



ANTERO RESOURCES CORPORATION

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

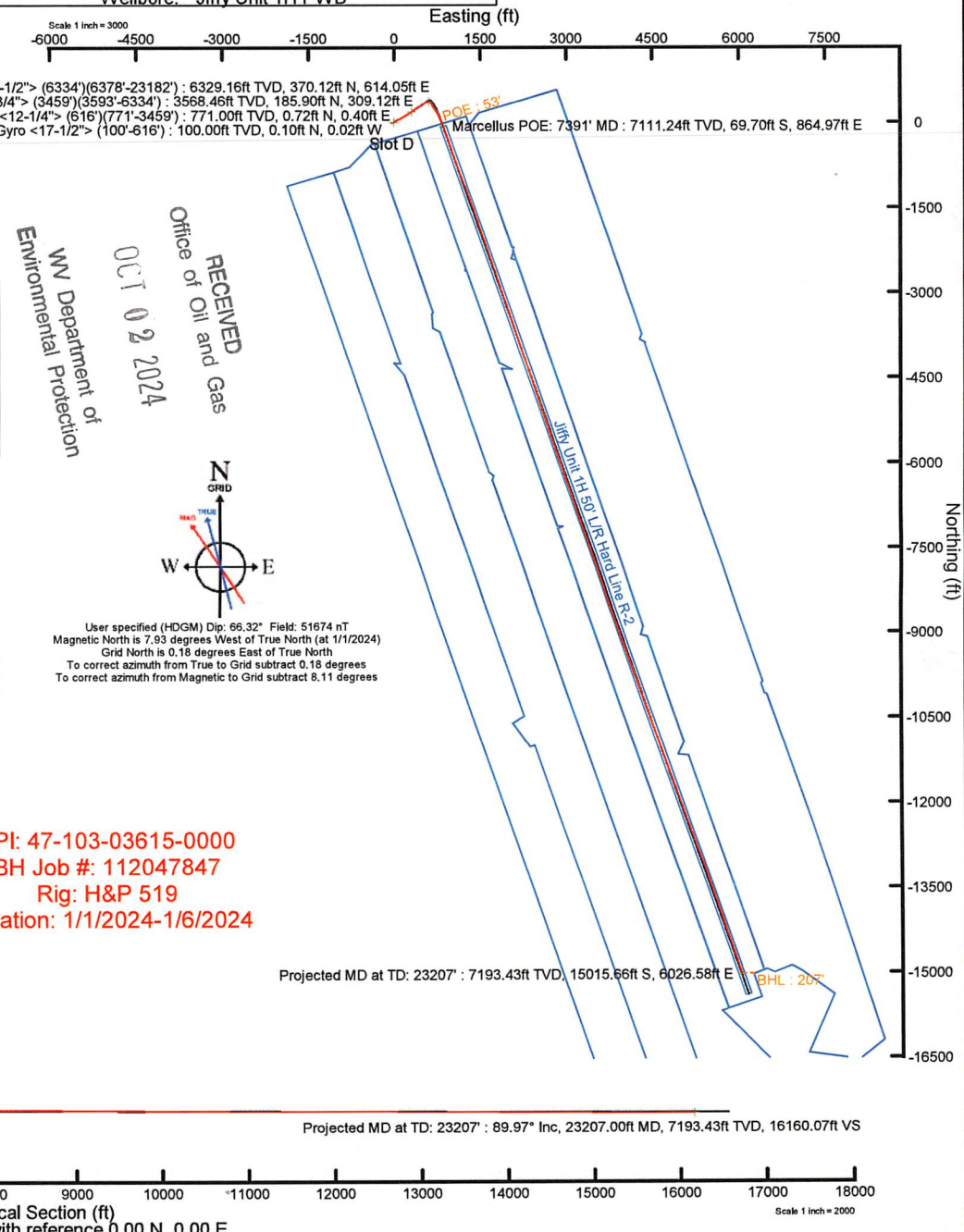
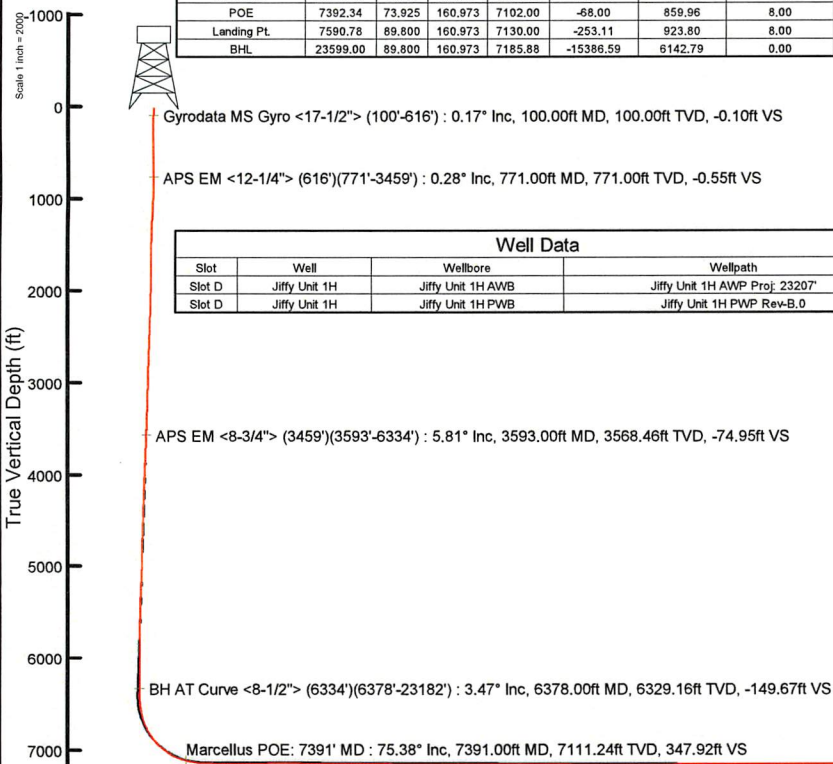
Slot: Slot D
Well: Jiffy Unit 1H
Wellbore: Jiffy Unit 1H PWB



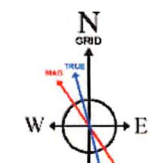
Plot reference wellpath is Jiffy Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1280 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot D): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2024-01-24; Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Cedar Pad	1721002.500	14368725.810	39°34'3.3492"N	80°42'50.5764"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot D	8.15	44.24	1721046.720	14368733.960	39°34'3.4284"N
Comment	Jiffy Unit 1H				
H&P 519 (RKB) to Ground level (At Slot: Slot D)					30ft
Mean Sea Level to Ground level (At Slot: Slot D)					-1250ft
H&P 519 (RKB) to Mean Sea Level					1280ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	3459.00	6.810	54.440	3435.27	177.22	297.23	0.24	-70.62
Proj. to Bottom	3532.00	6.810	54.440	3507.76	182.25	304.27	0.00	-73.08
Drill Out	3612.00	6.810	54.440	3587.20	187.77	311.99	0.00	-75.78
End of 3D Arc	3654.36	7.639	55.826	3629.22	190.81	316.36	2.00	-77.23
Curve KOP	6441.70	7.639	55.826	6391.83	398.94	622.91	0.00	-174.03
POE	7392.34	73.925	160.973	7102.00	-68.00	859.96	8.00	344.68
Landing Pt.	7590.78	89.800	160.973	7130.00	-253.11	923.80	8.00	540.50
BHL	23599.00	89.800	160.973	7185.88	-15386.59	6142.79	0.00	16548.62



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User specified (HDGM) Dip: 66.32° Field: 51674 nT
Magnetic North is 7.93 degrees West of True North (at 1/1/2024)
Grid North is 0.18 degrees East of True North
To correct azimuth from True to Grid subtract 0.18 degrees
To correct azimuth from Magnetic to Grid subtract 8.11 degrees

API: 47-103-03615-0000
BH Job #: 112047847
Rig: H&P 519
Duration: 1/1/2024-1/6/2024

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



Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy 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	1/24/2024 at 1:55:08 PM
Convergence at slot	0.18° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	8.15	44.24	1721046.72	14368733.96	39°34'3.4284"N	80°42'50.0112"W
Facility Reference Pt			1721002.50	14368725.81	39°34'3.3492"N	80°42'50.5764"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1280.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1280.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot 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	160.97°

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Jiffy Unit 1H AWP Proj: 23207'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (251 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	346.750	0.00	0.00	0.00	0.00	1721046.72	14368733.96	39°34'3.4284"N	80°42'50.0112"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	346.750	30.00	0.00	0.00	0.00	1721046.72	14368733.96	39°34'3.4284"N	80°42'50.0112"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.170	346.750	100.00	-0.10	0.10	-0.02	1721046.70	14368734.06	39°34'3.4294"N	80°42'50.0115"W	0.10	346.750	0.24	0.24	0.00	Gyrodata MS Gyro <17-1/2"> (100'-616')
200.00	0.090	270.550	200.00	-0.28	0.25	-0.14	1721046.58	14368734.21	39°34'3.4308"N	80°42'50.0129"W	0.28	331.027	0.17	-0.08	-76.20	
300.00	0.050	64.360	300.00	-0.31	0.27	-0.18	1721046.54	14368734.23	39°34'3.4310"N	80°42'50.0134"W	0.32	326.566	0.14	-0.04	153.81	
400.00	0.130	100.630	400.00	-0.26	0.26	-0.02	1721046.70	14368734.22	39°34'3.4310"N	80°42'50.0115"W	0.26	354.651	0.09	0.08	36.27	
500.00	0.030	310.730	500.00	-0.22	0.26	0.07	1721046.79	14368734.22	39°34'3.4310"N	80°42'50.0103"W	0.27	14.442	0.16	-0.10	-149.90	
600.00	0.060	47.230	600.00	-0.27	0.31	0.09	1721046.81	14368734.27	39°34'3.4315"N	80°42'50.0101"W	0.32	15.305	0.07	0.03	96.50	
616.00	0.150	354.490	616.00	-0.29	0.34	0.09	1721046.81	14368734.30	39°34'3.4318"N	80°42'50.0100"W	0.35	14.813	0.77	0.56	-329.62	
771.00	0.280	61.330	771.00	-0.55	0.72	0.40	1721047.12	14368734.68	39°34'3.4355"N	80°42'50.0060"W	0.83	29.112	0.17	0.08	43.12	APS EM <12-1/4"> (616')(771'-3459')
861.00	2.010	37.110	860.98	-1.47	2.09	1.55	1721048.27	14368736.05	39°34'3.4490"N	80°42'49.9913"W	2.60	36.561	1.95	1.92	-26.91	
951.00	3.860	38.010	950.86	-4.00	5.73	4.37	1721051.08	14368739.69	39°34'3.4849"N	80°42'49.9552"W	7.21	37.290	2.06	2.06	1.00	
1042.00	5.550	47.840	1041.55	-7.39	11.10	9.51	1721056.23	14368745.06	39°34'3.5378"N	80°42'49.8892"W	14.62	40.601	2.05	1.86	10.80	
1136.00	7.220	57.080	1134.96	-10.60	17.36	17.84	1721064.56	14368751.32	39°34'3.5994"N	80°42'49.7826"W	24.90	45.783	2.08	1.78	9.83	
1230.00	7.840	60.590	1228.15	-13.17	23.72	28.39	1721075.10	14368757.67	39°34'3.6620"N	80°42'49.6477"W	36.99	50.117	0.82	0.66	3.73	
1325.00	7.510	59.330	1322.30	-15.59	30.07	39.37	1721086.08	14368764.02	39°34'3.7244"N	80°42'49.5072"W	49.54	52.629	0.39	-0.35	-1.33	
1420.00	7.250	56.710	1416.51	-18.32	36.53	49.72	1721096.42	14368770.47	39°34'3.7878"N	80°42'49.3748"W	61.70	53.698	0.45	-0.27	-2.76	
1514.00	7.650	63.640	1509.72	-20.58	42.56	60.29	1721106.98	14368776.50	39°34'3.8471"N	80°42'49.2396"W	73.80	54.779	1.05	0.43	7.37	
1703.00	7.820	69.090	1697.01	-22.60	52.73	83.57	1721130.26	14368786.67	39°34'3.9470"N	80°42'48.9419"W	98.82	57.747	0.40	0.09	2.88	
1798.00	7.440	66.620	1791.16	-23.28	57.48	95.25	1721141.93	14368791.42	39°34'3.9935"N	80°42'48.7925"W	111.25	58.890	0.53	-0.40	-2.60	
1892.00	7.320	65.040	1884.39	-24.36	62.42	106.27	1721152.95	14368796.36	39°34'4.0420"N	80°42'48.6517"W	123.25	59.569	0.25	-0.13	-1.68	
1986.00	7.020	61.990	1977.65	-25.88	67.65	116.77	1721163.44	14368801.58	39°34'4.0933"N	80°42'48.5174"W	134.95	59.914	0.52	-0.32	-3.24	
2081.00	8.690	63.400	2071.76	-27.73	73.59	128.31	1721174.98	14368807.52	39°34'4.1517"N	80°42'48.3698"W	147.92	60.165	1.77	1.76	1.48	
2176.00	9.230	60.370	2165.60	-30.08	80.57	141.35	1721188.02	14368814.50	39°34'4.2202"N	80°42'48.2030"W	162.70	60.317	0.75	0.57	-3.19	
2270.00	9.090	61.370	2258.40	-32.70	87.85	154.42	1721201.08	14368821.78	39°34'4.2918"N	80°42'48.0358"W	177.66	60.363	0.23	-0.15	1.06	
2365.00	9.150	60.440	2352.20	-35.33	95.18	167.58	1721214.23	14368829.10	39°34'4.3638"N	80°42'47.8675"W	192.72	60.406	0.17	0.06	-0.98	
2553.00	8.870	55.900	2537.88	-41.83	110.68	192.58	1721239.23	14368844.59	39°34'4.5162"N	80°42'47.5476"W	222.12	60.114	0.41	-0.15	-2.41	
2648.00	8.700	53.130	2631.77	-45.94	119.09	204.40	1721251.04	14368853.01	39°34'4.5990"N	80°42'47.3964"W	236.56	59.772	0.48	-0.18	-2.92	
2742.00	7.820	57.810	2724.79	-49.57	126.77	215.50	1721262.13	14368860.68	39°34'4.6745"N	80°42'47.2543"W	250.02	59.534	1.18	-0.94	4.98	
2837.00	8.170	50.990	2818.87	-53.35	134.46	226.21	1721272.84	14368868.37	39°34'4.7502"N	80°42'47.1172"W	263.15	59.273	1.06	0.37	-7.18	

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Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (251 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
2932.00	8.100	61.980	2912.92	-56.70	141.85	237.36	1721283.99	14368875.76	39°34'4.8229"N	80°42'46.9745"W	276.52	59.137	1.64	-0.07	11.57	
3027.00	8.280	63.460	3006.95	-58.64	148.05	249.39	1721296.01	14368881.95	39°34'4.8838"N	80°42'46.8206"W	290.03	59.304	0.29	0.19	1.56	
3121.00	8.020	61.500	3100.00	-60.61	154.21	261.21	1721307.83	14368888.11	39°34'4.9442"N	80°42'46.6695"W	303.33	59.444	0.40	-0.28	-2.09	
3215.00	7.550	59.170	3193.14	-62.95	160.50	272.28	1721318.89	14368894.40	39°34'5.0061"N	80°42'46.5279"W	316.06	59.482	0.60	-0.50	-2.48	
3310.00	7.170	57.060	3287.35	-65.65	166.92	282.61	1721329.22	14368900.82	39°34'5.0692"N	80°42'46.3957"W	328.23	59.432	0.49	-0.40	-2.22	
3405.00	6.750	53.480	3381.65	-68.75	173.47	292.07	1721338.68	14368907.36	39°34'5.1336"N	80°42'46.2746"W	339.70	59.293	0.64	-0.44	-3.77	
3459.00	6.810	54.440	3435.27	-70.62	177.22	297.23	1721343.83	14368911.11	39°34'5.1705"N	80°42'46.2086"W	346.05	59.195	0.24	0.11	1.78	
3593.00	5.810	53.230	3568.46	-74.95	185.90	309.12	1721355.72	14368919.79	39°34'5.2560"N	80°42'46.0564"W	360.72	58.978	0.75	-0.75	-0.90	APS EM <-8-3/4"> (3459')(3593'-6334')
3687.00	7.920	55.260	3661.78	-78.15	192.44	318.26	1721364.85	14368926.32	39°34'5.3203"N	80°42'45.9395"W	371.92	58.840	2.26	2.24	2.16	
3782.00	8.250	55.770	3755.84	-81.71	200.00	329.27	1721375.86	14368933.88	39°34'5.3947"N	80°42'45.7985"W	385.26	58.725	0.36	0.35	0.54	
3876.00	7.650	52.720	3848.93	-85.44	207.59	339.83	1721386.41	14368941.46	39°34'5.4693"N	80°42'45.6634"W	398.21	58.581	0.78	-0.64	-3.24	
3970.00	9.930	56.730	3941.83	-89.39	215.82	351.58	1721398.16	14368949.70	39°34'5.5504"N	80°42'45.5130"W	412.54	58.456	2.51	2.43	4.27	
4065.00	10.160	57.130	4035.37	-93.41	224.86	365.47	1721412.05	14368958.74	39°34'5.6393"N	80°42'45.3353"W	429.11	58.397	0.25	0.24	0.42	
4160.00	9.540	53.740	4128.97	-97.75	234.07	378.86	1721425.43	14368967.94	39°34'5.7298"N	80°42'45.1640"W	445.33	58.291	0.89	-0.65	-3.57	
4254.00	8.970	52.080	4221.75	-102.43	243.18	390.92	1721437.48	14368977.04	39°34'5.8195"N	80°42'45.0096"W	460.38	58.115	0.67	-0.61	-1.77	
4349.00	9.420	60.040	4315.53	-106.30	251.61	403.50	1721450.06	14368985.47	39°34'5.9024"N	80°42'44.8486"W	475.52	58.053	1.42	0.47	8.38	
4443.00	9.450	59.000	4408.26	-109.36	259.43	416.77	1721463.33	14368993.29	39°34'5.9793"N	80°42'44.6788"W	490.92	58.099	0.18	0.03	-1.11	
4538.00	9.120	57.310	4502.01	-112.75	267.51	429.80	1721476.35	14369001.37	39°34'6.0587"N	80°42'44.5121"W	506.25	58.101	0.45	-0.35	-1.78	
4632.00	8.080	51.480	4594.96	-116.72	275.65	441.24	1721487.78	14369009.50	39°34'6.1388"N	80°42'44.3658"W	520.26	58.006	1.44	-1.11	-6.20	
4726.00	8.240	63.440	4688.01	-119.80	282.78	452.43	1721498.97	14369016.63	39°34'6.2089"N	80°42'44.2225"W	533.53	57.994	1.81	0.17	12.72	
4821.00	7.410	65.290	4782.13	-121.30	288.38	464.08	1721510.62	14369022.23	39°34'6.2639"N	80°42'44.0735"W	546.39	58.143	0.91	-0.87	1.95	
4916.00	7.090	60.610	4876.37	-122.96	293.82	474.76	1721521.29	14369027.66	39°34'6.3173"N	80°42'43.9370"W	558.32	58.247	0.71	-0.34	-4.93	
5010.00	5.880	60.210	4969.76	-124.90	299.06	483.99	1721530.52	14369032.90	39°34'6.3688"N	80°42'43.8188"W	568.93	58.288	1.29	-1.29	-0.43	
5105.00	7.440	53.190	5064.12	-127.69	305.16	493.14	1721539.66	14369039.00	39°34'6.4288"N	80°42'43.7018"W	579.92	58.250	1.85	1.64	-7.39	
5199.00	7.180	48.510	5157.36	-131.79	312.70	502.41	1721548.93	14369046.54	39°34'6.5031"N	80°42'43.5831"W	591.78	58.102	0.69	-0.28	-4.98	
5293.00	6.330	46.000	5250.70	-136.23	320.19	510.54	1721557.06	14369054.03	39°34'6.5768"N	80°42'43.4790"W	602.64	57.906	0.96	-0.90	-2.67	
5388.00	5.630	49.730	5345.19	-140.12	326.84	517.86	1721564.38	14369060.67	39°34'6.6423"N	80°42'43.3852"W	612.38	57.742	0.84	-0.74	3.93	
5482.00	6.960	59.950	5438.62	-142.88	332.68	526.31	1721572.82	14369066.50	39°34'6.6997"N	80°42'43.2771"W	622.64	57.703	1.84	1.41	10.87	
5577.00	6.340	55.760	5532.98	-145.36	338.51	535.63	1721582.14	14369072.34	39°34'6.7571"N	80°42'43.1578"W	633.63	57.708	0.83	-0.65	-4.41	
5672.00	5.680	37.940	5627.47	-149.30	345.17	542.86	1721589.36	14369078.99	39°34'6.8227"N	80°42'43.0653"W	643.30	57.550	2.07	-0.69	-18.76	

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Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (251 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
5767.00	6.210	75.000	5721.99	-151.50	350.21	550.71	1721597.22	14369084.03	39°34'6.8722"N	80°42'42.9647"W	652.63	57.547	4.01	0.56	39.01	
5861.00	8.260	77.970	5815.24	-150.32	352.93	562.23	1721608.73	14369086.75	39°34'6.8988"N	80°42'42.8176"W	663.83	57.882	2.22	2.18	3.16	
5955.00	7.650	72.750	5908.33	-149.30	356.19	574.81	1721621.30	14369090.01	39°34'6.9306"N	80°42'42.6568"W	676.23	58.215	1.01	-0.65	-5.55	
6050.00	7.130	71.900	6002.54	-149.01	359.90	586.45	1721632.94	14369093.72	39°34'6.9669"N	80°42'42.5080"W	688.08	58.463	0.56	-0.55	-0.89	
6145.00	5.960	69.180	6096.92	-149.07	363.49	596.67	1721643.15	14369097.30	39°34'7.0020"N	80°42'42.3774"W	698.67	58.650	1.27	-1.23	-2.86	
6239.00	4.790	68.270	6190.51	-149.41	366.67	604.88	1721651.36	14369100.49	39°34'7.0332"N	80°42'42.2725"W	707.34	58.776	1.25	-1.24	-0.97	
6334.00	3.720	69.970	6285.25	-149.65	369.20	611.46	1721657.93	14369103.01	39°34'7.0580"N	80°42'42.1883"W	714.27	58.876	1.13	-1.13	1.79	
6378.00	3.470	70.920	6329.16	-149.67	370.12	614.05	1721660.53	14369103.94	39°34'7.0670"N	80°42'42.1551"W	716.98	58.920	0.58	-0.57	2.16	BH AT Curve <8-1/2"> (6334')(6378'-23182')
6456.00	0.940	84.330	6407.10	-149.53	370.96	616.92	1721663.40	14369104.77	39°34'7.0752"N	80°42'42.1185"W	719.86	58.981	3.29	-3.24	17.19	
6550.00	10.800	108.390	6500.49	-143.98	368.25	626.07	1721672.54	14369102.06	39°34'7.0481"N	80°42'42.0018"W	726.34	59.536	10.58	10.49	25.60	
6645.00	12.260	131.470	6593.62	-129.79	358.76	642.08	1721688.55	14369092.57	39°34'6.9538"N	80°42'41.7977"W	735.51	60.806	5.05	1.54	24.29	
6739.00	19.770	148.290	6683.95	-105.55	338.58	657.95	1721704.41	14369072.41	39°34'6.7539"N	80°42'41.5959"W	739.96	62.770	9.31	7.99	17.89	
6828.00†	27.182	151.834	6765.54	-70.74	307.81	675.48	1721721.93	14369041.65	39°34'6.4492"N	80°42'41.3733"W	742.31	65.502	8.47	8.33	3.98	Sycamore: 6828' MD
6833.00	27.600	151.980	6769.97	-68.47	305.78	676.56	1721723.02	14369039.62	39°34'6.4292"N	80°42'41.3596"W	742.46	65.679	8.47	8.37	2.91	
6928.00	34.820	148.720	6851.18	-20.16	263.12	701.02	1721747.46	14368996.97	39°34'6.0067"N	80°42'41.0490"W	748.77	69.427	7.80	7.60	-3.43	
6986.00†	40.434	149.243	6897.10	14.47	232.78	719.25	1721765.69	14368966.64	39°34'5.7063"N	80°42'40.8175"W	755.98	72.066	9.70	9.68	0.90	Middlesex: 6986' MD
7022.00	43.920	149.510	6923.77	38.14	211.98	731.56	1721777.99	14368945.86	39°34'5.5003"N	80°42'40.6612"W	761.65	73.840	9.70	9.68	0.74	
7117.00	52.480	150.370	6987.03	107.59	150.72	766.97	1721813.39	14368884.62	39°34'4.8938"N	80°42'40.2115"W	781.64	78.882	9.04	9.01	0.91	
7131.00†	53.158	150.705	6995.49	118.56	141.01	772.46	1721818.87	14368874.92	39°34'4.7977"N	80°42'40.1419"W	785.22	79.655	5.20	4.84	2.39	Burkett: 7131' MD
7183.00†	55.685	151.897	7025.75	160.25	103.92	792.76	1721839.16	14368837.84	39°34'4.4304"N	80°42'39.8841"W	799.54	82.532	5.20	4.86	2.29	Tully: 7183' MD
7211.00	57.050	152.510	7041.25	183.29	83.29	803.63	1721850.03	14368817.22	39°34'4.2262"N	80°42'39.7462"W	807.93	84.083	5.20	4.88	2.19	
7305.00	68.250	159.370	7084.41	266.28	7.14	837.35	1721883.74	14368741.09	39°34'3.4725"N	80°42'39.3187"W	837.38	89.512	13.55	11.91	7.30	
7391.00†	75.376	161.050	7111.24	347.92	-69.70	864.97	1721911.35	14368864.29	39°34'2.7123"N	80°42'38.9691"W	867.78	94.607	8.49	8.29	1.95	Marcellus POE: 7391' MD
7399.00	76.040	161.200	7113.21	355.68	-77.03	867.48	1721913.86	14368856.96	39°34'2.6397"N	80°42'38.9374"W	870.89	95.075	8.49	8.29	1.87	
7493.00	82.470	160.940	7130.73	447.98	-164.34	897.43	1721943.79	14368569.68	39°34'1.7758"N	80°42'38.5586"W	912.35	100.377	6.85	6.84	-0.28	
7588.00	87.720	161.050	7138.85	542.60	-253.80	928.24	1721974.59	14368480.26	39°34'0.8907"N	80°42'38.1688"W	962.31	105.292	5.53	5.53	0.12	
7682.00	89.570	160.640	7141.07	636.57	-342.57	959.07	1722005.41	14368391.53	39°34'0.0124"N	80°42'37.7788"W	1018.42	109.656	2.02	1.97	-0.44	
7776.00	89.480	160.920	7141.85	730.56	-431.33	990.02	1722036.35	14368302.80	39°33'59.1342"N	80°42'37.3873"W	1079.90	113.542	0.31	-0.10	0.30	
7870.00	89.820	161.470	7142.43	824.56	-520.31	1020.32	1722066.63	14368213.86	39°33'58.2538"N	80°42'37.0041"W	1145.32	117.019	0.69	0.36	0.59	
7965.00	89.260	161.060	7143.19	919.55	-610.27	1050.83	1722097.13	14368123.93	39°33'57.3637"N	80°42'36.6182"W	1215.18	120.146	0.73	-0.59	-0.43	

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Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (251 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
8059.00	89.850	161.370	7143.92	1013.55	-699.26	1081.10	1722127.39	14368034.98	39°33'56.4833"N	80°42'36.2354"W	1287.53	122.895	0.71	0.63	0.33	
8153.00	90.280	160.230	7143.81	1107.55	-788.03	1112.01	1722158.29	14367946.24	39°33'55.6050"N	80°42'35.8443"W	1362.92	125.323	1.30	0.46	-1.21	
8247.00	91.750	161.320	7142.15	1201.53	-876.77	1142.96	1722189.23	14367857.54	39°33'54.7269"N	80°42'35.4528"W	1440.51	127.492	1.95	1.56	1.16	
8434.00	89.970	157.490	7139.34	1388.40	-1051.76	1208.71	1722254.96	14367682.62	39°33'52.9954"N	80°42'34.6204"W	1602.24	131.028	2.26	-0.95	-2.05	
8530.00	89.380	157.070	7139.88	1484.19	-1140.31	1245.79	1722292.02	14367594.10	39°33'52.1191"N	80°42'34.1506"W	1688.88	132.469	0.75	-0.61	-0.44	
8624.00	89.170	160.360	7141.07	1578.10	-1227.88	1279.91	1722326.12	14367506.57	39°33'51.2525"N	80°42'33.7186"W	1773.65	133.811	3.51	-0.22	3.50	
8718.00	89.630	160.870	7142.06	1672.09	-1316.54	1311.10	1722357.31	14367417.94	39°33'50.3752"N	80°42'33.3239"W	1858.03	135.119	0.73	0.49	0.54	
8813.00	88.460	160.100	7143.64	1767.07	-1406.07	1342.83	1722389.02	14367328.44	39°33'49.4894"N	80°42'32.9225"W	1944.28	136.318	1.47	-1.23	-0.81	
8907.00	89.570	162.200	7145.26	1861.05	-1495.01	1373.20	1722419.38	14367239.54	39°33'48.6094"N	80°42'32.5385"W	2029.96	137.432	2.53	1.18	2.23	
9001.00	90.550	162.030	7145.16	1955.03	-1584.47	1402.07	1722448.23	14367150.12	39°33'47.7244"N	80°42'32.1736"W	2115.73	138.495	1.06	1.04	-0.18	
9095.00	89.940	161.230	7144.76	2049.03	-1673.67	1431.69	1722477.84	14367060.95	39°33'46.8418"N	80°42'31.7990"W	2202.48	139.456	1.07	-0.65	-0.85	
9190.00	90.120	161.990	7144.71	2144.02	-1763.82	1461.66	1722507.80	14366970.83	39°33'45.9499"N	80°42'31.4201"W	2290.75	140.352	0.82	0.19	0.80	
9284.00	89.910	161.320	7144.68	2238.01	-1853.04	1491.25	1722537.38	14366881.65	39°33'45.0671"N	80°42'31.0460"W	2378.57	141.174	0.75	-0.22	-0.71	
9377.00	89.720	161.400	7144.98	2331.01	-1941.17	1520.97	1722567.09	14366793.56	39°33'44.1952"N	80°42'30.6701"W	2466.06	141.920	0.22	-0.20	0.09	
9471.00	88.520	160.640	7146.43	2425.00	-2030.04	1551.54	1722597.65	14366704.72	39°33'43.3159"N	80°42'30.2835"W	2555.06	142.610	1.51	-1.28	-0.81	
9566.00	90.000	161.610	7147.65	2519.98	-2119.92	1582.27	1722628.36	14366614.87	39°33'42.4266"N	80°42'29.8949"W	2645.31	143.263	1.86	1.56	1.02	
9660.00	89.510	160.710	7148.05	2613.98	-2208.88	1612.62	1722658.71	14366525.95	39°33'41.5464"N	80°42'29.5110"W	2734.91	143.868	1.09	-0.52	-0.96	
9755.00	89.450	161.580	7148.92	2708.98	-2298.78	1643.32	1722689.39	14366436.09	39°33'40.6569"N	80°42'29.1228"W	2825.76	144.440	0.92	-0.06	0.92	
9849.00	89.600	161.090	7149.70	2802.97	-2387.83	1673.40	1722719.46	14366347.07	39°33'39.7758"N	80°42'28.7424"W	2915.82	144.977	0.55	0.16	-0.52	
9944.00	89.780	161.690	7150.21	2897.97	-2477.87	1703.72	1722749.77	14366257.07	39°33'38.8851"N	80°42'28.3590"W	3007.07	145.489	0.66	0.19	0.63	
10038.00	89.820	161.120	7150.54	2991.96	-2566.96	1733.69	1722779.73	14366168.02	39°33'38.0036"N	80°42'27.9800"W	3097.57	145.965	0.61	0.04	-0.61	
10133.00	89.570	161.640	7151.04	3086.96	-2656.98	1764.03	1722810.05	14366078.03	39°33'37.1129"N	80°42'27.5965"W	3189.25	146.419	0.61	-0.26	0.55	
10227.00	89.450	161.540	7151.85	3180.95	-2746.17	1793.71	1722839.72	14365988.87	39°33'36.2305"N	80°42'27.2212"W	3280.07	146.849	0.17	-0.13	-0.11	
10321.00	90.220	161.400	7152.12	3274.94	-2835.29	1823.58	1722869.58	14365899.78	39°33'35.3487"N	80°42'26.8435"W	3371.11	147.252	0.83	0.82	-0.15	
10415.00	89.230	161.630	7152.57	3368.94	-2924.44	1853.39	1722899.38	14365810.67	39°33'34.4666"N	80°42'26.4666"W	3462.28	147.635	1.08	-1.05	0.24	
10510.00	89.850	161.230	7153.33	3463.93	-3014.49	1883.64	1722929.62	14365720.66	39°33'33.5757"N	80°42'26.0841"W	3554.61	148.000	0.78	0.65	-0.42	
10605.00	89.880	160.600	7153.56	3558.93	-3104.27	1914.70	1722960.67	14365630.91	39°33'32.6874"N	80°42'25.6913"W	3647.27	148.334	0.66	0.03	-0.66	
10699.00	89.940	161.880	7153.70	3652.93	-3193.27	1944.93	1722990.88	14365541.95	39°33'31.8068"N	80°42'25.3090"W	3738.95	148.656	1.36	0.06	1.36	
10793.00	89.570	161.750	7154.11	3746.92	-3282.58	1974.27	1723020.21	14365452.68	39°33'30.9232"N	80°42'24.9382"W	3830.54	148.976	0.42	-0.39	-0.14	
10887.00	90.030	161.210	7154.43	3840.91	-3371.71	2004.13	1723050.05	14365363.58	39°33'30.0414"N	80°42'24.5607"W	3922.36	149.273	0.75	0.49	-0.57	

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Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Jiffy Unit 1H
Field	Wetzel		API	47-103-03615-0000
Facility	Cedar Pad		Wellbore	Jiffy Unit 1H AWB
Slot	Slot D			

WELLPATH DATA (251 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
10982.00	90.980	161.450	7153.60	3935.90	-3461.71	2034.53	1723080.45	14365273.62	39°33'29.1509"N	80°42'24.1762"W	4015.31	149.556	1.03	1.00	0.25	
11076.00	89.480	161.220	7153.22	4029.90	-3550.76	2064.62	1723110.52	14365184.60	39°33'28.2698"N	80°42'23.7958"W	4107.38	149.824	1.61	-1.60	-0.24	
11171.00	89.940	161.390	7153.70	4124.90	-3640.75	2095.07	1723140.96	14365094.65	39°33'27.3795"N	80°42'23.4108"W	4200.52	150.082	0.52	0.48	0.18	
11265.00	89.750	161.460	7153.95	4218.89	-3729.85	2125.01	1723170.89	14365005.58	39°33'26.4979"N	80°42'23.0322"W	4292.72	150.328	0.22	-0.20	0.07	
11359.00	89.880	161.390	7154.26	4312.89	-3818.95	2154.95	1723200.82	14364916.52	39°33'25.6163"N	80°42'22.6537"W	4385.00	150.565	0.16	0.14	-0.07	
11453.00	90.060	161.770	7154.31	4406.88	-3908.13	2184.66	1723230.51	14364827.37	39°33'24.7339"N	80°42'22.2782"W	4477.30	150.795	0.45	0.19	0.40	
11548.00	89.780	161.150	7154.44	4501.88	-3998.20	2214.86	1723260.71	14364737.33	39°33'23.8428"N	80°42'21.8963"W	4570.69	151.015	0.72	-0.29	-0.65	
11642.00	89.690	161.350	7154.87	4595.88	-4087.21	2245.08	1723290.91	14364648.36	39°33'22.9621"N	80°42'21.5142"W	4663.23	151.220	0.23	-0.10	0.21	
11736.00	89.660	161.540	7155.41	4689.87	-4176.33	2274.99	1723320.81	14364559.28	39°33'22.0804"N	80°42'21.1361"W	4755.76	151.421	0.20	-0.03	0.20	
11831.00	89.600	161.410	7156.02	4784.87	-4266.40	2305.17	1723350.98	14364469.24	39°33'21.1892"N	80°42'20.7545"W	4849.33	151.617	0.15	-0.06	-0.14	
11926.00	89.940	160.700	7156.40	4879.86	-4356.25	2336.01	1723381.81	14364379.42	39°33'20.3002"N	80°42'20.3645"W	4943.07	151.798	0.83	0.36	-0.75	
12020.00	90.830	161.710	7155.77	4973.86	-4445.24	2366.30	1723412.08	14364290.48	39°33'19.4198"N	80°42'19.9816"W	5035.82	151.973	1.43	0.95	1.07	
12114.00	89.910	161.800	7155.16	5067.85	-4534.51	2395.73	1723441.50	14364201.24	39°33'18.5365"N	80°42'19.6096"W	5128.48	152.151	0.98	-0.98	0.10	
12209.00	89.480	161.960	7155.67	5162.83	-4624.80	2425.27	1723471.03	14364110.99	39°33'17.6432"N	80°42'19.2362"W	5222.13	152.327	0.48	-0.45	0.17	
12303.00	90.120	162.430	7156.00	5256.81	-4714.29	2454.01	1723499.77	14364021.53	39°33'16.7578"N	80°42'18.8730"W	5314.77	152.501	0.84	0.68	0.50	
12398.00	89.510	160.830	7156.30	5351.80	-4804.45	2483.95	1723529.69	14363931.41	39°33'15.8658"N	80°42'18.4945"W	5408.58	152.661	1.80	-0.64	-1.68	
12492.00	90.490	162.070	7156.30	5445.79	-4893.56	2513.86	1723559.58	14363842.33	39°33'14.9841"N	80°42'18.1165"W	5501.49	152.810	1.68	1.04	1.32	
12586.00	90.710	160.980	7155.32	5539.78	-4982.71	2543.64	1723589.36	14363753.21	39°33'14.1021"N	80°42'17.7400"W	5594.42	152.956	1.18	0.23	-1.16	
12680.00	90.520	162.060	7154.31	5633.77	-5071.86	2573.43	1723619.14	14363664.10	39°33'13.2200"N	80°42'17.3633"W	5687.38	153.097	1.17	-0.20	1.15	
12775.00	89.720	160.860	7154.11	5728.77	-5161.92	2603.64	1723649.33	14363574.07	39°33'12.3289"N	80°42'16.9815"W	5781.38	153.234	1.52	-0.84	-1.26	
12869.00	90.370	161.200	7154.04	5822.77	-5250.82	2634.20	1723679.88	14363485.21	39°33'11.4494"N	80°42'16.5951"W	5874.53	153.358	0.78	0.69	0.36	
12963.00	90.310	160.410	7153.48	5916.76	-5339.59	2665.10	1723710.77	14363396.48	39°33'10.5710"N	80°42'16.2043"W	5967.75	153.475	0.84	-0.06	-0.84	
13057.00	90.680	161.850	7152.67	6010.76	-5428.53	2695.50	1723741.16	14363307.57	39°33'9.6910"N	80°42'15.8199"W	6060.92	153.594	1.58	0.39	1.53	
13152.00	89.750	160.980	7152.31	6105.75	-5518.58	2725.78	1723771.42	14363217.56	39°33'8.8001"N	80°42'15.4372"W	6155.04	153.714	1.34	-0.98	-0.92	
13246.00	90.090	161.190	7152.44	6199.75	-5607.50	2756.25	1723801.88	14363128.67	39°33'7.9202"N	80°42'15.0519"W	6248.28	153.825	0.43	0.36	0.22	
13341.00	90.310	161.680	7152.11	6294.75	-5697.56	2786.50	1723832.12	14363038.65	39°33'7.0292"N	80°42'14.6696"W	6342.45	153.938	0.57	0.23	0.52	
13435.00	90.460	161.660	7151.48	6388.74	-5786.78	2816.06	1723861.67	14362949.46	39°33'6.1464"N	80°42'14.2959"W	6435.61	154.051	0.16	0.16	-0.02	
13530.00	90.150	160.880	7150.97	6483.73	-5876.75	2846.56	1723892.16	14362859.53	39°33'5.2562"N	80°42'13.9103"W	6529.86	154.156	0.88	-0.33	-0.82	
13624.00	89.940	161.390	7150.90	6577.73	-5965.70	2876.96	1723922.54	14362770.61	39°33'4.3761"N	80°42'13.5260"W	6623.18	154.254	0.59	-0.22	0.54	
13718.00	90.000	161.000	7150.95	6671.73	-6054.68	2907.26	1723952.83	14362681.67	39°33'3.4957"N	80°42'13.1429"W	6716.50	154.351	0.42	0.06	-0.41	

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Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Jiffy Unit 1H
Field	Wetzel		API	47-103-03615-0000
Facility	Cedar Pad		Wellbore	Jiffy Unit 1H AWB
Slot	Slot D			

WELLPATH DATA (251 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
13813.00	89.940	161.180	7151.00	6766.73	-6144.56	2938.04	1723983.60	14362591.83	39°33'2.6065"N	80°42'12.7537"W	6810.85	154.445	0.20	-0.06	0.19	
13907.00	89.780	161.380	7151.23	6860.73	-6233.58	2968.21	1724013.76	14362502.84	39°33'1.7256"N	80°42'12.3723"W	6904.19	154.538	0.27	-0.17	0.21	
14001.00	90.060	161.140	7151.36	6954.73	-6322.60	2998.41	1724043.95	14362413.86	39°33'0.8449"N	80°42'11.9905"W	6997.55	154.628	0.39	0.30	-0.26	
14096.00	89.880	161.200	7151.41	7049.73	-6412.51	3029.07	1724074.60	14362323.98	39°32'59.9552"N	80°42'11.6029"W	7091.94	154.715	0.20	-0.19	0.06	
14190.00	90.180	160.570	7151.36	7143.73	-6501.33	3059.86	1724105.37	14362235.19	39°32'59.0764"N	80°42'11.2137"W	7185.40	154.796	0.74	0.32	-0.67	
14284.00	90.310	162.490	7150.96	7237.72	-6590.48	3089.63	1724135.14	14362146.08	39°32'58.1943"N	80°42'10.8373"W	7278.76	154.883	2.05	0.14	2.04	
14379.00	89.820	161.130	7150.85	7332.70	-6680.73	3119.29	1724164.78	14362055.86	39°32'57.3014"N	80°42'10.4625"W	7373.07	154.972	1.52	-0.52	-1.43	
14473.00	89.880	161.970	7151.10	7426.70	-6769.90	3149.04	1724194.52	14361966.73	39°32'56.4192"N	80°42'10.0865"W	7466.46	155.054	0.90	0.06	0.89	
14567.00	90.060	162.480	7151.15	7520.68	-6859.41	3177.73	1724223.20	14361877.25	39°32'55.5336"N	80°42'9.7239"W	7559.73	155.143	0.58	0.19	0.54	
14662.00	89.780	161.470	7151.28	7615.66	-6949.75	3207.13	1724252.58	14361786.95	39°32'54.6398"N	80°42'9.3525"W	7654.07	155.228	1.10	-0.29	-1.06	
14756.00	89.910	160.900	7151.53	7709.66	-7038.73	3237.45	1724282.89	14361698.01	39°32'53.7594"N	80°42'8.9693"W	7747.56	155.300	0.62	0.14	-0.61	
14850.00	89.140	160.630	7152.31	7803.65	-7127.48	3268.41	1724313.84	14361609.30	39°32'52.8813"N	80°42'8.5777"W	7841.14	155.365	0.87	-0.82	-0.29	
14944.00	89.880	160.490	7153.12	7897.65	-7216.11	3299.70	1724345.11	14361520.69	39°32'52.0043"N	80°42'8.1821"W	7934.75	155.427	0.80	0.79	-0.15	
15039.00	89.910	160.700	7153.29	7992.64	-7305.72	3331.26	1724376.66	14361431.13	39°32'51.1177"N	80°42'7.7830"W	8029.37	155.488	0.22	0.03	0.22	
15134.00	90.370	161.430	7153.06	8087.64	-7395.57	3362.09	1724407.48	14361341.30	39°32'50.2286"N	80°42'7.3933"W	8123.92	155.553	0.91	0.48	0.77	
15228.00	90.340	160.750	7152.48	8181.64	-7484.50	3392.55	1724437.93	14361252.41	39°32'49.3487"N	80°42'7.0081"W	8217.49	155.616	0.72	-0.03	-0.72	
15322.00	89.600	161.230	7152.53	8275.64	-7573.37	3423.17	1724468.54	14361163.58	39°32'48.4694"N	80°42'6.6210"W	8311.08	155.677	0.94	-0.79	0.51	
15417.00	90.150	160.600	7152.73	8370.64	-7663.15	3454.23	1724499.59	14361073.84	39°32'47.5811"N	80°42'6.2283"W	8405.69	155.736	0.88	0.58	-0.66	
15511.00	90.060	161.340	7152.56	8464.64	-7752.01	3484.88	1724530.22	14360985.01	39°32'46.7018"N	80°42'5.8408"W	8499.30	155.794	0.79	-0.10	0.79	
15605.00	90.120	161.260	7152.41	8558.64	-7841.05	3515.02	1724560.35	14360896.01	39°32'45.8208"N	80°42'5.4599"W	8592.87	155.854	0.11	0.06	-0.09	
15700.00	89.630	161.210	7152.62	8653.63	-7931.00	3545.58	1724590.90	14360806.09	39°32'44.9308"N	80°42'5.0736"W	8687.45	155.913	0.52	-0.52	-0.05	
15794.00	89.290	161.280	7153.51	8747.63	-8020.00	3575.80	1724621.11	14360717.12	39°32'44.0502"N	80°42'4.6916"W	8781.05	155.970	0.37	-0.36	0.07	
15889.00	89.510	161.310	7154.50	8842.62	-8109.98	3606.26	1724651.56	14360627.18	39°32'43.1599"N	80°42'4.3065"W	8875.64	156.027	0.23	0.23	0.03	
15983.00	89.540	161.310	7155.28	8936.62	-8199.02	3636.38	1724681.67	14360538.18	39°32'42.2789"N	80°42'3.9258"W	8969.24	156.082	0.03	0.03	0.00	
16078.00	89.570	161.340	7156.02	9031.61	-8289.02	3666.80	1724712.07	14360448.22	39°32'41.3885"N	80°42'3.5414"W	9063.84	156.137	0.04	0.03	0.03	
16173.00	89.540	161.350	7156.76	9126.61	-8379.02	3697.19	1724742.45	14360358.24	39°32'40.4980"N	80°42'3.1573"W	9158.45	156.191	0.03	-0.03	0.01	
16267.00	89.510	161.550	7157.53	9220.60	-8468.13	3727.09	1724772.34	14360269.17	39°32'39.6162"N	80°42'2.7794"W	9252.05	156.244	0.22	-0.03	0.21	
16362.00	89.570	161.180	7158.30	9315.60	-8558.15	3757.45	1724802.68	14360179.19	39°32'38.7256"N	80°42'2.3957"W	9346.68	156.296	0.39	0.06	-0.39	
16456.00	89.660	159.740	7158.93	9409.59	-8646.73	3788.88	1724834.11	14360090.64	39°32'37.8491"N	80°42'1.9982"W	9440.43	156.338	1.53	0.10	-1.53	
16550.00	89.750	160.200	7159.41	9503.57	-8735.05	3821.08	1724866.29	14360002.36	39°32'36.9752"N	80°42'1.5910"W	9534.24	156.373	0.50	0.10	0.49	

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Jiffy Unit 1H AWP Proj: 23207'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (251 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
16645.00	89.660	160.300	7159.90	9598.56	-8824.46	3853.18	1724898.38	14359912.99	39°32'36.0905"N	80°42'1.1850"W	9629.02	156.412	0.14	-0.09	0.11	
16739.00	89.660	160.120	7160.46	9692.55	-8912.90	3885.01	1724930.19	14359824.57	39°32'35.2153"N	80°42'0.7825"W	9722.81	156.448	0.19	0.00	-0.19	
16833.00	89.600	160.070	7161.07	9786.54	-9001.29	3917.01	1724962.18	14359736.23	39°32'34.3407"N	80°42'0.3778"W	9816.62	156.483	0.08	-0.06	-0.05	
16927.00	89.910	160.030	7161.47	9880.53	-9089.64	3949.08	1724994.24	14359647.90	39°32'33.4664"N	80°41'59.9721"W	9910.44	156.517	0.33	0.33	-0.04	
17115.00	89.540	160.200	7162.37	10068.50	-9266.43	4013.03	1725058.16	14359471.18	39°32'31.7171"N	80°41'59.1635"W	10098.08	156.584	0.22	-0.20	0.09	
17210.00	89.630	160.130	7163.06	10163.49	-9355.79	4045.26	1725090.38	14359381.86	39°32'30.8328"N	80°41'58.7558"W	10192.89	156.617	0.12	0.09	-0.07	
17304.00	89.540	159.910	7163.74	10257.48	-9444.13	4077.38	1725122.49	14359293.55	39°32'29.9587"N	80°41'58.3496"W	10286.72	156.648	0.25	-0.10	-0.23	
17399.00	89.510	160.460	7164.53	10352.46	-9533.51	4109.58	1725154.68	14359204.22	39°32'29.0743"N	80°41'57.9424"W	10381.54	156.681	0.58	-0.03	0.58	
17494.00	89.690	160.260	7165.19	10447.46	-9622.98	4141.51	1725186.60	14359114.78	39°32'28.1890"N	80°41'57.5386"W	10476.34	156.714	0.28	0.19	-0.21	
17589.00	89.480	160.160	7165.88	10542.44	-9712.36	4173.67	1725218.75	14359025.43	39°32'27.3045"N	80°41'57.1319"W	10571.17	156.745	0.24	-0.22	-0.11	
17683.00	89.570	160.370	7166.66	10636.43	-9800.84	4205.41	1725250.48	14358936.99	39°32'26.4291"N	80°41'56.7306"W	10664.99	156.776	0.24	0.10	0.22	
17777.00	89.450	160.480	7167.46	10730.43	-9889.40	4236.91	1725281.96	14358848.46	39°32'25.5527"N	80°41'56.3324"W	10758.80	156.808	0.17	-0.13	0.12	
17872.00	89.600	160.470	7168.25	10825.42	-9978.94	4268.66	1725313.69	14358758.96	39°32'24.6668"N	80°41'55.9309"W	10853.60	156.840	0.16	0.16	-0.01	
17966.00	89.630	160.440	7168.88	10919.41	-10067.52	4300.10	1725345.13	14358670.41	39°32'23.7903"N	80°41'55.5333"W	10947.41	156.871	0.05	0.03	-0.03	
18060.00	89.630	160.400	7169.49	11013.41	-10156.08	4331.60	1725376.62	14358581.89	39°32'22.9139"N	80°41'55.1350"W	11041.23	156.902	0.04	0.00	-0.04	
18155.00	89.720	160.420	7170.03	11108.40	-10245.58	4363.46	1725408.45	14358492.42	39°32'22.0283"N	80°41'54.7323"W	11136.05	156.931	0.10	0.09	0.02	
18249.00	89.720	160.440	7170.49	11202.40	-10334.15	4394.94	1725439.93	14358403.89	39°32'21.1520"N	80°41'54.3342"W	11229.88	156.961	0.02	0.00	0.02	
18343.00	89.720	159.930	7170.95	11296.39	-10422.58	4426.81	1725471.78	14358315.49	39°32'20.2769"N	80°41'53.9313"W	11323.73	156.988	0.54	0.00	-0.54	
18438.00	89.880	161.440	7171.28	11391.38	-10512.23	4458.23	1725503.19	14358225.87	39°32'19.3898"N	80°41'53.5341"W	11418.53	157.018	1.60	0.17	1.59	
18533.00	89.570	160.400	7171.73	11486.38	-10602.01	4489.28	1725534.23	14358136.13	39°32'18.5015"N	80°41'53.1416"W	11513.31	157.050	1.14	-0.33	-1.09	
18628.00	90.000	160.450	7172.09	11581.37	-10691.52	4521.11	1725566.05	14358046.66	39°32'17.6158"N	80°41'52.7391"W	11608.14	157.078	0.46	0.45	0.05	
18722.00	90.060	160.580	7172.04	11675.37	-10780.14	4552.46	1725597.39	14357958.08	39°32'16.7390"N	80°41'52.3427"W	11701.98	157.106	0.15	0.06	0.14	
18816.00	89.780	160.270	7172.17	11769.37	-10868.70	4583.96	1725628.87	14357869.55	39°32'15.8626"N	80°41'51.9446"W	11795.82	157.132	0.44	-0.30	-0.33	
18910.00	89.820	160.410	7172.50	11863.36	-10957.22	4615.58	1725660.48	14357781.06	39°32'14.9867"N	80°41'51.5447"W	11889.67	157.157	0.15	0.04	0.15	
19005.00	89.910	160.240	7172.72	11958.35	-11046.68	4647.57	1725692.45	14357691.64	39°32'14.1015"N	80°41'51.1403"W	11984.53	157.182	0.20	0.09	-0.18	
19099.00	89.820	160.410	7172.95	12052.35	-11135.19	4679.22	1725724.09	14357603.17	39°32'13.2257"N	80°41'50.7402"W	12078.39	157.207	0.20	-0.10	0.18	
19193.00	90.000	160.630	7173.09	12146.34	-11223.81	4710.56	1725755.42	14357514.58	39°32'12.3488"N	80°41'50.3439"W	12172.23	157.233	0.30	0.19	0.23	
19287.00	89.850	160.460	7173.22	12240.34	-11312.44	4741.87	1725786.72	14357425.98	39°32'11.4718"N	80°41'49.9481"W	12266.08	157.258	0.24	-0.16	-0.18	
19382.00	90.030	160.380	7173.32	12335.34	-11401.95	4773.71	1725818.54	14357336.51	39°32'10.5861"N	80°41'49.5456"W	12360.93	157.282	0.21	0.19	-0.08	
19476.00	89.940	159.820	7173.34	12429.33	-11490.33	4805.70	1725850.53	14357248.16	39°32'9.7115"N	80°41'49.1410"W	12454.82	157.303	0.60	-0.10	-0.60	

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Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (251 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
19570.00	89.850	160.700	7173.51	12523.32	-11578.81	4837.45	1725882.26	14357159.72	39°32'8.8360"N	80°41'48.7396"W	12548.69	157.326	0.94	-0.10	0.94	
19665.00	89.660	160.540	7173.92	12618.31	-11668.42	4868.97	1725913.77	14357070.14	39°32'7.9493"N	80°41'48.3411"W	12643.54	157.350	0.26	-0.20	-0.17	
19759.00	89.720	160.380	7174.43	12712.31	-11757.01	4900.41	1725945.20	14356981.59	39°32'7.0727"N	80°41'47.9437"W	12737.40	157.373	0.18	0.06	-0.17	
19853.00	89.820	160.500	7174.81	12806.30	-11845.58	4931.88	1725976.66	14356893.05	39°32'6.1963"N	80°41'47.5458"W	12831.26	157.396	0.17	0.11	0.13	
19948.00	89.600	160.470	7175.29	12901.30	-11935.13	4963.62	1726008.38	14356803.54	39°32'5.3103"N	80°41'47.1446"W	12926.13	157.418	0.23	-0.23	-0.03	
20042.00	89.660	160.160	7175.89	12995.29	-12023.63	4995.28	1726040.03	14356715.07	39°32'4.4345"N	80°41'46.7443"W	13020.00	157.439	0.34	0.06	-0.33	
20137.00	89.820	160.410	7176.32	13090.28	-12113.06	5027.33	1726072.07	14356625.68	39°32'3.5496"N	80°41'46.3392"W	13114.89	157.460	0.31	0.17	0.26	
20232.00	89.780	160.190	7176.66	13185.28	-12202.50	5059.35	1726104.08	14356536.28	39°32'2.6645"N	80°41'45.9343"W	13209.77	157.480	0.24	-0.04	-0.23	
20327.00	89.750	160.770	7177.05	13280.27	-12292.04	5091.10	1726135.81	14356446.77	39°32'1.7785"N	80°41'45.5330"W	13304.64	157.502	0.61	-0.03	0.61	
20421.00	89.600	160.550	7177.58	13374.27	-12380.73	5122.23	1726166.92	14356358.11	39°32'0.9009"N	80°41'45.1396"W	13398.50	157.524	0.28	-0.16	-0.23	
20515.00	89.450	159.850	7178.36	13468.26	-12469.17	5154.07	1726198.75	14356269.71	39°32'0.0258"N	80°41'44.7370"W	13492.39	157.543	0.76	-0.16	-0.74	
20610.00	89.750	160.350	7179.02	13563.24	-12558.50	5186.40	1726231.07	14356180.42	39°31'59.1419"N	80°41'44.3282"W	13587.29	157.560	0.61	0.32	0.53	
20704.00	89.600	160.090	7179.55	13657.23	-12646.95	5218.21	1726262.87	14356092.00	39°31'58.2666"N	80°41'43.9260"W	13681.19	157.579	0.32	-0.16	-0.28	
20798.00	89.660	160.450	7180.16	13751.22	-12735.43	5249.94	1726294.59	14356003.56	39°31'57.3911"N	80°41'43.5248"W	13775.09	157.597	0.39	0.06	0.38	
20893.00	89.510	160.330	7180.85	13846.22	-12824.92	5281.83	1726326.46	14355914.10	39°31'56.5056"N	80°41'43.1218"W	13869.97	157.616	0.20	-0.16	-0.13	
20988.00	89.910	159.630	7181.33	13941.20	-12914.17	5314.35	1726358.97	14355824.88	39°31'55.6224"N	80°41'42.7106"W	13964.89	157.632	0.85	0.42	-0.74	
21082.00	89.570	160.240	7181.76	14035.18	-13002.47	5346.60	1726391.21	14355736.62	39°31'54.7487"N	80°41'42.3028"W	14058.81	157.648	0.74	-0.36	0.65	
21177.00	89.540	160.510	7182.49	14130.18	-13091.95	5378.50	1726423.10	14355647.18	39°31'53.8633"N	80°41'41.8995"W	14153.70	157.666	0.29	-0.03	0.28	
21271.00	89.750	161.550	7183.08	14224.17	-13180.84	5409.06	1726453.65	14355558.32	39°31'52.9837"N	80°41'41.5134"W	14247.54	157.688	1.13	0.22	1.11	
21365.00	89.690	161.340	7183.54	14318.17	-13269.95	5438.97	1726483.55	14355469.25	39°31'52.1020"N	80°41'41.1355"W	14341.34	157.713	0.23	-0.06	-0.22	
21460.00	89.630	161.440	7184.10	14413.16	-13359.98	5469.29	1726513.85	14355379.25	39°31'51.2112"N	80°41'40.7525"W	14436.14	157.737	0.12	-0.06	0.11	
21554.00	89.660	161.360	7184.68	14507.16	-13449.07	5499.27	1726543.82	14355290.20	39°31'50.3297"N	80°41'40.3737"W	14529.95	157.761	0.09	0.03	-0.09	
21648.00	89.720	161.420	7185.19	14601.16	-13538.15	5529.27	1726573.80	14355201.15	39°31'49.4482"N	80°41'39.9947"W	14623.76	157.784	0.09	0.06	0.06	
21743.00	89.660	161.510	7185.71	14696.15	-13628.22	5559.46	1726603.99	14355111.11	39°31'48.5570"N	80°41'39.6132"W	14718.56	157.808	0.11	-0.06	0.09	
21837.00	89.380	161.380	7186.49	14790.14	-13717.33	5589.38	1726633.89	14355022.04	39°31'47.6753"N	80°41'39.2353"W	14812.37	157.831	0.33	-0.30	-0.14	
21932.00	89.630	161.430	7187.31	14885.14	-13807.37	5619.67	1726664.17	14354932.04	39°31'46.7844"N	80°41'38.8527"W	14907.19	157.853	0.27	0.26	0.05	
22026.00	89.630	161.450	7187.92	14979.13	-13896.48	5649.59	1726694.08	14354842.96	39°31'45.9028"N	80°41'38.4747"W	15001.00	157.876	0.02	0.00	0.02	
22121.00	89.260	161.130	7188.84	15074.13	-13986.46	5680.06	1726724.54	14354753.02	39°31'45.0125"N	80°41'38.0897"W	15095.83	157.897	0.51	-0.39	-0.34	
22215.00	89.600	161.850	7189.78	15168.12	-14075.59	5709.90	1726754.37	14354663.93	39°31'44.1306"N	80°41'37.7128"W	15189.64	157.920	0.85	0.36	0.77	
22309.00	89.720	161.310	7190.33	15262.11	-14164.77	5739.60	1726784.06	14354574.78	39°31'43.2482"N	80°41'37.3376"W	15283.45	157.942	0.59	0.13	-0.57	



Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (251 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
22403.00	89.720	161.100	7190.79	15356.11	-14253.76	5769.89	1726814.33	14354485.83	39°31'42.3677"N	80°41'36.9549"W	15377.29	157.962	0.22	0.00	-0.22	
22498.00	89.570	160.930	7191.38	15451.11	-14343.59	5800.79	1726845.22	14354396.03	39°31'41.4788"N	80°41'36.5644"W	15472.16	157.981	0.24	-0.16	-0.18	
22592.00	89.720	161.380	7191.96	15545.10	-14432.55	5831.15	1726875.57	14354307.11	39°31'40.5986"N	80°41'36.1808"W	15566.01	158.000	0.50	0.16	0.48	
22687.00	89.720	161.460	7192.43	15640.10	-14522.59	5861.42	1726905.83	14354217.10	39°31'39.7076"N	80°41'35.7985"W	15660.84	158.021	0.08	0.00	0.08	
22781.00	89.600	161.000	7192.99	15734.10	-14611.59	5891.67	1726936.06	14354128.13	39°31'38.8270"N	80°41'35.4163"W	15754.70	158.040	0.51	-0.13	-0.49	
22876.00	89.880	161.540	7193.42	15829.09	-14701.56	5922.17	1726966.56	14354038.20	39°31'37.9368"N	80°41'35.0310"W	15849.54	158.059	0.64	0.29	0.57	
22970.00	89.910	161.680	7193.59	15923.09	-14790.76	5951.83	1726996.20	14353949.04	39°31'37.0542"N	80°41'34.6564"W	15943.36	158.080	0.15	0.03	0.15	
23064.00	90.150	161.650	7193.54	16017.08	-14879.99	5981.40	1727025.76	14353859.84	39°31'36.1713"N	80°41'34.2829"W	16037.18	158.101	0.26	0.26	-0.03	
23159.00	90.000	161.720	7193.42	16112.07	-14970.18	6011.25	1727055.60	14353769.69	39°31'35.2790"N	80°41'33.9059"W	16132.00	158.122	0.17	-0.16	0.07	
23182.00	89.970	161.270	7193.42	16135.07	-14991.99	6018.55	1727062.90	14353747.89	39°31'35.0632"N	80°41'33.8137"W	16154.96	158.127	1.96	-0.13	-1.96	
23207.00‡	89.970	161.270	7193.43	16160.07	-15015.66	6026.58	1727070.92	14353724.22	39°31'34.8289"N	80°41'33.7123"W	16179.92	158.132	0.00	0.00	0.00	Projected MD at TD: 23207'

HOLE & CASING SECTIONS - Ref Wellbore: Jiffy Unit 1H AWB Ref Wellpath: Jiffy Unit 1H AWP Proj: 23207'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	0.17	-0.05
17.5in Open Hole	130.00	720.00	590.00	130.00	720.00	0.17	-0.05	0.60	0.22
13.375in Casing Surface	30.00	705.00	675.00	30.00	705.00	0.00	0.00	0.56	0.18
12.25in Open Hole	720.00	3532.00	2812.00	720.00	3507.80	0.60	0.22	182.09	303.96
9.625in Casing Intermediate	30.00	3502.00	3472.00	30.00	3477.99	0.00	0.00	180.13	301.27
8.75in Open Hole	3532.00	6403.00	2871.00	3507.80	6354.12	182.09	303.96	370.54	615.32
8.5in Open Hole	6403.00	23207.00	16804.00	6354.12	7193.43	370.54	615.32	-15015.66	6026.58
5.5in Casing Production	30.00	23187.00	23157.00	30.00	7193.42	0.00	0.00	-14996.72	6020.16

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Actual Wellpath Report

Jiffy Unit 1H AWP Proj: 23207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy 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
Jiffy Unit 1H POE Rev-2	7102.00	-68.00	859.96	1721906.34	14368665.99	39°34'2.7292"N	80°42'39.0331"W	point
Jiffy Unit 1H LP Rev-2	7130.00	-253.11	923.80	1721970.16	14368480.95	39°34'0.8976"N	80°42'38.2255"W	point
Jiffy Unit 1H BHL Rev-3	7185.88	-15386.60	6142.79	1727187.08	14353353.44	39°31'31.1590"N	80°41'32.2455"W	point
Jiffy Unit 1H BHL Rev-2	7186.13	-15453.60	6165.89	1727210.18	14353286.46	39°31'30.4960"N	80°41'31.9535"W	point
Jiffy Unit 1H 50' L/R Hard Line R-2	7500.00	-7727.30	3501.37	1724546.71	14361009.71	39°32'46.9455"N	80°42'5.6292"W	rectangle
2D Rectangle 16203.9 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Jiffy Unit 1H AWB Ref Wellpath: Jiffy Unit 1H AWP Proj: 23207'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	616.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-616')	Jiffy Unit 1H AWB	12/7/2023
616.00	3459.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (616')(771'-3459')	Jiffy Unit 1H AWB	12/7/2023
3459.00	6334.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3459')(3593'-6334')	Jiffy Unit 1H AWB	12/28/2023
6334.00	23207.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6334')(6378'-23182')	Jiffy Unit 1H AWB	12/28/2023

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Jiffy Unit 1H AWP Proj: 23207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jiffy Unit 1H
Field	Wetzel	API	47-103-03615-0000
Facility	Cedar Pad	Wellbore	Jiffy Unit 1H AWB
Slot	Slot D		

COMMENTS

Wellpath general comments

API: 47-103-03615-0000
 BH Job #: 112047847
 Rig: H&P 519
 Duration: 1/1/2024-1/6/2024
 Gyrodata MS Gyro <17-1/2"> (100'-616')
 APS EM <12-1/4"> (616')(771'-3459')
 APS EM <8-3/4"> (3459')(3593'-6334')
 BH AT Curve <8-1/2"> (6334')(6378'-23182')
 Sycamore: 6828' MD
 Middlesex: 6986' MD
 Burkett: 7131' MD
 Tully: 7183' MD
 Marcellus POE: 7391' MD
 Projected MD at TD: 23207'

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