



# ANTERO RESOURCES CORPORATION

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

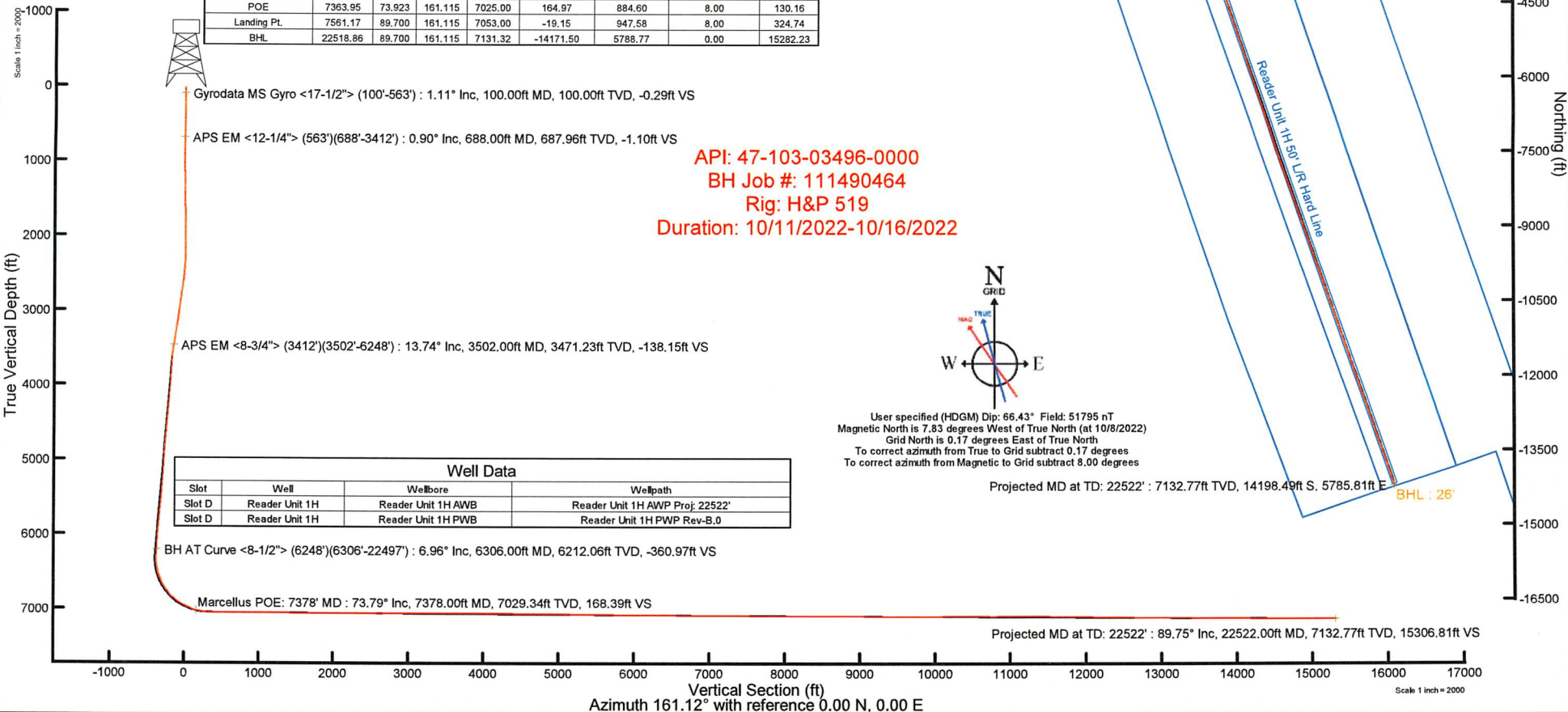
Slot: Slot D  
 Well: Reader Unit 1H  
 Wellbore: Reader Unit 1H PWB



Plot reference wellpath is Reader 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: 1242 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot D): -1212 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2022-11-15; Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Furbee Pad	1716103.700	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)	Latitude
Slot D	-43.22	12.42	1716116.120	14364911.190	39°33'25.7826"N
Comment	Reader Unit 1H				
H&P 519 (RKB) to Ground level (At Slot: Slot D)	30ft				
Mean Sea Level to Ground level (At Slot: Slot D)	-1212ft				
H&P 519 (RKB) to Mean Sea Level	1242ft				

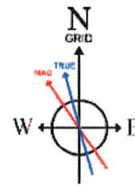
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3412.00	13.980	30.710	3383.85	190.60	174.27	0.57	-123.95
Proj. to Bottom	3490.00	13.980	30.710	3459.54	206.60	183.89	0.00	-136.17
Drill Out	3570.00	13.980	30.710	3537.17	223.42	193.76	0.00	-148.70
End of 3D Arc	3784.30	11.787	47.340	3746.14	260.52	223.09	2.00	-174.32
Curve KOP	6377.29	11.787	47.340	6284.45	619.46	612.62	0.00	-387.90
POE	7363.95	73.923	161.115	7025.00	164.97	884.60	8.00	130.16
Landing Pt.	7561.17	89.700	161.115	7053.00	-19.15	947.58	8.00	324.74
BHL	22518.86	89.700	161.115	7131.32	-14171.50	5788.77	0.00	15282.23



BH AT Curve <8-1/2"> (6248')(6306'-22497') : 6212.06ft TVD, 594.72ft N, 623.49ft E  
 APS EM <8-3/4"> (3412')(3502'-6248') : 3471.23ft TVD, 209.28ft N, 185.02ft E  
 APS EM <12-1/4"> (563')(688'-3412') : 687.96ft TVD, 0.21ft N, 2.78ft W  
 Gyrodata MS Gyro <17-1/2"> (100'-563') : 100.00ft TVD, 0.07ft N, 0.67ft W

POE : 89°  
 Marcellus POE: 7378' MD : 7029.34ft TVD, 128.07ft N, 894.88ft E

API: 47-103-03496-0000  
 BH Job #: 111490464  
 Rig: H&P 519  
 Duration: 10/11/2022-10/16/2022



User specified (HDGM) Dip: 66.43° Field: 51795 nT  
 Magnetic North is 7.83 degrees West of True North (at 10/8/2022)  
 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 8.00 degrees

Projected MD at TD: 22522' : 7132.77ft TVD, 14198.49ft S, 5785.81ft E

Well Data			
Slot	Well	Wellbore	Wellpath
Slot D	Reader Unit 1H	Reader Unit 1H AWB	Reader Unit 1H AWP Proj: 22522'
Slot D	Reader Unit 1H	Reader Unit 1H PWB	Reader Unit 1H PWP Rev-B.0

BH AT Curve <8-1/2"> (6248')(6306'-22497') : 6.96° Inc, 6306.00ft MD, 6212.06ft TVD, -360.97ft VS

Marcellus POE: 7378' MD : 73.79° Inc, 7378.00ft MD, 7029.34ft TVD, 168.39ft VS

Projected MD at TD: 22522' : 89.75° Inc, 22522.00ft MD, 7132.77ft TVD, 15306.81ft VS



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 1H
Field	Wetzel	API	47-103-03496-0000
Facility	Furbee Pad	Wellbore	Reader Unit 1H AWB
Slot	Slot D		

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	11/15/2022 at 12:27:30 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	-43.22	12.42	1716116.12	14364911.19	39°33'25.7826"N	80°43'53.1410"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 519 (RKB) to Facility Vertical Datum	1242.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1242.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot D)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.12°



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'  
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Wetzel	API	47-103-03496-0000
Facility	Furbee Pad	Wellbore	Reader Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (248 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	276.250	0.00	0.00	0.00	0.00	1716116.12	14364911.19	39°33'25.7826"N	80°43'53.1410"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	276.250	30.00	0.00	0.00	0.00	1716116.12	14364911.19	39°33'25.7826"N	80°43'53.1410"W	0.00	0.000	0.00	0.00	0.00	
100.00	1.110	276.250	100.00	-0.29	0.07	-0.67	1716115.45	14364911.26	39°33'25.7833"N	80°43'53.1496"W	0.68	276.250	1.59	1.59	0.00	Gyrodata MS Gyro <17-1/2"> (100'-563')
200.00	1.050	276.830	199.98	-1.10	0.29	-2.55	1716113.57	14364911.48	39°33'25.7855"N	80°43'53.1735"W	2.56	276.457	0.06	-0.06	0.58	
300.00	0.430	281.870	299.97	-1.69	0.47	-3.82	1716112.30	14364911.66	39°33'25.7874"N	80°43'53.1898"W	3.85	277.072	0.62	-0.62	5.04	
400.00	0.100	276.330	399.97	-1.92	0.56	-4.28	1716111.84	14364911.75	39°33'25.7882"N	80°43'53.1956"W	4.31	277.474	0.33	-0.33	-5.54	
500.00	0.240	134.730	499.97	-1.76	0.42	-4.22	1716111.91	14364911.61	39°33'25.7869"N	80°43'53.1948"W	4.24	275.736	0.32	0.14	-141.60	
563.00	0.490	141.450	562.97	-1.39	0.12	-3.95	1716112.17	14364911.31	39°33'25.7839"N	80°43'53.1915"W	3.96	271.737	0.40	0.40	10.67	
688.00	0.900	58.530	687.96	-1.10	0.21	-2.78	1716113.34	14364911.40	39°33'25.7848"N	80°43'53.1766"W	2.79	274.404	0.78	0.33	-66.34	APS EM <12-1/4"> (563')(688'-3412')
778.00	1.300	114.940	777.94	-0.55	0.15	-1.25	1716114.87	14364911.34	39°33'25.7841"N	80°43'53.1570"W	1.26	276.946	1.22	0.44	62.68	
868.00	1.240	115.940	867.92	0.84	-0.70	0.55	1716116.67	14364910.49	39°33'25.7756"N	80°43'53.1341"W	0.89	142.154	0.07	-0.07	1.11	
957.00	1.180	119.290	956.90	2.20	-1.57	2.21	1716118.33	14364909.62	39°33'25.7669"N	80°43'53.1129"W	2.71	125.422	0.10	-0.07	3.76	
1048.00	0.840	103.290	1047.89	3.26	-2.18	3.68	1716119.80	14364909.01	39°33'25.7608"N	80°43'53.0942"W	4.28	120.711	0.48	-0.37	-17.58	
1143.00	1.240	112.780	1142.87	4.31	-2.74	5.30	1716121.42	14364908.45	39°33'25.7553"N	80°43'53.0734"W	5.97	117.347	0.46	0.42	9.99	
1238.00	1.360	118.410	1237.85	5.82	-3.68	7.24	1716123.36	14364907.51	39°33'25.7460"N	80°43'53.0487"W	8.12	116.917	0.18	0.13	5.93	
1332.00	1.060	141.000	1331.83	7.46	-4.88	8.77	1716124.89	14364906.31	39°33'25.7340"N	80°43'53.0292"W	10.04	119.109	0.59	-0.32	24.03	
1427.00	0.840	134.660	1426.81	8.91	-6.06	9.82	1716125.94	14364905.14	39°33'25.7224"N	80°43'53.0159"W	11.54	121.664	0.26	-0.23	-6.67	
1521.00	1.010	112.780	1520.80	10.08	-6.86	11.07	1716127.19	14364904.33	39°33'25.7144"N	80°43'52.9999"W	13.03	121.783	0.41	0.18	-23.28	
1616.00	0.720	114.950	1615.79	11.05	-7.44	12.39	1716128.50	14364903.76	39°33'25.7087"N	80°43'52.9832"W	14.45	120.981	0.31	-0.31	2.28	
1710.00	0.890	121.820	1709.78	12.02	-8.07	13.54	1716129.66	14364903.12	39°33'25.7024"N	80°43'52.9684"W	15.77	120.795	0.21	0.18	7.31	
1805.00	0.910	115.760	1804.77	13.12	-8.79	14.85	1716130.96	14364902.41	39°33'25.6953"N	80°43'52.9518"W	17.25	120.619	0.10	0.02	-6.38	
1899.00	0.830	103.750	1898.76	14.01	-9.27	16.18	1716132.30	14364901.92	39°33'25.6904"N	80°43'52.9348"W	18.65	119.818	0.21	-0.09	-12.78	
1994.00	0.690	106.680	1993.75	14.72	-9.60	17.40	1716133.51	14364901.59	39°33'25.6871"N	80°43'52.9193"W	19.87	118.894	0.15	-0.15	3.08	
2088.00	1.440	81.310	2087.74	15.25	-9.59	19.11	1716135.22	14364901.61	39°33'25.6872"N	80°43'52.8974"W	21.38	116.641	0.92	0.80	-26.99	
2182.00	3.530	63.680	2181.64	15.09	-8.12	22.87	1716138.98	14364903.07	39°33'25.7016"N	80°43'52.8493"W	24.27	109.557	2.34	2.22	-18.76	
2277.00	5.940	59.720	2276.31	13.74	-4.35	29.74	1716145.85	14364906.84	39°33'25.7387"N	80°43'52.7615"W	30.05	98.319	2.56	2.54	-4.17	
2372.00	7.730	49.190	2370.64	10.38	2.31	38.82	1716154.92	14364913.50	39°33'25.8042"N	80°43'52.6453"W	38.89	86.600	2.29	1.88	-11.08	
2466.00	9.410	40.520	2463.59	4.11	12.28	48.60	1716164.70	14364923.47	39°33'25.9025"N	80°43'52.5201"W	50.13	75.818	2.25	1.79	-9.22	
2560.00	11.300	35.070	2556.05	-5.23	25.66	58.88	1716174.98	14364936.84	39°33'26.0344"N	80°43'52.3883"W	64.23	66.453	2.26	2.01	-5.80	
2655.00	13.260	34.040	2648.88	-17.27	42.31	70.33	1716186.42	14364953.48	39°33'26.1986"N	80°43'52.2415"W	82.08	58.971	2.08	2.06	-1.08	



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Reader Unit 1H
Field	Wetzel		API	47-103-03496-0000
Facility	Furbee Pad		Wellbore	Reader Unit 1H AWB
Slot	Slot D			

WELLPATH DATA (248 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
2750.00	13.810	36.040	2741.24	-30.36	60.51	83.10	1716199.19	14364971.67	39°33'26.3781"N	80°43'52.0778"W	102.79	53.942	0.76	0.58	2.11	
2844.00	12.740	33.570	2832.73	-43.12	78.21	95.43	1716211.52	14364989.37	39°33'26.5527"N	80°43'51.9196"W	123.39	50.663	1.29	-1.14	-2.63	
2939.00	14.340	37.000	2925.08	-56.11	96.34	108.31	1716224.38	14365007.49	39°33'26.7315"N	80°43'51.7546"W	144.95	48.347	1.88	1.68	3.61	
3033.00	14.180	37.580	3016.19	-69.00	114.76	122.33	1716238.41	14365025.90	39°33'26.9131"N	80°43'51.5748"W	167.74	46.830	0.23	-0.17	0.62	
3128.00	13.870	37.650	3108.36	-81.71	133.00	136.39	1716252.45	14365044.13	39°33'27.0930"N	80°43'51.3947"W	190.50	45.721	0.33	-0.33	0.07	
3223.00	14.100	32.990	3200.54	-95.13	151.72	149.64	1716265.70	14365062.85	39°33'27.2776"N	80°43'51.2247"W	213.10	44.605	1.21	0.24	-4.91	
3317.00	14.150	32.840	3291.70	-109.32	170.98	162.11	1716278.16	14365082.10	39°33'27.4676"N	80°43'51.0648"W	235.61	43.475	0.07	0.05	-0.16	
3412.00	13.980	30.710	3383.85	-123.95	190.60	174.27	1716290.32	14365101.71	39°33'27.6611"N	80°43'50.9089"W	258.26	42.437	0.57	-0.18	-2.24	
3502.00	13.740	29.140	3471.23	-138.15	209.28	185.02	1716301.07	14365120.39	39°33'27.8455"N	80°43'50.7708"W	279.34	41.479	0.50	-0.27	-1.74	APS EM <8-3/4"> (3412')(3502'-6248')
3597.00	13.180	37.130	3563.63	-151.75	227.77	197.05	1716313.10	14365138.87	39°33'28.0278"N	80°43'50.6165"W	301.18	40.864	2.04	-0.59	8.41	
3692.00	12.760	50.680	3656.23	-161.47	243.06	211.71	1716327.75	14365154.15	39°33'28.1785"N	80°43'50.4288"W	322.33	41.057	3.22	-0.44	14.26	
3786.00	12.470	53.740	3747.96	-168.13	255.64	227.93	1716343.96	14365166.73	39°33'28.3023"N	80°43'50.2213"W	342.49	41.720	0.77	-0.31	3.26	
3881.00	11.760	52.290	3840.84	-174.32	267.63	243.86	1716359.88	14365178.71	39°33'28.4204"N	80°43'50.0175"W	362.06	42.339	0.81	-0.75	-1.53	
3976.00	12.910	52.800	3933.65	-180.78	279.96	259.97	1716375.99	14365191.04	39°33'28.5418"N	80°43'49.8113"W	382.05	42.879	1.22	1.21	0.54	
4070.00	14.800	52.930	4024.91	-187.83	293.55	277.91	1716393.92	14365204.63	39°33'28.6756"N	80°43'49.5816"W	404.24	43.432	2.01	2.01	0.14	
4165.00	14.880	51.290	4116.74	-195.75	308.49	297.11	1716413.12	14365219.56	39°33'28.8227"N	80°43'49.3359"W	428.30	43.923	0.45	0.08	-1.73	
4260.00	14.000	49.340	4208.74	-204.16	323.61	315.35	1716431.34	14365234.67	39°33'28.9715"N	80°43'49.1025"W	451.85	44.259	1.06	-0.93	-2.05	
4354.00	13.130	46.310	4300.12	-212.86	338.39	331.70	1716447.68	14365249.45	39°33'29.1172"N	80°43'48.8933"W	473.85	44.427	1.19	-0.93	-3.22	
4449.00	13.720	50.440	4392.53	-221.36	353.02	348.18	1716464.17	14365264.07	39°33'29.2613"N	80°43'48.6822"W	495.84	44.605	1.18	0.62	4.35	
4543.00	13.230	50.450	4483.94	-229.10	366.97	365.07	1716481.05	14365278.02	39°33'29.3986"N	80°43'48.4661"W	517.63	44.851	0.52	-0.52	0.01	
4638.00	12.200	47.290	4576.61	-236.99	380.70	380.83	1716496.80	14365291.74	39°33'29.5339"N	80°43'48.2643"W	538.49	45.010	1.31	-1.08	-3.33	
4733.00	10.940	44.200	4669.68	-245.13	393.98	394.49	1716510.46	14365305.01	39°33'29.6646"N	80°43'48.0894"W	557.53	45.038	1.48	-1.33	-3.25	
4827.00	10.910	49.400	4761.97	-252.46	406.16	407.46	1716523.42	14365317.19	39°33'29.7847"N	80°43'47.9233"W	575.32	45.092	1.05	-0.03	5.53	
4922.00	10.070	47.720	4855.39	-259.08	417.60	420.44	1716536.39	14365328.62	39°33'29.8973"N	80°43'47.7573"W	592.58	45.194	0.94	-0.88	-1.77	
5017.00	10.960	51.490	4948.79	-265.41	428.81	433.65	1716549.60	14365339.83	39°33'30.0077"N	80°43'47.5881"W	609.86	45.321	1.18	0.94	3.97	
5111.00	13.150	55.410	5040.71	-271.31	440.44	449.44	1716565.39	14365351.46	39°33'30.1223"N	80°43'47.3860"W	629.28	45.579	2.49	2.33	4.17	
5206.00	11.980	53.330	5133.44	-277.25	452.47	466.25	1716582.19	14365363.48	39°33'30.2406"N	80°43'47.1710"W	649.70	45.859	1.32	-1.23	-2.19	
5301.00	12.790	51.870	5226.23	-283.73	464.85	482.43	1716598.36	14365375.85	39°33'30.3625"N	80°43'46.9639"W	669.94	46.063	0.91	0.85	-1.54	
5395.00	11.570	47.840	5318.11	-290.89	477.60	497.60	1716613.53	14365388.60	39°33'30.4881"N	80°43'46.7697"W	689.72	46.175	1.58	-1.30	-4.29	
5490.00	12.280	48.770	5411.06	-298.49	490.65	512.26	1716628.18	14365401.65	39°33'30.6166"N	80°43'46.5821"W	709.33	46.234	0.77	0.75	0.98	



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Reader Unit 1H
Field	Wetzel		API	47-103-03496-0000
Facility	Furbee Pad		Wellbore	Reader Unit 1H AWP
Slot	Slot D			

WELLPATH DATA (248 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
5585.00	11.760	46.700	5503.98	-306.34	503.95	526.91	1716642.82	14365414.94	39°33'30.7476"N	80°43'46.3946"W	729.11	46.276	0.71	-0.55	-2.18	
5680.00	12.140	46.620	5596.92	-314.48	517.45	541.21	1716657.12	14365428.44	39°33'30.8806"N	80°43'46.2114"W	748.78	46.286	0.40	0.40	-0.08	
5774.00	13.600	48.350	5688.55	-322.86	531.59	556.66	1716672.56	14365442.57	39°33'31.0199"N	80°43'46.0137"W	769.71	46.320	1.61	1.55	1.84	
5869.00	13.150	48.880	5780.98	-331.27	546.12	573.14	1716689.04	14365457.09	39°33'31.1630"N	80°43'45.8027"W	791.67	46.383	0.49	-0.47	0.56	
5964.00	11.400	46.530	5873.80	-339.27	559.68	588.10	1716703.99	14365470.65	39°33'31.2966"N	80°43'45.6112"W	811.85	46.418	1.92	-1.84	-2.47	
6059.00	9.230	42.870	5967.26	-346.78	571.73	600.10	1716715.98	14365482.69	39°33'31.4153"N	80°43'45.4575"W	828.85	46.387	2.38	-2.28	-3.85	
6153.00	7.190	42.610	6060.29	-353.16	581.58	609.21	1716725.09	14365492.54	39°33'31.5124"N	80°43'45.3408"W	842.24	46.329	2.17	-2.17	-0.28	
6248.00	7.490	48.850	6154.52	-358.35	590.03	617.90	1716733.77	14365500.99	39°33'31.5957"N	80°43'45.2296"W	854.36	46.321	0.90	0.32	6.57	
6306.00	6.960	51.360	6212.06	-360.97	594.72	623.49	1716739.36	14365505.67	39°33'31.6418"N	80°43'45.1580"W	861.64	46.353	1.06	-0.91	4.33	BH AT Curve <8-1/2"> (6248')(6306'-2249')
6369.00	9.140	51.790	6274.43	-363.91	600.19	630.40	1716746.27	14365511.15	39°33'31.6957"N	80°43'45.0695"W	870.43	46.406	3.46	3.46	0.68	
6463.00	9.800	87.820	6367.23	-364.09	605.12	644.27	1716760.14	14365516.07	39°33'31.7440"N	80°43'44.8922"W	883.89	46.795	6.24	0.70	38.33	
6558.00	12.070	121.550	6460.59	-354.09	600.23	660.84	1716776.70	14365511.18	39°33'31.6951"N	80°43'44.6810"W	892.74	47.752	7.03	2.39	35.51	
6653.00	17.990	140.300	6552.36	-332.69	583.72	678.70	1716794.55	14365494.68	39°33'31.5314"N	80°43'44.4535"W	895.19	49.303	7.99	6.23	19.74	
6748.00	25.840	145.730	6640.43	-298.97	555.27	699.76	1716815.61	14365466.24	39°33'31.2497"N	80°43'44.1857"W	893.31	51.567	8.53	8.26	5.72	
6805.00†	30.829	146.700	6690.59	-272.83	532.79	714.78	1716830.62	14365443.77	39°33'31.0270"N	80°43'43.9948"W	891.50	53.300	8.79	8.75	1.70	Sycamore: 6805' MD
6842.00	34.070	147.190	6721.80	-253.58	516.15	725.61	1716841.44	14365427.13	39°33'30.8622"N	80°43'43.8572"W	890.46	54.575	8.79	8.76	1.32	
6937.00	40.330	148.270	6797.44	-197.73	467.59	756.23	1716872.05	14365378.59	39°33'30.3814"N	80°43'43.4682"W	889.11	58.271	6.63	6.59	1.14	
6967.00†	42.590	149.567	6819.92	-178.31	450.58	766.47	1716882.29	14365361.59	39°33'30.2130"N	80°43'43.3380"W	889.10	59.551	8.06	7.53	4.32	Middlesex: 6967' MD
7032.00	47.530	152.030	6865.82	-133.06	410.41	788.87	1716904.68	14365321.44	39°33'29.8153"N	80°43'43.0535"W	889.25	62.514	8.06	7.60	3.79	
7120.00†	56.107	157.472	6920.19	-64.40	347.86	818.16	1716933.95	14365258.92	39°33'29.1963"N	80°43'42.6821"W	889.04	66.966	10.89	9.75	6.18	Burkett: 7120' MD
7126.00	56.700	157.800	6923.52	-59.41	343.24	820.06	1716935.86	14365254.30	39°33'29.1506"N	80°43'42.6580"W	889.00	67.288	10.89	9.88	5.47	
7175.00†	60.394	160.266	6949.08	-17.65	304.21	835.00	1716950.79	14365215.28	39°33'28.7644"N	80°43'42.4688"W	888.69	69.982	8.67	7.54	5.03	Tully: 7175' MD
7221.00	63.900	162.420	6970.57	23.01	265.69	847.99	1716963.78	14365176.77	39°33'28.3832"N	80°43'42.3043"W	888.64	72.604	8.67	7.62	4.68	
7271.00†	66.150	161.378	6991.68	68.32	222.61	862.08	1716977.86	14365133.71	39°33'27.9571"N	80°43'42.1262"W	890.36	75.521	4.88	4.50	-2.08	Hamilton: 7271' MD
7316.00	68.180	160.470	7009.15	109.79	183.42	875.63	1716991.41	14365094.53	39°33'27.5693"N	80°43'41.9546"W	894.64	78.169	4.88	4.51	-2.02	
7378.00†	73.792	161.173	7029.34	168.39	128.07	894.88	1717010.64	14365039.21	39°33'27.0218"N	80°43'41.7111"W	903.99	81.855	9.12	9.05	1.13	Marcellus POE: 7378' MD
7410.00	76.690	161.520	7037.49	199.33	98.76	904.77	1717020.53	14365009.91	39°33'26.7317"N	80°43'41.5859"W	910.15	83.771	9.12	9.06	1.08	
7505.00	84.540	161.320	7052.97	292.98	9.98	934.61	1717050.36	14364921.17	39°33'25.8535"N	80°43'41.2083"W	934.67	89.388	8.27	8.26	-0.21	
7600.00	89.660	160.610	7057.77	387.83	-79.67	965.55	1717081.29	14364831.55	39°33'24.9664"N	80°43'40.8168"W	968.83	94.717	5.44	5.39	-0.75	
7694.00	89.850	161.820	7058.17	481.82	-168.67	995.82	1717111.54	14364742.59	39°33'24.0860"N	80°43'40.4338"W	1010.00	99.613	1.30	0.20	1.29	



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Reader Unit 1H
Field	Wetzel		API	47-103-03496-0000
Facility	Furbee Pad		Wellbore	Reader Unit 1H AWB
Slot	Slot D			

WELLPATH DATA (248 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
7789.00	89.450	161.400	7058.75	576.82	-258.81	1025.79	1717141.50	14364652.48	39°33'23.1942"N	80°43'40.0546"W	1057.93	104.160	0.61	-0.42	-0.44	
7883.00	90.800	159.940	7058.55	670.81	-347.51	1056.90	1717172.60	14364563.82	39°33'22.3167"N	80°43'39.6608"W	1112.57	108.201	2.12	1.44	-1.55	
7978.00	90.180	157.370	7057.74	765.71	-435.98	1091.48	1717207.16	14364475.38	39°33'21.4412"N	80°43'39.2229"W	1175.33	111.774	2.78	-0.65	-2.71	
8072.00	90.740	157.880	7056.98	859.53	-522.90	1127.26	1717242.93	14364388.50	39°33'20.5811"N	80°43'38.7694"W	1242.63	114.885	0.81	0.60	0.54	
8166.00	90.550	157.360	7055.92	953.35	-609.81	1163.04	1717278.70	14364301.62	39°33'19.7211"N	80°43'38.3159"W	1313.22	117.669	0.59	-0.20	-0.55	
8261.00	89.510	160.990	7055.87	1048.28	-698.59	1196.81	1717312.46	14364212.87	39°33'18.8426"N	80°43'37.8882"W	1385.78	120.273	3.97	-1.09	3.82	
8355.00	89.110	161.990	7057.01	1142.27	-787.72	1226.65	1717342.29	14364123.78	39°33'17.9609"N	80°43'37.5107"W	1457.80	122.707	1.15	-0.43	1.06	
8450.00	89.080	161.650	7058.51	1237.25	-877.97	1256.29	1717371.91	14364033.57	39°33'17.0680"N	80°43'37.1358"W	1532.67	124.948	0.36	-0.03	-0.36	
8544.00	90.000	161.150	7059.26	1331.24	-967.05	1286.27	1717401.88	14363944.52	39°33'16.1867"N	80°43'36.7565"W	1609.25	126.937	1.11	0.98	-0.53	
8638.00	89.020	162.650	7060.07	1425.23	-1056.39	1315.47	1717431.07	14363855.21	39°33'15.3028"N	80°43'36.3872"W	1687.14	128.766	1.91	-1.04	1.60	
8733.00	88.550	160.980	7062.08	1520.20	-1146.63	1345.11	1717460.70	14363765.02	39°33'14.4102"N	80°43'36.0123"W	1767.51	130.446	1.83	-0.49	-1.76	
8827.00	89.600	161.450	7063.60	1614.18	-1235.61	1375.38	1717490.95	14363676.07	39°33'13.5298"N	80°43'35.6293"W	1848.89	131.936	1.22	1.12	0.50	
8922.00	90.000	161.860	7063.93	1709.18	-1325.78	1405.28	1717520.84	14363585.94	39°33'12.6378"N	80°43'35.2511"W	1931.96	133.333	0.60	0.42	0.43	
9016.00	89.510	162.380	7064.33	1803.16	-1415.24	1434.14	1717549.69	14363496.51	39°33'11.7528"N	80°43'34.8862"W	2014.85	134.620	0.76	-0.52	0.55	
9111.00	89.750	160.540	7064.94	1898.15	-1505.30	1464.34	1717579.88	14363406.49	39°33'10.8617"N	80°43'34.5040"W	2100.05	135.790	1.95	0.25	-1.94	
9205.00	90.250	163.660	7064.94	1992.13	-1594.74	1493.23	1717608.76	14363317.08	39°33'9.9769"N	80°43'34.1387"W	2184.70	136.883	3.36	0.53	3.32	
9300.00	90.800	160.220	7064.07	2087.10	-1685.04	1522.67	1717638.19	14363226.82	39°33'9.0836"N	80°43'33.7663"W	2271.10	137.898	3.67	0.58	-3.62	
9394.00	90.580	158.320	7062.94	2181.04	-1772.94	1555.94	1717671.45	14363138.95	39°33'8.2138"N	80°43'33.3450"W	2358.87	138.730	2.03	-0.23	-2.02	
9489.00	88.650	158.220	7063.58	2275.92	-1861.19	1591.11	1717706.60	14363050.74	39°33'7.3406"N	80°43'32.8995"W	2448.60	139.473	2.03	-2.03	-0.11	
9583.00	90.060	162.870	7064.64	2369.88	-1949.79	1622.41	1717737.89	14362962.17	39°33'6.4640"N	80°43'32.5034"W	2536.51	140.236	5.17	1.50	4.95	
9677.00	90.150	158.830	7064.47	2463.86	-2038.57	1653.24	1717768.70	14362873.43	39°33'5.5856"N	80°43'32.1133"W	2624.68	140.959	4.30	0.10	-4.30	
9772.00	88.220	157.370	7065.82	2558.71	-2126.70	1688.67	1717804.12	14362785.33	39°33'4.7136"N	80°43'31.6644"W	2715.59	141.549	2.55	-2.03	-1.54	
9866.00	90.520	162.800	7066.85	2652.64	-2215.03	1720.67	1717836.11	14362697.03	39°33'3.8396"N	80°43'31.2593"W	2804.83	142.159	6.27	2.45	5.78	
9961.00	89.910	161.560	7066.50	2747.63	-2305.47	1749.74	1717865.17	14362606.63	39°33'2.9449"N	80°43'30.8917"W	2894.27	142.803	1.45	-0.64	-1.31	
10055.00	90.430	163.720	7066.22	2841.59	-2395.18	1777.78	1717893.20	14362516.95	39°33'2.0574"N	80°43'30.5372"W	2982.85	143.416	2.36	0.55	2.30	
10150.00	90.090	162.310	7065.79	2936.53	-2486.04	1805.54	1717920.94	14362426.14	39°33'1.1586"N	80°43'30.1865"W	3072.51	144.010	1.53	-0.36	-1.48	
10244.00	91.290	162.400	7064.65	3030.50	-2575.61	1834.03	1717949.42	14362336.60	39°33'0.2725"N	80°43'29.8263"W	3161.87	144.546	1.28	1.28	0.10	
10339.00	90.460	158.750	7063.20	3125.47	-2665.17	1865.61	1717980.99	14362247.07	39°32'59.3864"N	80°43'29.4266"W	3253.25	145.008	3.94	-0.87	-3.84	
10433.00	89.720	157.790	7063.05	3219.35	-2752.49	1900.41	1718015.78	14362159.79	39°32'58.5223"N	80°43'28.9857"W	3344.81	145.377	1.29	-0.79	-1.02	
10528.00	89.690	161.880	7063.54	3314.30	-2841.65	1933.15	1718048.51	14362070.67	39°32'57.6402"N	80°43'28.5712"W	3436.86	145.773	4.31	-0.03	4.31	



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Reader Unit 1H
Field	Wetzel		API	47-103-03496-0000
Facility	Furbee Pad		Wellbore	Reader Unit 1H AWP
Slot	Slot D			

WELLPATH DATA (248 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
10622.00	92.060	164.160	7062.11	3408.23	-2931.53	1960.60	1718075.94	14361980.82	39°32'56.7510"N	80°43'28.2244"W	3526.73	146.225	3.50	2.52	2.43	
10717.00	89.170	162.320	7061.09	3503.14	-3022.47	1987.99	1718103.32	14361889.91	39°32'55.8514"N	80°43'27.8783"W	3617.66	146.666	3.61	-3.04	-1.94	
10812.00	90.460	161.790	7061.40	3598.13	-3112.85	2017.26	1718132.58	14361799.57	39°32'54.9573"N	80°43'27.5082"W	3709.33	147.055	1.47	1.36	-0.56	
10906.00	89.290	162.080	7061.60	3692.12	-3202.21	2046.41	1718161.72	14361710.25	39°32'54.0732"N	80°43'27.1396"W	3800.25	147.419	1.28	-1.24	0.31	
11000.00	89.410	162.750	7062.67	3786.09	-3291.81	2074.80	1718190.10	14361620.68	39°32'53.1868"N	80°43'26.7806"W	3891.12	147.777	0.72	0.13	0.71	
11095.00	89.380	160.660	7063.67	3881.07	-3382.00	2104.62	1718219.91	14361530.53	39°32'52.2945"N	80°43'26.4035"W	3983.39	148.106	2.20	-0.03	-2.20	
11190.00	90.370	163.930	7063.88	3976.04	-3472.49	2133.51	1718248.78	14361440.08	39°32'51.3994"N	80°43'26.0383"W	4075.54	148.433	3.60	1.04	3.44	
11285.00	89.780	162.720	7063.75	4070.96	-3563.49	2160.77	1718276.03	14361349.11	39°32'50.4991"N	80°43'25.6939"W	4167.42	148.769	1.42	-0.62	-1.27	
11380.00	89.970	160.780	7063.96	4165.95	-3653.71	2190.52	1718305.77	14361258.93	39°32'49.6066"N	80°43'25.3176"W	4260.04	149.056	2.05	0.20	-2.04	
11474.00	89.050	161.570	7064.76	4259.95	-3742.67	2220.85	1718336.09	14361170.00	39°32'48.7264"N	80°43'24.9339"W	4351.98	149.316	1.29	-0.98	0.84	
11569.00	89.350	162.750	7066.09	4354.92	-3833.10	2249.95	1718365.18	14361079.61	39°32'47.8319"N	80°43'24.5660"W	4444.65	149.588	1.28	0.32	1.24	
11664.00	89.170	161.760	7067.32	4449.89	-3923.57	2278.90	1718394.12	14360989.17	39°32'46.9368"N	80°43'24.2000"W	4537.37	149.851	1.06	-0.19	-1.04	
11759.00	88.280	161.560	7069.43	4544.87	-4013.72	2308.78	1718423.99	14360899.06	39°32'46.0449"N	80°43'23.8221"W	4630.38	150.091	0.96	-0.94	-0.21	
11853.00	89.380	161.340	7071.35	4638.84	-4102.81	2338.68	1718453.88	14360810.00	39°32'45.1635"N	80°43'23.4439"W	4722.55	150.316	1.19	1.17	-0.23	
11948.00	90.980	163.100	7071.05	4733.82	-4193.27	2367.69	1718482.87	14360719.58	39°32'44.2686"N	80°43'23.0772"W	4815.54	150.549	2.50	1.68	1.85	
12043.00	89.420	160.540	7070.72	4828.80	-4283.52	2397.32	1718512.50	14360629.37	39°32'43.3758"N	80°43'22.7024"W	4908.73	150.766	3.16	-1.64	-2.69	
12137.00	89.450	161.120	7071.65	4922.79	-4372.30	2428.19	1718543.35	14360540.62	39°32'42.4974"N	80°43'22.3119"W	5001.31	150.954	0.62	0.03	0.62	
12232.00	89.780	161.890	7072.29	5017.79	-4462.39	2458.33	1718573.47	14360450.56	39°32'41.6061"N	80°43'21.9308"W	5094.73	151.150	0.88	0.35	0.81	
12327.00	89.510	161.610	7072.87	5112.78	-4552.61	2488.07	1718603.21	14360360.38	39°32'40.7135"N	80°43'21.5546"W	5188.14	151.343	0.41	-0.28	-0.29	
12421.00	88.890	161.000	7074.19	5206.77	-4641.64	2518.20	1718633.33	14360271.39	39°32'39.8327"N	80°43'21.1735"W	5280.74	151.519	0.93	-0.66	-0.65	
12516.00	87.720	161.540	7077.00	5301.73	-4731.57	2548.69	1718663.81	14360181.49	39°32'38.9430"N	80°43'20.7878"W	5374.34	151.691	1.36	-1.23	0.57	
12611.00	90.370	161.750	7078.58	5396.70	-4821.71	2578.60	1718693.70	14360091.38	39°32'38.0511"N	80°43'20.4096"W	5467.92	151.863	2.80	2.79	0.22	
12705.00	89.600	160.900	7078.60	5490.70	-4910.76	2608.70	1718723.79	14360002.37	39°32'37.1701"N	80°43'20.0289"W	5560.66	152.022	1.22	-0.82	-0.90	
12800.00	89.880	161.150	7079.04	5585.70	-5000.60	2639.59	1718754.67	14359912.57	39°32'36.2813"N	80°43'19.6382"W	5654.51	152.172	0.40	0.29	0.26	
12895.00	89.600	162.440	7079.47	5680.69	-5090.84	2669.27	1718784.33	14359822.36	39°32'35.3885"N	80°43'19.2629"W	5748.19	152.331	1.39	-0.29	1.36	
12990.00	89.170	161.130	7080.49	5775.67	-5181.07	2698.96	1718814.01	14359732.16	39°32'34.4958"N	80°43'18.8874"W	5841.91	152.484	1.45	-0.45	-1.38	
13084.00	89.200	161.440	7081.82	5869.66	-5270.10	2729.12	1718844.16	14359643.18	39°32'33.6151"N	80°43'18.5060"W	5934.81	152.623	0.33	0.03	0.33	
13179.00	90.430	161.440	7082.13	5964.66	-5360.15	2759.36	1718874.39	14359553.16	39°32'32.7241"N	80°43'18.1236"W	6028.70	152.761	1.29	1.29	0.00	
13274.00	89.380	161.310	7082.29	6059.66	-5450.18	2789.70	1718904.71	14359463.17	39°32'31.8334"N	80°43'17.7399"W	6122.65	152.894	1.11	-1.11	-0.14	
13368.00	89.420	161.880	7083.27	6153.65	-5539.36	2819.37	1718934.38	14359374.02	39°32'30.9511"N	80°43'17.3646"W	6215.58	153.025	0.61	0.04	0.61	



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 1H
Field	Wetzel	API	47-103-03496-0000
Facility	Furbee Pad	Wellbore	Reader Unit 1H AWP
Slot	Slot D		

## WELLPATH DATA (248 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
13463.00	89.630	161.700	7084.06	6248.64	-5629.60	2849.06	1718964.05	14359283.82	39°32'30.0583"N	80°43'16.9892"W	6309.48	153.157	0.29	0.22	-0.19	
13558.00	90.220	162.290	7084.18	6343.63	-5719.95	2878.42	1718993.41	14359193.50	39°32'29.1645"N	80°43'16.6180"W	6403.37	153.287	0.88	0.62	0.62	
13653.00	89.020	161.420	7084.81	6438.61	-5810.22	2908.01	1719022.98	14359103.27	39°32'28.2714"N	80°43'16.2439"W	6497.32	153.412	1.56	-1.26	-0.92	
13747.00	89.260	161.750	7086.23	6532.60	-5899.40	2937.70	1719052.66	14359014.13	39°32'27.3892"N	80°43'15.8685"W	6590.37	153.528	0.43	0.26	0.35	
13842.00	89.540	161.790	7087.22	6627.59	-5989.62	2967.42	1719082.36	14358923.94	39°32'26.4965"N	80°43'15.4927"W	6684.39	153.645	0.30	0.29	0.04	
13936.00	89.910	162.160	7087.67	6721.58	-6079.01	2996.50	1719111.44	14358834.59	39°32'25.6122"N	80°43'15.1250"W	6777.42	153.760	0.56	0.39	0.39	
14031.00	89.850	161.880	7087.87	6816.56	-6169.37	3025.83	1719140.75	14358744.26	39°32'24.7183"N	80°43'14.7543"W	6871.44	153.874	0.30	-0.06	-0.29	
14125.00	89.140	161.840	7088.70	6910.55	-6258.69	3055.09	1719170.00	14358654.97	39°32'23.8345"N	80°43'14.3843"W	6964.54	153.981	0.76	-0.76	-0.04	
14220.00	89.910	162.510	7089.49	7005.53	-6349.13	3084.17	1719199.07	14358564.57	39°32'22.9399"N	80°43'14.0167"W	7058.58	154.091	1.07	0.81	0.71	
14315.00	89.510	162.390	7089.97	7100.50	-6439.70	3112.82	1719227.71	14358474.03	39°32'22.0438"N	80°43'13.6546"W	7152.58	154.202	0.44	-0.42	-0.13	
14410.00	89.170	161.360	7091.06	7195.49	-6529.98	3142.37	1719257.25	14358383.79	39°32'21.1506"N	80°43'13.2810"W	7246.73	154.302	1.14	-0.36	-1.08	
14505.00	89.690	161.970	7092.01	7290.48	-6620.15	3172.25	1719287.12	14358293.65	39°32'20.2585"N	80°43'12.9032"W	7340.96	154.397	0.84	0.55	0.64	
14599.00	89.720	161.630	7092.49	7384.47	-6709.45	3201.61	1719316.46	14358204.39	39°32'19.3751"N	80°43'12.5320"W	7434.18	154.490	0.36	0.03	-0.36	
14694.00	89.690	160.690	7092.98	7479.47	-6799.36	3232.29	1719347.13	14358114.52	39°32'18.4856"N	80°43'12.1440"W	7528.54	154.574	0.99	-0.03	-0.99	
14789.00	89.480	160.540	7093.67	7574.46	-6888.97	3263.82	1719378.65	14358024.94	39°32'17.5989"N	80°43'11.7451"W	7623.02	154.650	0.27	-0.22	-0.16	
14883.00	89.140	159.590	7094.80	7668.44	-6977.33	3295.87	1719410.68	14357936.62	39°32'16.7247"N	80°43'11.3396"W	7716.60	154.715	1.07	-0.36	-1.01	
14978.00	90.000	160.320	7095.51	7763.41	-7066.57	3328.43	1719443.23	14357847.41	39°32'15.8417"N	80°43'10.9276"W	7811.20	154.779	1.19	0.91	0.77	
15073.00	90.280	162.510	7095.28	7858.41	-7156.61	3358.70	1719473.49	14357757.41	39°32'14.9508"N	80°43'10.5447"W	7905.57	154.859	2.32	0.29	2.31	
15168.00	89.720	161.530	7095.28	7953.39	-7246.97	3388.03	1719502.81	14357667.08	39°32'14.0569"N	80°43'10.1740"W	7999.83	154.943	1.19	-0.59	-1.03	
15262.00	90.250	161.070	7095.31	8047.39	-7336.01	3418.16	1719532.93	14357578.08	39°32'13.1760"N	80°43'9.7929"W	8093.26	155.017	0.75	0.56	-0.49	
15357.00	89.780	160.590	7095.28	8142.39	-7425.74	3449.36	1719564.11	14357488.39	39°32'12.2882"N	80°43'9.3983"W	8187.78	155.084	0.71	-0.49	-0.51	
15452.00	90.250	160.380	7095.26	8237.39	-7515.28	3481.09	1719595.84	14357398.88	39°32'11.4023"N	80°43'8.9968"W	8282.36	155.146	0.54	0.49	-0.22	
15546.00	88.460	161.160	7096.31	8331.37	-7604.03	3512.05	1719626.78	14357310.17	39°32'10.5242"N	80°43'8.6053"W	8375.90	155.209	2.08	-1.90	0.83	
15641.00	89.600	162.130	7097.92	8426.35	-7694.18	3541.96	1719656.68	14357220.05	39°32'9.6323"N	80°43'8.2271"W	8470.29	155.281	1.58	1.20	1.02	
15736.00	89.910	160.800	7098.33	8521.35	-7784.25	3572.16	1719686.87	14357130.02	39°32'8.7412"N	80°43'7.8453"W	8564.74	155.350	1.44	0.33	-1.40	
15830.00	89.630	160.710	7098.71	8615.34	-7872.99	3603.14	1719717.84	14357041.31	39°32'7.8631"N	80°43'7.4534"W	8658.31	155.408	0.31	-0.30	-0.10	
15924.00	89.970	159.980	7099.03	8709.33	-7961.52	3634.76	1719749.44	14356952.82	39°32'6.9873"N	80°43'7.0534"W	8751.98	155.461	0.86	0.36	-0.78	
16019.00	90.220	161.710	7098.88	8804.33	-8051.25	3665.93	1719780.60	14356863.12	39°32'6.0994"N	80°43'6.6591"W	8846.56	155.519	1.84	0.26	1.82	
16113.00	89.660	160.370	7098.97	8898.33	-8140.15	3696.47	1719811.13	14356774.26	39°32'5.2199"N	80°43'6.2729"W	8940.13	155.577	1.55	-0.60	-1.43	
16208.00	89.660	160.670	7099.54	8993.32	-8229.71	3728.15	1719842.80	14356684.73	39°32'4.3337"N	80°43'5.8721"W	9034.78	155.629	0.32	0.00	0.32	





# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Reader Unit 1H
Field	Wetzel		API	47-103-03496-0000
Facility	Furbee Pad		Wellbore	Reader Unit 1H AWB
Slot	Slot D			

## WELLPATH DATA (248 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
16302.00	89.510	160.340	7100.22	9087.31	-8318.32	3759.52	1719874.15	14356596.16	39°32'3.4570"N	80°43'5.4753"W	9128.44	155.679	0.39	-0.16	-0.35	
16397.00	89.260	161.030	7101.24	9182.30	-8407.97	3790.94	1719905.56	14356506.55	39°32'2.5701"N	80°43'5.0779"W	9223.08	155.731	0.77	-0.26	0.73	
16491.00	89.820	160.570	7101.99	9276.30	-8496.73	3821.85	1719936.46	14356417.82	39°32'1.6918"N	80°43'4.6869"W	9316.71	155.782	0.77	0.60	-0.49	
16586.00	89.970	160.150	7102.17	9371.29	-8586.21	3853.78	1719968.38	14356328.38	39°32'0.8065"N	80°43'4.2829"W	9411.41	155.828	0.47	0.16	-0.44	
16681.00	90.220	160.740	7102.01	9466.28	-8675.73	3885.58	1720000.16	14356238.89	39°31'59.9208"N	80°43'3.8807"W	9506.10	155.874	0.67	0.26	0.62	
16775.00	90.150	160.440	7101.71	9560.28	-8764.38	3916.82	1720031.39	14356150.27	39°31'59.0436"N	80°43'3.4856"W	9599.79	155.920	0.33	-0.07	-0.32	
16870.00	89.850	159.390	7101.71	9655.26	-8853.61	3949.44	1720064.00	14356061.09	39°31'58.1608"N	80°43'3.0728"W	9694.56	155.959	1.15	-0.32	-1.11	
16965.00	90.430	160.880	7101.47	9750.24	-8942.95	3981.72	1720096.27	14355971.78	39°31'57.2768"N	80°43'2.6644"W	9789.30	156.000	1.68	0.61	1.57	
17059.00	90.220	161.350	7100.94	9844.24	-9031.89	4012.15	1720126.68	14355882.87	39°31'56.3968"N	80°43'2.2796"W	9882.93	156.048	0.55	-0.22	0.50	
17154.00	90.120	160.890	7100.66	9939.24	-9121.78	4042.89	1720157.41	14355793.02	39°31'55.5075"N	80°43'1.8909"W	9977.56	156.096	0.50	-0.11	-0.48	
17249.00	89.910	160.410	7100.63	10034.23	-9211.41	4074.36	1720188.87	14355703.42	39°31'54.6207"N	80°43'1.4928"W	10072.26	156.139	0.55	-0.22	-0.51	
17343.00	91.200	161.000	7099.72	10128.22	-9300.12	4105.42	1720219.92	14355614.75	39°31'53.7429"N	80°43'1.0999"W	10165.96	156.182	1.51	1.37	0.63	
17438.00	91.170	162.110	7097.76	10223.20	-9390.22	4135.47	1720249.96	14355524.68	39°31'52.8515"N	80°43'0.7200"W	10260.53	156.231	1.17	-0.03	1.17	
17532.00	90.180	160.960	7096.65	10317.19	-9479.37	4165.24	1720279.71	14355435.57	39°31'51.9695"N	80°43'0.3437"W	10354.12	156.279	1.61	-1.05	-1.22	
17627.00	89.380	160.210	7097.02	10412.18	-9568.97	4196.82	1720311.28	14355346.00	39°31'51.0830"N	80°42'59.9443"W	10448.85	156.318	1.15	-0.84	-0.79	
17722.00	89.690	160.830	7097.79	10507.17	-9658.53	4228.50	1720342.95	14355256.48	39°31'50.1969"N	80°42'59.5436"W	10543.59	156.356	0.73	0.33	0.65	
17816.00	89.660	159.420	7098.32	10601.15	-9746.93	4260.45	1720374.89	14355168.12	39°31'49.3222"N	80°42'59.1393"W	10637.39	156.389	1.50	-0.03	-1.50	
17911.00	88.830	159.800	7099.57	10696.11	-9835.96	4293.55	1720407.97	14355079.12	39°31'48.4412"N	80°42'58.7205"W	10732.23	156.418	0.96	-0.87	0.40	
18005.00	90.310	160.510	7100.28	10790.09	-9924.38	4325.46	1720439.87	14354990.74	39°31'47.5664"N	80°42'58.3169"W	10826.03	156.450	1.75	1.57	0.76	
18100.00	90.460	161.770	7099.64	10885.09	-10014.27	4356.17	1720470.56	14354900.88	39°31'46.6770"N	80°42'57.9286"W	10920.71	156.491	1.34	0.16	1.33	
18195.00	90.370	160.440	7098.95	10980.08	-10104.15	4386.93	1720501.32	14354811.04	39°31'45.7878"N	80°42'57.5396"W	11015.40	156.531	1.40	-0.09	-1.40	
18289.00	90.030	160.100	7098.62	11074.07	-10192.63	4418.66	1720533.04	14354722.59	39°31'44.9123"N	80°42'57.1382"W	11109.20	156.563	0.51	-0.36	-0.36	
18384.00	90.280	161.200	7098.37	11169.07	-10282.26	4450.14	1720564.50	14354632.99	39°31'44.0255"N	80°42'56.7401"W	11203.96	156.597	1.19	0.26	1.16	
18478.00	89.750	161.740	7098.34	11263.06	-10371.39	4480.01	1720594.36	14354543.90	39°31'43.1437"N	80°42'56.3624"W	11297.62	156.638	0.80	-0.56	0.57	
18573.00	89.630	161.540	7098.86	11358.06	-10461.55	4509.94	1720624.27	14354453.78	39°31'42.2516"N	80°42'55.9842"W	11392.26	156.679	0.25	-0.13	-0.21	
18667.00	89.600	160.870	7099.49	11452.06	-10550.54	4540.22	1720654.54	14354364.83	39°31'41.3712"N	80°42'55.6013"W	11485.96	156.716	0.71	-0.03	-0.71	
18762.00	89.600	159.970	7100.15	11547.05	-10640.04	4572.06	1720686.37	14354275.36	39°31'40.4856"N	80°42'55.1986"W	11580.76	156.747	0.95	0.00	-0.95	
18856.00	89.480	160.750	7100.91	11641.03	-10728.57	4603.65	1720717.95	14354186.87	39°31'39.6097"N	80°42'54.7990"W	11674.58	156.776	0.84	-0.13	0.83	
18951.00	89.630	160.940	7101.64	11736.03	-10818.30	4634.82	1720749.11	14354097.16	39°31'38.7218"N	80°42'54.4049"W	11769.34	156.809	0.25	0.16	0.20	
19046.00	89.110	160.890	7102.69	11831.02	-10908.08	4665.88	1720780.15	14354007.43	39°31'37.8336"N	80°42'54.0121"W	11864.09	156.841	0.55	-0.55	-0.05	



**Actual Wellpath Report**  
Reader Unit 1H AWP Proj: 22522'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Reader Unit 1H
Field	Wetzel		API	47-103-03496-0000
Facility	Furbee Pad		Wellbore	Reader Unit 1H AWB
Slot	Slot D			

WELLPATH DATA (248 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
19140.00	89.350	161.260	7103.95	11925.01	-10996.99	4696.36	1720810.63	14353918.55	39°31'36.9539"N	80°42'53.6267"W	11957.82	156.875	0.47	0.26	0.39	
19235.00	89.020	160.700	7105.30	12020.00	-11086.79	4727.32	1720841.57	14353828.78	39°31'36.0654"N	80°42'53.2352"W	12052.57	156.907	0.68	-0.35	-0.59	
19329.00	89.140	160.830	7106.81	12113.99	-11175.53	4758.28	1720872.52	14353740.08	39°31'35.1874"N	80°42'52.8437"W	12146.35	156.937	0.19	0.13	0.14	
19424.00	89.110	161.280	7108.26	12208.98	-11265.38	4789.12	1720903.35	14353650.27	39°31'34.2985"N	80°42'52.4538"W	12241.09	156.969	0.47	-0.03	0.47	
19519.00	89.750	161.610	7109.21	12303.97	-11355.43	4819.35	1720933.57	14353560.25	39°31'33.4075"N	80°42'52.0716"W	12335.80	157.003	0.76	0.67	0.35	
19613.00	88.830	160.790	7110.37	12397.96	-11444.41	4849.64	1720963.84	14353471.31	39°31'32.5272"N	80°42'51.6887"W	12429.54	157.035	1.31	-0.98	-0.87	
19708.00	89.510	161.120	7111.75	12492.95	-11534.20	4880.64	1720994.83	14353381.55	39°31'31.6388"N	80°42'51.2968"W	12524.31	157.065	0.80	0.72	0.35	
19803.00	89.290	161.430	7112.74	12587.95	-11624.16	4911.13	1721025.31	14353291.62	39°31'30.7486"N	80°42'50.9113"W	12619.05	157.096	0.40	-0.23	0.33	
19898.00	89.600	161.870	7113.66	12682.94	-11714.33	4941.04	1721055.21	14353201.49	39°31'29.8566"N	80°42'50.5333"W	12713.75	157.130	0.57	0.33	0.46	
19993.00	89.850	161.730	7114.12	12777.93	-11804.58	4970.71	1721084.87	14353111.28	39°31'28.9637"N	80°42'50.1583"W	12808.43	157.165	0.30	0.26	-0.15	
20087.00	89.660	161.500	7114.52	12871.92	-11893.78	5000.36	1721114.50	14353022.12	39°31'28.0812"N	80°42'49.7836"W	12902.15	157.197	0.32	-0.20	-0.24	
20182.00	89.720	162.140	7115.04	12966.92	-11984.03	5030.00	1721144.13	14352931.90	39°31'27.1882"N	80°42'49.4090"W	12996.84	157.231	0.68	0.06	0.67	
20277.00	89.570	161.720	7115.62	13061.90	-12074.35	5059.47	1721173.58	14352841.62	39°31'26.2947"N	80°42'49.0366"W	13091.52	157.265	0.47	-0.16	-0.44	
20372.00	89.230	161.520	7116.62	13156.89	-12164.49	5089.42	1721203.53	14352751.51	39°31'25.4028"N	80°42'48.6581"W	13186.25	157.296	0.42	-0.36	-0.21	
20466.00	89.140	161.180	7117.96	13250.88	-12253.55	5119.48	1721233.57	14352662.49	39°31'24.5217"N	80°42'48.2781"W	13280.00	157.325	0.37	-0.10	-0.36	
20561.00	89.200	160.570	7119.33	13345.87	-12343.30	5150.60	1721264.68	14352572.78	39°31'23.6338"N	80°42'47.8846"W	13374.81	157.350	0.65	0.06	-0.64	
20655.00	89.200	161.060	7120.64	13439.86	-12432.07	5181.48	1721295.56	14352484.04	39°31'22.7555"N	80°42'47.4941"W	13468.63	157.374	0.52	0.00	0.52	
20750.00	89.230	161.130	7121.95	13534.85	-12521.93	5212.26	1721326.32	14352394.21	39°31'21.8663"N	80°42'47.1050"W	13563.42	157.400	0.08	0.03	0.07	
20845.00	89.510	160.900	7122.99	13629.85	-12611.76	5243.16	1721357.21	14352304.42	39°31'20.9775"N	80°42'46.7143"W	13658.23	157.426	0.38	0.29	-0.24	
20939.00	89.420	161.030	7123.87	13723.84	-12700.62	5273.82	1721387.86	14352215.60	39°31'20.0984"N	80°42'46.3267"W	13752.05	157.450	0.17	-0.10	0.14	
21034.00	89.510	160.990	7124.76	13818.84	-12790.44	5304.73	1721418.76	14352125.81	39°31'19.2096"N	80°42'45.9359"W	13846.86	157.474	0.10	0.09	-0.04	
21129.00	89.720	161.490	7125.39	13913.84	-12880.39	5335.28	1721449.30	14352035.89	39°31'18.3197"N	80°42'45.5497"W	13941.66	157.500	0.57	0.22	0.53	
21223.00	89.630	160.730	7125.93	14007.83	-12969.33	5365.72	1721479.72	14351946.99	39°31'17.4397"N	80°42'45.1650"W	14035.47	157.524	0.81	-0.10	-0.81	
21318.00	89.820	161.230	7126.38	14102.83	-13059.14	5396.68	1721510.66	14351857.21	39°31'16.5511"N	80°42'44.7736"W	14130.30	157.547	0.56	0.20	0.53	
21413.00	89.660	161.120	7126.81	14197.83	-13149.06	5427.33	1721541.30	14351767.33	39°31'15.6615"N	80°42'44.3861"W	14225.11	157.571	0.20	-0.17	-0.12	
21507.00	89.720	160.920	7127.32	14291.83	-13237.95	5457.90	1721571.86	14351678.48	39°31'14.7820"N	80°42'43.9996"W	14318.93	157.594	0.22	0.06	-0.21	
21602.00	89.780	161.100	7127.74	14386.83	-13327.77	5488.82	1721602.77	14351588.69	39°31'13.8932"N	80°42'43.6088"W	14413.77	157.617	0.20	0.06	0.19	
21696.00	89.510	160.700	7128.32	14480.83	-13416.60	5519.57	1721633.51	14351499.90	39°31'13.0144"N	80°42'43.2200"W	14507.61	157.638	0.51	-0.29	-0.43	
21791.00	89.780	161.220	7128.91	14575.82	-13506.40	5550.56	1721664.49	14351410.13	39°31'12.1259"N	80°42'42.8282"W	14602.45	157.659	0.62	0.28	0.55	
21886.00	89.720	161.210	7129.32	14670.82	-13596.34	5581.16	1721695.07	14351320.23	39°31'11.2360"N	80°42'42.4415"W	14697.27	157.682	0.06	-0.06	-0.01	



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'  
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**REFERENCE WELLPATH IDENTIFICATION**

Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 1H
Field	Wetzel	API	47-103-03496-0000
Facility	Furbee Pad	Wellbore	Reader Unit 1H AWB
Slot	Slot D		

**WELLPATH DATA (248 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
21980.00	89.850	161.250	7129.68	14764.82	-13685.34	5611.40	1721725.30	14351231.27	39°31'10.3555"N	80°42'42.0592"W	14791.09	157.705	0.14	0.14	0.04	
22074.00	89.750	161.060	7130.00	14858.82	-13774.30	5641.76	1721755.65	14351142.34	39°31'9.4753"N	80°42'41.6754"W	14884.92	157.727	0.23	-0.11	-0.20	
22169.00	89.630	161.150	7130.52	14953.82	-13864.18	5672.53	1721786.41	14351052.50	39°31'8.5860"N	80°42'41.2865"W	14979.75	157.748	0.16	-0.13	0.09	
22263.00	89.720	161.930	7131.05	15047.81	-13953.34	5702.29	1721816.16	14350963.37	39°31'7.7039"N	80°42'40.9104"W	15073.55	157.772	0.84	0.10	0.83	
22358.00	89.450	160.790	7131.74	15142.81	-14043.35	5732.65	1721846.51	14350873.39	39°31'6.8133"N	80°42'40.5266"W	15168.36	157.794	1.23	-0.28	-1.20	
22452.00	89.690	161.240	7132.44	15236.81	-14132.23	5763.23	1721877.08	14350784.54	39°31'5.9339"N	80°42'40.1401"W	15262.21	157.814	0.54	0.26	0.48	
22497.00	89.750	161.160	7132.66	15281.81	-14174.83	5777.74	1721891.57	14350741.96	39°31'5.5124"N	80°42'39.9568"W	15307.13	157.824	0.22	0.13	-0.18	
22522.00‡	89.750	161.160	7132.77	15306.81	-14198.49	5785.81	1721899.64	14350718.31	39°31'5.2783"N	80°42'39.8547"W	15332.08	157.829	0.00	0.00	0.00	Projected MD at TD: 22522'

**HOLE & CASING SECTIONS - Ref Wellbore: Reader Unit 1H AWB Ref Wellpath: Reader Unit 1H AWP Proj: 22522'**

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	129.99	0.00	0.00	0.14	-1.25
17.5in Open Hole	130.00	679.00	549.00	129.99	678.96	0.14	-1.25	0.15	-2.90
13.375in Casing Surface	30.00	650.00	620.00	30.00	649.96	0.00	0.00	-0.01	-3.25
12.25in Open Hole	679.00	3490.00	2811.00	678.96	3459.58	0.15	-2.90	206.79	183.63
9.625in Casing Intermediate	30.00	3460.00	3430.00	30.00	3430.44	0.00	0.00	200.57	180.09
8.75in Open Hole	3490.00	6321.00	2831.00	3459.58	6226.94	206.79	183.63	595.89	624.96
8.5in Open Hole	6321.00	22522.00	16201.00	6226.94	7132.77	595.89	624.96	-14198.49	5785.81
5.5in Casing Production	30.00	22502.00	22472.00	30.00	7132.69	0.00	0.00	-14179.57	5779.35



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 1H
Field	Wetzel	API	47-103-03496-0000
Facility	Furbee Pad	Wellbore	Reader Unit 1H AWB
Slot	Slot D		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Reader Unit 1H POE Rev-2	7025.00	164.97	884.60	1717000.37	14365076.09	39°33'27.3867"N	80°43'41.8408"W	point
Reader Unit 1H LP Rev-2	7053.00	-19.14	947.58	1717063.32	14364892.05	39°33'25.5652"N	80°43'41.0439"W	point
Reader Unit 1H BHL Rev-2	7131.32	-14171.50	5788.77	1721902.60	14350745.29	39°31'5.5449"N	80°42'39.8158"W	point
Reader Unit 1H 50' L/R Hard Line	7250.00	-7003.27	3336.69	1719451.49	14357910.69	39°32'16.4670"N	80°43'10.8196"W	rectangle
2D Rectangle 15152.1 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Reader Unit 1H AWB Ref Wellpath: Reader Unit 1H AWP Proj: 22522'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	563.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-563')	Reader Unit 1H AWB	9/14/2022
563.00	3412.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (563')(688'-3412')	Reader Unit 1H AWB	9/14/2022
3412.00	6248.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3412')(3502'-6248')	Reader Unit 1H AWB	10/8/2022
6248.00	22522.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6248')(6306'-22497')	Reader Unit 1H AWB	10/8/2022



# Actual Wellpath Report

Reader Unit 1H AWP Proj: 22522'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 1H
Field	Wetzel	API	47-103-03496-0000
Facility	Furbee Pad	Wellbore	Reader Unit 1H AWB
Slot	Slot D		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-103-03496-0000            BH Job #: 111490464            Rig: H&amp;P 519            Duration: 10/11/2022-10/16/2022            Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-563')            APS EM &lt;12-1/4"&gt; (563')(688'-3412')            APS EM &lt;8-3/4"&gt; (3412')(3502'-6248')            BH AT Curve &lt;8-1/2"&gt; (6248')(6306'-22497')            Sycamore: 6805' MD            Middlesex: 6967' MD            Burkett: 7120' MD            Tully: 7175' MD            Hamilton: 7271' MD            Marcellus POE: 7378' MD            Projected MD at TD: 22522'</p>

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 Office of Oil and Gas  
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 WV Department of  
 Environmental Protection