



ANTERO RESOURCES CORPORATION



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

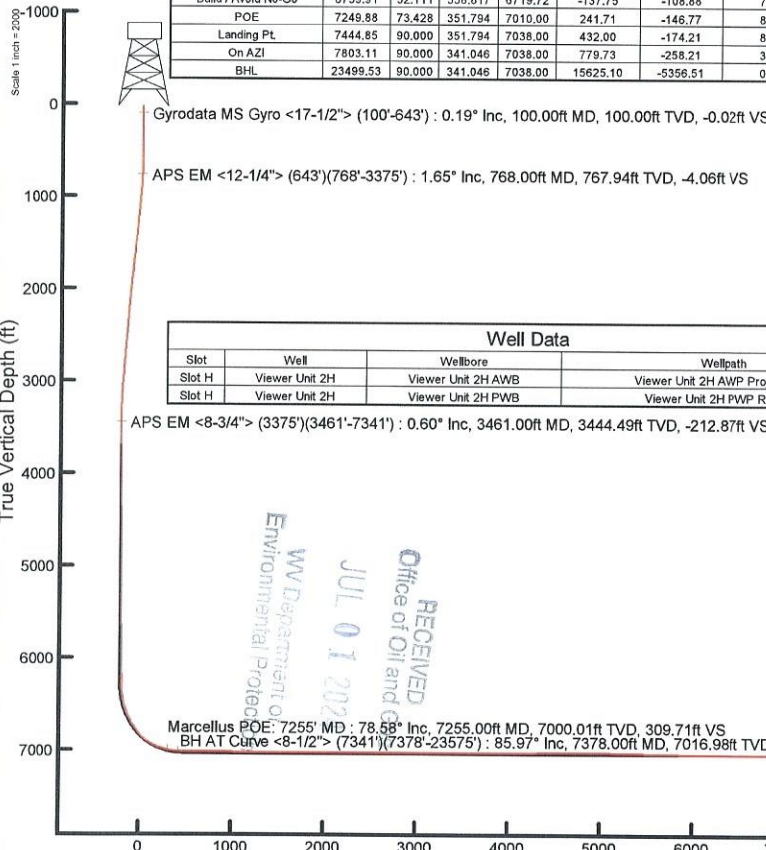
Slot: Slot H
Well: Viewer Unit 2H
Wellbore: Viewer Unit 2H PWB

Easting (ft)

Plot reference wellpath is Viewer Unit 2H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1237.5 feet	Coordinates are in foot referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot H): -1212 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edkayyar on 2023-11-20; Database: WA_MPL_EASTERNUS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Furbee Pad	1718103.700	14364954.390	39°33'26.2100"N	80°43'53.2980"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot H	-246.95	115.96	1718219.610	14364707.540
Comment	Viewer Unit 2H			
H&P 317 (RKB) to Ground level (At Slot: Slot H)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot H)	-1212ft			
H&P 317 (RKB) to Mean Sea Level	1237.5ft			

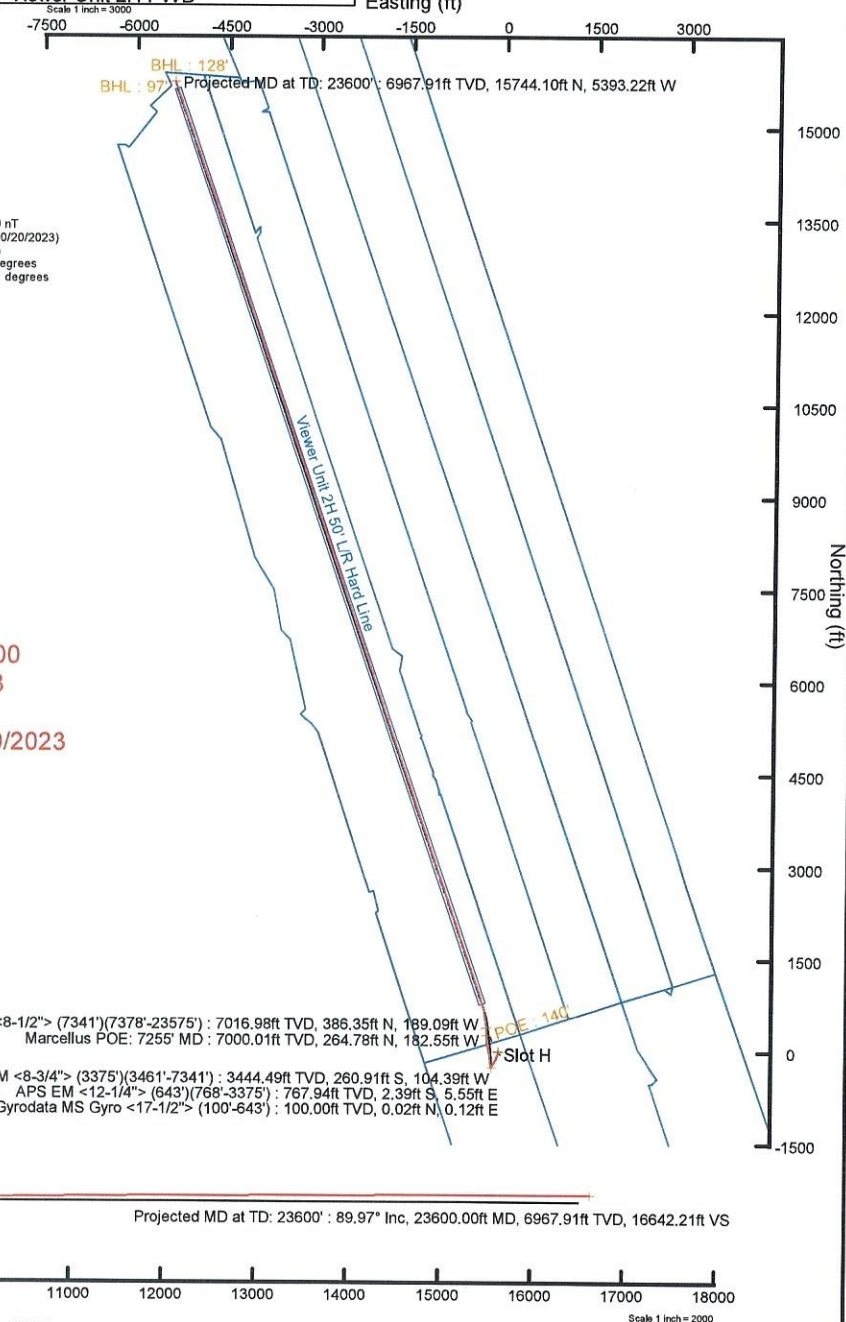
Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3375.00	1.130	231.290	3358.50	-260.84	-103.36	1.81	-212.95
Proj. to Bottom	3448.00	1.130	231.290	3431.48	-261.54	-104.48	0.00	-213.43
Drill Out	3528.00	1.130	231.290	3511.47	-262.53	-105.71	0.00	-213.97
End of Drop	3603.33	0.000	358.817	3586.80	-262.99	-106.29	1.50	-214.22
Curve KOP	6301.00	0.000	358.817	6284.46	-262.99	-106.29	0.00	-214.22
Build / Avoid No-Go	6759.91	32.111	358.817	6719.72	-137.75	-108.88	7.00	-94.93
POE	7249.88	73.428	351.794	7010.00	241.71	-146.77	8.50	276.27
Landing Pt.	7444.85	90.000	351.794	7038.00	432.00	-174.21	8.50	465.16
On AZI	7803.11	90.000	341.046	7038.00	779.73	-258.21	3.00	821.32
BHL	23499.53	90.000	341.046	7038.00	15625.10	-5356.51	0.00	16517.74



User specified (H&P) Dip: 66.33° Field: 51680 nT
Magnetic North is 7.84 degrees West of True North (at 10/20/2023)
Grid North is 0.17 degrees East of True North
To correct azimuth from True to Grid subtract 0.17 degrees
To correct azimuth from Magnetic to Grid subtract 8.01 degrees

API: 47-103-03590-0000
BH Job #: 111949163
Rig: H&P 317
Duration: 10/22/2023-10/29/2023

Well Data			
Slot	Well	Wellbore	Wellpath
Slot H	Viewer Unit 2H	Viewer Unit 2H AWB	Viewer Unit 2H AWP Proj: 23600'
Slot H	Viewer Unit 2H	Viewer Unit 2H PWB	Viewer Unit 2H PWP Rev-B.0



Vertical Section (ft)
Azimuth 341.05° with reference 0.00 N, 0.00 E

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Scale 1 inch = 2000



Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

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	11/20/2023 at 3:14:09 PM
Convergence at slot	0.17° 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	-246.95	115.96	1716219.61	14364707.54	39°33'23.7660"N	80°43'51.8270"W
Facility Reference Pt			1716103.70	14364954.39	39°33'26.2100"N	80°43'53.2980"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1237.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1237.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot H)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.05°

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Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (253 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.00	79.980	0.00	0.00	0.00	0.00	1716219.61	14364707.54	39°33'23.7660"N	80°43'51.8270"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.00	79.980	25.50	0.00	0.00	0.00	1716219.61	14364707.54	39°33'23.7660"N	80°43'51.8270"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.190	79.980	100.00	-0.02	0.02	0.12	1716219.73	14364707.56	39°33'23.7662"N	80°43'51.8255"W	0.12	79.980	0.26	0.26	0.00	Gyrodata MS Gyro <17-1/2"> (100'-643')
200.00	0.200	349.030	200.00	0.13	0.22	0.25	1716219.86	14364707.76	39°33'23.7682"N	80°43'51.8238"W	0.34	48.629	0.28	0.01	-90.95	
300.00	0.090	343.800	300.00	0.38	0.47	0.20	1716219.81	14364708.01	39°33'23.7706"N	80°43'51.8245"W	0.51	22.765	0.11	-0.11	-5.23	
400.00	0.560	98.340	400.00	0.23	0.47	0.66	1716220.27	14364708.01	39°33'23.7706"N	80°43'51.8186"W	0.81	54.298	0.60	0.47	114.54	
500.00	0.760	106.510	499.99	-0.38	0.21	1.78	1716221.39	14364707.75	39°33'23.7680"N	80°43'51.8043"W	1.79	83.147	0.22	0.20	8.17	
600.00	1.000	95.400	599.98	-1.12	-0.06	3.28	1716222.89	14364707.48	39°33'23.7653"N	80°43'51.7851"W	3.28	90.994	0.29	0.24	-11.11	
643.00	1.030	112.010	642.97	-1.53	-0.24	4.01	1716223.62	14364707.30	39°33'23.7635"N	80°43'51.7758"W	4.02	93.381	0.69	0.07	38.63	
768.00	1.650	164.010	767.94	-4.06	-2.39	5.55	1716225.16	14364705.15	39°33'23.7422"N	80°43'51.7562"W	6.04	113.277	1.04	0.50	41.60	APS EM <12-1/4"> (643')(768'-3375')
857.00	3.390	175.600	856.85	-7.89	-6.24	6.11	1716225.71	14364701.30	39°33'23.7041"N	80°43'51.7493"W	8.73	135.638	2.03	1.96	13.02	
946.00	4.780	188.320	945.63	-13.73	-12.54	5.77	1716225.38	14364695.01	39°33'23.6419"N	80°43'51.7538"W	13.80	155.280	1.86	1.56	14.29	
1035.00	6.130	197.210	1034.22	-20.87	-20.75	3.83	1716223.44	14364686.80	39°33'23.5608"N	80°43'51.7789"W	21.10	169.543	1.79	1.52	9.99	
1130.00	6.390	198.700	1128.66	-29.15	-30.60	0.63	1716220.24	14364676.95	39°33'23.4635"N	80°43'51.8201"W	30.61	178.814	0.32	0.27	1.57	
1225.00	7.110	201.350	1223.00	-37.82	-41.08	-3.20	1716216.41	14364666.47	39°33'23.3601"N	80°43'51.8695"W	41.21	184.457	0.83	0.76	2.79	
1320.00	7.160	200.090	1317.26	-46.90	-52.12	-7.38	1716212.24	14364655.44	39°33'23.2511"N	80°43'51.9232"W	52.64	188.056	0.17	0.05	-1.33	
1414.00	6.750	196.630	1410.57	-55.94	-62.91	-10.97	1716208.64	14364644.65	39°33'23.1445"N	80°43'51.9695"W	63.86	189.891	0.62	-0.44	-3.68	
1509.00	7.340	198.310	1504.85	-65.31	-74.02	-14.47	1716205.14	14364633.55	39°33'23.0348"N	80°43'52.0146"W	75.43	191.063	0.66	0.62	1.77	
1603.00	7.340	197.700	1598.08	-74.91	-85.44	-18.19	1716201.43	14364622.13	39°33'22.9220"N	80°43'52.0624"W	87.36	192.015	0.08	0.00	-0.65	
1698.00	7.160	196.650	1692.32	-84.59	-96.90	-21.73	1716197.89	14364610.68	39°33'22.8090"N	80°43'52.1081"W	99.30	192.638	0.24	-0.19	-1.11	
1793.00	7.210	201.290	1786.58	-93.96	-108.13	-25.59	1716194.03	14364599.46	39°33'22.6981"N	80°43'52.1578"W	111.11	193.314	0.61	0.05	4.88	
1887.00	6.910	199.010	1879.87	-102.92	-118.97	-29.57	1716190.05	14364588.62	39°33'22.5911"N	80°43'52.2091"W	122.59	193.959	0.44	-0.32	-2.43	
1981.00	7.340	202.760	1973.14	-111.86	-129.85	-33.74	1716185.89	14364577.74	39°33'22.4836"N	80°43'52.2627"W	134.16	194.564	0.67	0.46	3.99	
2076.00	8.000	210.810	2067.29	-120.66	-141.13	-39.47	1716180.15	14364566.47	39°33'22.3724"N	80°43'52.3363"W	146.54	195.626	1.33	0.69	8.47	
2170.00	8.200	212.720	2160.35	-129.04	-152.38	-46.44	1716173.18	14364555.22	39°33'22.2613"N	80°43'52.4258"W	159.30	196.951	0.36	0.21	2.03	
2265.00	7.820	213.350	2254.43	-137.20	-163.48	-53.66	1716165.97	14364544.12	39°33'22.1518"N	80°43'52.5183"W	172.06	198.171	0.41	-0.40	0.66	
2360.00	7.690	212.900	2348.56	-145.07	-174.22	-60.67	1716158.97	14364533.39	39°33'22.0459"N	80°43'52.6082"W	184.48	199.199	0.15	-0.14	-0.47	
2454.00	7.350	211.900	2441.75	-152.76	-184.60	-67.26	1716152.38	14364523.01	39°33'21.9435"N	80°43'52.6927"W	196.47	200.019	0.39	-0.36	-1.06	
2548.00	7.000	210.200	2535.01	-160.30	-194.66	-73.32	1716146.32	14364512.96	39°33'21.8443"N	80°43'52.7705"W	208.01	200.639	0.44	-0.37	-1.81	
2643.00	6.580	207.610	2629.35	-167.83	-204.48	-78.75	1716140.89	14364503.14	39°33'21.7473"N	80°43'52.8402"W	219.12	201.063	0.55	-0.44	-2.73	



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Viewer Unit 2H AWP Proj: 23600'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Viewer Unit 2H
Field	Wetzel		API	47-103-03590-0000
Facility	Furbee Pad		Wellbore	Viewer Unit 2H AWB
Slot	Slot H			

WELLPATH DATA (253 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
2737.00	6.350	206.880	2722.75	-175.15	-213.89	-83.60	1716136.05	14364493.73	39°33'21.6545"N	80°43'52.9025"W	229.65	201.348	0.26	-0.24	-0.78	
2832.00	5.760	203.830	2817.22	-182.31	-222.94	-87.90	1716131.75	14364484.69	39°33'21.5652"N	80°43'52.9577"W	239.64	201.518	0.71	-0.62	-3.21	
2926.00	5.780	203.770	2910.74	-189.25	-231.59	-91.71	1716127.93	14364476.05	39°33'21.4799"N	80°43'53.0067"W	249.09	201.605	0.02	0.02	-0.06	
3020.00	5.560	200.680	3004.28	-196.24	-240.18	-95.23	1716124.42	14364467.46	39°33'21.3951"N	80°43'53.0520"W	258.37	201.628	0.40	-0.23	-3.29	
3115.00	4.850	198.290	3098.89	-202.98	-248.30	-98.11	1716121.53	14364459.34	39°33'21.3149"N	80°43'53.0891"W	266.98	201.561	0.78	-0.75	-2.52	
3209.00	3.390	199.470	3192.65	-208.32	-254.69	-100.29	1716119.36	14364452.95	39°33'21.2518"N	80°43'53.1171"W	273.72	201.493	1.56	-1.55	1.26	
3304.00	2.260	209.040	3287.53	-211.77	-258.98	-102.13	1716117.52	14364448.67	39°33'21.2095"N	80°43'53.1408"W	278.39	201.523	1.28	-1.19	10.07	
3375.00	1.130	231.290	3358.50	-212.95	-260.64	-103.36	1716116.29	14364447.00	39°33'21.1931"N	80°43'53.1565"W	280.38	201.631	1.81	-1.59	31.34	
3461.00	0.600	305.280	3444.49	-212.87	-260.91	-104.39	1716115.26	14364446.73	39°33'21.1904"N	80°43'53.1697"W	281.02	201.806	1.31	-0.62	86.03	APS EM <8-3/4"> (3375')(3461'-7341')
3556.00	0.580	313.140	3539.48	-212.04	-260.29	-105.15	1716114.51	14364447.35	39°33'21.1966"N	80°43'53.1793"W	280.73	201.996	0.09	-0.02	8.27	
3650.00	0.610	287.990	3633.48	-211.32	-259.81	-105.97	1716113.68	14364447.83	39°33'21.2013"N	80°43'53.1898"W	280.59	202.189	0.28	0.03	-26.76	
3745.00	0.670	314.000	3728.47	-210.52	-259.27	-106.85	1716112.80	14364448.37	39°33'21.2067"N	80°43'53.2010"W	280.43	202.397	0.31	0.06	27.38	
3839.00	0.730	304.020	3822.47	-209.55	-258.55	-107.74	1716111.91	14364449.09	39°33'21.2138"N	80°43'53.2124"W	280.10	202.622	0.14	0.06	-10.62	
3934.00	0.750	308.890	3917.46	-208.54	-257.83	-108.73	1716110.93	14364449.82	39°33'21.2210"N	80°43'53.2250"W	279.81	202.865	0.07	0.02	5.13	
4029.00	0.670	298.610	4012.45	-207.61	-257.17	-109.70	1716109.96	14364450.47	39°33'21.2276"N	80°43'53.2373"W	279.59	203.101	0.16	-0.08	-10.82	
4123.00	0.900	302.090	4106.44	-206.63	-256.51	-110.81	1716108.85	14364451.13	39°33'21.2341"N	80°43'53.2515"W	279.42	203.363	0.25	0.24	3.70	
4218.00	0.800	303.700	4201.43	-205.52	-255.75	-111.99	1716107.66	14364451.89	39°33'21.2417"N	80°43'53.2665"W	279.19	203.648	0.11	-0.11	1.69	
4313.00	0.640	307.550	4296.43	-204.55	-255.06	-112.96	1716106.69	14364452.58	39°33'21.2485"N	80°43'53.2789"W	278.95	203.888	0.18	-0.17	4.05	
4407.00	0.420	286.140	4390.42	-203.91	-254.64	-113.71	1716105.95	14364453.00	39°33'21.2527"N	80°43'53.2884"W	278.88	204.063	0.31	-0.23	-22.78	
4502.00	0.340	315.650	4485.42	-203.46	-254.34	-114.24	1716105.41	14364453.30	39°33'21.2556"N	80°43'53.2952"W	278.82	204.188	0.22	-0.08	31.06	
4597.00	0.750	72.690	4580.42	-203.22	-253.96	-113.84	1716105.81	14364453.68	39°33'21.2594"N	80°43'53.2901"W	278.31	204.146	1.00	0.43	123.20	
4691.00	0.830	53.310	4674.41	-203.03	-253.37	-112.71	1716106.94	14364454.27	39°33'21.2652"N	80°43'53.2757"W	277.31	203.982	0.30	0.09	-20.62	
4786.00	0.550	62.240	4769.40	-202.75	-252.74	-111.76	1716107.90	14364454.90	39°33'21.2714"N	80°43'53.2634"W	276.35	203.854	0.31	-0.29	9.40	
4881.00	0.330	54.810	4864.40	-202.61	-252.37	-111.13	1716108.53	14364455.27	39°33'21.2750"N	80°43'53.2554"W	275.76	203.766	0.24	-0.23	-7.82	
4975.00	0.350	20.110	4958.40	-202.31	-251.95	-110.81	1716108.84	14364455.69	39°33'21.2792"N	80°43'53.2513"W	275.24	203.740	0.22	0.02	-36.91	
5070.00	0.500	33.920	5053.39	-201.83	-251.33	-110.48	1716109.18	14364456.31	39°33'21.2853"N	80°43'53.2471"W	274.54	203.729	0.19	0.16	14.54	
5164.00	0.390	16.540	5147.39	-201.33	-250.68	-110.16	1716109.50	14364456.95	39°33'21.2917"N	80°43'53.2430"W	273.82	203.722	0.18	-0.12	-18.49	
5259.00	0.240	347.270	5242.39	-200.86	-250.18	-110.11	1716109.54	14364457.46	39°33'21.2966"N	80°43'53.2423"W	273.34	203.755	0.23	-0.16	-30.81	
5354.00	0.470	331.890	5337.39	-200.28	-249.64	-110.34	1716109.32	14364458.00	39°33'21.3020"N	80°43'53.2452"W	272.94	203.844	0.26	0.24	-16.19	
5448.00	0.700	325.520	5431.38	-199.35	-248.83	-110.84	1716108.81	14364458.81	39°33'21.3100"N	80°43'53.2516"W	272.40	204.011	0.25	0.24	-6.78	

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Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

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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
5543.00	0.610	301.400	5526.38	-198.40	-248.09	-111.60	1716108.05	14364459.55	39°33'21.3174"N	80°43'53.2613"W	272.03	204.221	0.30	-0.09	-25.39	
5638.00	0.680	304.070	5621.37	-197.56	-247.51	-112.50	1716107.15	14364460.13	39°33'21.3231"N	80°43'53.2728"W	271.88	204.444	0.08	0.07	2.81	
5732.00	0.920	301.140	5715.36	-196.54	-246.81	-113.61	1716106.04	14364460.83	39°33'21.3301"N	80°43'53.2869"W	271.70	204.718	0.26	0.26	-3.12	
5827.00	0.860	291.370	5810.35	-195.49	-246.15	-114.93	1716104.73	14364461.49	39°33'21.3366"N	80°43'53.3037"W	271.66	205.028	0.17	-0.06	-10.28	
5922.00	0.640	295.340	5905.34	-194.66	-245.66	-116.07	1716103.59	14364461.97	39°33'21.3414"N	80°43'53.3183"W	271.70	205.290	0.24	-0.23	4.18	
6016.00	0.870	280.000	5999.33	-193.95	-245.32	-117.25	1716102.41	14364462.32	39°33'21.3449"N	80°43'53.3333"W	271.90	205.545	0.32	0.24	-16.32	
6111.00	1.450	9.170	6094.32	-192.54	-244.00	-117.77	1716101.89	14364463.63	39°33'21.3579"N	80°43'53.3398"W	270.94	205.764	1.77	0.61	93.86	
6206.00	1.110	351.010	6189.30	-190.57	-241.91	-117.72	1716101.94	14364465.73	39°33'21.3786"N	80°43'53.3392"W	269.03	205.949	0.55	-0.36	-19.12	
6300.00	0.990	328.830	6283.28	-188.88	-240.31	-118.28	1716101.38	14364467.32	39°33'21.3944"N	80°43'53.3463"W	267.85	206.206	0.45	-0.13	-23.60	
6395.00	6.080	358.520	6378.07	-183.27	-234.58	-118.84	1716100.82	14364473.05	39°33'21.4511"N	80°43'53.3531"W	262.96	206.867	5.52	5.36	31.25	
6489.00	12.120	355.450	6470.85	-168.95	-219.75	-119.75	1716099.91	14364487.88	39°33'21.5977"N	80°43'53.3642"W	250.26	208.587	6.44	6.43	-3.27	
6584.00	19.040	351.850	6562.30	-144.04	-194.44	-122.74	1716096.92	14364513.18	39°33'21.8479"N	80°43'53.4015"W	229.94	212.262	7.35	7.28	-3.79	
6679.00	26.090	352.640	6649.98	-108.31	-158.34	-127.62	1716092.04	14364549.27	39°33'22.2049"N	80°43'53.4624"W	203.36	218.869	7.43	7.42	0.83	
6698.00†	27.218	353.014	6666.96	-99.97	-149.88	-128.68	1716090.98	14364557.72	39°33'22.2885"N	80°43'53.4756"W	197.54	220.649	6.00	5.94	1.97	Sycamore: 6698' MD
6773.00	31.680	354.250	6732.25	-64.00	-113.24	-132.74	1716086.92	14364594.34	39°33'22.6507"N	80°43'53.5261"W	174.48	229.533	6.00	5.95	1.65	
6844.00†	36.732	354.141	6790.95	-25.14	-73.55	-136.78	1716082.88	14364634.02	39°33'23.0432"N	80°43'53.5761"W	155.30	241.734	7.12	7.12	-0.15	Middlesex: 6844' MD
6868.00	38.440	354.110	6809.97	-10.88	-58.98	-138.28	1716081.38	14364648.58	39°33'23.1871"N	80°43'53.5947"W	150.34	246.899	7.12	7.12	-0.13	
6963.00	49.320	349.970	6878.35	53.68	6.07	-147.61	1716072.05	14364713.61	39°33'23.8303"N	80°43'53.7114"W	147.74	272.355	11.84	11.45	-4.36	
6978.00†	50.848	349.632	6887.98	65.05	17.39	-149.65	1716070.02	14364724.93	39°33'23.9423"N	80°43'53.7370"W	150.66	276.630	10.33	10.19	-2.25	Burkett: 6978' MD
7033.00†	56.459	348.506	6920.56	108.90	60.87	-158.06	1716061.61	14364768.38	39°33'24.3722"N	80°43'53.8427"W	169.38	291.061	10.33	10.20	-2.05	Tully: 7033' MD
7057.00	58.910	348.060	6933.39	129.02	80.73	-162.18	1716057.49	14364788.23	39°33'24.5686"N	80°43'53.8946"W	181.16	296.462	10.33	10.21	-1.86	
7152.00	71.270	353.860	6973.36	213.64	165.64	-175.47	1716044.21	14364873.11	39°33'25.4082"N	80°43'54.0610"W	241.30	313.349	14.13	13.01	6.11	
7246.00	78.080	357.590	6998.19	301.26	255.98	-182.18	1716037.51	14364963.41	39°33'26.3012"N	80°43'54.1431"W	314.19	324.561	8.19	7.24	3.97	
7255.00†	78.577	357.508	7000.01	309.71	264.78	-182.55	1716037.13	14364972.22	39°33'26.3883"N	80°43'54.1476"W	321.61	325.416	5.60	5.53	-0.91	Marcellus POE: 7255' MD
7341.00	83.330	356.740	7013.53	391.30	349.58	-186.82	1716032.87	14365056.98	39°33'27.2265"N	80°43'54.1988"W	396.37	331.880	5.60	5.53	-0.89	
7378.00	85.970	356.200	7016.98	426.81	386.35	-189.09	1716030.60	14365093.73	39°33'27.5899"N	80°43'54.2264"W	430.14	333.922	7.28	7.14	-1.46	BH AT Curve <8-1/2"> (7341')(7378'-23575')
7406.00	88.490	355.570	7018.33	453.84	414.24	-191.09	1716028.59	14365121.61	39°33'27.8656"N	80°43'54.2509"W	456.19	335.236	9.28	9.00	-2.25	
7501.00	88.860	351.820	7020.53	546.50	508.62	-201.52	1716018.17	14365215.96	39°33'28.7987"N	80°43'54.3805"W	547.09	338.386	3.97	0.39	-3.95	
7595.00	89.480	349.090	7021.89	639.22	601.30	-217.11	1716002.59	14365308.60	39°33'29.7152"N	80°43'54.5759"W	639.29	340.147	2.98	0.66	-2.90	
7690.00	89.570	346.520	7022.68	733.54	694.15	-237.17	1715982.53	14365401.41	39°33'30.6334"N	80°43'54.8286"W	733.55	341.136	2.71	0.09	-2.71	



Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Viewer Unit 2H
Field	Wetzel		API	47-103-03590-0000
Facility	Furbee Pad		Wellbore	Viewer Unit 2H AWB
Slot	Slot H			

WELLPATH DATA (253 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
7785.00	89.630	344.320	7023.34	828.26	786.08	-261.08	1715958.63	14365493.31	39°33'31.5427"N	80°43'55.1304"W	828.30	341.627	2.32	0.06	-2.32	
7879.00	89.660	342.930	7023.93	922.16	876.26	-287.58	1715932.14	14365583.46	39°33'32.4348"N	80°43'55.4653"W	922.25	341.831	1.48	0.03	-1.48	
7974.00	89.570	341.670	7024.57	1017.13	966.76	-316.46	1715903.27	14365673.92	39°33'33.3300"N	80°43'55.8306"W	1017.24	341.874	1.33	-0.09	-1.33	
8068.00	89.660	340.720	7025.20	1111.13	1055.74	-346.76	1715872.98	14365762.86	39°33'34.2103"N	80°43'56.2141"W	1111.23	341.817	1.02	0.10	-1.01	
8163.00	89.540	340.390	7025.86	1206.13	1145.32	-378.39	1715841.37	14365852.41	39°33'35.0966"N	80°43'56.6144"W	1206.21	341.718	0.37	-0.13	-0.35	
8258.00	89.260	340.790	7026.86	1301.12	1234.92	-409.96	1715809.81	14365941.97	39°33'35.9830"N	80°43'57.0141"W	1301.18	341.635	0.51	-0.29	0.42	
8352.00	89.570	341.650	7027.81	1395.11	1323.91	-440.22	1715779.57	14366030.92	39°33'36.8634"N	80°43'57.3971"W	1395.18	341.607	0.97	0.33	0.91	
8447.00	89.350	341.130	7028.71	1490.10	1413.93	-470.53	1715749.26	14366120.91	39°33'37.7541"N	80°43'57.7807"W	1490.17	341.593	0.59	-0.23	-0.55	
8542.00	89.140	341.060	7029.96	1585.10	1503.80	-501.31	1715718.50	14366210.75	39°33'38.6431"N	80°43'58.1703"W	1585.16	341.564	0.23	-0.22	-0.07	
8636.00	89.570	339.080	7031.02	1679.07	1592.16	-533.35	1715686.47	14366299.07	39°33'39.5174"N	80°43'58.5760"W	1679.12	341.480	2.16	0.46	-2.11	
8731.00	90.580	341.650	7030.90	1774.06	1681.63	-565.27	1715654.56	14366388.50	39°33'40.4025"N	80°43'58.9801"W	1774.09	341.420	2.91	1.06	2.71	
8826.00	90.090	341.070	7030.34	1869.05	1771.64	-595.63	1715624.21	14366478.48	39°33'41.2930"N	80°43'59.3644"W	1869.09	341.417	0.80	-0.52	-0.61	
8920.00	90.580	340.830	7029.79	1963.05	1860.49	-626.31	1715593.55	14366567.30	39°33'42.1721"N	80°43'59.7527"W	1963.08	341.395	0.58	0.52	-0.26	
9015.00	89.850	340.960	7029.43	2058.05	1950.26	-657.41	1715562.46	14366657.03	39°33'43.0602"N	80°44'0.1463"W	2058.08	341.372	0.78	-0.77	0.14	
9110.00	90.430	340.840	7029.20	2153.05	2040.03	-688.49	1715531.39	14366746.76	39°33'43.9483"N	80°44'0.5399"W	2153.08	341.351	0.62	0.61	-0.13	
9204.00	90.280	341.650	7028.62	2247.04	2129.04	-718.71	1715501.18	14366835.73	39°33'44.8288"N	80°44'0.9224"W	2247.07	341.347	0.88	-0.16	0.86	
9394.00	90.370	341.020	7027.54	2337.04	2309.04	-779.52	1715440.40	14367015.67	39°33'46.6096"N	80°44'1.6919"W	2437.07	341.346	0.33	0.05	-0.33	
9488.00	89.880	341.270	7027.34	2531.04	2397.99	-809.90	1715410.03	14367104.59	39°33'47.4897"N	80°44'2.0765"W	2531.07	341.338	0.59	-0.52	0.27	
9583.00	89.850	340.660	7027.56	2626.04	2487.80	-840.88	1715379.06	14367194.35	39°33'48.3781"N	80°44'2.4687"W	2626.07	341.325	0.64	-0.03	-0.64	
9678.00	90.180	341.600	7027.54	2721.03	2577.69	-871.61	1715348.35	14367284.21	39°33'49.2675"N	80°44'2.8576"W	2721.06	341.318	1.05	0.35	0.99	
9772.00	89.970	340.920	7027.41	2815.03	2666.71	-901.80	1715318.16	14367373.19	39°33'50.1481"N	80°44'3.2398"W	2815.06	341.316	0.76	-0.22	-0.72	
9866.00	90.000	340.880	7027.44	2909.03	2755.53	-932.56	1715287.42	14367461.98	39°33'51.0269"N	80°44'3.6292"W	2909.06	341.302	0.05	0.03	-0.04	
9961.00	90.220	341.320	7027.26	3004.03	2845.41	-963.34	1715256.66	14367551.83	39°33'51.9161"N	80°44'4.0187"W	3004.06	341.296	0.52	0.23	0.46	
10055.00	90.060	341.550	7027.03	3098.03	2934.52	-993.26	1715226.74	14367640.90	39°33'52.7976"N	80°44'4.3975"W	3098.06	341.300	0.30	-0.17	0.24	
10150.00	89.850	341.300	7027.10	3193.03	3024.57	-1023.52	1715196.49	14367730.91	39°33'53.6885"N	80°44'4.7805"W	3193.06	341.304	0.34	-0.22	-0.26	
10244.00	90.090	341.300	7027.15	3287.03	3113.61	-1053.66	1715166.36	14367819.92	39°33'54.5693"N	80°44'5.1620"W	3287.06	341.304	0.26	0.26	0.00	
10338.00	89.880	341.070	7027.17	3381.03	3202.58	-1083.98	1715136.06	14367908.86	39°33'55.4496"N	80°44'5.5457"W	3381.06	341.301	0.33	-0.22	-0.24	
10432.00	89.720	341.120	7027.50	3475.03	3291.51	-1114.43	1715105.62	14367997.75	39°33'56.3294"N	80°44'5.9313"W	3475.06	341.295	0.18	-0.17	0.05	
10527.00	89.600	341.590	7028.07	3570.02	3381.53	-1144.81	1715075.26	14368087.73	39°33'57.2199"N	80°44'6.3157"W	3570.06	341.297	0.51	-0.13	0.49	
10621.00	89.570	341.170	7028.75	3664.02	3470.60	-1174.82	1715045.26	14368176.77	39°33'58.1011"N	80°44'6.6955"W	3664.05	341.299	0.45	-0.03	-0.45	



Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (253 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
10716.00	89.600	341.230	7029.43	3759.02	3560.53	-1205.43	1715014.65	14368266.66	39°33'58.9908"N	80°44'7.0831"W	3759.05	341.296	0.07	0.03	0.06	
10810.00	89.450	341.190	7030.21	3853.01	3649.52	-1235.71	1714984.39	14368355.62	39°33'59.8712"N	80°44'7.4663"W	3853.05	341.294	0.17	-0.16	-0.04	
10905.00	90.340	341.660	7030.39	3948.01	3739.57	-1265.97	1714954.14	14368445.63	39°34'0.7620"N	80°44'7.8493"W	3948.04	341.297	1.06	0.94	0.49	
11000.00	90.150	340.580	7029.98	4043.01	3829.46	-1296.71	1714923.41	14368535.48	39°34'1.6513"N	80°44'8.2385"W	4043.04	341.293	1.15	-0.20	-1.14	
11094.00	90.370	341.020	7029.56	4137.00	3918.23	-1327.62	1714892.51	14368624.22	39°34'2.5295"N	80°44'8.6299"W	4137.04	341.282	0.52	0.23	0.47	
11189.00	92.160	341.590	7027.46	4231.98	4008.19	-1358.06	1714862.08	14368714.14	39°34'3.4195"N	80°44'9.0152"W	4232.01	341.282	1.98	1.88	0.60	
11284.00	91.750	341.360	7024.22	4326.92	4098.21	-1388.23	1714831.93	14368804.13	39°34'4.3101"N	80°44'9.3970"W	4326.95	341.287	0.49	-0.43	-0.24	
11378.00	90.430	341.290	7022.43	4420.90	4187.25	-1418.32	1714801.85	14368893.13	39°34'5.1909"N	80°44'9.7780"W	4420.93	341.287	1.41	-1.40	-0.07	
11473.00	90.090	341.150	7022.00	4515.90	4277.19	-1448.91	1714771.28	14368983.04	39°34'6.0807"N	80°44'10.1651"W	4515.93	341.286	0.39	-0.36	-0.15	
11568.00	90.430	340.840	7021.57	4610.89	4367.01	-1479.84	1714740.35	14369072.82	39°34'6.9693"N	80°44'10.5568"W	4610.93	341.280	0.48	0.36	-0.33	
11663.00	90.000	341.260	7021.21	4705.89	4456.86	-1510.69	1714709.51	14369162.63	39°34'7.8582"N	80°44'10.9474"W	4705.93	341.275	0.63	-0.45	0.44	
11757.00	89.630	340.950	7021.51	4799.89	4545.79	-1541.13	1714679.09	14369251.53	39°34'8.7381"N	80°44'11.3327"W	4799.93	341.272	0.51	-0.39	-0.33	
11852.00	89.290	340.440	7022.41	4894.89	4635.45	-1572.54	1714647.69	14369341.15	39°34'9.6250"N	80°44'11.7304"W	4894.92	341.261	0.65	-0.36	-0.54	
11947.00	89.600	341.070	7023.33	4989.88	4725.13	-1603.85	1714616.39	14369430.80	39°34'10.5123"N	80°44'12.1269"W	4989.91	341.251	0.74	0.33	0.66	
12041.00	89.480	341.670	7024.08	5083.87	4814.20	-1633.88	1714586.38	14369519.84	39°34'11.3935"N	80°44'12.5070"W	5083.91	341.253	0.65	-0.13	0.64	
12136.00	88.800	341.180	7025.51	5178.86	4904.24	-1664.14	1714556.13	14369609.84	39°34'12.2843"N	80°44'12.8900"W	5178.89	341.257	0.88	-0.72	-0.52	
12230.00	88.710	341.100	7027.55	5272.84	4993.18	-1694.51	1714525.77	14369698.74	39°34'13.1641"N	80°44'13.2746"W	5272.87	341.255	0.13	-0.10	-0.09	
12324.00	89.080	341.300	7029.37	5366.82	5082.14	-1724.80	1714495.49	14369787.67	39°34'14.0443"N	80°44'13.6580"W	5366.85	341.254	0.45	0.39	0.21	
12419.00	88.890	340.530	7031.05	5461.80	5171.91	-1755.86	1714464.45	14369877.40	39°34'14.9323"N	80°44'14.0513"W	5461.84	341.248	0.83	-0.20	-0.81	
12513.00	89.200	341.500	7032.61	5555.79	5260.78	-1786.43	1714433.88	14369966.24	39°34'15.8115"N	80°44'14.4384"W	5555.82	341.244	1.08	0.33	1.03	
12608.00	88.860	341.160	7034.22	5650.78	5350.77	-1816.84	1714403.49	14370056.19	39°34'16.7018"N	80°44'14.8233"W	5650.81	341.245	0.51	-0.36	-0.36	
12702.00	89.200	341.220	7035.81	5744.76	5439.74	-1847.15	1714373.20	14370145.12	39°34'17.5819"N	80°44'15.2070"W	5744.79	341.244	0.37	0.36	0.06	
12796.00	88.860	340.910	7037.41	5838.75	5528.64	-1877.64	1714342.71	14370233.99	39°34'18.4614"N	80°44'15.5931"W	5838.78	341.241	0.49	-0.36	-0.33	
12891.00	89.970	341.670	7038.38	5933.74	5618.61	-1908.11	1714312.25	14370323.93	39°34'19.3515"N	80°44'15.9789"W	5933.77	341.242	1.42	1.17	0.80	
12985.00	90.000	341.830	7038.40	6027.73	5707.88	-1937.55	1714282.82	14370413.16	39°34'20.2347"N	80°44'16.3515"W	6027.77	341.250	0.17	0.03	0.17	
13080.00	90.120	341.130	7038.30	6122.73	5797.96	-1967.73	1714252.66	14370503.21	39°34'21.1258"N	80°44'16.7335"W	6122.77	341.254	0.75	0.13	-0.74	
13268.00	89.780	340.630	7038.46	6310.73	5975.59	-2029.31	1714191.11	14370680.76	39°34'22.8831"N	80°44'17.5132"W	6310.76	341.243	0.32	-0.18	-0.27	
13363.00	89.600	342.860	7038.98	6405.71	6065.80	-2059.06	1714161.36	14370770.94	39°34'23.7756"N	80°44'17.8899"W	6405.75	341.250	2.35	-0.19	2.35	
13457.00	90.000	340.760	7039.31	6499.70	6155.10	-2088.40	1714132.03	14370860.20	39°34'24.6589"N	80°44'18.2613"W	6499.74	341.258	2.27	0.43	-2.23	
13551.00	90.060	341.700	7039.26	6593.70	6244.10	-2118.65	1714101.80	14370949.17	39°34'25.5394"N	80°44'18.6442"W	6593.74	341.258	1.00	0.06	1.00	

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Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (253 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
13740.00	90.310	341.270	7038.65	6782.69	6423.31	-2178.67	1714041.80	14371128.31	39°34'27.3124"N	80°44'19.4040"W	6782.74	341.264	0.26	0.13	-0.23	
13835.00	90.460	341.810	7038.01	6877.68	6513.42	-2208.75	1714011.74	14371218.39	39°34'28.2038"N	80°44'19.7848"W	6877.73	341.268	0.59	0.16	0.57	
13929.00	90.120	341.610	7037.53	6971.68	6602.67	-2238.25	1713982.25	14371307.60	39°34'29.0867"N	80°44'20.1582"W	6971.73	341.274	0.42	-0.36	-0.21	
14023.00	90.710	340.560	7036.85	7065.67	6691.59	-2268.72	1713951.79	14371396.49	39°34'29.9664"N	80°44'20.5440"W	7065.73	341.271	1.28	0.63	-1.12	
14118.00	90.680	341.450	7035.70	7160.66	6781.41	-2299.64	1713920.88	14371486.27	39°34'30.8550"N	80°44'20.9355"W	7160.72	341.268	0.94	-0.03	0.94	
14212.00	90.710	341.150	7034.56	7254.66	6870.44	-2329.77	1713890.76	14371575.27	39°34'31.7358"N	80°44'21.3171"W	7254.71	341.268	0.32	0.03	-0.32	
14307.00	90.800	341.140	7033.31	7349.65	6960.34	-2360.47	1713860.07	14371665.12	39°34'32.6251"N	80°44'21.7058"W	7349.70	341.267	0.10	0.09	-0.01	
14401.00	90.490	340.660	7032.25	7443.64	7049.16	-2391.23	1713829.33	14371753.91	39°34'33.5038"N	80°44'22.0953"W	7443.69	341.262	0.61	-0.33	-0.51	
14496.00	90.860	341.040	7031.13	7538.63	7138.89	-2422.39	1713798.18	14371843.61	39°34'34.3916"N	80°44'22.4899"W	7538.68	341.257	0.56	0.39	0.40	
14590.00	90.520	341.110	7030.00	7632.63	7227.80	-2452.87	1713767.71	14371932.49	39°34'35.2712"N	80°44'22.8759"W	7632.68	341.255	0.37	-0.36	0.07	
14685.00	90.310	340.710	7029.31	7727.62	7317.58	-2483.94	1713736.65	14372022.22	39°34'36.1593"N	80°44'23.2694"W	7727.67	341.250	0.48	-0.22	-0.42	
14780.00	91.110	341.500	7028.13	7822.62	7407.45	-2514.70	1713705.90	14372112.06	39°34'37.0484"N	80°44'23.6589"W	7822.66	341.249	1.18	0.84	0.83	
14874.00	90.650	341.290	7026.69	7916.60	7496.53	-2544.69	1713675.93	14372201.10	39°34'37.9296"N	80°44'24.0386"W	7916.65	341.250	0.54	-0.49	-0.22	
14969.00	90.890	341.370	7025.41	8011.59	7586.52	-2575.10	1713645.53	14372291.06	39°34'38.8199"N	80°44'24.4236"W	8011.64	341.251	0.27	0.25	0.08	
15063.00	90.430	341.220	7024.33	8105.58	7675.55	-2605.24	1713615.40	14372380.05	39°34'39.7007"N	80°44'24.8053"W	8105.63	341.252	0.51	-0.49	-0.16	
15158.00	90.430	341.200	7023.62	8200.58	7765.48	-2635.84	1713584.81	14372469.95	39°34'40.5904"N	80°44'25.1927"W	8200.63	341.251	0.02	0.00	-0.02	
15252.00	90.550	341.260	7022.81	8294.58	7854.48	-2666.09	1713554.58	14372558.91	39°34'41.4708"N	80°44'25.5757"W	8294.63	341.251	0.14	0.13	0.06	
15346.00	90.740	341.320	7021.76	8388.57	7943.51	-2696.24	1713524.44	14372647.91	39°34'42.3515"N	80°44'25.9575"W	8388.62	341.251	0.21	0.20	0.06	
15441.00	90.650	341.360	7020.60	8483.56	8033.51	-2726.63	1713494.06	14372737.87	39°34'43.2419"N	80°44'26.3423"W	8483.62	341.252	0.10	-0.09	0.04	
15535.00	90.650	341.420	7019.54	8577.56	8122.59	-2756.63	1713464.07	14372826.91	39°34'44.1231"N	80°44'26.7221"W	8577.61	341.254	0.06	0.00	0.06	
15629.00	90.400	340.920	7018.68	8671.55	8211.55	-2786.96	1713433.75	14372915.84	39°34'45.0033"N	80°44'27.1063"W	8671.60	341.253	0.59	-0.27	-0.53	
15724.00	90.740	341.070	7017.73	8766.55	8301.37	-2817.90	1713402.83	14373005.63	39°34'45.8918"N	80°44'27.4981"W	8766.60	341.250	0.39	0.36	0.16	
15819.00	90.800	341.350	7016.45	8861.54	8391.30	-2848.50	1713372.24	14373095.52	39°34'46.7815"N	80°44'27.8855"W	8861.59	341.250	0.30	0.06	0.29	
15913.00	90.460	340.780	7015.42	8955.53	8480.20	-2879.00	1713341.75	14373184.39	39°34'47.6610"N	80°44'28.2718"W	8955.58	341.248	0.71	-0.36	-0.61	
16007.00	90.770	341.150	7014.41	9049.52	8569.06	-2909.65	1713311.11	14373273.21	39°34'48.5401"N	80°44'28.6600"W	9049.58	341.245	0.51	0.33	0.39	
16102.00	90.520	340.870	7013.34	9144.52	8658.88	-2940.56	1713280.21	14373363.00	39°34'49.4287"N	80°44'29.0515"W	9144.57	341.242	0.40	-0.26	-0.29	
16196.00	90.710	341.010	7012.33	9238.51	8747.72	-2971.26	1713249.53	14373451.81	39°34'50.3076"N	80°44'29.4403"W	9238.56	341.239	0.25	0.20	0.15	
16385.00	90.920	341.500	7009.64	9427.49	8926.68	-3031.99	1713188.82	14373630.69	39°34'52.0780"N	80°44'30.2093"W	9427.54	341.240	0.28	0.11	0.26	
16480.00	90.800	341.070	7008.22	9522.48	9016.65	-3062.47	1713158.35	14373720.62	39°34'52.9680"N	80°44'30.5953"W	9522.53	341.240	0.47	-0.13	-0.45	
16574.00	90.680	341.160	7007.00	9616.47	9105.58	-3092.89	1713127.94	14373809.52	39°34'53.8478"N	80°44'30.9806"W	9616.52	341.239	0.16	-0.13	0.10	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (253 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
16669.00	90.740	340.560	7005.83	9711.46	9195.32	-3124.03	1713096.81	14373899.22	39°34'54.7356"N	80°44'31.3751"W	9711.51	341.235	0.63	0.06	-0.63	
16764.00	90.620	341.000	7004.70	9806.46	9285.02	-3155.31	1713065.55	14373988.89	39°34'55.6230"N	80°44'31.7712"W	9806.50	341.231	0.48	-0.13	0.46	
16858.00	90.580	341.170	7003.72	9900.45	9373.94	-3185.78	1713035.09	14374077.77	39°34'56.5027"N	80°44'32.1571"W	9900.50	341.229	0.19	-0.04	0.18	
16952.00	90.770	341.080	7002.61	9994.44	9462.88	-3216.18	1713004.70	14374166.68	39°34'57.3825"N	80°44'32.5422"W	9994.49	341.228	0.22	0.20	-0.10	
17047.00	90.740	341.280	7001.36	10089.44	9552.79	-3246.83	1712974.07	14374256.55	39°34'58.2720"N	80°44'32.9303"W	10089.48	341.228	0.21	-0.03	0.21	
17142.00	90.740	340.890	7000.13	10184.43	9642.65	-3277.62	1712943.29	14374346.38	39°34'59.1610"N	80°44'33.3203"W	10184.48	341.227	0.41	0.00	-0.41	
17237.00	90.650	341.150	6998.98	10279.42	9732.48	-3308.52	1712912.40	14374436.17	39°35'0.0497"N	80°44'33.7116"W	10279.47	341.225	0.29	-0.09	0.27	
17331.00	90.550	340.830	6997.99	10373.41	9821.35	-3339.13	1712881.80	14374525.01	39°35'0.9289"N	80°44'34.0994"W	10373.46	341.223	0.36	-0.11	-0.34	
17426.00	90.650	340.950	6997.00	10468.41	9911.11	-3370.23	1712850.71	14374614.73	39°35'1.8169"N	80°44'34.4933"W	10468.46	341.220	0.16	0.11	0.13	
17520.00	90.890	340.830	6995.73	10562.40	9999.92	-3401.00	1712819.95	14374703.51	39°35'2.6955"N	80°44'34.8831"W	10562.44	341.217	0.29	0.26	-0.13	
17615.00	90.620	341.060	6994.48	10657.39	10089.71	-3432.02	1712788.95	14374793.26	39°35'3.5837"N	80°44'35.2759"W	10657.44	341.214	0.37	-0.28	0.24	
17710.00	90.620	340.800	6993.45	10752.39	10179.49	-3463.05	1712757.93	14374883.00	39°35'4.4719"N	80°44'35.6690"W	10752.43	341.212	0.27	0.00	-0.27	
17804.00	90.650	341.060	6992.41	10846.38	10268.32	-3493.76	1712727.23	14374971.80	39°35'5.3508"N	80°44'36.0580"W	10846.42	341.209	0.28	0.03	0.28	
17899.00	90.680	341.250	6991.31	10941.37	10358.23	-3524.45	1712696.56	14375061.67	39°35'6.2401"N	80°44'36.4466"W	10941.42	341.209	0.20	0.03	0.20	
17993.00	90.680	341.030	6990.19	11035.37	10447.17	-3554.83	1712666.19	14375150.58	39°35'7.1201"N	80°44'36.8315"W	11035.41	341.208	0.23	0.00	-0.23	
18088.00	90.800	341.150	6988.97	11130.36	10537.04	-3585.62	1712635.41	14375240.41	39°35'8.0091"N	80°44'37.2214"W	11130.40	341.207	0.18	0.13	0.13	
18183.00	90.490	341.040	6987.90	11225.35	10626.91	-3616.39	1712604.65	14375330.25	39°35'8.8982"N	80°44'37.6112"W	11225.39	341.206	0.35	-0.33	-0.12	
18278.00	90.490	340.720	6987.09	11320.35	10716.66	-3647.51	1712573.54	14375419.97	39°35'9.7861"N	80°44'38.0054"W	11320.39	341.204	0.34	0.00	-0.34	
18372.00	90.550	340.740	6986.23	11414.34	10805.39	-3678.53	1712542.53	14375508.66	39°35'10.6639"N	80°44'38.3984"W	11414.38	341.200	0.07	0.06	0.02	
18467.00	90.460	340.920	6985.40	11509.34	10895.12	-3709.72	1712511.35	14375598.35	39°35'11.5516"N	80°44'38.7935"W	11509.38	341.197	0.21	-0.09	0.19	
18656.00	90.370	339.830	6984.03	11698.32	11073.14	-3773.20	1712447.90	14375776.30	39°35'13.3127"N	80°44'39.5978"W	11698.35	341.183	0.58	-0.05	-0.58	
18750.00	90.180	341.190	6983.58	11792.31	11161.75	-3804.56	1712416.55	14375864.87	39°35'14.1894"N	80°44'39.9952"W	11792.34	341.178	1.46	-0.20	1.45	
18845.00	90.280	341.080	6983.19	11887.31	11251.64	-3835.28	1712385.85	14375954.73	39°35'15.0787"N	80°44'40.3842"W	11887.34	341.178	0.16	0.11	-0.12	
18939.00	90.180	341.080	6982.82	11981.31	11340.56	-3865.76	1712355.38	14376043.62	39°35'15.9584"N	80°44'40.7703"W	11981.34	341.177	0.11	-0.11	0.00	
19034.00	90.370	341.110	6982.36	12076.31	11430.44	-3896.54	1712324.61	14376133.46	39°35'16.8475"N	80°44'41.1602"W	12076.34	341.176	0.20	0.20	0.03	
19128.00	90.220	340.950	6981.88	12170.31	11519.33	-3927.09	1712294.07	14376222.32	39°35'17.7269"N	80°44'41.5473"W	12170.33	341.175	0.23	-0.16	-0.17	
19223.00	90.280	340.930	6981.46	12265.30	11609.12	-3958.12	1712263.06	14376312.07	39°35'18.6152"N	80°44'41.9403"W	12265.33	341.173	0.07	0.06	-0.02	
19318.00	90.310	341.030	6980.97	12360.30	11698.93	-3989.08	1712232.11	14376401.85	39°35'19.5037"N	80°44'42.3325"W	12360.33	341.172	0.11	0.03	0.11	
19412.00	90.220	340.830	6980.54	12454.30	11787.77	-4019.79	1712201.41	14376490.65	39°35'20.3826"N	80°44'42.7215"W	12454.33	341.170	0.23	-0.10	-0.21	
19506.00	90.250	340.890	6980.15	12548.30	11876.58	-4050.61	1712170.60	14376579.42	39°35'21.2611"N	80°44'43.1120"W	12548.33	341.168	0.07	0.03	0.06	

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Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (253 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
19600.00	90.310	340.960	6979.69	12642.30	11965.42	-4081.33	1712139.90	14376668.22	39°35'22.1399"N	80°44'43.5011"W	12642.33	341.166	0.10	0.06	0.07	
19694.00	90.340	341.060	6979.16	12736.30	12054.30	-4111.91	1712109.32	14376757.07	39°35'23.0192"N	80°44'43.8886"W	12736.32	341.165	0.11	0.03	0.11	
19789.00	90.340	340.960	6978.60	12831.30	12144.13	-4142.83	1712078.42	14376846.86	39°35'23.9079"N	80°44'44.2802"W	12831.32	341.164	0.11	0.00	-0.11	
19883.00	90.340	340.960	6978.04	12925.29	12232.98	-4173.49	1712047.77	14376935.68	39°35'24.7869"N	80°44'44.6687"W	12925.32	341.162	0.00	0.00	0.00	
19977.00	90.340	341.020	6977.48	13019.29	12321.85	-4204.11	1712017.16	14377024.52	39°35'25.6661"N	80°44'45.0566"W	13019.32	341.161	0.06	0.00	0.06	
20072.00	90.310	340.910	6976.94	13114.29	12411.66	-4235.09	1711986.19	14377114.29	39°35'26.5545"N	80°44'45.4491"W	13114.31	341.159	0.12	-0.03	-0.12	
20167.00	90.250	341.040	6976.48	13209.29	12501.47	-4266.06	1711955.24	14377204.06	39°35'27.4430"N	80°44'45.8414"W	13209.31	341.158	0.15	-0.06	0.14	
20261.00	90.430	340.960	6975.92	13303.29	12590.34	-4296.66	1711924.64	14377292.91	39°35'28.3222"N	80°44'46.2291"W	13303.31	341.157	0.21	0.19	-0.09	
20356.00	90.370	340.920	6975.26	13398.29	12680.13	-4327.69	1711893.63	14377382.66	39°35'29.2105"N	80°44'46.6222"W	13398.31	341.155	0.08	-0.06	-0.04	
20451.00	90.460	341.060	6974.57	13493.28	12769.95	-4358.63	1711862.70	14377472.44	39°35'30.0990"N	80°44'47.0142"W	13493.31	341.154	0.18	0.09	0.15	
20545.00	89.910	340.580	6974.27	13587.28	12858.73	-4389.51	1711831.83	14377561.19	39°35'30.9773"N	80°44'47.4055"W	13587.30	341.152	0.78	-0.59	-0.51	
20640.00	90.180	340.850	6974.19	13682.28	12948.40	-4420.89	1711800.47	14377650.82	39°35'31.8644"N	80°44'47.8030"W	13682.30	341.149	0.40	0.28	0.28	
20735.00	90.220	340.840	6973.86	13777.28	13038.14	-4452.06	1711769.31	14377740.52	39°35'32.7522"N	80°44'48.1979"W	13777.30	341.147	0.04	0.04	-0.01	
20829.00	90.400	340.980	6973.35	13871.28	13126.97	-4482.80	1711738.58	14377829.32	39°35'33.6310"N	80°44'48.5874"W	13871.30	341.145	0.24	0.19	0.15	
20924.00	90.030	340.520	6972.99	13966.27	13216.66	-4514.12	1711707.27	14377918.97	39°35'34.5182"N	80°44'48.9843"W	13966.29	341.143	0.62	-0.39	-0.48	
21019.00	90.150	340.730	6972.84	14061.27	13306.28	-4545.64	1711675.77	14378008.55	39°35'35.4048"N	80°44'49.3837"W	14061.29	341.139	0.25	0.13	0.22	
21113.00	90.430	340.780	6972.37	14155.27	13395.02	-4576.62	1711644.80	14378097.27	39°35'36.2828"N	80°44'49.7762"W	14155.28	341.136	0.30	0.30	0.05	
21208.00	90.310	340.840	6971.76	14250.27	13484.74	-4607.85	1711613.58	14378186.95	39°35'37.1704"N	80°44'50.1719"W	14250.28	341.134	0.14	-0.13	0.06	
21301.00	90.800	341.400	6970.85	14343.26	13572.73	-4637.94	1711583.50	14378274.91	39°35'38.0408"N	80°44'50.5531"W	14343.28	341.134	0.80	0.53	0.60	
21395.00	90.460	340.720	6969.82	14437.25	13661.64	-4668.45	1711553.01	14378363.78	39°35'38.9204"N	80°44'50.9396"W	14437.27	341.134	0.81	-0.36	-0.72	
21490.00	90.460	340.970	6969.06	14532.25	13751.38	-4699.62	1711521.85	14378453.48	39°35'39.8081"N	80°44'51.3346"W	14532.27	341.132	0.26	0.00	0.26	
21585.00	90.490	340.780	6968.27	14627.25	13841.13	-4730.74	1711490.74	14378543.20	39°35'40.6960"N	80°44'51.7290"W	14627.26	341.130	0.20	0.03	-0.20	
21679.00	89.880	340.810	6967.97	14721.24	13929.90	-4761.66	1711459.83	14378631.93	39°35'41.5742"N	80°44'52.1208"W	14721.26	341.128	0.65	-0.65	0.03	
21774.00	90.000	340.640	6968.07	14816.24	14019.57	-4793.02	1711428.48	14378721.57	39°35'42.4613"N	80°44'52.5181"W	14816.26	341.125	0.22	0.13	-0.18	
21868.00	90.030	341.010	6968.04	14910.24	14108.36	-4823.90	1711397.62	14378810.32	39°35'43.3397"N	80°44'52.9094"W	14910.25	341.124	0.39	0.03	0.39	
21963.00	90.150	341.030	6967.89	15005.24	14198.19	-4854.79	1711366.73	14378900.12	39°35'44.2284"N	80°44'53.3008"W	15005.25	341.123	0.13	0.13	0.02	
22057.00	90.000	340.810	6967.77	15099.24	14287.03	-4885.52	1711336.02	14378988.92	39°35'45.1072"N	80°44'53.6902"W	15099.25	341.122	0.28	-0.16	-0.23	
22152.00	89.940	340.720	6967.82	15194.24	14376.72	-4916.82	1711304.73	14379078.58	39°35'45.9945"N	80°44'54.0868"W	15194.25	341.119	0.11	-0.06	-0.09	
22247.00	90.060	340.970	6967.82	15289.24	14466.46	-4947.99	1711273.58	14379168.28	39°35'46.8823"N	80°44'54.4818"W	15289.25	341.118	0.29	0.13	0.26	
22341.00	90.030	340.800	6967.75	15383.24	14555.28	-4978.77	1711242.81	14379257.07	39°35'47.7610"N	80°44'54.8718"W	15383.25	341.116	0.18	-0.03	-0.18	



Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Viewer Unit 2H
Field	Wetzel		API	47-103-03590-0000
Facility	Furbee Pad		Wellbore	Viewer Unit 2H AWB
Slot	Slot H			

WELLPATH DATA (253 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
22436.00	90.030	340.340	6967.70	15478.24	14644.87	-5010.38	1711211.22	14379346.62	39°35'48.6473"N	80°44'55.2723"W	15478.25	341.113	0.48	0.00	-0.48	
22530.00	90.000	340.000	6967.67	15572.22	14733.30	-5042.26	1711179.34	14379435.01	39°35'49.5221"N	80°44'55.6765"W	15572.23	341.107	0.36	-0.03	-0.36	
22625.00	90.000	340.850	6967.67	15667.22	14822.80	-5074.09	1711147.53	14379524.48	39°35'50.4076"N	80°44'56.0799"W	15667.22	341.103	0.89	0.00	0.89	
22719.00	89.940	340.940	6967.72	15761.22	14911.63	-5104.86	1711116.77	14379613.27	39°35'51.2863"N	80°44'56.4697"W	15761.22	341.102	0.12	-0.06	0.10	
22813.00	90.000	340.960	6967.77	15855.22	15000.48	-5135.54	1711086.10	14379702.09	39°35'52.1653"N	80°44'56.8585"W	15855.22	341.101	0.07	0.06	0.02	
22908.00	89.940	340.970	6967.82	15950.22	15090.28	-5166.52	1711055.13	14379791.86	39°35'53.0537"N	80°44'57.2511"W	15950.22	341.100	0.06	-0.06	0.01	
23002.00	90.000	340.810	6967.87	16044.22	15179.10	-5197.30	1711024.37	14379880.64	39°35'53.9323"N	80°44'57.6411"W	16044.22	341.099	0.18	0.06	-0.17	
23097.00	90.030	340.870	6967.84	16139.22	15268.84	-5228.48	1710993.20	14379970.34	39°35'54.8201"N	80°44'58.0362"W	16139.22	341.097	0.07	0.03	0.06	
23191.00	90.060	341.030	6967.77	16233.22	15357.69	-5259.16	1710962.53	14380059.16	39°35'55.6991"N	80°44'58.4250"W	16233.22	341.097	0.17	0.03	0.17	
23286.00	89.970	340.810	6967.75	16328.22	15447.47	-5290.21	1710931.49	14380148.91	39°35'56.5873"N	80°44'58.8185"W	16328.22	341.095	0.25	-0.09	-0.23	
23475.00	89.970	340.910	6967.84	16517.21	15626.03	-5352.18	1710869.55	14380327.39	39°35'58.3536"N	80°44'59.6038"W	16517.22	341.093	0.05	0.00	0.05	
23575.00	89.970	340.780	6967.90	16617.21	15720.49	-5384.99	1710836.75	14380421.81	39°35'59.2881"N	80°45'0.0196"W	16617.22	341.091	0.13	0.00	-0.13	
23600.00‡	89.970	340.780	6967.91	16642.21	15744.10	-5393.22	1710828.52	14380445.41	39°35'59.5217"N	80°45'0.1239"W	16642.22	341.091	0.00	0.00	0.00	Projected MD at TD: 23600'

HOLE & CASING SECTIONS - Ref Wellbore: Viewer Unit 2H AWB Ref Wellpath: Viewer Unit 2H AWP Proj: 23600'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	0.05	0.19
17.5in Open Hole	125.50	695.00	569.50	125.50	694.96	0.05	0.19	-0.81	4.79
13.375in Casing Surface	25.50	675.00	649.50	25.50	674.97	0.00	0.00	-0.54	4.51
12.25in Open Hole	695.00	3448.00	2753.00	694.96	3431.49	-0.81	4.79	-260.97	-104.27
9.625in Casing Intermediate	25.50	3418.00	3392.50	25.50	3401.49	0.00	0.00	-260.97	-103.95
8.75in Open Hole	3448.00	7402.00	3954.00	3431.49	7018.22	-260.97	-104.27	410.25	-190.79
8.5in Open Hole	7402.00	23600.00	16198.00	7018.22	6967.91	410.25	-190.79	15744.10	-5393.22
5.5in Casing Production	25.50	23580.00	23554.50	25.50	6967.90	0.00	0.00	15725.21	-5386.64

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Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Viewer Unit 2H POE Rev-3	7010.00	241.71	-146.77	1716072.90	14364949.15	39°33'26.1591"N	80°43'53.6916"W	point
Viewer Unit 2H AZI Rev-3	7038.00	779.73	-258.21	1715961.51	14365486.96	39°33'31.4799"N	80°43'55.0939"W	point
Viewer Unit 2H BHL Rev-3	7038.00	15625.10	-5356.51	1710865.22	14380326.46	39°35'58.3446"N	80°44'59.6591"W	point
Viewer Unit 2H LP Rev-3	7038.00	432.00	-174.21	1716045.47	14365139.37	39°33'28.0406"N	80°43'54.0347"W	point
Viewer Unit 2H 50' L/R Hard Line	7500.00	8202.42	-2807.36	1713413.36	14372906.71	39°34'44.9136"N	80°44'27.3671"W	rectangle
2D Rectangle 15696.4 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Viewer Unit 2H AWB Ref Wellpath: Viewer Unit 2H AWP Proj: 23600'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	643.00	Gyrodata 2015 - GC+WR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-643')	Viewer Unit 2H AWB	10/6/2023
643.00	3375.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (643')(768'-3375')	Viewer Unit 2H AWB	10/6/2023
3375.00	7341.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3375')(3461'-7341')	Viewer Unit 2H AWB	10/20/2023
7341.00	23600.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (7341')(7378'-23575')	Viewer Unit 2H AWB	10/20/2023



Actual Wellpath Report

Viewer Unit 2H AWP Proj: 23600'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Viewer Unit 2H
Field	Wetzel	API	47-103-03590-0000
Facility	Furbee Pad	Wellbore	Viewer Unit 2H AWB
Slot	Slot H		

COMMENTS
<p>Wellpath general comments API: 47-103-03590-0000 BH Job #: 111949163 Rig: H&P 317 Duration: 10/22/2023-10/29/2023 Gyrodatta MS Gyro <17-1/2"> (100'-643') APS EM <12-1/4"> (643')(768'-3375') APS EM <8-3/4"> (3375')(3461'-7341') BH AT Curve <8-1/2"> (7341')(7378'-23575') Sycamore: 6698' MD Middlesex: 6844' MD Burkett: 6978' MD Tully: 7033' MD Marcellus POE: 7255' MD Projected MD at TD: 23600'</p>

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