



ANTERO RESOURCES CORPORATION



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

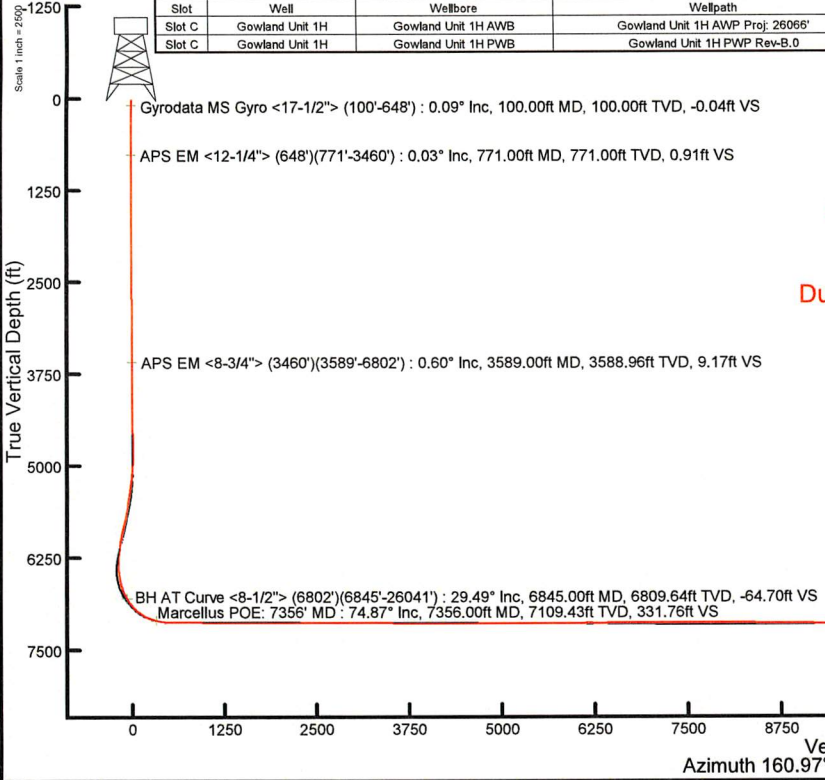
Slot: Slot C
 Well: Gowland Unit 1H
 Wellbore: Gowland Unit 1H PWB

Plot reference wellpath is Gowland Unit 1H PWP 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: 1250 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: rdsayon on 2024-01-24, Database: WA_MPL_EASTERNUS_Dat

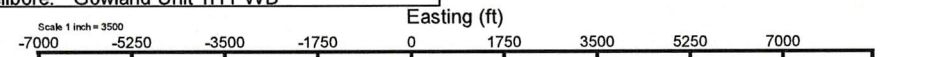
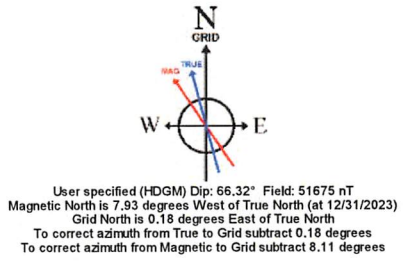
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Cedar Pad	1721002.500	14368725.810	39°34'3.3492"N	80°42'50.5764"W
Slot	Local N (ft)	Local E (ft)	Grid North (US ft)	Grid East (US ft)
Slot C	5.55	29.30	1721031.790	14368731.360
			Latitude	Longitude
Slot C			39°34'3.4032"N	80°42'50.2020"W
Comment	Gowland Unit 1H			
H&P 519 (RKB) to Ground level (At Slot: Slot C)	30ft			
Mean Sea Level to Ground level (At Slot: Slot C)	-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 (*/100ft)	VS (ft)
Tie On	3460.00	0.150	144.700	3459.97	-9.07	-0.01	0.34	8.57
Proj. to Bottom	3532.00	0.150	144.700	3531.96	-9.22	0.09	0.00	8.75
Drill Out	3612.00	0.150	144.700	3611.96	-9.40	0.22	0.00	8.95
End of Drop	3627.00	0.000	338.285	3626.96	-9.41	0.23	1.00	8.97
KOP 1	5030.04	0.000	338.285	5030.00	-9.41	0.23	0.00	8.97
End of Build	5635.55	12.110	338.285	5631.02	49.82	-23.36	2.00	-54.71
Curve KOP	6285.74	12.110	338.285	6266.74	176.55	-73.83	0.00	-190.97
POE	7361.02	73.925	160.971	7105.00	-300.15	83.63	8.00	311.01
Landing Pt.	7559.46	89.800	160.971	7133.00	-485.26	147.48	8.00	506.83
BHL	26134.12	89.800	160.971	7197.84	-18044.76	6203.69	0.00	19081.37

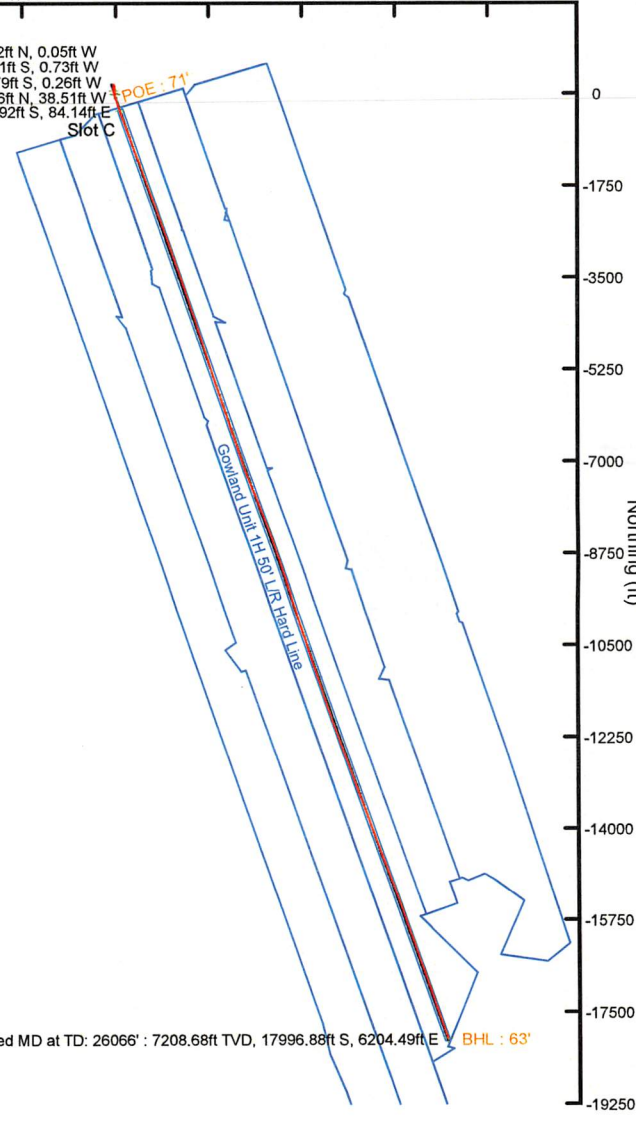
Well Data				
Slot	Well	Wellbore	Wellpath	
Slot C	Gowland Unit 1H	Gowland Unit 1H AWB	Gowland Unit 1H AWP Proj: 26066'	
Slot C	Gowland Unit 1H	Gowland Unit 1H PWB	Gowland Unit 1H PWP Rev-B.0	



API: 47-103-03614-0000
 BH Job #: 112047844
 Rig: H&P 519
 Duration: 1/10/2024-1/16/2024



Gyrodata MS Gyro <17-1/2"> (100'-648') : 100.00ft TVD, 0.02ft N, 0.05ft W
 APS EM <12-1/4"> (648')(771'-3460') : 771.00ft TVD, 1.21ft S, 0.73ft W
 APS EM <8-3/4"> (3460')(3589'-6802') : 3588.96ft TVD, 9.79ft S, 0.26ft W
 BH AT Curve <8-1/2"> (6802')(6845'-26041') : 6809.64ft TVD, 55.16ft N, 38.51ft W
 Marcellus POE: 7356' MD : 7109.43ft TVD, 321.92ft S, 84.14ft E



Projected MD at TD: 26066' : 89.72° Inc, 26066.00ft MD, 7208.68ft TVD, 19036.37ft VS

Vertical Section (ft)
 Azimuth 160.97° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

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	1/24/2024 at 2:16:16 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	5.55	29.30	1721031.79	14368731.36	39°34'3.4032"N	80°42'50.2020"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 C)	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°



Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (283 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	291.180	0.00	0.00	0.00	0.00	1721031.79	14368731.36	39°34'3.4032"N	80°42'50.2020"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	291.180	30.00	0.00	0.00	0.00	1721031.79	14368731.36	39°34'3.4032"N	80°42'50.2020"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.090	291.180	100.00	-0.04	0.02	-0.05	1721031.74	14368731.38	39°34'3.4034"N	80°42'50.2026"W	0.05	291.180	0.13	0.13	0.00	Gyrodata MS Gyro <17-1/2"> (100'-648')
200.00	0.260	225.470	200.00	0.01	-0.11	-0.29	1721031.50	14368731.25	39°34'3.4021"N	80°42'50.2057"W	0.31	248.826	0.24	0.17	-65.71	
300.00	0.290	230.690	300.00	0.20	-0.43	-0.64	1721031.15	14368730.93	39°34'3.3989"N	80°42'50.2102"W	0.77	236.241	0.04	0.03	5.22	
400.00	0.250	220.970	400.00	0.39	-0.76	-0.98	1721030.81	14368730.60	39°34'3.3957"N	80°42'50.2146"W	1.24	232.450	0.06	-0.04	-9.72	
500.00	0.060	337.610	500.00	0.45	-0.87	-1.15	1721030.64	14368730.49	39°34'3.3946"N	80°42'50.2167"W	1.44	232.734	0.28	-0.19	116.64	
600.00	0.270	140.520	600.00	0.62	-1.01	-1.02	1721030.77	14368730.36	39°34'3.3933"N	80°42'50.2150"W	1.43	225.302	0.33	0.21	162.91	
648.00	0.150	124.350	648.00	0.78	-1.13	-0.89	1721030.90	14368730.23	39°34'3.3921"N	80°42'50.2134"W	1.44	218.339	0.28	-0.25	-33.69	
771.00	0.030	79.550	771.00	0.91	-1.21	-0.73	1721031.06	14368730.15	39°34'3.3912"N	80°42'50.2113"W	1.41	210.952	0.11	-0.10	-36.42	APS EM <12-1/4"> (648')(771'-3460')
861.00	0.100	329.270	861.00	0.84	-1.14	-0.74	1721031.05	14368730.22	39°34'3.3919"N	80°42'50.2115"W	1.36	213.117	0.13	0.08	-122.53	
951.00	0.190	315.880	951.00	0.62	-0.97	-0.89	1721030.90	14368730.39	39°34'3.3936"N	80°42'50.2134"W	1.31	222.590	0.11	0.10	-14.88	
1042.00	0.240	312.080	1042.00	0.32	-0.73	-1.13	1721030.66	14368730.63	39°34'3.3960"N	80°42'50.2165"W	1.35	237.234	0.06	0.05	-4.18	
1136.00	0.170	248.520	1135.99	0.15	-0.65	-1.41	1721030.38	14368730.71	39°34'3.3968"N	80°42'50.2200"W	1.55	245.278	0.24	-0.07	-67.62	
1230.00	0.240	303.600	1229.99	0.00	-0.59	-1.70	1721030.09	14368730.77	39°34'3.3974"N	80°42'50.2238"W	1.80	250.857	0.21	0.07	58.60	
1325.00	0.100	222.030	1324.99	-0.11	-0.54	-1.93	1721029.87	14368730.82	39°34'3.3979"N	80°42'50.2266"W	2.00	254.250	0.26	-0.15	-85.86	
1420.00	0.130	282.470	1419.99	-0.13	-0.58	-2.09	1721029.70	14368730.78	39°34'3.3975"N	80°42'50.2287"W	2.17	254.428	0.12	0.03	63.62	
1514.00	0.130	269.180	1513.99	-0.22	-0.56	-2.30	1721029.49	14368730.80	39°34'3.3977"N	80°42'50.2313"W	2.36	256.301	0.03	0.00	-14.14	
1609.00	0.040	254.890	1608.99	-0.26	-0.57	-2.44	1721029.35	14368730.79	39°34'3.3976"N	80°42'50.2331"W	2.50	256.833	0.10	-0.09	-15.04	
1703.00	0.180	200.460	1702.99	-0.14	-0.72	-2.52	1721029.27	14368730.64	39°34'3.3962"N	80°42'50.2342"W	2.62	254.119	0.17	0.15	-57.90	
1798.00	0.240	209.110	1797.99	0.10	-1.03	-2.67	1721029.12	14368730.33	39°34'3.3931"N	80°42'50.2361"W	2.86	248.887	0.07	0.06	9.11	
1892.00	0.270	193.810	1891.99	0.42	-1.42	-2.82	1721028.97	14368729.94	39°34'3.3892"N	80°42'50.2380"W	3.15	243.292	0.08	0.03	-16.28	
1986.00	0.300	167.730	1985.99	0.85	-1.87	-2.82	1721028.97	14368729.49	39°34'3.3847"N	80°42'50.2381"W	3.38	236.390	0.14	0.03	-27.74	
2081.00	0.410	165.080	2080.99	1.44	-2.44	-2.68	1721029.11	14368728.92	39°34'3.3791"N	80°42'50.2363"W	3.63	227.608	0.12	0.12	-2.79	
2176.00	0.440	184.930	2175.99	2.11	-3.14	-2.62	1721029.17	14368728.22	39°34'3.3723"N	80°42'50.2356"W	4.09	219.893	0.16	0.03	20.89	
2270.00	0.380	179.650	2269.98	2.74	-3.81	-2.65	1721029.14	14368727.55	39°34'3.3656"N	80°42'50.2360"W	4.64	214.845	0.08	-0.06	-5.62	
2365.00	0.270	165.940	2364.98	3.26	-4.34	-2.59	1721029.20	14368727.02	39°34'3.3604"N	80°42'50.2353"W	5.06	210.873	0.14	-0.12	-14.43	
2459.00	0.440	180.200	2458.98	3.82	-4.92	-2.54	1721029.25	14368726.45	39°34'3.3547"N	80°42'50.2347"W	5.53	207.345	0.20	0.18	15.17	
2553.00	0.410	147.890	2552.98	4.49	-5.56	-2.36	1721029.43	14368725.80	39°34'3.3483"N	80°42'50.2324"W	6.04	203.034	0.25	-0.03	-34.37	
2648.00	0.410	153.200	2647.98	5.15	-6.15	-2.03	1721029.76	14368725.21	39°34'3.3424"N	80°42'50.2282"W	6.48	198.265	0.04	0.00	5.59	



Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (283 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	0.360	141.590	2741.97	5.77	-6.68	-1.70	1721030.10	14368724.68	39°34'3.3372"N	80°42'50.2239"W	6.90	194.234	0.10	-0.05	-12.35		
2837.00	0.340	171.200	2836.97	6.33	-7.20	-1.47	1721030.32	14368724.17	39°34'3.3321"N	80°42'50.2210"W	7.34	191.522	0.19	-0.02	31.17		
2932.00	0.420	128.660	2931.97	6.90	-7.69	-1.15	1721030.64	14368723.67	39°34'3.3272"N	80°42'50.2170"W	7.78	188.517	0.30	0.08	-44.78		
3027.00	0.340	158.880	3026.97	7.47	-8.17	-0.78	1721031.01	14368723.19	39°34'3.3224"N	80°42'50.2123"W	8.21	185.442	0.22	-0.08	31.81		
3121.00	0.100	127.260	3120.97	7.82	-8.48	-0.61	1721031.18	14368722.88	39°34'3.3193"N	80°42'50.2102"W	8.51	184.132	0.28	-0.26	-33.64		
3215.00	0.170	178.670	3214.97	8.02	-8.67	-0.54	1721031.25	14368722.69	39°34'3.3175"N	80°42'50.2093"W	8.69	183.592	0.14	0.07	54.69		
3310.00	0.370	102.550	3309.97	8.32	-8.88	-0.24	1721031.55	14368722.48	39°34'3.3154"N	80°42'50.2054"W	8.88	181.559	0.39	0.21	-80.13		
3405.00	0.100	240.220	3404.97	8.49	-8.99	-0.01	1721031.78	14368722.38	39°34'3.3143"N	80°42'50.2025"W	8.99	180.090	0.47	-0.28	144.92		
3460.00	0.150	144.700	3459.97	8.57	-9.07	-0.01	1721031.78	14368722.29	39°34'3.3135"N	80°42'50.2025"W	9.07	180.090	0.34	0.09	-173.67		
3589.00	0.600	210.670	3588.96	9.17	-9.79	-0.26	1721031.53	14368721.57	39°34'3.3064"N	80°42'50.2057"W	9.79	181.528	0.43	0.35	51.14	APS EM <8-3/4"> (3460')(3589'-6802')	
3683.00	0.640	210.240	3682.96	9.83	-10.67	-0.78	1721031.01	14368720.70	39°34'3.2978"N	80°42'50.2123"W	10.69	184.165	0.04	0.04	-0.46		
3778.00	0.400	196.480	3777.95	10.45	-11.44	-1.14	1721030.65	14368719.92	39°34'3.2901"N	80°42'50.2170"W	11.50	185.679	0.28	-0.25	-14.48		
3872.00	0.390	209.040	3871.95	10.93	-12.04	-1.39	1721030.40	14368719.33	39°34'3.2843"N	80°42'50.2202"W	12.12	186.570	0.09	-0.01	13.36		
3966.00	0.480	207.120	3965.95	11.41	-12.67	-1.72	1721030.07	14368718.70	39°34'3.2780"N	80°42'50.2245"W	12.78	187.738	0.10	0.10	-2.04		
4061.00	0.480	204.210	4060.94	11.98	-13.38	-2.07	1721029.73	14368717.98	39°34'3.2710"N	80°42'50.2289"W	13.54	188.774	0.03	0.00	-3.06		
4156.00	0.370	197.320	4155.94	12.52	-14.04	-2.32	1721029.47	14368717.33	39°34'3.2645"N	80°42'50.2322"W	14.23	189.384	0.13	-0.12	-7.25		
4250.00	0.240	195.600	4249.94	12.92	-14.52	-2.46	1721029.33	14368716.85	39°34'3.2598"N	80°42'50.2340"W	14.73	189.630	0.14	-0.14	-1.83		
4345.00	0.190	207.490	4344.94	13.19	-14.85	-2.59	1721029.20	14368716.52	39°34'3.2565"N	80°42'50.2357"W	15.07	189.892	0.07	-0.05	12.52		
4439.00	0.370	188.400	4438.94	13.57	-15.29	-2.71	1721029.09	14368716.08	39°34'3.2522"N	80°42'50.2372"W	15.53	190.037	0.21	0.19	-20.31		
4534.00	0.200	186.260	4533.94	13.99	-15.76	-2.77	1721029.02	14368715.61	39°34'3.2475"N	80°42'50.2380"W	16.00	189.966	0.18	-0.18	-2.25		
4628.00	0.310	115.170	4627.94	14.32	-16.03	-2.56	1721029.23	14368715.34	39°34'3.2448"N	80°42'50.2353"W	16.23	189.063	0.33	0.12	-75.63		
4723.00	0.420	107.380	4722.94	14.70	-16.24	-1.99	1721029.80	14368715.12	39°34'3.2427"N	80°42'50.2281"W	16.36	186.991	0.13	0.12	-8.20		
4817.00	0.130	173.940	4816.93	15.01	-16.45	-1.65	1721030.14	14368714.92	39°34'3.2406"N	80°42'50.2238"W	16.53	185.733	0.41	-0.31	70.81		
4912.00	0.120	95.190	4911.93	15.16	-16.57	-1.54	1721030.25	14368714.80	39°34'3.2395"N	80°42'50.2223"W	16.64	185.315	0.17	-0.01	-82.89		
5006.00	1.950	349.850	5005.92	13.62	-15.00	-1.73	1721030.07	14368716.36	39°34'3.2550"N	80°42'50.2246"W	15.10	186.560	2.11	1.95	-112.06		
5101.00	4.940	343.910	5100.73	7.94	-9.48	-3.14	1721028.65	14368721.88	39°34'3.3096"N	80°42'50.2425"W	9.99	198.349	3.17	3.15	-6.25		
5195.00	6.940	342.360	5194.22	-1.78	-0.18	-5.99	1721025.81	14368731.18	39°34'3.4016"N	80°42'50.2784"W	5.99	268.303	2.13	2.13	-1.65		
5290.00	8.420	340.840	5288.37	-14.48	11.86	-10.01	1721021.78	14368743.22	39°34'3.5207"N	80°42'50.3293"W	15.52	319.845	1.57	1.56	-1.60		
5384.00	8.390	352.810	5381.37	-28.07	25.17	-13.13	1721018.67	14368756.52	39°34'3.6523"N	80°42'50.3686"W	28.39	332.456	1.86	-0.03	12.73		
5478.00	9.710	359.910	5474.20	-42.28	39.90	-14.00	1721017.80	14368771.25	39°34'3.7980"N	80°42'50.3791"W	42.28	340.669	1.84	1.40	7.55		



Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (283 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
5573.00	9.400	355.500	5567.88	-57.37	55.65	-14.62	1721017.18	14368786.98	39°34'3.9536"N	80°42'50.3864"W	57.53	345.281	0.84	-0.33	-4.64	
5668.00	10.510	356.500	5661.45	-73.23	72.03	-15.76	1721016.04	14368803.36	39°34'4.1155"N	80°42'50.4003"W	73.73	347.661	1.18	1.17	1.05	
5763.00	12.270	356.960	5754.57	-91.28	90.76	-16.82	1721014.98	14368822.08	39°34'4.3007"N	80°42'50.4131"W	92.30	349.500	1.86	1.85	0.48	
5857.00	12.030	355.430	5846.47	-110.37	110.50	-18.13	1721013.67	14368841.81	39°34'4.4958"N	80°42'50.4290"W	111.98	350.682	0.43	-0.26	-1.63	
5951.00	10.840	352.580	5938.60	-128.52	129.03	-20.05	1721011.75	14368860.34	39°34'4.6790"N	80°42'50.4528"W	130.58	351.166	1.40	-1.27	-3.03	
6046.00	8.610	347.100	6032.23	-144.34	144.82	-22.79	1721009.00	14368876.12	39°34'4.8352"N	80°42'50.4872"W	146.60	351.055	2.54	-2.35	-5.77	
6141.00	7.040	345.170	6126.35	-157.22	157.38	-25.87	1721005.93	14368888.68	39°34'4.9594"N	80°42'50.5260"W	159.49	350.665	1.68	-1.65	-2.03	
6235.00	5.780	344.290	6219.76	-167.69	167.51	-28.63	1721003.17	14368898.80	39°34'5.0596"N	80°42'50.5608"W	169.94	350.301	1.34	-1.34	-0.94	
6330.00	2.660	323.030	6314.49	-174.56	173.88	-31.25	1721000.55	14368905.17	39°34'5.1226"N	80°42'50.5940"W	176.66	349.811	3.62	-3.28	-22.38	
6424.00	6.690	208.620	6408.28	-172.95	170.81	-35.19	1720996.61	14368902.10	39°34'5.0924"N	80°42'50.6444"W	174.39	348.358	8.68	4.29	-121.71	
6518.00	11.830	199.160	6501.03	-161.68	156.89	-40.98	1720990.83	14368888.19	39°34'4.9550"N	80°42'50.7189"W	162.15	345.361	5.68	5.47	-10.06	
6613.00	12.910	190.640	6593.83	-144.80	137.26	-46.14	1720985.67	14368868.56	39°34'4.7612"N	80°42'50.7855"W	144.80	341.421	2.23	1.14	-8.97	
6707.00	19.230	175.600	6684.15	-120.66	111.47	-46.89	1720984.92	14368842.78	39°34'4.5063"N	80°42'50.7962"W	120.93	337.186	8.00	6.72	-16.00	
6789.00†	25.427	170.911	6759.97	-90.23	80.59	-43.07	1720988.74	14368811.91	39°34'4.2010"N	80°42'50.7487"W	91.37	331.879	7.86	7.56	-5.72	Sycamore: 6789' MD
6802.00	26.420	170.360	6771.66	-84.62	74.98	-42.14	1720989.66	14368806.31	39°34'4.1455"N	80°42'50.7371"W	86.01	330.661	7.86	7.64	-4.24	
6845.00	29.490	168.960	6809.64	-64.70	55.16	-38.51	1720993.29	14368786.49	39°34'3.9495"N	80°42'50.6915"W	67.27	325.075	7.30	7.14	-3.26	BH AT Curve <8-1/2"> (6802)(6845'-26041')
6928.00	37.130	166.060	6878.96	-19.45	10.72	-28.55	1721003.25	14368742.08	39°34'3.5100"N	80°42'50.5661"W	30.50	290.584	9.40	9.20	-3.49	
6948.00†	39.001	165.397	6894.70	-7.16	-1.23	-25.51	1721006.29	14368730.13	39°34'3.3918"N	80°42'50.5278"W	25.54	267.246	9.58	9.35	-3.32	Middlesex: 6948' MD
7022.00	45.950	163.340	6949.25	42.69	-49.30	-12.00	1721019.80	14368682.08	39°34'2.9163"N	80°42'50.3572"W	50.74	193.678	9.58	9.39	-2.78	
7089.00†	52.490	160.595	6992.99	93.38	-97.49	3.75	1721035.54	14368633.91	39°34'2.4396"N	80°42'50.1580"W	97.56	177.795	10.24	9.76	-4.10	Burkett: 7089' MD
7117.00	55.240	159.590	7009.50	115.99	-118.75	11.46	1721043.24	14368612.66	39°34'2.2292"N	80°42'50.0605"W	119.30	174.490	10.24	9.82	-3.59	
7144.00†	57.466	159.642	7024.46	138.46	-139.81	19.28	1721051.07	14368591.60	39°34'2.0208"N	80°42'49.9614"W	141.14	172.147	8.25	8.24	0.19	Tully: 7144' MD
7211.00	62.990	159.760	7057.72	196.58	-194.34	39.45	1721071.22	14368537.10	39°34'1.4813"N	80°42'49.7062"W	198.30	168.525	8.25	8.24	0.18	
7305.00	70.970	161.190	7094.45	283.02	-275.82	68.31	1721100.07	14368455.65	39°34'0.6751"N	80°42'49.3409"W	284.15	166.090	8.60	8.49	1.52	
7356.00†	74.871	160.920	7109.43	331.76	-321.92	84.14	1721115.89	14368409.57	39°34'0.2189"N	80°42'49.1407"W	332.73	165.353	7.67	7.65	-0.53	Marcellus POE: 7356' MD
7399.00	78.160	160.700	7119.45	373.57	-361.41	97.88	1721129.63	14368370.10	39°33'59.8283"N	80°42'48.9669"W	374.42	164.846	7.67	7.65	-0.51	
7493.00	85.470	161.910	7132.83	466.54	-449.48	127.67	1721159.41	14368282.06	39°33'58.9569"N	80°42'48.5900"W	467.26	164.143	7.88	7.78	1.29	
7588.00	89.600	160.540	7136.91	561.43	-539.32	158.21	1721189.94	14368192.25	39°33'58.0680"N	80°42'48.2037"W	562.05	163.650	4.58	4.35	-1.44	
7682.00	89.780	160.270	7137.42	655.43	-627.87	189.74	1721221.45	14368103.73	39°33'57.1918"N	80°42'47.8048"W	655.92	163.186	0.35	0.19	-0.29	
7776.00	89.450	160.690	7138.05	749.42	-716.47	221.15	1721252.85	14368015.17	39°33'56.3152"N	80°42'47.4073"W	749.82	162.847	0.57	-0.35	0.45	

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Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (283 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
7869.00	89.820	158.190	7138.64	842.38	-803.54	253.80	1721285.49	14367928.14	39°33'55.4537"N	80°42'46.9939"W	842.67	162.471	2.72	0.40	-2.69	
7963.00	89.600	159.750	7139.12	936.32	-891.27	287.53	1721319.21	14367840.44	39°33'54.5855"N	80°42'46.5668"W	936.51	162.120	1.68	-0.23	1.66	
8057.00	89.750	160.370	7139.65	1030.30	-979.63	319.59	1721351.26	14367752.11	39°33'53.7112"N	80°42'46.1610"W	1030.45	161.932	0.68	0.16	0.66	
8151.00	89.940	160.690	7139.91	1124.30	-1068.26	350.92	1721382.57	14367663.52	39°33'52.8343"N	80°42'45.7646"W	1124.42	161.815	0.40	0.20	0.34	
8245.00	89.170	158.830	7140.64	1218.27	-1156.45	383.44	1721415.08	14367575.37	39°33'51.9617"N	80°42'45.3530"W	1218.36	161.656	2.14	-0.82	-1.98	
8339.00	88.210	158.030	7142.79	1312.15	-1243.84	417.99	1721449.61	14367488.01	39°33'51.0969"N	80°42'44.9154"W	1312.19	161.425	1.33	-1.02	-0.85	
8434.00	89.720	160.720	7144.50	1407.09	-1332.73	451.44	1721483.05	14367399.16	39°33'50.2173"N	80°42'44.4919"W	1407.11	161.287	3.25	1.59	2.83	
8528.00	89.850	160.310	7144.86	1501.08	-1421.34	482.80	1721514.40	14367310.58	39°33'49.3406"N	80°42'44.0952"W	1501.10	161.239	0.46	0.14	-0.44	
8622.00	89.540	160.850	7145.36	1595.08	-1509.99	514.05	1721545.64	14367221.96	39°33'48.4634"N	80°42'43.6998"W	1595.09	161.200	0.66	-0.33	0.57	
8716.00	89.940	159.980	7145.78	1689.07	-1598.55	545.56	1721577.13	14367133.44	39°33'47.5872"N	80°42'43.3011"W	1689.08	161.156	1.02	0.43	-0.93	
8811.00	90.310	160.010	7145.57	1784.06	-1687.82	578.06	1721609.62	14367044.21	39°33'46.7039"N	80°42'42.8898"W	1784.06	161.094	0.39	0.39	0.03	
8905.00	90.220	159.890	7145.14	1878.04	-1776.12	610.28	1721641.83	14366955.94	39°33'45.8302"N	80°42'42.4819"W	1878.05	161.037	0.16	-0.10	-0.13	
8999.00	89.750	160.120	7145.16	1972.03	-1864.46	642.43	1721673.96	14366867.64	39°33'44.9561"N	80°42'42.0751"W	1972.03	160.988	0.56	-0.50	0.24	
9094.00	90.120	160.210	7145.27	2067.02	-1953.82	674.66	1721706.18	14366778.31	39°33'44.0719"N	80°42'41.6672"W	2067.02	160.950	0.40	0.39	0.09	
9188.00	90.740	160.410	7144.57	2161.01	-2042.32	706.33	1721737.84	14366689.85	39°33'43.1962"N	80°42'41.2665"W	2161.01	160.922	0.69	0.66	0.21	
9282.00	90.030	160.450	7143.94	2255.00	-2130.89	737.82	1721769.32	14366601.31	39°33'42.3199"N	80°42'40.8681"W	2255.01	160.902	0.76	-0.76	0.04	
9376.00	90.090	160.060	7143.84	2349.00	-2219.36	769.57	1721801.06	14366512.88	39°33'41.4445"N	80°42'40.4662"W	2349.00	160.876	0.42	0.06	-0.41	
9470.00	90.180	159.600	7143.62	2442.98	-2307.59	801.98	1721833.46	14366424.68	39°33'40.5714"N	80°42'40.0560"W	2442.98	160.836	0.50	0.10	-0.49	
9564.00	89.450	160.150	7143.92	2536.96	-2395.85	834.33	1721865.79	14366336.45	39°33'39.6981"N	80°42'39.6467"W	2536.97	160.800	0.97	-0.78	0.59	
9659.00	90.460	159.600	7143.99	2631.94	-2485.05	867.01	1721898.46	14366247.29	39°33'38.8155"N	80°42'39.2330"W	2631.96	160.767	1.21	1.06	-0.58	
9753.00	89.230	160.990	7144.25	2725.93	-2573.54	898.71	1721930.14	14366158.83	39°33'37.9399"N	80°42'38.8320"W	2725.95	160.750	1.97	-1.31	1.48	
9848.00	89.850	160.520	7145.01	2820.92	-2663.23	930.02	1721961.44	14366069.18	39°33'37.0525"N	80°42'38.4359"W	2820.95	160.750	0.82	0.65	-0.49	
9942.00	89.660	160.700	7145.41	2914.92	-2751.90	961.22	1721992.64	14365980.55	39°33'36.1752"N	80°42'38.0411"W	2914.94	160.746	0.28	-0.20	0.19	
10036.00	89.750	160.610	7145.90	3008.92	-2840.59	992.36	1722023.76	14365891.89	39°33'35.2977"N	80°42'37.6472"W	3008.94	160.743	0.14	0.10	-0.10	
10131.00	89.290	160.910	7146.69	3103.91	-2930.28	1023.67	1722055.05	14365802.24	39°33'34.4102"N	80°42'37.2512"W	3103.94	160.744	0.58	-0.48	0.32	
10225.00	90.090	160.500	7147.20	3197.91	-3019.00	1054.73	1722086.10	14365713.55	39°33'33.5324"N	80°42'36.8583"W	3197.94	160.742	0.96	0.85	-0.44	
10319.00	89.880	161.200	7147.23	3291.91	-3107.80	1085.56	1722116.92	14365624.79	39°33'32.6539"N	80°42'36.4683"W	3291.94	160.746	0.78	-0.22	0.74	
10414.00	89.970	160.770	7147.35	3386.91	-3197.61	1116.51	1722147.86	14365535.01	39°33'31.7652"N	80°42'36.0768"W	3386.93	160.752	0.46	0.09	-0.45	
10508.00	90.030	160.890	7147.35	3480.91	-3286.40	1147.38	1722178.72	14365446.26	39°33'30.8867"N	80°42'35.6863"W	3480.93	160.754	0.14	0.06	0.13	
10603.00	88.710	160.120	7148.39	3575.90	-3375.95	1179.08	1722210.41	14365356.75	39°33'30.0007"N	80°42'35.2853"W	3575.93	160.748	1.61	-1.39	-0.81	

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Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
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WELLPATH DATA (283 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
10697.00	90.490	160.810	7149.05	3669.89	-3464.53	1210.51	1722241.82	14365268.20	39°33'29.1242"N	80°42'34.8877"W	3669.92	160.741	2.03	1.89	0.73	
10791.00	90.060	160.860	7148.60	3763.89	-3553.32	1241.37	1722272.67	14365179.44	39°33'28.2457"N	80°42'34.4973"W	3763.92	160.743	0.46	-0.46	0.05	
10885.00	89.750	161.060	7148.76	3857.89	-3642.17	1272.04	1722303.32	14365090.62	39°33'27.3665"N	80°42'34.1095"W	3857.92	160.748	0.39	-0.33	0.21	
10980.00	90.120	161.080	7148.86	3952.89	-3732.04	1302.85	1722334.13	14365000.80	39°33'26.4774"N	80°42'33.7197"W	3952.91	160.756	0.39	0.39	0.02	
11074.00	90.030	161.030	7148.74	4046.89	-3820.94	1333.37	1722364.64	14364911.92	39°33'25.5978"N	80°42'33.3338"W	4046.91	160.763	0.11	-0.10	-0.05	
11169.00	89.600	162.000	7149.05	4141.88	-3911.04	1363.49	1722394.74	14364821.86	39°33'24.7064"N	80°42'32.9529"W	4141.90	160.780	1.12	-0.45	1.02	
11263.00	90.030	162.200	7149.35	4235.86	-4000.49	1392.38	1722423.62	14364732.45	39°33'23.8214"N	80°42'32.5878"W	4235.88	160.809	0.50	0.46	0.21	
11358.00	90.030	162.220	7149.30	4330.84	-4090.95	1421.41	1722452.64	14364642.03	39°33'22.9265"N	80°42'32.2209"W	4330.85	160.840	0.02	0.00	0.02	
11452.00	90.150	161.710	7149.15	4424.82	-4180.33	1450.51	1722481.73	14364552.68	39°33'22.0421"N	80°42'31.8531"W	4424.83	160.864	0.56	0.13	-0.54	
11546.00	89.940	162.250	7149.08	4518.81	-4269.72	1479.59	1722510.80	14364463.33	39°33'21.1578"N	80°42'31.4855"W	4518.81	160.887	0.62	-0.22	0.57	
11640.00	89.940	162.280	7149.18	4612.78	-4359.25	1508.22	1722539.42	14364373.83	39°33'20.2720"N	80°42'31.1237"W	4612.79	160.915	0.03	0.00	0.03	
11735.00	90.340	161.970	7148.95	4707.76	-4449.66	1537.38	1722568.57	14364283.45	39°33'19.3775"N	80°42'30.7551"W	4707.77	160.940	0.53	0.42	-0.33	
11829.00	89.970	162.420	7148.69	4801.74	-4539.16	1566.13	1722597.30	14364193.99	39°33'18.4920"N	80°42'30.3919"W	4801.74	160.964	0.62	-0.39	0.48	
11924.00	90.000	162.100	7148.72	4896.72	-4629.64	1595.07	1722626.23	14364103.54	39°33'17.5969"N	80°42'30.0261"W	4896.72	160.989	0.34	0.03	-0.34	
12018.00	89.720	162.020	7148.95	4990.70	-4719.07	1624.03	1722655.18	14364014.15	39°33'16.7121"N	80°42'29.6601"W	4990.70	161.010	0.31	-0.30	-0.09	
12113.00	90.220	162.030	7149.00	5085.68	-4809.44	1653.34	1722684.48	14363923.82	39°33'15.8181"N	80°42'29.2896"W	5085.69	161.029	0.53	0.53	0.01	
12207.00	89.820	162.140	7148.96	5179.67	-4898.88	1682.26	1722713.38	14363834.42	39°33'14.9332"N	80°42'28.9242"W	5179.67	161.048	0.44	-0.43	0.12	
12302.00	89.880	162.040	7149.21	5274.65	-4989.27	1711.47	1722742.59	14363744.05	39°33'14.0388"N	80°42'28.5549"W	5274.66	161.066	0.12	0.06	-0.11	
12396.00	90.030	161.970	7149.29	5368.63	-5078.68	1740.51	1722771.62	14363654.69	39°33'13.1543"N	80°42'28.1879"W	5368.64	161.083	0.18	0.16	-0.07	
12490.00	90.000	162.350	7149.26	5462.61	-5168.16	1769.31	1722800.40	14363565.24	39°33'12.2690"N	80°42'27.8240"W	5462.63	161.101	0.41	-0.03	0.40	
12584.00	89.690	162.570	7149.52	5556.58	-5257.78	1797.64	1722828.72	14363475.65	39°33'11.3823"N	80°42'27.4660"W	5556.60	161.124	0.40	-0.33	0.23	
12678.00	89.850	162.130	7149.89	5650.55	-5347.36	1826.14	1722857.21	14363386.11	39°33'10.4961"N	80°42'27.1059"W	5650.58	161.145	0.50	0.17	-0.47	
12773.00	89.910	162.450	7150.09	5745.53	-5437.86	1855.04	1722886.10	14363295.65	39°33'9.6008"N	80°42'26.7407"W	5745.56	161.164	0.34	0.06	0.34	
12867.00	90.620	161.150	7149.66	5839.51	-5527.15	1884.40	1722915.44	14363206.39	39°33'8.7173"N	80°42'26.3696"W	5839.55	161.174	1.58	0.76	-1.38	
12961.00	90.340	161.130	7148.87	5933.51	-5616.10	1914.78	1722945.82	14363117.48	39°33'7.8372"N	80°42'25.9854"W	5933.55	161.173	0.30	-0.30	-0.02	
13056.00	90.120	161.400	7148.49	6028.51	-5706.07	1945.29	1722976.32	14363027.55	39°33'6.9471"N	80°42'25.5996"W	6028.55	161.175	0.37	-0.23	0.28	
13150.00	90.740	161.400	7147.78	6122.50	-5795.15	1975.28	1723006.29	14362938.49	39°33'6.0657"N	80°42'25.2206"W	6122.54	161.178	0.66	0.66	0.00	
13245.00	89.660	161.240	7147.45	6217.50	-5885.15	2005.70	1723036.70	14362848.54	39°33'5.1753"N	80°42'24.8359"W	6217.54	161.181	1.15	-1.14	-0.17	
13339.00	89.600	161.320	7148.06	6311.49	-5974.17	2035.87	1723066.86	14362759.55	39°33'4.2944"N	80°42'24.4545"W	6311.54	161.182	0.11	-0.06	0.09	
13434.00	90.770	160.670	7147.75	6406.49	-6063.99	2066.81	1723097.78	14362669.76	39°33'3.4057"N	80°42'24.0633"W	6406.53	161.179	1.41	1.23	-0.68	



Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gowland Unit 1H
Field	Wetzel		API	47-103-03614-0000
Facility	Cedar Pad		Wellbore	Gowland Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (283 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
13528.00	90.000	161.160	7147.12	6500.49	-6152.82	2097.54	1723128.50	14362580.97	39°33'2.5268"N	80°42'23.6746"W	6500.53	161.175	0.97	-0.82	0.52	
13622.00	90.120	160.880	7147.02	6594.49	-6241.71	2128.11	1723159.06	14362492.11	39°33'1.6473"N	80°42'23.2880"W	6594.53	161.173	0.32	0.13	-0.30	
13717.00	90.550	161.380	7146.47	6689.49	-6331.60	2158.84	1723189.78	14362402.26	39°33'0.7579"N	80°42'22.8996"W	6689.53	161.173	0.69	0.45	0.53	
13811.00	89.910	161.600	7146.09	6783.48	-6420.74	2188.68	1723219.61	14362313.15	39°32'59.8760"N	80°42'22.5223"W	6783.52	161.177	0.72	-0.68	0.23	
13905.00	89.780	161.270	7146.34	6877.48	-6509.85	2218.61	1723249.52	14362224.08	39°32'58.9943"N	80°42'22.1440"W	6877.52	161.180	0.38	-0.14	-0.35	
14000.00	89.780	160.910	7146.71	6972.48	-6599.72	2249.39	1723280.30	14362134.25	39°32'58.1051"N	80°42'21.7547"W	6972.52	161.179	0.38	0.00	-0.38	
14094.00	90.250	161.820	7146.68	7066.47	-6688.79	2279.43	1723310.32	14362045.21	39°32'57.2239"N	80°42'21.3750"W	7066.52	161.182	1.09	0.50	0.97	
14188.00	90.060	161.330	7146.43	7160.47	-6777.97	2309.14	1723340.02	14361956.06	39°32'56.3415"N	80°42'20.9994"W	7160.52	161.187	0.56	-0.20	-0.52	
14283.00	89.880	161.410	7146.48	7255.46	-6867.99	2339.49	1723370.35	14361866.08	39°32'55.4508"N	80°42'20.6158"W	7255.52	161.189	0.21	-0.19	0.08	
14377.00	89.970	161.210	7146.60	7349.46	-6957.04	2369.61	1723400.47	14361777.07	39°32'54.5698"N	80°42'20.2350"W	7349.52	161.191	0.23	0.10	-0.21	
14473.00	89.750	162.570	7146.84	7445.45	-7048.28	2399.45	1723430.29	14361685.86	39°32'53.6671"N	80°42'19.8579"W	7445.51	161.200	1.44	-0.23	1.42	
14567.00	90.980	162.010	7146.24	7539.42	-7137.82	2428.04	1723458.88	14361596.36	39°32'52.7812"N	80°42'19.4966"W	7539.49	161.213	1.44	1.31	-0.60	
14662.00	90.520	159.400	7144.99	7634.40	-7227.47	2459.43	1723490.25	14361506.75	39°32'51.8942"N	80°42'19.0997"W	7634.47	161.207	2.79	-0.48	-2.75	
14756.00	89.690	159.310	7144.82	7728.36	-7315.43	2492.57	1723523.38	14361418.82	39°32'51.0237"N	80°42'18.6803"W	7728.42	161.185	0.89	-0.88	-0.10	
14850.00	90.030	159.390	7145.05	7822.32	-7403.39	2525.72	1723556.51	14361330.89	39°32'50.1533"N	80°42'18.2608"W	7822.37	161.163	0.37	0.36	0.09	
14945.00	90.460	159.390	7144.64	7917.29	-7492.31	2559.16	1723589.94	14361242.01	39°32'49.2734"N	80°42'17.8377"W	7917.32	161.141	0.45	0.45	0.00	
15039.00	89.970	157.680	7144.29	8011.20	-7579.78	2593.56	1723624.32	14361154.57	39°32'48.4078"N	80°42'17.4023"W	8011.22	161.111	1.89	-0.52	-1.82	
15134.00	89.450	156.490	7144.77	8105.98	-7667.28	2630.55	1723661.30	14361067.10	39°32'47.5418"N	80°42'16.9338"W	8105.99	161.064	1.37	-0.55	-1.25	
15228.00	90.370	160.520	7144.92	8199.87	-7754.73	2664.98	1723695.72	14360979.69	39°32'46.6765"N	80°42'16.4978"W	8199.87	161.034	4.40	0.98	4.29	
15322.00	89.200	158.780	7145.27	8293.84	-7842.85	2697.67	1723728.39	14360891.60	39°32'45.8044"N	80°42'16.0843"W	8293.84	161.019	2.23	-1.24	-1.85	
15417.00	88.550	157.960	7147.14	8388.72	-7931.15	2732.68	1723763.39	14360803.34	39°32'44.9307"N	80°42'15.6411"W	8388.72	160.989	1.10	-0.68	-0.86	
15511.00	88.710	159.640	7149.39	8482.62	-8018.76	2766.66	1723797.36	14360715.77	39°32'44.0637"N	80°42'15.2110"W	8482.62	160.964	1.79	0.17	1.79	
15605.00	89.660	159.900	7150.72	8576.59	-8106.95	2799.16	1723829.85	14360627.61	39°32'43.1910"N	80°42'14.7998"W	8576.59	160.951	1.05	1.01	0.28	
15700.00	89.420	159.060	7151.49	8671.55	-8195.92	2832.46	1723863.13	14360538.68	39°32'42.3107"N	80°42'14.3785"W	8671.56	160.935	0.92	-0.25	-0.88	
15794.00	89.420	158.990	7152.44	8765.50	-8283.68	2866.11	1723896.77	14360450.94	39°32'41.4421"N	80°42'13.9527"W	8765.50	160.915	0.07	0.00	-0.07	
15889.00	89.570	161.010	7153.27	8860.47	-8372.95	2898.60	1723929.24	14360361.72	39°32'40.5589"N	80°42'13.5417"W	8860.48	160.905	2.13	0.16	2.13	
15983.00	89.510	161.460	7154.03	8954.47	-8461.95	2928.83	1723959.47	14360272.75	39°32'39.6783"N	80°42'13.1595"W	8954.47	160.908	0.48	-0.06	0.48	
16078.00	89.630	161.510	7154.74	9049.46	-8552.03	2959.00	1723989.62	14360182.71	39°32'38.7870"N	80°42'12.7782"W	9049.47	160.914	0.14	0.13	0.05	
16173.00	89.450	161.990	7155.50	9144.45	-8642.25	2988.75	1724019.36	14360092.52	39°32'37.8944"N	80°42'12.4022"W	9144.45	160.923	0.54	-0.19	0.51	
16267.00	89.110	161.040	7156.69	9238.44	-8731.39	3018.55	1724049.15	14360003.42	39°32'37.0124"N	80°42'12.0256"W	9238.44	160.929	1.07	-0.36	-1.01	

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Gowland Unit 1H AWP Proj: 26066'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gowland Unit 1H
Field	Wetzel		API	47-103-03614-0000
Facility	Cedar Pad		Wellbore	Gowland Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (283 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
16362.00	89.880	161.910	7157.52	9333.43	-8821.46	3048.73	1724079.32	14359913.38	39°32'36.1212"N	80°42'11.6441"W	9333.43	160.935	1.22	0.81	0.92	
16456.00	89.690	161.850	7157.88	9427.42	-8910.80	3077.97	1724108.54	14359824.08	39°32'35.2373"N	80°42'11.2747"W	9427.42	160.944	0.21	-0.20	-0.06	
16551.00	89.540	161.810	7158.51	9522.40	-9001.06	3107.59	1724138.15	14359733.85	39°32'34.3443"N	80°42'10.9004"W	9522.40	160.953	0.16	-0.16	-0.04	
16645.00	89.630	162.090	7159.20	9616.39	-9090.43	3136.72	1724167.27	14359644.52	39°32'33.4601"N	80°42'10.5324"W	9616.39	160.963	0.31	0.10	0.30	
16739.00	89.660	161.940	7159.78	9710.37	-9179.84	3165.74	1724196.28	14359555.15	39°32'32.5755"N	80°42'10.1657"W	9710.37	160.973	0.16	0.03	-0.16	
16833.00	89.780	161.750	7160.24	9804.36	-9269.15	3195.03	1724225.56	14359465.86	39°32'31.6918"N	80°42'9.7956"W	9804.36	160.981	0.24	0.13	-0.20	
16927.00	89.570	162.160	7160.77	9898.34	-9358.53	3224.14	1724254.66	14359376.52	39°32'30.8075"N	80°42'9.4277"W	9898.34	160.990	0.49	-0.22	0.44	
17021.00	89.780	161.800	7161.30	9992.33	-9447.92	3253.22	1724283.73	14359287.17	39°32'29.9231"N	80°42'9.0603"W	9992.33	161.000	0.44	0.22	-0.38	
17115.00	89.510	162.560	7161.89	10086.30	-9537.40	3281.99	1724312.48	14359197.72	39°32'29.0378"N	80°42'8.6969"W	10086.30	161.011	0.86	-0.29	0.81	
17210.00	89.660	162.100	7162.57	10181.27	-9627.92	3310.82	1724341.31	14359107.24	39°32'28.1423"N	80°42'8.3327"W	10181.28	161.023	0.51	0.16	-0.48	
17304.00	89.600	162.040	7163.18	10275.25	-9717.35	3339.76	1724370.23	14359017.84	39°32'27.2574"N	80°42'7.9671"W	10275.26	161.033	0.09	-0.06	-0.06	
17399.00	89.820	161.900	7163.66	10370.24	-9807.69	3369.17	1724399.63	14358927.54	39°32'26.3637"N	80°42'7.5956"W	10370.25	161.041	0.27	0.23	-0.15	
17494.00	89.660	161.590	7164.09	10465.23	-9897.90	3398.92	1724429.37	14358837.36	39°32'25.4711"N	80°42'7.2196"W	10465.24	161.048	0.37	-0.17	-0.33	
17589.00	89.720	161.790	7164.61	10560.22	-9988.09	3428.77	1724459.20	14358747.21	39°32'24.5787"N	80°42'6.8424"W	10560.23	161.053	0.22	0.06	0.21	
17683.00	89.660	162.170	7165.12	10654.20	-10077.48	3457.85	1724488.27	14358657.86	39°32'23.6943"N	80°42'6.4751"W	10654.22	161.062	0.41	-0.06	0.40	
17777.00	89.750	161.920	7165.60	10748.18	-10166.90	3486.82	1724517.24	14358568.47	39°32'22.8096"N	80°42'6.1090"W	10748.20	161.070	0.28	0.10	-0.27	
17872.00	89.720	162.030	7166.04	10843.17	-10257.24	3516.22	1724546.62	14358478.17	39°32'21.9158"N	80°42'5.7376"W	10843.19	161.078	0.12	-0.03	0.12	
17966.00	89.720	161.780	7166.50	10937.16	-10346.59	3545.41	1724575.81	14358388.85	39°32'21.0318"N	80°42'5.3687"W	10937.18	161.085	0.27	0.00	-0.27	
18060.00	89.780	161.820	7166.91	11031.14	-10435.88	3574.77	1724605.15	14358299.59	39°32'20.1483"N	80°42'4.9978"W	11031.17	161.091	0.08	0.06	0.04	
18155.00	89.750	161.870	7167.30	11126.13	-10526.15	3604.37	1724634.74	14358209.36	39°32'19.2552"N	80°42'4.6238"W	11126.16	161.098	0.06	-0.03	0.05	
18249.00	89.780	162.170	7167.68	11220.12	-10615.56	3633.39	1724663.75	14358119.99	39°32'18.3706"N	80°42'4.2572"W	11220.15	161.105	0.32	0.03	0.32	
18343.00	89.480	161.980	7168.29	11314.10	-10705.00	3662.32	1724692.67	14358030.59	39°32'17.4857"N	80°42'3.8918"W	11314.13	161.114	0.38	-0.32	-0.20	
18438.00	89.600	161.820	7169.05	11409.08	-10795.29	3691.83	1724722.17	14357940.33	39°32'16.5923"N	80°42'3.5189"W	11409.12	161.120	0.21	0.13	-0.17	
18533.00	89.600	161.630	7169.72	11504.07	-10885.50	3721.62	1724751.94	14357850.15	39°32'15.6998"N	80°42'3.1425"W	11504.11	161.125	0.20	0.00	-0.20	
18628.00	89.750	161.950	7170.26	11599.06	-10975.74	3751.31	1724781.62	14357759.95	39°32'14.8070"N	80°42'2.7674"W	11599.10	161.131	0.37	0.16	0.34	
18722.00	89.630	161.950	7170.76	11693.04	-11065.11	3780.43	1724810.73	14357670.61	39°32'13.9227"N	80°42'2.3995"W	11693.09	161.137	0.13	-0.13	0.00	
18816.00	89.780	161.980	7171.25	11787.03	-11154.49	3809.54	1724839.82	14357581.27	39°32'13.0384"N	80°42'2.0318"W	11787.08	161.144	0.16	0.16	0.03	
18910.00	89.570	162.090	7171.78	11881.01	-11243.91	3838.53	1724868.80	14357491.89	39°32'12.1537"N	80°42'1.6656"W	11881.07	161.151	0.25	-0.22	0.12	
19005.00	89.630	161.730	7172.44	11975.99	-11334.21	3868.03	1724898.29	14357401.62	39°32'11.2603"N	80°42'1.2929"W	11976.06	161.157	0.38	0.06	-0.38	
19099.00	89.750	161.670	7172.95	12069.99	-11423.46	3897.54	1724927.79	14357312.41	39°32'10.3773"N	80°42'0.9200"W	12070.05	161.161	0.14	0.13	-0.06	

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Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (283 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
19193.00	89.630	161.820	7173.46	12163.98	-11512.72	3926.99	1724957.23	14357223.18	39°32'9.4941"N	80°42'0.5480"W	12164.05	161.166	0.20	-0.13	0.16	
19287.00	89.660	161.770	7174.04	12257.96	-11602.02	3956.35	1724986.58	14357133.92	39°32'8.6106"N	80°42'0.1770"W	12258.04	161.170	0.06	0.03	-0.05	
19382.00	89.720	161.790	7174.56	12352.95	-11692.25	3986.06	1725016.27	14357043.72	39°32'7.7178"N	80°41'59.8017"W	12353.03	161.175	0.07	0.06	0.02	
19476.00	89.820	162.060	7174.94	12446.94	-11781.61	4015.22	1725045.43	14356954.40	39°32'6.8337"N	80°41'59.4333"W	12447.02	161.181	0.31	0.11	0.29	
19570.00	89.660	162.190	7175.36	12540.92	-11871.07	4044.07	1725074.27	14356864.97	39°32'5.9486"N	80°41'59.0689"W	12541.01	161.188	0.22	-0.17	0.14	
19665.00	90.000	160.980	7175.64	12635.91	-11961.21	4074.08	1725104.26	14356774.87	39°32'5.0568"N	80°41'58.6897"W	12636.01	161.191	1.32	0.36	-1.27	
19759.00	89.420	159.270	7176.12	12729.90	-12049.60	4106.04	1725136.21	14356686.51	39°32'4.1821"N	80°41'58.2856"W	12729.98	161.183	1.92	-0.62	-1.82	
19853.00	89.690	159.530	7176.85	12823.86	-12137.59	4139.11	1725169.27	14356598.56	39°32'3.3114"N	80°41'57.8672"W	12823.94	161.170	0.40	0.29	0.28	
19948.00	89.660	160.070	7177.39	12918.84	-12226.75	4171.91	1725202.06	14356509.44	39°32'2.4292"N	80°41'57.4524"W	12918.91	161.160	0.57	-0.03	0.57	
20042.00	89.690	159.990	7177.92	13012.82	-12315.09	4204.02	1725234.15	14356421.13	39°32'1.5549"N	80°41'57.0464"W	13012.89	161.152	0.09	0.03	-0.09	
20137.00	89.780	160.010	7178.36	13107.81	-12404.36	4236.51	1725266.63	14356331.89	39°32'0.6716"N	80°41'56.6356"W	13107.87	161.143	0.10	0.09	0.02	
20232.00	89.850	160.590	7178.67	13202.80	-12493.80	4268.53	1725298.64	14356242.49	39°31'59.7866"N	80°41'56.2307"W	13202.86	161.137	0.61	0.07	0.61	
20327.00	89.720	160.400	7179.02	13297.80	-12583.35	4300.25	1725330.34	14356152.98	39°31'58.9005"N	80°41'55.8297"W	13297.85	161.133	0.24	-0.14	-0.20	
20421.00	89.780	160.080	7179.43	13391.79	-12671.81	4332.03	1725362.11	14356064.55	39°31'58.0252"N	80°41'55.4278"W	13391.84	161.126	0.35	0.06	-0.34	
20515.00	89.850	160.230	7179.74	13485.78	-12760.23	4363.94	1725394.01	14355976.16	39°31'57.1503"N	80°41'55.0244"W	13485.82	161.120	0.18	0.07	0.16	
20610.00	89.750	160.240	7180.07	13580.77	-12849.63	4396.06	1725426.12	14355886.80	39°31'56.2656"N	80°41'54.6182"W	13580.81	161.113	0.11	-0.11	0.01	
20704.00	89.880	160.420	7180.37	13674.76	-12938.15	4427.71	1725457.75	14355798.32	39°31'55.3897"N	80°41'54.2182"W	13674.80	161.108	0.24	0.14	0.19	
20798.00	89.350	159.830	7181.00	13768.75	-13026.55	4459.66	1725489.69	14355709.95	39°31'54.5150"N	80°41'53.8141"W	13768.79	161.101	0.84	-0.56	-0.63	
20893.00	89.750	160.400	7181.75	13863.74	-13115.88	4491.97	1725521.99	14355620.66	39°31'53.6311"N	80°41'53.4055"W	13863.77	161.095	0.73	0.42	0.60	
20988.00	89.600	160.240	7182.29	13958.73	-13205.33	4523.97	1725553.97	14355531.24	39°31'52.7460"N	80°41'53.0011"W	13958.76	161.089	0.23	-0.16	-0.17	
21082.00	89.630	160.060	7182.92	14052.72	-13293.74	4555.88	1725585.88	14355442.87	39°31'51.8711"N	80°41'52.5975"W	14052.74	161.083	0.19	0.03	-0.19	
21177.00	89.660	159.940	7183.51	14147.70	-13383.01	4588.37	1725618.35	14355353.63	39°31'50.9877"N	80°41'52.1867"W	14147.72	161.076	0.13	0.03	-0.13	
21271.00	89.820	160.360	7183.94	14241.69	-13471.42	4620.29	1725650.26	14355265.25	39°31'50.1129"N	80°41'51.7831"W	14241.71	161.070	0.48	0.17	0.45	
21365.00	89.660	160.220	7184.36	14335.68	-13559.91	4651.99	1725681.95	14355176.80	39°31'49.2372"N	80°41'51.3823"W	14335.70	161.064	0.23	-0.17	-0.15	
21460.00	89.690	160.000	7184.90	14430.67	-13649.25	4684.31	1725714.26	14355087.50	39°31'48.3533"N	80°41'50.9737"W	14430.69	161.058	0.23	0.03	-0.23	
21554.00	89.720	160.490	7185.39	14524.66	-13737.71	4716.09	1725746.02	14354999.07	39°31'47.4779"N	80°41'50.5720"W	14524.68	161.053	0.52	0.03	0.52	
21648.00	89.850	160.050	7185.74	14618.65	-13826.19	4747.82	1725777.74	14354910.62	39°31'46.6024"N	80°41'50.1708"W	14618.67	161.048	0.49	0.14	-0.47	
21743.00	89.690	160.180	7186.12	14713.64	-13915.53	4780.13	1725810.04	14354821.32	39°31'45.7184"N	80°41'49.7623"W	14713.65	161.042	0.22	-0.17	0.14	
21837.00	89.600	160.100	7186.70	14807.63	-14003.94	4812.06	1725841.96	14354732.95	39°31'44.8435"N	80°41'49.3585"W	14807.64	161.036	0.13	-0.10	-0.09	
21932.00	89.660	159.940	7187.32	14902.61	-14093.22	4844.52	1725874.40	14354643.70	39°31'43.9601"N	80°41'48.9481"W	14902.62	161.030	0.18	0.06	-0.17	



Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (283 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
22026.00	89.780	159.790	7187.78	14996.60	-14181.47	4876.88	1725906.75	14354555.49	39°31'43.0868"N	80°41'48.5390"W	14996.60	161.022	0.20	0.13	-0.16	
22121.00	89.750	160.240	7188.16	15091.58	-14270.75	4909.35	1725939.20	14354466.24	39°31'42.2033"N	80°41'48.1284"W	15091.59	161.016	0.47	-0.03	0.47	
22215.00	89.720	160.180	7188.60	15185.57	-14359.20	4941.18	1725971.02	14354377.83	39°31'41.3281"N	80°41'47.7261"W	15185.58	161.011	0.07	-0.03	-0.06	
22309.00	89.720	160.410	7189.06	15279.56	-14447.69	4972.87	1726002.70	14354289.37	39°31'40.4525"N	80°41'47.3254"W	15279.57	161.007	0.24	0.00	0.24	
22403.00	89.660	159.930	7189.57	15373.55	-14536.11	5004.76	1726034.57	14354200.98	39°31'39.5775"N	80°41'46.9223"W	15373.56	161.002	0.51	-0.06	-0.51	
22498.00	89.420	159.650	7190.33	15468.53	-14625.26	5037.58	1726067.38	14354111.87	39°31'38.6953"N	80°41'46.5073"W	15468.53	160.994	0.39	-0.25	-0.29	
22592.00	89.780	160.130	7190.99	15562.51	-14713.53	5069.89	1726099.68	14354023.64	39°31'37.8219"N	80°41'46.0987"W	15562.51	160.987	0.64	0.38	0.51	
22687.00	89.600	159.990	7191.50	15657.50	-14802.83	5102.29	1726132.07	14353934.37	39°31'36.9382"N	80°41'45.6891"W	15657.50	160.982	0.24	-0.19	-0.15	
22781.00	89.600	160.090	7192.16	15751.48	-14891.18	5134.38	1726164.14	14353846.05	39°31'36.0639"N	80°41'45.2834"W	15751.48	160.976	0.11	0.00	0.11	
22876.00	89.660	160.450	7192.77	15846.47	-14980.61	5166.45	1726196.20	14353756.67	39°31'35.1791"N	80°41'44.8780"W	15846.47	160.972	0.38	0.06	0.38	
22970.00	89.660	160.020	7193.33	15940.46	-15069.07	5198.24	1726227.97	14353668.24	39°31'34.3037"N	80°41'44.4762"W	15940.46	160.968	0.46	0.00	-0.46	
23064.00	89.690	160.100	7193.86	16034.45	-15157.43	5230.29	1726260.02	14353579.91	39°31'33.4293"N	80°41'44.0709"W	16034.45	160.962	0.09	0.03	0.09	
23159.00	89.690	160.120	7194.38	16129.44	-15246.76	5262.61	1726292.33	14353490.62	39°31'32.5454"N	80°41'43.6623"W	16129.44	160.957	0.02	0.00	0.02	
23253.00	89.660	160.080	7194.91	16223.43	-15335.15	5294.61	1726324.31	14353402.26	39°31'31.6708"N	80°41'43.2578"W	16223.43	160.952	0.05	-0.03	-0.04	
23347.00	89.600	161.190	7195.52	16317.42	-15423.83	5325.78	1726355.46	14353313.62	39°31'30.7933"N	80°41'42.8639"W	16317.42	160.950	1.18	-0.06	1.18	
23536.00	89.720	161.110	7196.64	16506.42	-15602.69	5386.84	1726416.50	14353134.83	39°31'29.0235"N	80°41'42.0924"W	16506.42	160.953	0.08	0.06	-0.04	
23630.00	89.660	160.840	7197.15	16600.42	-15691.55	5417.48	1726447.13	14353046.00	39°31'28.1442"N	80°41'41.7052"W	16600.42	160.953	0.29	-0.06	-0.29	
23725.00	89.780	161.210	7197.61	16695.41	-15781.39	5448.37	1726478.01	14352956.20	39°31'27.2553"N	80°41'41.3149"W	16695.41	160.953	0.41	0.13	0.39	
23819.00	89.720	161.110	7198.02	16789.41	-15870.35	5478.72	1726508.35	14352867.27	39°31'26.3751"N	80°41'40.9314"W	16789.41	160.954	0.12	-0.06	-0.11	
23913.00	89.720	160.910	7198.48	16883.41	-15959.23	5509.31	1726538.93	14352778.42	39°31'25.4956"N	80°41'40.5449"W	16883.41	160.955	0.21	0.00	-0.21	
24007.00	89.630	160.950	7199.01	16977.41	-16048.07	5540.02	1726569.63	14352689.62	39°31'24.6165"N	80°41'40.1569"W	16977.41	160.955	0.10	-0.10	0.04	
24102.00	89.820	161.060	7199.47	17072.41	-16137.90	5570.94	1726600.54	14352599.83	39°31'23.7277"N	80°41'39.7662"W	17072.41	160.955	0.23	0.20	0.12	
24196.00	89.450	161.210	7200.07	17166.41	-16226.85	5601.34	1726630.92	14352510.92	39°31'22.8476"N	80°41'39.3822"W	17166.41	160.956	0.42	-0.39	0.16	
24290.00	89.660	161.380	7200.80	17260.40	-16315.88	5631.48	1726661.05	14352421.92	39°31'21.9667"N	80°41'39.0014"W	17260.40	160.958	0.29	0.22	0.18	
24385.00	89.750	161.140	7201.29	17355.40	-16405.84	5662.00	1726691.56	14352331.99	39°31'21.0765"N	80°41'38.6158"W	17355.40	160.959	0.27	0.09	-0.25	
24479.00	89.820	160.940	7201.64	17449.40	-16494.74	5692.54	1726722.09	14352243.13	39°31'20.1969"N	80°41'38.2299"W	17449.40	160.960	0.23	0.07	-0.21	
24574.00	89.820	160.880	7201.94	17544.40	-16584.52	5723.61	1726753.15	14352153.39	39°31'19.3085"N	80°41'37.8374"W	17544.40	160.960	0.06	0.00	-0.06	
24668.00	89.820	161.200	7202.23	17638.40	-16673.42	5754.15	1726783.67	14352064.52	39°31'18.4289"N	80°41'37.4515"W	17638.40	160.960	0.34	0.00	0.34	
24857.00	89.630	161.090	7203.14	17827.39	-16852.27	5815.23	1726844.73	14351885.74	39°31'16.6592"N	80°41'36.6798"W	17827.39	160.962	0.12	-0.10	-0.06	
24952.00	89.780	161.050	7203.63	17922.39	-16942.13	5846.05	1726875.54	14351795.91	39°31'15.7700"N	80°41'36.2905"W	17922.39	160.962	0.16	0.16	-0.04	

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Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (283 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
25046.00	89.880	161.270	7203.91	18016.39	-17031.10	5876.41	1726905.88	14351706.98	39°31'14.8897"N	80°41'35.9070"W	18016.39	160.964	0.26	0.11	0.23	
25140.00	89.660	161.160	7204.29	18110.39	-17120.09	5906.68	1726936.14	14351618.03	39°31'14.0092"N	80°41'35.5246"W	18110.39	160.965	0.26	-0.23	-0.12	
25234.00	89.820	161.070	7204.71	18204.39	-17209.03	5937.10	1726966.55	14351529.12	39°31'13.1292"N	80°41'35.1403"W	18204.39	160.966	0.20	0.17	-0.10	
25328.00	89.720	161.340	7205.09	18298.39	-17298.01	5967.39	1726996.82	14351440.17	39°31'12.2487"N	80°41'34.7577"W	18298.39	160.967	0.31	-0.11	0.29	
25422.00	89.720	161.190	7205.55	18392.38	-17387.03	5997.58	1727027.00	14351351.19	39°31'11.3679"N	80°41'34.3763"W	18392.38	160.968	0.16	0.00	-0.16	
25516.00	89.780	161.120	7205.96	18486.38	-17475.99	6027.94	1727057.35	14351262.26	39°31'10.4876"N	80°41'33.9927"W	18486.38	160.969	0.10	0.06	-0.07	
25611.00	89.690	161.590	7206.40	18581.38	-17566.00	6058.31	1727087.71	14351172.29	39°31'9.5970"N	80°41'33.6091"W	18581.38	160.971	0.50	-0.09	0.49	
25705.00	89.570	161.310	7207.01	18675.37	-17655.12	6088.22	1727117.60	14351083.21	39°31'8.7152"N	80°41'33.2314"W	18675.37	160.974	0.32	-0.13	-0.30	
25799.00	89.820	161.080	7207.51	18769.37	-17744.10	6118.52	1727147.89	14350994.26	39°31'7.8348"N	80°41'32.8487"W	18769.37	160.975	0.36	0.27	-0.24	
25897.00	89.750	161.120	7207.87	18867.37	-17836.82	6150.26	1727179.62	14350901.58	39°31'6.9174"N	80°41'32.4477"W	18867.37	160.975	0.08	-0.07	0.04	
25987.00	89.720	161.240	7208.29	18957.37	-17922.00	6179.29	1727208.65	14350816.43	39°31'6.0745"N	80°41'32.0809"W	18957.37	160.976	0.14	-0.03	0.13	
26041.00	89.720	161.480	7208.55	19011.37	-17973.17	6196.55	1727225.90	14350765.28	39°31'5.5682"N	80°41'31.8629"W	19011.37	160.978	0.44	0.00	0.44	
26066.00‡	89.720	161.480	7208.68	19036.37	-17996.88	6204.49	1727233.84	14350741.59	39°31'5.3336"N	80°41'31.7626"W	19036.37	160.978	0.00	0.00	0.00	Projected MD at TD: 26066'

HOLE & CASING SECTIONS - Ref Wellbore: Gowland Unit 1H AWB Ref Wellpath: Gowland Unit 1H AWP Proj: 26066'									
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	0.02	-0.10
17.5in Open Hole	130.00	730.00	600.00	130.00	730.00	0.02	-0.10	-1.21	-0.76
13.375in Casing Surface	30.00	721.00	691.00	30.00	721.00	0.00	0.00	-1.20	-0.77
12.25in Open Hole	730.00	3532.00	2802.00	730.00	3531.96	-1.21	-0.76	-9.36	-0.04
9.625in Casing Intermediate	30.00	3502.00	3472.00	30.00	3501.96	0.00	0.00	-9.21	0.00
8.75in Open Hole	3532.00	6870.00	3338.00	3531.96	6831.15	-9.36	-0.04	42.67	-35.96
8.5in Open Hole	6870.00	26066.00	19196.00	6831.15	7208.68	42.67	-35.96	-17996.88	6204.49
5.5in Casing Production	30.00	26046.00	26016.00	30.00	7208.58	0.00	0.00	-17977.91	6198.14



Actual Wellpath Report

Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Gowland Unit 1H POE Rev-2	7105.00	-300.15	83.63	1721115.39	14368431.33	39°34'0.4341"N	80°42'49.1463"W	point
Gowland Unit 1H LP Rev-2	7133.00	-485.26	147.48	1721179.21	14368246.29	39°33'58.6026"N	80°42'48.3386"W	point
Gowland Unit 1H BHL Rev-2	7197.84	-18044.76	6203.69	1727233.03	14350693.72	39°31'4.8604"N	80°41'31.7750"W	point
Gowland Unit 1H 50' L/R Hard Line	7500.00	-9172.45	3143.66	1724174.21	14359562.53	39°32'32.6492"N	80°42'10.4472"W	rectangle
2D Rectangle 18770.4 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Gowland Unit 1H AWB Ref Wellpath: Gowland Unit 1H AWP Proj: 26066'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	648.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-648')	Gowland Unit 1H AWB	12/5/2023
648.00	3460.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (648')(771'-3460')	Gowland Unit 1H AWB	12/5/2023
3460.00	6802.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3460')(3589'-6802')	Gowland Unit 1H AWB	1/6/2024
6802.00	26066.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6802')(6845'-26041')	Gowland Unit 1H AWB	1/6/2024

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 Gowland Unit 1H AWP Proj: 26066'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gowland Unit 1H
Field	Wetzel	API	47-103-03614-0000
Facility	Cedar Pad	Wellbore	Gowland Unit 1H AWB
Slot	Slot C		

COMMENTS

Wellpath general comments

API: 47-103-03614-0000
 BH Job #: 112047844
 Rig: H&P 519
 Duration: 1/10/2024-1/16/2024
 Gyrodata MS Gyro <17-1/2"> (100'-648')
 APS EM <12-1/4"> (648')(771'-3460')
 APS EM <8-3/4"> (3460')(3589'-6802')
 BH AT Curve <8-1/2"> (6802')(6845'-26041')
 Sycamore: 6789' MD
 Middlesex: 6948' MD
 Burkett: 7089' MD
 Tully: 7144' MD
 Marcellus POE: 7356' MD
 Projected MD at TD: 26066'

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