.42	-0.20	5.31	
1609.00	15.360	260.880	1588.67	-6.59	-49.54	-164.30	1720838.26	14368676.29	39°34'2.8648"N	80°42'52.6764"W	171.61	253.222	0.82	0.05	3.08	
1703.00	15.170	258.910	1679.36	-10.42	-53.87	-188.66	1720813.91	14368671.96	39°34'2.8227"N	80°42'52.9876"W	196.21	254.063	0.59	-0.20	-2.10	
1798.00	14.960	258.740	1771.09	-13.77	-58.66	-212.89	1720789.70	14368667.17	39°34'2.7762"N	80°42'53.2971"W	220.82	254.595	0.23	-0.22	-0.18	
1892.00	15.930	260.260	1861.70	-17.47	-63.21	-237.50	1720765.09	14368662.62	39°34'2.7319"N	80°42'53.6116"W	245.77	255.096	1.12	1.03	1.62	
1986.00	16.710	263.590	1951.91	-22.48	-66.90	-263.65	1720738.96	14368658.93	39°34'2.6963"N	80°42'53.9456"W	272.00	255.761	1.30	0.83	3.54	
2081.00	16.630	261.710	2042.92	-27.98	-70.39	-290.67	1720711.94	14368655.45	39°34'2.6627"N	80°42'54.2908"W	299.07	256.388	0.57	-0.08	-1.98	
2176.00	16.320	260.380	2134.02	-32.67	-74.58	-317.28	1720685.34	14368651.26	39°34'2.6221"N	80°42'54.6308"W	325.93	256.773	0.51	-0.33	-1.40	
2270.00	16.170	259.490	2224.27	-36.74	-79.17	-343.17	1720659.46	14368646.67	39°34'2.5775"N	80°42'54.9616"W	352.19	257.009	0.31	-0.16	-0.95	
2365.00	16.250	258.140	2315.49	-40.34	-84.32	-369.19	1720633.46	14368641.53	39°34'2.5275"N	80°42'55.2940"W	378.69	257.135	0.41	0.08	-1.42	
2459.00	16.050	255.700	2405.78	-43.03	-90.23	-394.65	1720608.00	14368635.62	39°34'2.4698"N	80°42'55.6193"W	404.83	257.122	0.75	-0.21	-2.60	
2553.00	15.950	255.210	2496.14	-45.03	-96.74	-419.73	1720582.94	14368629.11	39°34'2.4063"N	80°42'55.9398"W	430.73	257.021	0.18	-0.11	-0.52	
2648.00	15.750	254.220	2587.53	-46.71	-103.58	-444.76	1720557.92	14368622.28	39°34'2.3395"N	80°42'56.2597"W	456.66	256.891	0.35	-0.21	-1.04	

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Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 3 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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	15.740	254.010	2678.00	-48.09	-110.56	-469.29	1720533.39	14368615.30	39°34'2.2713"N	80°42'56.5733"W	482.14	256.744	0.06	-0.01	-0.22	
2837.00	15.360	252.830	2769.52	-49.16	-117.82	-493.70	1720508.99	14368608.04	39°34'2.2002"N	80°42'56.8852"W	507.56	256.578	0.52	-0.40	-1.24	
2932.00	15.010	251.760	2861.21	-49.71	-125.39	-517.41	1720485.30	14368600.47	39°34'2.1262"N	80°42'57.1882"W	532.38	256.378	0.47	-0.37	-1.13	
3027.00	14.900	251.390	2952.99	-49.95	-133.13	-540.66	1720462.05	14368592.73	39°34'2.0504"N	80°42'57.4855"W	556.81	256.167	0.15	-0.12	-0.39	
3121.00	14.280	249.340	3043.96	-49.69	-141.08	-562.97	1720439.76	14368584.78	39°34'1.9725"N	80°42'57.7706"W	580.37	255.931	0.86	-0.66	-2.18	
3215.00	14.560	249.330	3135.00	-49.00	-149.34	-584.87	1720417.86	14368576.53	39°34'1.8916"N	80°42'58.0506"W	603.63	255.676	0.30	0.30	-0.01	
3310.00	13.670	249.070	3227.13	-48.26	-157.57	-606.53	1720396.21	14368568.31	39°34'1.8109"N	80°42'58.3275"W	626.66	255.437	0.94	-0.94	-0.27	
3405.00	13.270	247.820	3319.51	-47.27	-165.69	-627.11	1720375.64	14368560.18	39°34'1.7313"N	80°42'58.5906"W	648.63	255.200	0.52	-0.42	-1.32	
3499.00	12.900	247.170	3411.07	-45.97	-173.84	-646.77	1720355.99	14368552.04	39°34'1.6514"N	80°42'58.8420"W	669.72	254.956	0.42	-0.39	-0.69	
3534.00	12.790	246.820	3445.20	-45.42	-176.88	-653.93	1720348.83	14368549.00	39°34'1.6216"N	80°42'58.9336"W	677.43	254.865	0.38	-0.31	-1.00	
3679.00	13.190	251.090	3586.49	-44.27	-188.56	-684.34	1720318.43	14368537.33	39°34'1.5071"N	80°42'59.3223"W	709.84	254.595	0.72	0.28	2.94	APS EM <8-3/4"> (3534')(3679'-6509')
3773.00	13.790	256.590	3677.90	-45.37	-194.63	-705.38	1720297.40	14368531.26	39°34'1.4477"N	80°42'59.5912"W	731.74	254.575	1.51	0.64	5.85	
3867.00	15.370	251.920	3768.87	-46.65	-201.10	-728.12	1720274.66	14368524.79	39°34'1.3845"N	80°42'59.8819"W	755.38	254.561	2.09	1.68	-4.97	
3962.00	16.050	250.280	3860.32	-46.68	-209.44	-752.45	1720250.34	14368516.46	39°34'1.3029"N	80°43'0.1929"W	781.06	254.446	0.85	0.72	-1.73	
4057.00	15.670	247.710	3951.71	-45.77	-218.73	-776.69	1720226.12	14368507.16	39°34'1.2117"N	80°43'0.5027"W	806.90	254.272	0.84	-0.40	-2.71	
4151.00	16.970	253.420	4041.92	-45.61	-227.46	-801.58	1720201.23	14368498.44	39°34'1.1262"N	80°43'0.8210"W	833.23	254.158	2.20	1.38	6.07	
4245.00	17.820	257.970	4131.63	-47.92	-234.38	-828.80	1720174.03	14368491.53	39°34'1.0587"N	80°43'1.1688"W	861.30	254.210	1.71	0.90	4.84	
4339.00	16.650	252.920	4221.41	-50.11	-241.33	-855.74	1720147.09	14368484.58	39°34'0.9909"N	80°43'1.5131"W	889.12	254.251	2.02	-1.24	-5.37	
4434.00	15.550	248.930	4312.69	-50.10	-249.91	-880.64	1720122.21	14368476.00	39°34'0.9069"N	80°43'1.8313"W	915.41	254.157	1.64	-1.16	-4.20	
4528.00	14.870	246.600	4403.39	-48.71	-259.23	-903.46	1720099.39	14368466.69	39°34'0.8155"N	80°43'2.1232"W	939.92	253.991	0.97	-0.72	-2.48	
4623.00	14.230	243.030	4495.35	-46.15	-269.36	-925.06	1720077.81	14368456.55	39°34'0.7160"N	80°43'2.3993"W	963.48	253.765	1.16	-0.67	-3.76	
4717.00	14.110	253.910	4586.51	-45.12	-277.78	-946.37	1720056.51	14368448.14	39°34'0.6334"N	80°43'2.6717"W	986.29	253.642	2.83	-0.13	11.57	
4811.00	12.710	252.880	4677.94	-46.03	-284.00	-967.26	1720035.62	14368441.92	39°34'0.5726"N	80°43'2.9388"W	1008.09	253.637	1.51	-1.49	-1.10	
4906.00	12.200	253.040	4770.70	-46.72	-290.00	-986.85	1720016.04	14368435.92	39°34'0.5139"N	80°43'3.1891"W	1028.58	253.624	0.54	-0.54	0.17	
5000.00	11.530	257.030	4862.70	-48.06	-295.01	-1005.51	1719997.39	14368430.92	39°34'0.4650"N	80°43'3.4276"W	1047.89	253.649	1.13	-0.71	4.24	
5094.00	12.750	255.920	4954.59	-49.93	-299.64	-1024.72	1719978.18	14368426.29	39°34'0.4198"N	80°43'3.6731"W	1067.63	253.700	1.32	1.30	-1.18	
5189.00	16.550	262.450	5046.49	-53.51	-303.97	-1048.31	1719954.60	14368421.96	39°34'0.3777"N	80°43'3.9745"W	1091.49	253.830	4.36	4.00	6.87	
5283.00	17.020	260.410	5136.49	-58.40	-308.02	-1075.15	1719927.77	14368417.91	39°34'0.3385"N	80°43'4.3174"W	1118.40	254.013	0.80	0.50	-2.17	
5378.00	18.280	255.430	5227.02	-61.82	-314.09	-1103.28	1719899.65	14368411.85	39°34'0.2795"N	80°43'4.6768"W	1147.12	254.109	2.07	1.33	-5.24	
5472.00	18.800	250.620	5316.15	-62.85	-322.82	-1131.84	1719871.11	14368403.11	39°34'0.1940"N	80°43'5.0418"W	1176.98	254.081	1.72	0.55	-5.12	

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Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 4 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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
5566.00	17.030	246.020	5405.59	-61.54	-333.44	-1158.71	1719844.25	14368392.50	39°34'0.0899"N	80°43'5.3853"W	1205.73	253.946	2.41	-1.88	-4.89	
5661.00	18.280	243.760	5496.12	-58.45	-345.69	-1184.78	1719818.18	14368380.26	39°33'59.9697"N	80°43'5.7188"W	1234.19	253.734	1.50	1.32	-2.38	
5755.00	18.700	241.820	5585.26	-54.17	-359.32	-1211.29	1719791.69	14368366.63	39°33'59.8358"N	80°43'6.0578"W	1263.46	253.477	0.79	0.45	-2.06	
5850.00	16.990	236.530	5675.70	-48.26	-374.17	-1236.30	1719766.69	14368351.79	39°33'59.6898"N	80°43'6.3777"W	1291.68	253.161	2.48	-1.80	-5.57	
5944.00	16.650	237.140	5765.67	-41.60	-389.05	-1259.06	1719743.93	14368336.91	39°33'59.5434"N	80°43'6.6690"W	1317.80	252.829	0.41	-0.36	0.65	
6038.00	16.970	243.230	5855.67	-36.51	-402.54	-1282.63	1719720.38	14368323.43	39°33'59.4108"N	80°43'6.9704"W	1344.31	252.576	1.90	0.34	6.48	
6132.00	17.090	252.480	5945.56	-35.00	-412.88	-1308.05	1719694.97	14368313.10	39°33'59.3095"N	80°43'7.2954"W	1371.66	252.482	2.88	0.13	9.84	
6227.00	15.880	251.470	6036.65	-35.46	-421.21	-1333.69	1719669.34	14368304.77	39°33'59.2279"N	80°43'7.6231"W	1398.62	252.473	1.31	-1.27	-1.06	
6321.00	15.520	251.470	6127.15	-35.66	-429.29	-1357.80	1719645.23	14368296.69	39°33'59.1487"N	80°43'7.9314"W	1424.05	252.455	0.38	-0.38	0.00	
6415.00	14.910	249.990	6217.85	-35.54	-437.43	-1381.09	1719621.95	14368288.56	39°33'59.0691"N	80°43'8.2291"W	1448.71	252.426	0.77	-0.65	-1.57	
6509.00	15.090	246.190	6308.65	-34.29	-446.50	-1403.65	1719599.40	14368279.48	39°33'58.9800"N	80°43'8.5175"W	1472.96	252.354	1.06	0.19	-4.04	
6557.00	15.160	250.010	6354.99	-33.65	-451.17	-1415.26	1719587.79	14368274.82	39°33'58.9343"N	80°43'8.6660"W	1485.44	252.318	2.08	0.15	7.96	BH AT Curve (Short) <8-1/2"> (6509')(6557'-7954')
6635.00	17.000	230.290	6429.99	-29.43	-461.95	-1433.64	1719569.43	14368264.04	39°33'58.8283"N	80°43'8.9010"W	1506.22	252.140	7.35	2.36	-25.28	
6729.00	20.070	217.200	6519.14	-15.58	-483.59	-1453.97	1719549.10	14368242.41	39°33'58.6150"N	80°43'9.1615"W	1532.29	251.603	5.48	3.27	-13.93	
6824.00	23.440	201.070	6607.44	7.98	-514.25	-1470.64	1719532.44	14368211.77	39°33'58.3126"N	80°43'9.3756"W	1557.96	250.727	7.19	3.55	-16.98	
6918.00	27.990	187.280	6692.19	42.12	-553.63	-1480.17	1719522.91	14368172.40	39°33'57.9237"N	80°43'9.4988"W	1580.32	249.493	7.97	4.84	-14.67	
6986.00†	32.150	181.674	6751.03	73.38	-587.56	-1482.72	1719520.36	14368138.48	39°33'57.5884"N	80°43'9.5328"W	1594.90	248.383	7.38	6.12	-8.24	Sycamore: 6986' MD
7013.00	33.860	179.800	6773.68	87.23	-602.27	-1482.91	1719520.18	14368123.78	39°33'57.4431"N	80°43'9.5357"W	1600.54	247.896	7.38	6.33	-6.94	
7107.00	40.120	174.950	6848.74	141.48	-658.69	-1480.15	1719522.94	14368067.38	39°33'56.8853"N	80°43'9.5027"W	1620.09	246.010	7.34	6.66	-5.16	
7145.00†	42.879	173.131	6877.20	166.01	-683.73	-1477.52	1719525.56	14368042.35	39°33'56.6378"N	80°43'9.4702"W	1628.05	245.167	7.92	7.26	-4.79	Middlesex: 7145' MD
7201.00	46.990	170.770	6916.83	204.84	-722.87	-1471.96	1719531.13	14368003.22	39°33'56.2507"N	80°43'9.4007"W	1639.88	243.844	7.92	7.34	-4.22	
7293.00†	54.526	169.240	6974.99	275.17	-792.98	-1459.55	1719543.53	14367933.14	39°33'55.5575"N	80°43'9.2450"W	1661.05	241.484	8.29	8.19	-1.66	Burkett: 7293' MD
7295.00	54.690	169.210	6976.15	276.78	-794.58	-1459.24	1719543.83	14367931.54	39°33'55.5416"N	80°43'9.2412"W	1661.55	241.431	8.29	8.20	-1.49	
7348.00†	58.601	167.290	7005.29	320.69	-837.91	-1450.21	1719552.86	14367888.23	39°33'55.1131"N	80°43'9.1276"W	1674.88	239.981	7.98	7.38	-3.62	Tully: 7348' MD
7390.00	61.720	165.880	7026.18	356.95	-873.34	-1441.76	1719561.31	14367852.81	39°33'54.7627"N	80°43'9.0211"W	1685.64	238.795	7.98	7.43	-3.36	
7484.00	68.480	162.770	7065.75	442.01	-955.35	-1418.68	1719584.38	14367770.83	39°33'53.9515"N	80°43'8.7296"W	1710.36	236.043	7.79	7.19	-3.31	
7557.00†	74.188	161.382	7089.10	511.12	-1021.12	-1397.39	1719605.66	14367705.09	39°33'53.3008"N	80°43'8.4604"W	1730.72	233.843	8.02	7.82	-1.90	Marcellus POE: 7557' MD
7579.00	75.910	160.980	7094.78	532.38	-1041.24	-1390.53	1719612.52	14367684.98	39°33'53.1017"N	80°43'8.3737"W	1737.17	233.174	8.02	7.83	-1.83	
7673.00	82.660	161.370	7112.24	624.69	-1128.61	-1360.75	1719642.29	14367597.64	39°33'52.2373"N	80°43'7.9969"W	1767.88	230.327	7.19	7.18	0.41	
7767.00	90.180	160.700	7118.11	718.43	-1217.27	-1330.28	1719672.75	14367509.02	39°33'51.3601"N	80°43'7.6114"W	1803.16	227.540	8.03	8.00	-0.71	



Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 5 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert [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
7862.00	89.910	160.470	7118.03	813.43	-1306.87	-1298.70	1719704.31	14367419.46	39°33'50.4736"N	80°43'7.2118"W	1842.43	224.820	0.37	-0.28	-0.24	
7954.00	89.970	160.250	7118.13	905.42	-1393.52	-1267.78	1719735.22	14367332.84	39°33'49.6163"N	80°43'6.8204"W	1883.92	222.295	0.25	0.07	-0.24	
8050.00	90.000	161.390	7118.16	1001.42	-1484.19	-1236.24	1719766.75	14367242.21	39°33'48.7192"N	80°43'6.4213"W	1931.60	219.792	1.19	0.03	1.19	BH AT Curve (x-Short) <8-1/2"> (7954')(8050'-28649')
8145.00	89.880	160.630	7118.26	1096.42	-1574.02	-1205.33	1719797.65	14367152.42	39°33'47.8305"N	80°43'6.0302"W	1982.51	217.444	0.81	-0.13	-0.80	
8239.00	89.570	160.440	7118.71	1190.42	-1662.64	-1174.00	1719828.96	14367063.82	39°33'46.9536"N	80°43'5.6338"W	2035.35	215.226	0.39	-0.33	-0.20	
8333.00	90.060	160.430	7119.01	1284.41	-1751.21	-1142.52	1719860.43	14366975.29	39°33'46.0773"N	80°43'5.2354"W	2090.96	213.121	0.52	0.52	-0.01	
8427.00	90.120	161.040	7118.86	1378.41	-1839.95	-1111.51	1719891.43	14366886.59	39°33'45.1993"N	80°43'4.8430"W	2149.62	211.136	0.65	0.06	0.65	
8522.00	89.570	160.920	7119.12	1473.41	-1929.76	-1080.55	1719922.38	14366796.81	39°33'44.3107"N	80°43'4.4513"W	2211.69	209.246	0.59	-0.58	-0.13	
8616.00	89.570	160.900	7119.83	1567.41	-2018.59	-1049.81	1719953.11	14366708.02	39°33'43.4319"N	80°43'4.0623"W	2275.26	207.478	0.02	0.00	-0.02	
8711.00	91.790	160.100	7118.70	1662.39	-2108.13	-1018.10	1719984.80	14366618.51	39°33'42.5459"N	80°43'3.6611"W	2341.10	205.778	2.48	2.34	-0.84	
8805.00	89.630	160.790	7117.53	1756.37	-2196.69	-986.64	1720016.25	14366529.98	39°33'41.6697"N	80°43'3.2630"W	2408.10	204.187	2.41	-2.30	0.73	
8899.00	89.660	160.850	7118.12	1850.37	-2285.47	-955.76	1720047.12	14366441.24	39°33'40.7913"N	80°43'2.8722"W	2477.27	202.694	0.07	0.03	0.06	
8994.00	90.650	161.000	7117.86	1945.37	-2375.26	-924.72	1720078.15	14366351.49	39°33'39.9030"N	80°43'2.4794"W	2548.91	201.272	1.05	1.04	0.16	
9088.00	89.750	160.810	7117.53	2039.36	-2464.08	-893.97	1720108.89	14366262.70	39°33'39.0241"N	80°43'2.0904"W	2621.24	199.941	0.98	-0.96	-0.20	
9183.00	89.910	160.580	7117.81	2134.36	-2553.74	-862.56	1720140.28	14366173.08	39°33'38.1370"N	80°43'1.6930"W	2695.48	198.663	0.29	0.17	-0.24	
9277.00	89.820	160.910	7118.03	2228.36	-2642.48	-831.56	1720171.27	14366084.37	39°33'37.2590"N	80°43'1.3008"W	2770.24	197.468	0.36	-0.10	0.35	
9372.00	89.570	160.920	7118.54	2323.36	-2732.26	-800.50	1720202.32	14365994.63	39°33'36.3708"N	80°43'0.9078"W	2847.11	196.330	0.26	-0.26	0.01	
9466.00	90.030	160.850	7118.87	2417.36	-2821.08	-769.72	1720233.09	14365905.85	39°33'35.4920"N	80°43'0.5183"W	2924.20	195.261	0.49	0.49	-0.07	
9561.00	89.630	160.790	7119.15	2512.36	-2910.80	-738.51	1720264.29	14365816.16	39°33'34.6043"N	80°43'0.1235"W	3003.03	194.236	0.43	-0.42	-0.06	
9656.00	90.030	160.620	7119.43	2607.36	-3000.47	-707.12	1720295.66	14365726.53	39°33'33.7171"N	80°42'59.7263"W	3082.66	193.261	0.46	0.42	-0.18	
9750.00	89.750	160.840	7119.61	2701.35	-3089.20	-676.09	1720326.67	14365637.83	39°33'32.8392"N	80°42'59.3338"W	3162.32	192.345	0.38	-0.30	0.23	
9845.00	90.090	160.990	7119.74	2796.35	-3178.98	-645.03	1720357.72	14365548.09	39°33'31.9509"N	80°42'58.9408"W	3243.76	191.470	0.39	0.36	0.16	
9939.00	91.050	161.540	7118.81	2890.35	-3267.99	-614.84	1720387.90	14365459.11	39°33'31.0703"N	80°42'58.5589"W	3325.33	190.655	1.18	1.02	0.59	
10033.00	89.600	160.950	7118.28	2984.34	-3356.99	-584.62	1720418.11	14365370.14	39°33'30.1897"N	80°42'58.1767"W	3407.52	189.879	1.67	-1.54	-0.63	
10128.00	89.820	161.080	7118.76	3079.34	-3446.83	-553.71	1720449.00	14365280.34	39°33'29.3009"N	80°42'57.7857"W	3491.02	189.126	0.27	0.23	0.14	
10222.00	89.850	161.370	7119.03	3173.34	-3535.82	-523.46	1720479.25	14365191.38	39°33'28.4203"N	80°42'57.4030"W	3574.36	188.421	0.31	0.03	0.31	
10316.00	89.750	160.820	7119.36	3267.34	-3624.75	-493.00	1720509.69	14365102.49	39°33'27.5405"N	80°42'57.0178"W	3658.13	187.745	0.59	-0.11	-0.59	
10410.00	90.000	160.850	7119.56	3361.34	-3713.54	-462.15	1720540.54	14365013.73	39°33'26.6620"N	80°42'56.6274"W	3742.19	187.094	0.27	0.27	0.03	
10504.00	89.380	159.910	7120.07	3455.33	-3802.08	-430.58	1720572.09	14364925.23	39°33'25.7860"N	80°42'56.2280"W	3826.39	186.461	1.20	-0.66	-1.00	
10693.00	90.340	160.890	7120.53	3644.31	-3980.13	-367.18	1720635.46	14364747.25	39°33'24.0243"N	80°42'55.4258"W	3997.03	185.271	0.73	0.51	0.52	

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Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 6 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
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WELLPATH DATA (307 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
10787.00	90.120	160.040	7120.15	3738.31	-4068.71	-335.75	1720666.88	14364658.70	39°33'23.1478"N	80°42'55.0281"W	4082.54	184.717	0.93	-0.23	-0.90	
10882.00	89.660	159.150	7120.34	3833.28	-4157.75	-302.63	1720699.99	14364569.70	39°33'22.2668"N	80°42'54.6088"W	4168.75	184.163	1.05	-0.48	-0.94	
10977.00	90.120	160.570	7120.52	3928.25	-4246.94	-269.92	1720732.68	14364480.55	39°33'21.3843"N	80°42'54.1948"W	4255.51	183.637	1.57	0.48	1.49	
11071.00	90.180	161.120	7120.27	4022.25	-4335.73	-239.08	1720763.51	14364391.79	39°33'20.5058"N	80°42'53.8046"W	4342.32	183.156	0.59	0.06	0.59	
11166.00	90.250	160.150	7119.92	4117.25	-4425.36	-207.58	1720795.00	14364302.20	39°33'19.6190"N	80°42'53.4061"W	4430.22	182.686	1.02	0.07	-1.02	
11260.00	90.060	160.360	7119.66	4211.24	-4513.83	-175.82	1720826.75	14364213.76	39°33'18.7436"N	80°42'53.0042"W	4517.25	182.231	0.30	-0.20	0.22	
11355.00	89.630	160.700	7119.92	4306.24	-4603.40	-144.16	1720858.40	14364124.23	39°33'17.8574"N	80°42'52.6036"W	4605.65	181.794	0.58	-0.45	0.36	
11449.00	90.000	160.160	7120.22	4400.23	-4691.97	-112.67	1720889.87	14364035.69	39°33'16.9811"N	80°42'52.2052"W	4693.32	181.376	0.70	0.39	-0.57	
11543.00	89.880	159.850	7120.32	4494.21	-4780.30	-80.53	1720922.00	14363947.40	39°33'16.1071"N	80°42'51.7985"W	4780.98	180.965	0.35	-0.13	-0.33	
11637.00	90.150	159.970	7120.30	4588.20	-4868.58	-48.24	1720954.28	14363859.15	39°33'15.2335"N	80°42'51.3898"W	4868.82	180.568	0.31	0.29	0.13	
11732.00	88.920	160.740	7121.07	4683.18	-4958.05	-16.31	1720986.20	14363769.72	39°33'14.3483"N	80°42'50.9857"W	4958.07	180.188	1.53	-1.29	0.81	
11826.00	88.210	160.050	7123.42	4777.15	-5046.57	15.22	1721017.72	14363681.23	39°33'13.4725"N	80°42'50.5868"W	5046.59	179.827	1.05	-0.76	-0.73	
11921.00	88.580	160.140	7126.08	4872.10	-5135.86	47.56	1721050.04	14363591.98	39°33'12.5890"N	80°42'50.1777"W	5136.08	179.469	0.40	0.39	0.09	
12110.00	90.120	161.250	7128.23	5061.07	-5314.21	110.03	1721112.49	14363413.70	39°33'10.8243"N	80°42'49.3873"W	5315.35	178.814	1.00	0.81	0.59	
12205.00	90.950	160.190	7127.34	5156.07	-5403.88	141.40	1721143.84	14363324.07	39°33'9.9371"N	80°42'48.9905"W	5405.73	178.501	1.42	0.87	-1.12	
12299.00	89.570	160.110	7126.91	5250.05	-5492.29	173.31	1721175.75	14363235.69	39°33'9.0623"N	80°42'48.5867"W	5495.02	178.193	1.47	-1.47	-0.09	
12393.00	89.540	160.420	7127.64	5344.04	-5580.76	205.05	1721207.47	14363147.25	39°33'8.1869"N	80°42'48.1851"W	5584.53	177.896	0.33	-0.03	0.33	
12487.00	89.600	162.390	7128.35	5438.03	-5669.85	235.03	1721237.43	14363058.20	39°33'7.3055"N	80°42'47.8061"W	5674.72	177.626	2.10	0.06	2.10	
12582.00	89.660	162.090	7128.96	5533.01	-5760.32	264.00	1721266.40	14362967.76	39°33'6.4105"N	80°42'47.4398"W	5766.37	177.376	0.32	0.06	-0.32	
12676.00	89.910	163.010	7129.31	5626.97	-5849.99	292.19	1721294.58	14362878.12	39°33'5.5233"N	80°42'47.0836"W	5857.29	177.141	1.01	0.27	0.98	
12770.00	89.260	162.620	7129.99	5720.92	-5939.79	319.96	1721322.34	14362788.36	39°33'4.6349"N	80°42'46.7327"W	5948.41	176.917	0.81	-0.69	-0.41	
12864.00	90.310	163.360	7130.35	5814.87	-6029.68	347.46	1721349.82	14362698.51	39°33'3.7457"N	80°42'46.3854"W	6039.68	176.702	1.37	1.12	0.79	
12959.00	89.750	162.380	7130.30	5909.81	-6120.46	375.44	1721377.79	14362607.76	39°33'2.8476"N	80°42'46.0318"W	6131.97	176.490	1.19	-0.59	-1.03	
13053.00	89.850	161.550	7130.63	6003.80	-6209.84	404.54	1721406.88	14362518.42	39°33'1.9633"N	80°42'45.6640"W	6223.01	176.273	0.89	0.11	-0.88	
13147.00	90.340	162.550	7130.47	6097.78	-6299.27	433.51	1721435.84	14362429.03	39°33'1.0786"N	80°42'45.2978"W	6314.17	176.063	1.18	0.52	1.06	
13242.00	89.880	162.640	7130.29	6192.75	-6389.92	461.93	1721464.25	14362338.41	39°33'0.1818"N	80°42'44.9387"W	6406.59	175.865	0.49	-0.48	0.09	
13336.00	89.600	162.250	7130.71	6286.72	-6479.54	490.28	1721492.59	14362248.83	39°32'59.2952"N	80°42'44.5805"W	6498.06	175.673	0.51	-0.30	-0.41	
13431.00	89.750	162.570	7131.25	6381.69	-6570.09	518.99	1721521.28	14362158.31	39°32'58.3993"N	80°42'44.2177"W	6590.56	175.483	0.37	0.16	0.34	
13525.00	90.060	162.500	7131.41	6475.65	-6659.76	547.20	1721549.49	14362068.68	39°32'57.5122"N	80°42'43.8612"W	6682.20	175.303	0.34	0.33	-0.07	
13620.00	89.940	162.450	7131.41	6570.62	-6750.35	575.81	1721578.08	14361978.12	39°32'56.6159"N	80°42'43.4997"W	6774.86	175.124	0.14	-0.13	-0.05	



Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 7 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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
13714.00	90.090	162.700	7131.38	6664.59	-6840.04	603.96	1721606.22	14361888.47	39°32'55.7287"N	80°42'43.1440"W	6866.65	174.954	0.31	0.16	0.27	
13809.00	90.310	161.970	7131.05	6759.56	-6930.56	632.78	1721635.03	14361797.99	39°32'54.8331"N	80°42'42.7797"W	6959.38	174.783	0.80	0.23	-0.77	
13904.00	89.660	161.690	7131.08	6854.55	-7020.82	662.41	1721664.65	14361707.76	39°32'53.9401"N	80°42'42.4052"W	7052.00	174.610	0.74	-0.68	-0.29	
13998.00	90.000	161.280	7131.36	6948.55	-7109.95	692.26	1721694.49	14361618.66	39°32'53.0582"N	80°42'42.0278"W	7143.57	174.439	0.57	0.36	-0.44	
14093.00	90.150	161.970	7131.23	7043.54	-7200.11	722.21	1721724.42	14361528.54	39°32'52.1662"N	80°42'41.6492"W	7236.24	174.272	0.74	0.16	0.73	
14187.00	89.820	161.750	7131.26	7137.53	-7289.44	751.47	1721753.67	14361439.25	39°32'51.2825"N	80°42'41.2793"W	7328.07	174.114	0.42	-0.35	-0.23	
14281.00	89.820	161.570	7131.55	7231.53	-7378.66	781.05	1721783.24	14361350.06	39°32'50.3997"N	80°42'40.9054"W	7419.88	173.958	0.19	0.00	-0.19	
14376.00	89.940	161.490	7131.75	7326.52	-7468.77	811.15	1721813.33	14361259.99	39°32'49.5082"N	80°42'40.5249"W	7512.69	173.802	0.15	0.13	-0.08	
14470.00	89.970	162.000	7131.83	7420.51	-7558.04	840.59	1721842.76	14361170.76	39°32'48.6250"N	80°42'40.1527"W	7604.64	173.654	0.54	0.03	0.54	
14565.00	89.940	161.910	7131.90	7515.50	-7648.36	870.02	1721872.17	14361080.46	39°32'47.7314"N	80°42'39.7807"W	7697.69	173.510	0.10	-0.03	-0.09	
14659.00	90.060	162.170	7131.90	7609.49	-7737.78	899.00	1721901.15	14360991.08	39°32'46.8467"N	80°42'39.4144"W	7789.83	173.373	0.30	0.13	0.28	
14754.00	89.940	161.770	7131.90	7704.47	-7828.12	928.41	1721930.54	14360900.78	39°32'45.9529"N	80°42'39.0428"W	7882.98	173.236	0.44	-0.13	-0.42	
14848.00	89.850	161.490	7132.07	7798.47	-7917.33	958.03	1721960.15	14360811.61	39°32'45.0703"N	80°42'38.6683"W	7975.08	173.101	0.31	-0.10	-0.30	
14943.00	90.000	161.970	7132.20	7893.46	-8007.54	987.81	1721989.92	14360721.43	39°32'44.1778"N	80°42'38.2918"W	8068.24	172.967	0.53	0.16	0.51	
15037.00	90.000	161.630	7132.20	7987.45	-8096.84	1017.17	1722019.27	14360632.17	39°32'43.2943"N	80°42'37.9207"W	8160.48	172.840	0.36	0.00	-0.36	
15131.00	90.150	161.070	7132.07	8081.45	-8185.90	1047.23	1722049.32	14360543.14	39°32'42.4131"N	80°42'37.5406"W	8252.61	172.710	0.62	0.16	-0.60	
15226.00	90.030	161.570	7131.92	8176.45	-8275.89	1077.66	1722079.73	14360453.18	39°32'41.5227"N	80°42'37.1559"W	8345.76	172.581	0.54	-0.13	0.53	
15320.00	89.850	161.420	7132.02	8270.44	-8365.03	1107.49	1722109.56	14360364.08	39°32'40.6408"N	80°42'36.7788"W	8438.03	172.458	0.25	-0.19	-0.16	
15415.00	90.150	161.350	7132.02	8365.44	-8455.06	1137.82	1722139.87	14360274.08	39°32'39.7500"N	80°42'36.3954"W	8531.28	172.336	0.32	0.32	-0.07	
15509.00	90.000	161.990	7131.90	8459.44	-8544.29	1167.38	1722169.42	14360184.89	39°32'38.8672"N	80°42'36.0217"W	8623.67	172.220	0.70	-0.16	0.68	
15604.00	89.880	161.850	7132.00	8554.42	-8634.60	1196.86	1722198.89	14360094.61	39°32'37.9737"N	80°42'35.6491"W	8717.16	172.108	0.19	-0.13	-0.15	
15698.00	89.880	161.770	7132.20	8648.41	-8723.91	1226.21	1722228.22	14360005.35	39°32'37.0902"N	80°42'35.2782"W	8809.66	171.999	0.09	0.00	-0.09	
15792.00	90.000	161.740	7132.29	8742.41	-8813.18	1255.64	1722257.64	14359916.11	39°32'36.2069"N	80°42'34.9062"W	8902.18	171.891	0.13	0.13	-0.03	
15886.00	90.060	161.780	7132.24	8836.40	-8902.46	1285.06	1722287.05	14359826.87	39°32'35.3237"N	80°42'34.5343"W	8994.73	171.786	0.08	0.06	0.04	
15981.00	90.030	161.780	7132.17	8931.39	-8992.69	1314.76	1722316.74	14359736.66	39°32'34.4309"N	80°42'34.1589"W	9088.30	171.682	0.03	-0.03	0.00	
16075.00	89.820	161.600	7132.29	9025.38	-9081.93	1344.29	1722346.26	14359647.46	39°32'33.5480"N	80°42'33.7856"W	9180.88	171.580	0.29	-0.22	-0.19	
16170.00	89.880	160.380	7132.54	9120.38	-9171.75	1375.24	1722377.19	14359557.68	39°32'32.6593"N	80°42'33.3943"W	9274.28	171.472	1.29	0.06	-1.28	
16359.00	89.910	160.720	7132.89	9309.37	-9349.96	1438.17	1722440.10	14359379.53	39°32'30.8959"N	80°42'32.5984"W	9459.92	171.256	0.18	0.02	0.18	
16453.00	89.880	160.620	7133.06	9403.37	-9438.67	1469.28	1722471.20	14359290.87	39°32'30.0183"N	80°42'32.2049"W	9552.34	171.152	0.11	-0.03	-0.11	
16547.00	90.060	160.460	7133.11	9497.37	-9527.30	1500.60	1722502.51	14359202.27	39°32'29.1414"N	80°42'31.8088"W	9644.75	171.049	0.26	0.19	-0.17	

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Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 8 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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
16642.00	89.380	160.560	7133.57	9592.36	-9616.85	1532.30	1722534.19	14359112.75	39°32'28.2552"N	80°42'31.4079"W	9738.16	170.947	0.72	-0.72	0.11	
16736.00	89.850	160.440	7134.21	9686.36	-9705.46	1563.67	1722565.56	14359024.18	39°32'27.3785"N	80°42'31.0111"W	9830.61	170.848	0.52	0.50	-0.13	
16830.00	89.600	159.790	7134.66	9780.34	-9793.85	1595.64	1722597.52	14358935.82	39°32'26.5039"N	80°42'30.6067"W	9922.98	170.746	0.74	-0.27	-0.69	
16925.00	89.630	160.310	7135.30	9875.33	-9883.15	1628.06	1722629.92	14358846.56	39°32'25.6203"N	80°42'30.1966"W	10016.35	170.646	0.55	0.03	0.55	
17019.00	89.750	160.710	7135.80	9969.32	-9971.76	1659.42	1722661.27	14358757.99	39°32'24.7435"N	80°42'29.8000"W	10108.89	170.552	0.44	0.13	0.43	
17113.00	89.720	160.700	7136.24	10063.32	-10060.48	1690.48	1722692.31	14358669.30	39°32'23.8657"N	80°42'29.4072"W	10201.52	170.462	0.03	-0.03	-0.01	
17208.00	88.800	159.820	7137.47	10158.30	-10149.89	1722.56	1722724.38	14358579.93	39°32'22.9810"N	80°42'29.0014"W	10295.02	170.368	1.34	-0.97	-0.93	
17302.00	89.290	160.180	7139.03	10252.27	-10238.20	1754.71	1722756.52	14358491.64	39°32'22.1071"N	80°42'28.5948"W	10387.48	170.275	0.65	0.52	0.38	
17396.00	89.820	160.400	7139.76	10346.26	-10326.69	1786.41	1722788.21	14358403.19	39°32'21.2315"N	80°42'28.1938"W	10480.07	170.186	0.61	0.56	0.23	
17490.00	89.600	160.310	7140.24	10440.26	-10415.22	1818.01	1722819.79	14358314.70	39°32'20.3556"N	80°42'27.7941"W	10572.70	170.099	0.25	-0.23	-0.10	
17585.00	89.480	160.440	7141.00	10535.25	-10504.70	1849.92	1722851.69	14358225.25	39°32'19.4702"N	80°42'27.3906"W	10666.35	170.012	0.19	-0.13	0.14	
17679.00	89.880	160.580	7141.53	10629.24	-10593.31	1881.28	1722883.04	14358136.68	39°32'18.5934"N	80°42'26.9940"W	10759.07	169.930	0.45	0.43	0.15	
17773.00	89.690	160.490	7141.88	10723.24	-10681.94	1912.60	1722914.35	14358048.09	39°32'17.7165"N	80°42'26.5978"W	10851.81	169.849	0.22	-0.20	-0.10	
17868.00	89.690	160.700	7142.39	10818.23	-10771.54	1944.17	1722945.90	14357958.52	39°32'16.8300"N	80°42'26.1987"W	10945.59	169.769	0.22	0.00	0.22	
17962.00	89.380	160.400	7143.16	10912.23	-10860.17	1975.46	1722977.19	14357869.92	39°32'15.9530"N	80°42'25.8029"W	11038.38	169.691	0.46	-0.33	-0.32	
18056.00	89.690	160.710	7143.92	11006.22	-10948.81	2006.76	1723008.46	14357781.32	39°32'15.0760"N	80°42'25.4072"W	11131.19	169.614	0.47	0.33	0.33	
18151.00	89.690	160.900	7144.43	11101.22	-11038.53	2037.99	1723039.69	14357691.64	39°32'14.1883"N	80°42'25.0122"W	11225.08	169.540	0.20	0.00	0.20	
18245.00	89.570	160.630	7145.04	11195.21	-11127.28	2068.96	1723070.64	14357602.92	39°32'13.3101"N	80°42'24.6207"W	11317.99	169.467	0.31	-0.13	-0.29	
18340.00	88.550	160.050	7146.60	11290.19	-11216.73	2100.91	1723102.59	14357513.51	39°32'12.4250"N	80°42'24.2165"W	11411.78	169.391	1.24	-1.07	-0.61	
18435.00	89.570	160.500	7148.16	11385.17	-11306.14	2132.97	1723134.63	14357424.13	39°32'11.5403"N	80°42'23.8111"W	11505.58	169.316	1.17	1.07	0.47	
18528.00	89.780	160.760	7148.68	11478.17	-11393.87	2163.82	1723165.46	14357336.43	39°32'10.6722"N	80°42'23.4210"W	11597.52	169.247	0.36	0.23	0.28	
18623.00	89.690	160.930	7149.12	11573.17	-11483.61	2194.99	1723196.62	14357246.73	39°32'9.7843"N	80°42'23.0269"W	11691.51	169.179	0.20	-0.09	0.18	
18717.00	89.630	160.820	7149.68	11667.16	-11572.42	2225.78	1723227.41	14357157.95	39°32'8.9056"N	80°42'22.6376"W	11784.53	169.113	0.13	-0.06	-0.12	
18811.00	89.600	160.610	7150.31	11761.16	-11661.14	2256.83	1723258.44	14357069.27	39°32'8.0277"N	80°42'22.2450"W	11877.52	169.047	0.23	-0.03	-0.22	
18905.00	89.720	160.630	7150.87	11855.16	-11749.82	2288.02	1723289.62	14356980.63	39°32'7.1503"N	80°42'21.8506"W	11970.52	168.981	0.13	0.13	0.02	
18999.00	89.380	160.580	7151.61	11949.15	-11838.48	2319.24	1723320.82	14356892.00	39°32'6.2731"N	80°42'21.4559"W	12063.52	168.916	0.37	-0.36	-0.05	
19093.00	89.450	160.990	7152.57	12043.15	-11927.24	2350.17	1723351.74	14356803.28	39°32'5.3948"N	80°42'21.0648"W	12156.57	168.853	0.44	0.07	0.44	
19188.00	89.660	160.730	7153.31	12138.14	-12016.98	2381.32	1723382.88	14356713.57	39°32'4.5069"N	80°42'20.6710"W	12250.66	168.791	0.35	0.22	-0.27	
19282.00	89.450	160.600	7154.04	12232.14	-12105.68	2412.44	1723413.99	14356624.91	39°32'3.6292"N	80°42'20.2775"W	12343.72	168.730	0.26	-0.22	-0.14	
19376.00	89.690	160.910	7154.74	12326.13	-12194.42	2443.42	1723444.96	14356536.20	39°32'2.7512"N	80°42'19.8858"W	12436.81	168.670	0.42	0.26	0.33	



Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 9 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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
19470.00	89.660	160.550	7155.28	12420.13	-12283.16	2474.44	1723475.97	14356447.50	39°32'1.8732"N	80°42'19.4936"W	12529.92	168.610	0.38	-0.03	-0.38	
19658.00	89.630	160.880	7156.44	12608.12	-12460.60	2536.53	1723538.03	14356270.12	39°32'0.1174"N	80°42'18.7086"W	12716.16	168.494	0.18	-0.02	0.18	
19753.00	89.720	161.080	7156.98	12703.12	-12550.41	2567.49	1723568.98	14356180.35	39°31'59.2288"N	80°42'18.3172"W	12810.34	168.438	0.23	0.09	0.21	
19847.00	89.630	160.860	7157.51	12797.12	-12639.28	2598.14	1723599.62	14356091.52	39°31'58.3496"N	80°42'17.9297"W	12903.55	168.384	0.25	-0.10	-0.23	
19941.00	89.540	160.490	7158.19	12891.12	-12727.98	2629.25	1723630.71	14356002.85	39°31'57.4719"N	80°42'17.5364"W	12996.71	168.328	0.41	-0.10	-0.39	
20036.00	89.080	160.290	7159.34	12986.10	-12817.46	2661.13	1723662.58	14355913.41	39°31'56.5865"N	80°42'17.1333"W	13090.79	168.271	0.53	-0.48	-0.21	
20130.00	89.260	160.320	7160.70	13080.09	-12905.95	2692.80	1723694.24	14355824.95	39°31'55.7109"N	80°42'16.7327"W	13183.88	168.214	0.19	0.19	0.03	
20225.00	89.880	161.310	7161.41	13175.08	-12995.67	2724.02	1723725.45	14355735.27	39°31'54.8231"N	80°42'16.3381"W	13278.09	168.162	1.23	0.65	1.04	
20319.00	89.660	160.900	7161.79	13269.08	-13084.61	2754.46	1723755.88	14355646.37	39°31'53.9432"N	80°42'15.9533"W	13371.39	168.112	0.49	-0.23	-0.44	
20413.00	89.660	160.490	7162.35	13363.08	-13173.32	2785.54	1723786.94	14355557.69	39°31'53.0654"N	80°42'15.5604"W	13464.60	168.061	0.44	0.00	-0.44	
20508.00	89.570	160.830	7162.99	13458.07	-13262.96	2817.00	1723818.39	14355468.09	39°31'52.1785"N	80°42'15.1627"W	13558.82	168.009	0.37	-0.09	0.36	
20602.00	89.970	161.170	7163.36	13552.07	-13351.83	2847.60	1723848.98	14355379.24	39°31'51.2991"N	80°42'14.7758"W	13652.12	167.961	0.56	0.43	0.36	
20696.00	89.420	161.080	7163.86	13646.07	-13440.78	2878.01	1723879.37	14355290.34	39°31'50.4191"N	80°42'14.3915"W	13745.45	167.914	0.59	-0.59	-0.10	
20791.00	89.200	160.690	7165.01	13741.06	-13530.53	2909.12	1723910.47	14355200.62	39°31'49.5310"N	80°42'13.9983"W	13839.74	167.866	0.47	-0.23	-0.41	
20885.00	90.430	161.440	7165.31	13835.06	-13619.44	2939.62	1723940.96	14355111.74	39°31'48.6513"N	80°42'13.6127"W	13933.08	167.820	1.53	1.31	0.80	
20979.00	90.460	160.800	7165.58	13929.06	-13708.38	2970.03	1723971.36	14355022.84	39°31'47.7713"N	80°42'13.2283"W	14026.43	167.775	0.68	0.03	-0.68	
21074.00	90.060	161.780	7164.15	14024.05	-13798.36	3000.51	1724001.82	14354932.89	39°31'46.8810"N	80°42'12.8432"W	14120.83	167.732	1.11	-0.42	1.03	
21169.00	89.380	161.860	7164.61	14119.04	-13888.62	3030.15	1724031.45	14354842.67	39°31'45.9880"N	80°42'12.4687"W	14215.32	167.692	0.72	-0.72	0.08	
21263.00	89.570	160.960	7165.47	14213.03	-13977.71	3060.11	1724061.41	14354753.62	39°31'45.1065"N	80°42'12.0900"W	14308.76	167.651	0.98	0.20	-0.96	
21358.00	89.750	161.180	7166.04	14308.03	-14067.57	3090.93	1724092.21	14354663.79	39°31'44.2174"N	80°42'11.7005"W	14403.14	167.608	0.30	0.19	0.23	
21452.00	89.260	160.550	7166.85	14402.03	-14156.37	3121.74	1724123.01	14354575.03	39°31'43.3387"N	80°42'11.3110"W	14496.48	167.564	0.85	-0.52	-0.67	
21546.00	88.980	160.770	7168.29	14496.01	-14245.05	3152.87	1724154.13	14354486.38	39°31'42.4612"N	80°42'10.9175"W	14589.80	167.520	0.38	-0.30	0.23	
21641.00	89.350	161.000	7169.68	14591.00	-14334.81	3183.97	1724185.22	14354396.66	39°31'41.5732"N	80°42'10.5243"W	14684.15	167.477	0.46	0.39	0.24	
21735.00	89.600	161.210	7170.54	14685.00	-14423.74	3214.41	1724215.65	14354307.76	39°31'40.6933"N	80°42'10.1396"W	14777.57	167.437	0.35	0.27	0.22	
21830.00	89.260	161.490	7171.49	14779.99	-14513.74	3244.79	1724246.01	14354217.79	39°31'39.8027"N	80°42'9.7557"W	14872.04	167.398	0.46	-0.36	0.29	
21924.00	89.170	161.100	7172.77	14873.98	-14602.77	3274.93	1724276.14	14354128.80	39°31'38.9219"N	80°42'9.3748"W	14965.50	167.360	0.43	-0.10	-0.41	
22018.00	89.140	160.920	7174.16	14967.97	-14691.65	3305.52	1724306.71	14354039.96	39°31'38.0425"N	80°42'8.9882"W	15058.91	167.320	0.19	-0.03	-0.19	
22113.00	89.510	161.030	7175.28	15062.97	-14781.45	3336.49	1724337.67	14353950.19	39°31'37.1539"N	80°42'8.5969"W	15153.33	167.280	0.41	0.39	0.12	
22208.00	89.050	160.640	7176.47	15157.96	-14871.18	3367.67	1724368.84	14353860.50	39°31'36.2661"N	80°42'8.2027"W	15247.72	167.240	0.63	-0.48	-0.41	
22303.00	89.200	160.870	7177.92	15252.95	-14960.86	3398.98	1724400.14	14353770.86	39°31'35.3787"N	80°42'7.8069"W	15342.11	167.200	0.29	0.16	0.24	

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 WV Department of
 Environmental Protection



Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 10 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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
22397.00	89.450	161.090	7179.03	15346.94	-15049.72	3429.61	1724430.76	14353682.03	39°31'34.4995"N	80°42'7.4198"W	15435.55	167.162	0.35	0.27	0.23	
22491.00	89.540	160.520	7179.86	15440.93	-15138.49	3460.52	1724461.65	14353593.29	39°31'33.6211"N	80°42'7.0291"W	15528.97	167.124	0.61	0.10	-0.61	
22585.00	89.420	160.640	7180.71	15534.93	-15227.14	3491.77	1724492.89	14353504.68	39°31'32.7440"N	80°42'6.6340"W	15622.36	167.085	0.18	-0.13	0.13	
22680.00	89.570	160.850	7181.55	15629.92	-15316.82	3523.10	1724524.21	14353415.03	39°31'31.8566"N	80°42'6.2380"W	15716.78	167.046	0.27	0.16	0.22	
22774.00	89.510	160.620	7182.30	15723.92	-15405.55	3554.11	1724555.21	14353326.34	39°31'30.9786"N	80°42'5.8460"W	15810.21	167.009	0.25	-0.06	-0.24	
22868.00	89.970	160.730	7182.73	15817.92	-15494.26	3585.22	1724586.30	14353237.67	39°31'30.1009"N	80°42'5.4528"W	15903.64	166.972	0.50	0.49	0.12	
22963.00	89.720	160.770	7182.99	15912.91	-15583.94	3616.54	1724617.61	14353148.01	39°31'29.2135"N	80°42'5.0569"W	15998.08	166.935	0.27	-0.26	0.04	
23057.00	89.780	160.750	7183.40	16006.91	-15672.69	3647.51	1724648.57	14353059.30	39°31'28.3353"N	80°42'4.6654"W	16091.54	166.899	0.07	0.06	-0.02	
23151.00	89.880	161.010	7183.68	16100.91	-15761.51	3678.30	1724679.35	14352970.52	39°31'27.4566"N	80°42'4.2763"W	16185.02	166.864	0.30	0.11	0.28	
23245.00	89.850	160.900	7183.90	16194.91	-15850.36	3708.97	1724710.01	14352881.70	39°31'26.5774"N	80°42'3.8886"W	16278.53	166.830	0.12	-0.03	-0.12	
23340.00	89.720	160.340	7184.25	16289.91	-15939.98	3740.50	1724741.52	14352792.12	39°31'25.6907"N	80°42'3.4901"W	16372.97	166.794	0.61	-0.14	-0.59	
23434.00	89.780	160.740	7184.66	16383.90	-16028.61	3771.81	1724772.82	14352703.53	39°31'24.8137"N	80°42'3.0943"W	16466.41	166.758	0.43	0.06	0.43	
23529.00	89.720	160.700	7185.08	16478.90	-16118.28	3803.18	1724804.18	14352613.89	39°31'23.9264"N	80°42'2.6978"W	16560.89	166.724	0.08	-0.06	-0.04	
23623.00	89.780	161.030	7185.49	16572.90	-16207.08	3833.99	1724834.98	14352525.12	39°31'23.0477"N	80°42'2.3084"W	16654.40	166.691	0.36	0.06	0.35	
23718.00	89.660	160.960	7185.95	16667.90	-16296.90	3864.93	1724865.90	14352435.34	39°31'22.1590"N	80°42'1.9174"W	16748.93	166.658	0.15	-0.13	-0.07	
23813.00	89.630	160.670	7186.54	16762.90	-16386.63	3896.15	1724897.11	14352345.65	39°31'21.2712"N	80°42'1.5228"W	16843.44	166.625	0.31	-0.03	-0.31	
23907.00	89.850	161.100	7186.97	16856.89	-16475.44	3926.93	1724927.88	14352256.87	39°31'20.3924"N	80°42'1.1338"W	16936.97	166.594	0.51	0.23	0.46	
24001.00	89.940	161.200	7187.14	16950.89	-16564.40	3957.30	1724958.24	14352167.95	39°31'19.5122"N	80°42'0.7500"W	17030.55	166.564	0.14	0.10	0.11	
24096.00	89.820	160.890	7187.34	17045.89	-16654.25	3988.16	1724989.08	14352078.13	39°31'18.6232"N	80°42'0.3601"W	17125.11	166.533	0.35	-0.13	-0.33	
24191.00	89.850	160.960	7187.61	17140.89	-16744.03	4019.20	1725020.12	14351988.38	39°31'17.7348"N	80°41'59.9677"W	17219.66	166.502	0.08	0.03	0.07	
24380.00	89.970	161.090	7187.91	17329.89	-16922.76	4080.66	1725081.55	14351809.73	39°31'15.9664"N	80°41'59.1911"W	17407.80	166.443	0.09	0.06	0.07	
24475.00	89.820	160.800	7188.08	17424.89	-17012.56	4111.67	1725112.55	14351719.97	39°31'15.0779"N	80°41'58.7992"W	17502.37	166.413	0.34	-0.16	-0.31	
24569.00	89.910	160.800	7188.31	17518.89	-17101.33	4142.59	1725143.45	14351631.23	39°31'14.1995"N	80°41'58.4085"W	17595.92	166.383	0.10	0.10	0.00	
24664.00	89.850	161.040	7188.50	17613.89	-17191.11	4173.64	1725174.49	14351541.49	39°31'13.3112"N	80°41'58.0161"W	17690.49	166.354	0.26	-0.06	0.25	
24759.00	89.750	161.010	7188.84	17708.89	-17280.94	4204.53	1725205.37	14351451.68	39°31'12.4223"N	80°41'57.6257"W	17785.08	166.325	0.11	-0.11	-0.03	
24853.00	89.850	161.170	7189.16	17802.89	-17369.87	4234.99	1725235.82	14351362.79	39°31'11.5424"N	80°41'57.2408"W	17878.69	166.298	0.20	0.11	0.17	
24947.00	90.000	161.010	7189.29	17896.89	-17458.80	4265.46	1725266.27	14351273.90	39°31'10.6625"N	80°41'56.8559"W	17972.30	166.271	0.23	0.16	-0.17	
25041.00	89.750	161.070	7189.49	17990.89	-17547.70	4296.00	1725296.80	14351185.04	39°31'9.7828"N	80°41'56.4699"W	18065.91	166.244	0.27	-0.27	0.06	
25136.00	89.940	161.350	7189.75	18085.89	-17637.63	4326.60	1725327.39	14351095.14	39°31'8.8930"N	80°41'56.0833"W	18160.55	166.217	0.36	0.20	0.29	
25230.00	89.850	161.170	7189.92	18179.89	-17726.65	4356.80	1725357.58	14351006.15	39°31'8.0122"N	80°41'55.7018"W	18254.20	166.192	0.21	-0.10	-0.19	

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 Environmental Protection



Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'
Page 11 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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
25325.00	89.720	160.900	7190.28	18274.89	-17816.49	4387.67	1725388.44	14350916.35	39°31'7.1232"N	80°41'55.3117"W	18348.82	166.165	0.32	-0.14	-0.28	
25419.00	89.820	161.030	7190.66	18368.89	-17905.35	4418.33	1725419.09	14350827.52	39°31'6.2440"N	80°41'54.9243"W	18442.43	166.139	0.17	0.11	0.14	
25513.00	89.750	160.830	7191.01	18462.88	-17994.19	4449.04	1725449.79	14350738.72	39°31'5.3650"N	80°41'54.5362"W	18536.04	166.112	0.23	-0.07	-0.21	
25608.00	89.910	160.750	7191.29	18557.88	-18083.90	4480.30	1725481.03	14350649.04	39°31'4.4773"N	80°41'54.1412"W	18630.64	166.085	0.19	0.17	-0.08	
25702.00	89.750	160.960	7191.57	18651.88	-18172.70	4511.13	1725511.85	14350560.28	39°31'3.5986"N	80°41'53.7516"W	18724.25	166.059	0.28	-0.17	0.22	
25797.00	89.690	161.060	7192.03	18746.88	-18262.53	4542.04	1725542.75	14350470.48	39°31'2.7098"N	80°41'53.3610"W	18818.88	166.033	0.12	-0.06	0.11	
25891.00	89.820	161.180	7192.44	18840.88	-18351.47	4572.46	1725573.15	14350381.58	39°31'1.8298"N	80°41'52.9767"W	18912.53	166.009	0.19	0.14	0.13	
25985.00	89.720	161.020	7192.81	18934.88	-18440.40	4602.90	1725603.59	14350292.68	39°31'0.9498"N	80°41'52.5920"W	19006.19	165.985	0.20	-0.11	-0.17	
26080.00	89.750	161.270	7193.25	19029.88	-18530.31	4633.61	1725634.28	14350202.82	39°31'0.0603"N	80°41'52.2041"W	19100.85	165.961	0.27	0.03	0.26	
26174.00	89.780	160.970	7193.64	19123.88	-18619.25	4664.02	1725664.68	14350113.91	39°30'59.1802"N	80°41'51.8198"W	19194.52	165.937	0.32	0.03	-0.32	
26268.00	89.820	160.680	7193.97	19217.88	-18708.03	4694.90	1725695.54	14350025.16	39°30'58.3017"N	80°41'51.4296"W	19288.14	165.912	0.31	0.04	-0.31	
26363.00	89.780	161.850	7194.30	19312.87	-18798.00	4725.41	1725726.05	14349935.23	39°30'57.4116"N	80°41'51.0442"W	19382.83	165.889	1.23	-0.04	1.23	
26457.00	90.000	162.530	7194.48	19406.85	-18887.49	4754.16	1725754.78	14349845.77	39°30'56.5261"N	80°41'50.6812"W	19476.64	165.872	0.76	0.23	0.72	
26551.00	89.630	161.860	7194.78	19500.83	-18976.99	4782.90	1725783.52	14349756.31	39°30'55.6407"N	80°41'50.3182"W	19570.44	165.854	0.81	-0.39	-0.71	
26645.00	89.600	162.340	7195.41	19594.81	-19066.43	4811.79	1725812.40	14349666.90	39°30'54.7557"N	80°41'49.9535"W	19664.24	165.836	0.51	-0.03	0.51	
26740.00	89.450	161.890	7195.20	19689.79	-19156.84	4840.97	1725841.56	14349576.53	39°30'53.8612"N	80°41'49.5851"W	19759.04	165.818	0.50	-0.16	-0.47	
26834.00	89.450	162.140	7197.10	19783.77	-19246.24	4869.99	1725870.57	14349487.16	39°30'52.9766"N	80°41'49.2186"W	19852.83	165.800	0.27	0.00	0.27	
26929.00	89.570	161.970	7197.92	19878.75	-19336.62	4899.26	1725899.83	14349396.82	39°30'52.0825"N	80°41'48.8490"W	19947.62	165.782	0.22	0.13	-0.18	
27022.00	89.510	161.880	7198.66	19971.74	-19425.03	4928.11	1725928.67	14349308.45	39°30'51.2077"N	80°41'48.4847"W	20040.41	165.764	0.12	-0.06	-0.10	
27116.00	89.420	162.020	7199.54	20065.72	-19514.40	4957.24	1725957.78	14349219.11	39°30'50.3235"N	80°41'48.1169"W	20134.20	165.747	0.18	-0.10	0.15	
27210.00	89.450	162.100	7200.47	20159.70	-19603.82	4986.19	1725986.72	14349129.72	39°30'49.4387"N	80°41'47.7514"W	20228.00	165.730	0.09	0.03	0.09	
27305.00	89.380	162.260	7201.44	20254.68	-19694.26	5015.26	1726015.78	14349039.32	39°30'48.5439"N	80°41'47.3843"W	20322.81	165.713	0.18	-0.07	0.17	
27399.00	90.030	162.100	7201.92	20348.66	-19783.75	5044.03	1726044.54	14348949.87	39°30'47.6585"N	80°41'47.0211"W	20416.63	165.697	0.71	0.69	-0.17	
27493.00	90.770	162.030	7201.26	20442.64	-19873.18	5072.97	1726073.47	14348860.47	39°30'46.7737"N	80°41'46.6557"W	20510.44	165.680	0.79	0.79	-0.07	
27587.00	89.510	161.890	7201.03	20536.62	-19962.55	5102.08	1726102.57	14348771.13	39°30'45.8894"N	80°41'46.2881"W	20604.24	165.663	1.35	-1.34	-0.15	
27682.00	89.420	161.820	7201.92	20631.61	-20052.83	5131.67	1726132.14	14348680.90	39°30'44.9963"N	80°41'45.9145"W	20699.03	165.646	0.12	-0.09	-0.07	
27776.00	89.350	162.230	7202.93	20725.59	-20142.23	5160.67	1726161.14	14348591.53	39°30'44.1117"N	80°41'45.5483"W	20792.84	165.629	0.44	-0.07	0.44	
27964.00	89.450	162.320	7204.90	20913.53	-20321.30	5217.91	1726218.35	14348412.53	39°30'42.3400"N	80°41'44.8258"W	20980.51	165.599	0.07	0.05	0.05	
28059.00	89.480	162.300	7205.79	21008.51	-20411.80	5246.77	1726247.20	14348322.06	39°30'41.4446"N	80°41'44.4614"W	21075.35	165.584	0.04	0.03	-0.02	
28153.00	89.320	161.800	7206.77	21102.49	-20501.22	5275.74	1726276.16	14348232.68	39°30'40.5598"N	80°41'44.0957"W	21169.16	165.569	0.56	-0.17	-0.53	

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Actual Wellpath Report

Midas Unit 1H AWP Proj: 28674'

Page 12 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (307 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
28247.00	89.480	162.260	7207.76	21196.47	-20590.63	5304.74	1726305.15	14348143.30	39°30'39.6752"N	80°41'43.7295"W	21262.98	165.553	0.52	0.17	0.49	
28342.00	89.450	162.010	7208.64	21291.44	-20681.05	5333.88	1726334.28	14348052.92	39°30'38.7806"N	80°41'43.3616"W	21357.81	165.538	0.27	-0.03	-0.26	
28436.00	89.380	162.030	7209.60	21385.42	-20770.45	5362.90	1726363.28	14347963.56	39°30'37.8960"N	80°41'42.9953"W	21451.63	165.523	0.08	-0.07	0.02	
28530.00	89.350	161.800	7210.64	21479.41	-20859.80	5392.07	1726392.45	14347874.24	39°30'37.0120"N	80°41'42.6269"W	21545.43	165.507	0.25	-0.03	-0.24	
28625.00	89.450	161.820	7211.64	21574.39	-20950.05	5421.73	1726422.09	14347784.03	39°30'36.1191"N	80°41'42.2524"W	21640.23	165.491	0.11	0.11	0.02	
28649.00	89.480	162.250	7211.86	21598.39	-20972.88	5429.13	1726429.49	14347761.21	39°30'35.8932"N	80°41'42.1590"W	21664.19	165.487	1.80	0.12	1.79	
28674.00‡	89.480	162.250	7212.09	21623.38	-20996.69	5436.75	1726437.11	14347737.41	39°30'35.6576"N	80°41'42.0627"W	21689.15	165.483	0.00	0.00	0.00	Projected MD at TD: 28674'

HOLE & CASING SECTIONS - Ref Wellbore: Midas Unit 1H AWB Ref Wellpath: Midas Unit 1H AWP Proj: 28674'										
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	-0.09	-0.19	
17.5in Open Hole	130.00	748.00	618.00	130.00	748.00	-0.09	-0.19	0.39	-1.53	
13.375in Casing Surface	30.00	728.00	698.00	30.00	728.00	0.00	0.00	0.48	-1.34	
12.25in Open Hole	748.00	3606.00	2858.00	748.00	3515.38	0.39	-1.53	-182.92	-668.80	
9.625in Casing Intermediate	30.00	3576.00	3546.00	30.00	3486.15	0.00	0.00	-180.46	-662.55	
8.75in Open Hole	3606.00	6582.00	2976.00	3515.38	6379.10	-182.92	-668.80	-453.80	-1421.33	
8.5in Open Hole	6582.00	28674.00	22092.00	6379.10	7212.09	-453.80	-1421.33	-20996.69	5436.75	
5.5in Casing Production	30.00	28654.00	28624.00	30.00	7211.91	0.00	0.00	-20977.64	5430.66	

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 Environmental Protection



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Page 13 of 14



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Operator	ANTERO RESOURCES CORPORATION	Well	Midas Unit 1H
Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Midas Unit 1H POE Rev-2	7095.00	-1027.73	-1397.93	1719605.12	14367698.49	39°33'53.2355"N	80°43'8.4676"W	point
Midas Unit 1H LP Rev-2	7123.00	-1212.90	-1334.26	1719668.77	14367513.39	39°33'51.4035"N	80°43'7.6620"W	point
Midas Unit 1H BHL Rev-3	7196.22	-21049.45	5486.89	1726487.23	14347684.67	39°30'35.1345"N	80°41'41.4253"W	point
Midas Unit 1H BHL Rev-2	7196.83	-21213.53	5543.32	1726543.63	14347520.65	39°30'33.5109"N	80°41'40.7125"W	point
Midas Unit 1H 50' L/R Hard Line R-2	7500.00	-11038.59	2044.48	1723046.18	14357691.58	39°32'14.1874"N	80°42'24.9294"W	rectangle
2D Rectangle 21172.4 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Midas Unit 1H AWB Ref Wellpath: Midas Unit 1H AWP Proj: 28674'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	647.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-647')	Midas Unit 1H AWB	11/26/2023
647.00	3534.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (647')(771'-3534')	Midas Unit 1H AWB	11/26/2023
3534.00	6509.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3534')(3679'-6509')	Midas Unit 1H AWB	1/28/2024
6509.00	7954.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve (Short) <8-1/2"> (6509')(6557'-7954')	Midas Unit 1H AWB	1/28/2024
7954.00	28674.00	BH AutoTrak Curve/eXpress (2019) (HRGM, X Short spacing)	05 BH AT Curve (x-Short) <8-1/2"> (7954')(8050'-28649')	Midas Unit 1H AWB	2/4/2024

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Page 14 of 14



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Field	Wetzel	API	47-103-03612-0000
Facility	Cedar Pad	Wellbore	Midas Unit 1H AWB
Slot	Slot A		

COMMENTS
<p>Wellpath general comments API: 47-103-03612-0000 BH Job #: 112047838 Rig: H&P 519 Duration: 2/2/2024-2/8/2024 Gyrodata MS Gyro <17-1/2"> (100'-647') APS EM <12-1/4"> (647')(771'-3534') APS EM <8-3/4"> (3534')(3679'-6509') BH AT Curve (Short) <8-1/2"> (6509')(6557'-7954') BH AT Curve (x-Short) <8-1/2"> (7954')(8050'-28649') Sycamore: 6986' MD Middlesex: 7145' MD Burkett: 7293' MD Tully: 7348' MD Marcellus POE: 7557' MD Projected MD at TD: 28674'</p>

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