



# ANTERO RESOURCES CORPORATION



Location: Tyler County, WV  
 Field: Tyler  
 Facility: Grand Pad

Slot: Slot #03  
 Well: Tapeats Unit 1H  
 Wellbore: Tapeats Unit 1H PWB

Grid System: NAD83 / UTM Zone 17 North, US Feet  
 North Reference: Grid North  
 Scale: True Distance  
 Conversions are in feet referenced to Slot  
 Depth are in feet  
 \*Checked by: mstaylor on 2021-04-13; Database: WVA, MFL, ERO, TERNUS, Data

Location Information			
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Longitude
Grand Pad	169313.970	14346649.540	80°48'36.4904"W
Local N (ft)	Local E (ft)	Local N (ft)	Local E (ft)
13.89	1693327.650	14346622.990	80°48'36.3039"W
Slot #03	28.56	1693327.650	80°48'36.3039"W
Comment:	Tapeats Unit 1H		
H&P 317 (RKB) to Ground level (At Slot Slot #03)	25.5ft		
Mean Sea Level to Ground level (At Slot Slot #03)	-124.9ft		
H&P 317 (RKB) to Mean Sea Level	128.4ft		

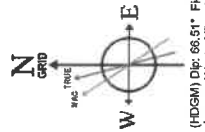
Well Profile Data						
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)
Tie On	6181.00	12.720	56.560	5911.92	172.36	1602.00
Proj. to Bottom	6246.00	12.720	56.560	5975.32	180.25	1613.95
Curve KOP	6662.25	12.720	56.560	6283.81	218.62	1672.05
Avoid NGZ	6779.13	27.577	26.458	6487.26	276.35	1716.24
POE	7353.05	74.514	341.102	6949.00	686.98	1637.53
Landing Pt.	7546.62	90.000	341.102	6975.00	870.87	1625.00
BHL	22491.99	90.000	341.102	45955.74	-3536.84	0.00
						16242.73

Well Data		
Slot	Well	Wellbore
Slot #03	Tapeats Unit 1H AWB	Tapeats Unit 1H AWB
Slot #03	Tapeats Unit 1H PWB	Tapeats Unit 1H PWB
Slot #03	Tapeats Unit 1H PWB	Tapeats Unit 1H PWB Rev-C-0

Gyrodatta MS Gyro <17-1/2"> (100-400°) : 0.25° Inc, 100.00ft MD, 100.00ft TVD, -0.07ft VS  
 Gyrodatta MS Gyro <12-1/4"> (400)(500-600°) : 0.31° Inc, 500.00ft MD, 500.00ft TVD, -1.27ft VS  
 APS EM <12-1/4"> (600)(670-2611°) : 4.61° Inc, 870.00ft MD, 869.67ft TVD, -7.24ft VS

API: 47-095-02713-0000  
 BH Job #: 110784522  
 Rig: H&P 317  
 Duration: 4/6/2021-4/11/2021

APS EM <8-3/4"> (2611)(2729-5181°) : 22.15° Inc, 2729.00ft MD, 2642.39ft TVD, -107.62ft VS

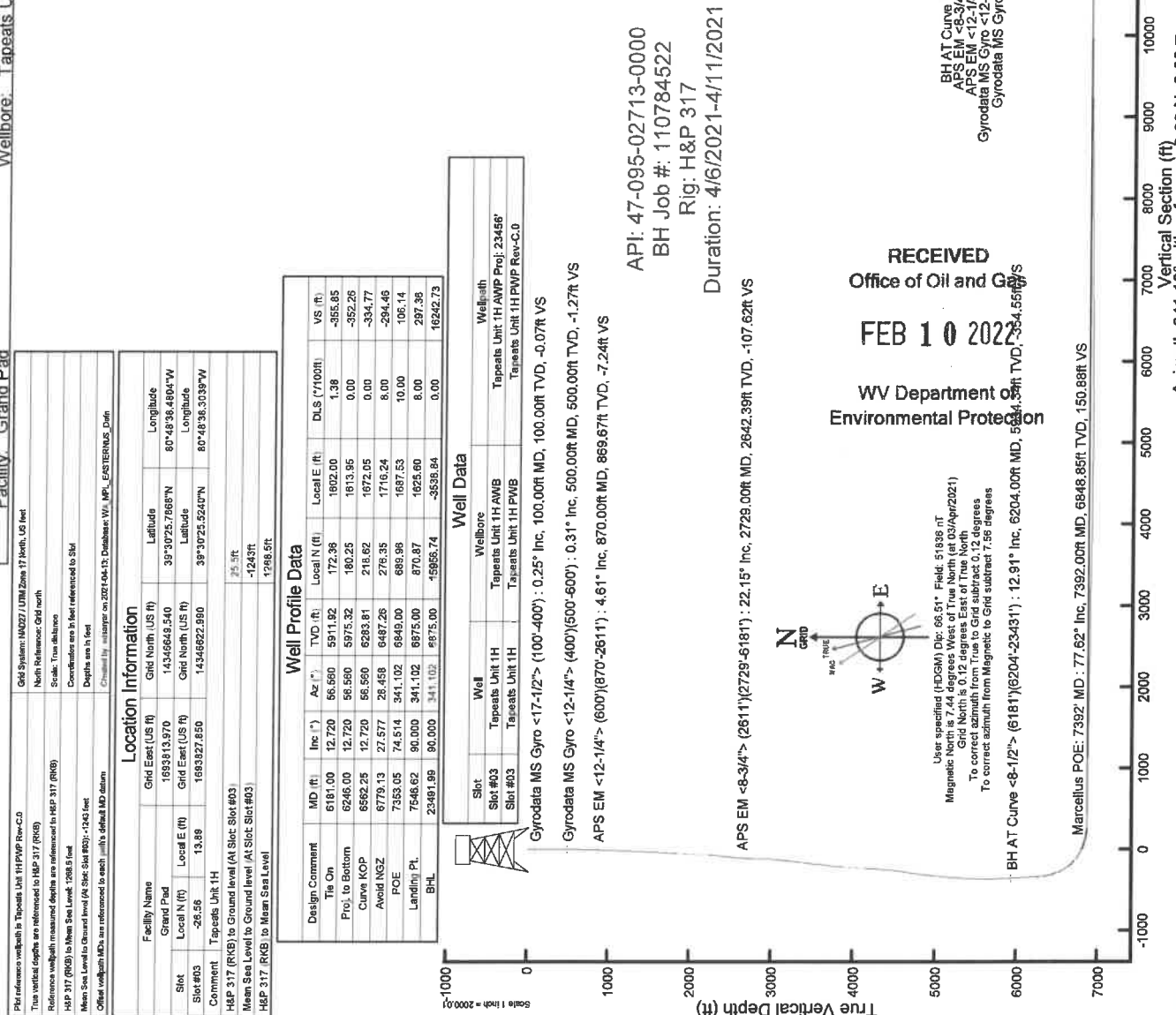
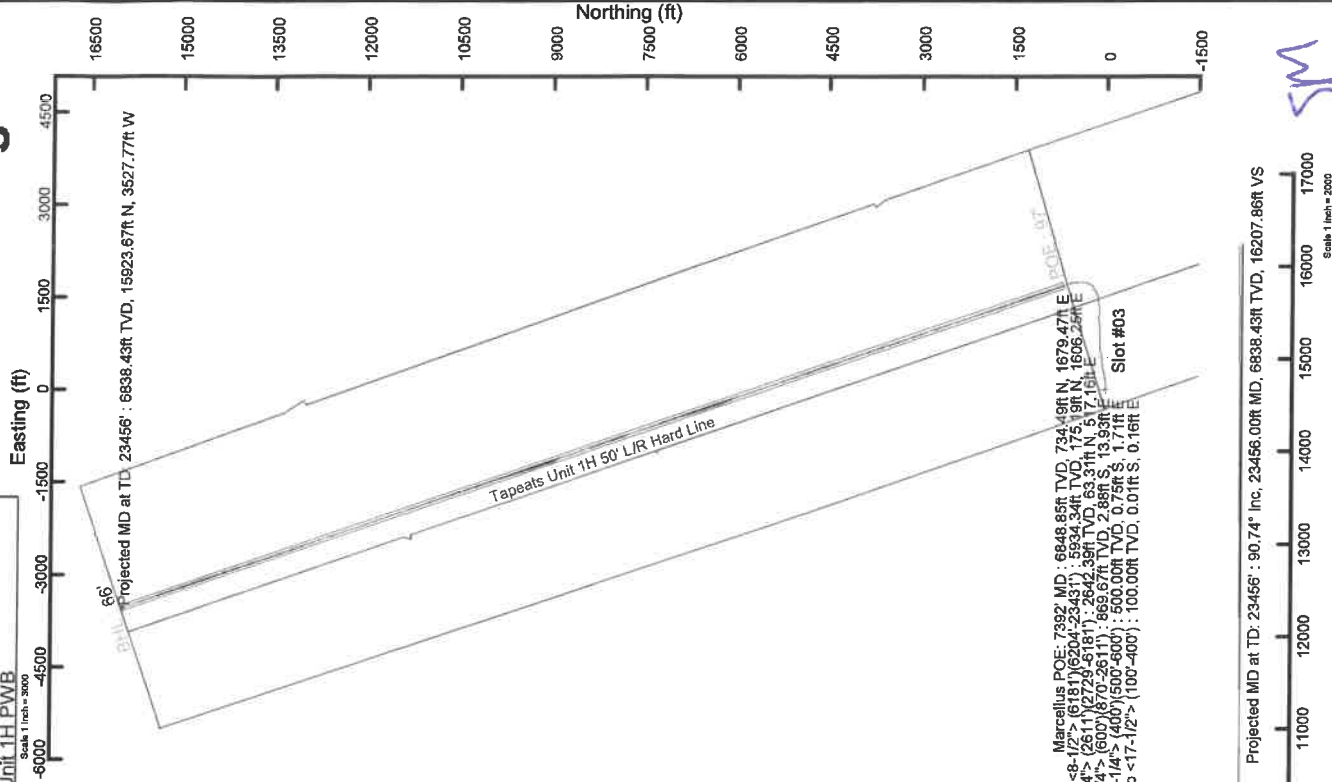


User specified (HDCM) Dip: 68.61° Field: 51898 mT  
 Magnetic North is 7.44 degrees West of True North (2021)  
 Grid North is 0.12 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.12 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.56 degrees

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BH AT Curve <8-1/2"> (6181)(6204-23431°) : 12.91° Inc, 6204.00ft MD, 5834.56ft TVD, 7.3456ft VS

Marcellus POE: 7392 MD : 77.62° Inc, 7392.00ft MD, 6646.85ft TVD, -150.88ft VS





# Actual Wellpath Report

Tapeats Unit 1H AWP Proj: 23456  
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REFERENCE WELL IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #03
Well	Tapeats Unit 1H
API	47-095-02713-0000
Wellbore	Tapeats Unit 1H AWB

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999603
Convergence at slot	0.12° East
Software System	WellArchitect® 6.0
User	Edsaryar
Report Generated	13/A pr/2021 at 15:07
Database	WA_MPL_EASTERNUUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North(ft)	East(ft)	Easting(US ft)	Northing(US ft)	Latitude	Longitude
Slot Location	-26.56	13.89	1693827.85	14346622.99	39°30'25.52407"N	80°48'38.3039"W
Facility Reference Pt			1693813.97	14346649.54	39°30'25.78667"N	80°48'38.4804"W
Field Reference Pt			0.00	0.00	0°00'00.0000"	85°29'19.3013"W

WELLPATH DATUM	
Calculation method	H&P 317 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	H&P 317 (RKB) to Mean Sea Level
Vertical Reference Pt	H&P 317 (RKB) to Ground Level at Slot (Slot #03)
MD Reference Pt	Section Origin
Field Vertical Reference	Section Azimuth
	1268.50ft
	1268.50ft
	25.50ft
	N 0.00, E 0.00 ft
	341.10°



# Actual Wellpath Report

Tapeats Unit 1H AWP Proj: 23456'  
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REFERENCE WELLPATH INFORMATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #03
Well	Tapeats Unit 1H
API	47-095-02713-0000
Wellbore	Tapeats Unit 1H AWB

WELLPATH DATA (269 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 (ft/ft)	Build Rate (ft/ft)	Turn Rate (1/100ft)	Comments
0.00	0.00	85.000	0.00	0.00	0.00	0.00	1693927.85	14346622.99	39°30'25.5240"N	80°48'38.5019"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	95.000	25.00	0.00	0.00	0.00	1693927.85	14346622.99	39°30'25.5240"N	80°48'38.5019"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.25	95.000	100.00	-0.07	-0.01	0.16	1693928.01	14346622.98	39°30'25.5238"N	80°48'38.5019"W	0.16	95.000	0.34	0.34	0.00	yrodata MS Gyro <17-1/2> (100-400)
200.00	0.21	120.010	200.00	-0.29	-0.12	0.54	1693928.39	14346622.87	39°30'25.5227"N	80°48'38.2971"W	0.55	103.065	0.11	-0.04	25.01	
300.00	0.23	107.610	300.00	-0.55	-0.28	0.89	1693928.74	14346622.71	39°30'25.5212"N	80°48'38.2925"W	0.93	107.339	0.05	0.02	-12.40	
400.00	0.28	119.940	400.00	-0.85	-0.46	1.29	1693929.14	14346622.53	39°30'25.5194"N	80°48'38.2875"W	1.37	109.608	0.07	0.05	12.33	
500.00	0.31	129.440	500.00	-1.27	-0.75	1.71	1693929.56	14346622.24	39°30'25.5165"N	80°48'38.2821"W	1.87	113.766	0.06	0.03	9.50	yrodata MS Gyro <12-1/4> (600)/(500-600)
600.00	0.42	113.170	599.99	-1.74	-1.07	2.26	1693930.11	14346621.92	39°30'25.5134"N	80°48'38.2752"W	2.90	115.355	0.15	0.11	-16.27	
870.00	4.610	97.540	869.67	-7.24	-2.88	13.93	1693934.77	14346620.11	39°30'25.4952"N	80°48'37.5476"W	14.22	101.697	1.56	1.55	-5.79	PS EM <12-1/4> (600)/(870-2611)
960.00	4.550	94.460	959.39	-10.27	-3.54	21.07	1693946.92	14346619.36	39°30'25.4876"N	80°48'37.3612"W	21.38	99.789	0.28	-0.07	-3.42	
1050.00	4.470	94.760	1049.11	-13.09	-4.20	28.13	1693955.97	14346618.79	39°30'25.4819"W	80°48'37.9452"W	28.44	98.502	0.09	-0.09	0.33	
1145.00	5.530	92.970	1143.75	-16.28	-4.75	36.39	1693964.22	14346618.24	39°30'25.4763"N	80°48'37.6398"W	36.70	97.435	1.13	1.12	-1.88	
1240.00	6.940	90.090	1238.18	-19.85	-5.00	46.70	1693974.53	14346618.00	39°30'25.4737"N	80°48'37.0833"W	46.97	96.105	1.52	1.46	-3.03	
1335.00	8.300	87.810	1332.34	-23.69	-4.74	59.79	1693987.12	14346618.25	39°30'25.4759"N	80°48'37.5476"W	59.48	94.573	1.47	1.43	-2.40	
1429.00	9.610	86.000	1425.19	-27.66	-3.94	73.90	1693991.72	14346619.06	39°30'25.4836"N	80°48'37.3612"W	74.00	93.048	1.43	1.39	-1.93	
1524.00	12.570	81.280	1518.41	-31.53	-1.81	92.03	1693919.85	14346621.18	39°30'25.5041"N	80°48'37.1289"W	92.05	91.130	3.26	3.12	-4.97	
1619.00	15.260	79.260	1610.62	-35.13	2.08	114.54	1693942.34	14346625.07	39°30'25.5422"N	80°48'36.8426"W	114.56	88.958	2.88	2.83	-2.13	
1713.00	18.170	80.890	1700.63	-39.39	6.71	141.17	1693968.96	14346629.70	39°30'25.5874"N	80°48'36.5027"W	141.33	87.279	3.14	3.10	1.73	
1808.00	20.860	81.250	1790.17	-44.88	11.63	172.52	1694000.30	14346634.61	39°30'25.6353"N	80°48'36.1027"W	172.91	86.144	2.83	2.83	0.38	
1903.00	21.900	81.370	1878.63	-48.02	16.86	206.75	1694034.92	14346639.84	39°30'25.6863"N	80°48'35.9699"W	207.44	85.338	1.10	1.09	0.13	
1998.00	22.190	79.340	1966.69	-56.75	22.84	241.00	1694059.55	14346645.82	39°30'25.7447"N	80°48'35.2172"W	242.97	84.607	0.86	0.31	-2.14	
2093.00	22.090	77.730	2054.68	-61.38	29.95	276.98	1694104.72	14346652.93	39°30'25.8143"N	80°48'34.7694"W	276.60	83.828	0.65	-0.11	-1.69	
2188.00	22.240	74.780	2142.66	-64.60	38.47	311.79	1694139.51	14346661.44	39°30'25.8977"N	80°48'34.3251"W	314.15	82.966	1.18	0.16	-3.11	
2282.00	22.990	78.820	2229.57	-66.17	46.64	346.67	1694174.38	14346669.61	39°30'26.0316"N	80°48'33.6769"W	349.79	82.338	1.68	0.37	4.30	
2377.00	22.990	83.840	2317.16	-74.71	52.17	383.01	1694210.70	14346675.14	39°30'26.0607"N	80°48'33.0451"W	386.54	82.244	2.09	0.41	5.28	
2472.00	22.610	86.770	2404.74	-83.73	55.19	419.68	1694247.36	14346680.20	39°30'26.0801"N	80°48'32.4834"W	423.29	82.509	1.26	-0.39	3.08	
2567.00	22.560	86.810	2492.46	-93.60	57.23	456.11	1694283.77	14346686.27	39°30'26.0910"N	80°48'32.2698"W	459.68	82.848	0.06	-0.05	0.04	
2611.00	22.270	85.400	2533.14	-97.94	59.37	472.84	1694300.51	14346691.34	39°30'26.1389"N	80°48'31.7044"W	476.43	82.963	1.39	-0.66	-3.20	
2729.00	22.150	81.870	2642.39	-107.62	63.31	517.16	1694344.80	14346696.27	39°30'26.1888"N	80°48'31.2957"W	521.02	83.021	1.14	-0.10	-2.99	PS EM <8-3/4> (2611)/(2729-6181)
2817.00	21.100	79.930	2724.19	-113.15	68.42	549.17	1694376.81	14346691.39	39°30'26.1888"N	80°48'31.2957"W	553.42	82.998	1.44	-1.19	-2.20	

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# Actual Wellpath Report

Tapeats Unit 1H AWP Proj: 23456'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Field	Taylor
Facility	Grand Pad
Slot	Slot #03
Well	Tapeats Unit 1H
API	47-095-02713-0000
Wellbore	Tapeats Unit 1H AWB

## WELLPATH DATA (269 stations)

MD (ft)	Inclination (°)	Asimuth (°)	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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
2906.00	-117.17	74.73	2807.45	-117.17	74.73	610.77	1694407.60	14346697.69	39°30'26.2505"N	80°48'30.9025"W	584.78	82.658	1.51	-0.90	-3.43	
2994.00	22.500	76.880	2889.39	-118.66	83.70	678.99	1694438.38	14346706.65	39°30'26.3384"N	80°48'30.5094"W	616.48	82.197	3.51	2.50	-6.75	
3083.00	20.900	75.700	2972.08	-118.88	93.18	642.26	1694469.85	14346716.13	39°30'26.4315"N	80°48'30.1075"W	648.98	81.745	2.67	-1.80	5.35	
3171.00	18.720	84.840	3054.89	-124.45	98.38	671.54	1694499.12	14346721.33	39°30'26.4822"N	80°48'29.7398"W	678.71	81.666	4.23	-2.48	10.15	
3259.00	19.260	91.430	3138.11	-132.80	98.33	700.11	1694527.68	14346722.28	39°30'26.4911"N	80°48'29.3692"W	707.12	81.925	2.58	0.61	7.72	
3348.00	19.470	93.570	3222.07	-143.57	98.04	729.59	1694557.15	14346721.00	39°30'26.4777"N	80°48'28.9932"W	736.15	82.346	0.83	0.24	2.40	
3436.00	18.640	90.200	3305.25	-153.78	97.08	758.29	1694585.84	14346720.03	39°30'26.4676"N	80°48'28.6270"W	764.48	82.704	1.57	-0.94	-3.83	
3525.00	18.210	93.050	3389.69	-163.63	96.29	786.40	1694613.94	14346719.24	39°30'26.4592"N	80°48'28.2684"W	792.27	83.019	1.12	-0.48	3.20	
3613.00	17.380	90.600	3473.48	-173.16	95.42	813.27	1694640.80	14346718.37	39°30'26.4501"N	80°48'27.9256"W	818.85	83.308	1.27	-0.94	-2.78	
3702.00	18.000	89.900	3558.28	-182.02	95.31	840.32	1694667.83	14346718.26	39°30'26.4484"N	80°48'27.5608"W	845.71	83.529	0.74	0.70	-0.79	
3790.00	18.630	90.940	3641.82	-191.18	95.10	867.87	1694695.47	14346718.05	39°30'26.4457"N	80°48'27.2278"W	873.16	83.747	0.81	0.72	1.18	
3882.00	18.550	90.320	3729.02	-200.98	94.78	897.30	1694724.79	14346717.73	39°30'26.4419"N	80°48'26.8536"W	902.29	83.970	0.23	-0.09	-0.67	
3971.00	16.670	87.440	3813.84	-209.23	95.27	924.21	1694751.69	14346718.22	39°30'26.4462"N	80°48'26.5103"W	929.11	84.115	2.33	-2.11	-3.24	
4059.00	16.720	86.540	3898.14	-215.16	96.60	949.45	1694776.92	14346719.55	39°30'26.4588"N	80°48'26.1882"W	954.35	84.191	0.30	0.06	-1.02	
4147.00	17.530	85.740	3982.23	-223.10	98.11	975.32	1694802.78	14346721.07	39°30'26.4733"N	80°48'25.8581"W	980.24	84.256	0.92	0.92	0.23	
4236.00	18.110	84.940	4066.95	-230.02	100.10	1002.48	1694829.93	14346723.05	39°30'26.4923"N	80°48'25.5115"W	1007.47	84.298	0.90	0.65	-2.02	
4324.00	18.250	82.240	4150.57	-235.95	103.16	1029.76	1694857.20	14346726.11	39°30'26.5220"N	80°48'25.1635"W	1034.91	84.279	0.97	0.16	-3.07	
4413.00	18.430	81.500	4235.05	-241.19	107.12	1057.48	1694884.91	14346730.07	39°30'26.5606"N	80°48'24.8097"W	1062.89	84.216	0.33	0.20	-0.83	
4501.00	18.520	82.500	4318.52	-246.46	111.01	1085.09	1694912.51	14346733.95	39°30'26.5983"N	80°48'24.4573"W	1090.76	84.159	0.37	0.10	1.14	
4590.00	18.980	85.300	4402.89	-252.73	114.01	1113.24	1694940.65	14346736.96	39°30'26.6274"N	80°48'24.0981"W	1119.06	84.152	1.00	0.07	3.15	
4678.00	19.360	86.390	4486.11	-260.02	116.08	1141.77	1694969.17	14346739.02	39°30'26.6473"N	80°48'23.7340"W	1147.66	84.195	0.97	0.89	1.24	
4767.00	20.200	91.830	4569.87	-268.35	116.52	1171.85	1694999.24	14346739.46	39°30'26.6510"N	80°48'23.3502"W	1177.63	84.322	2.27	0.94	6.11	
4855.00	20.740	96.290	4652.32	-281.36	114.33	1202.53	1695029.90	14346737.27	39°30'26.6296"N	80°48'22.9589"W	1207.85	84.569	1.88	0.61	5.07	
4944.00	20.720	93.640	4735.56	-294.10	111.80	1233.91	1695061.26	14346734.54	39°30'26.6010"N	80°48'22.5587"W	1236.94	84.832	1.05	-0.02	-2.98	
5032.00	20.190	92.500	4818.01	-305.51	109.64	1264.61	1695091.96	14346732.89	39°30'26.5641"N	80°48'22.1670"W	1269.38	85.031	0.75	-0.60	-1.30	
5120.00	20.580	88.670	4900.50	-315.82	109.64	1295.25	1695123.58	14346735.59	39°30'26.5804"N	80°48'21.7761"W	1299.88	85.161	1.58	0.44	-4.35	
5208.00	20.580	88.370	4983.82	-325.19	110.45	1326.52	1695155.85	14346733.40	39°30'26.5877"N	80°48'21.3771"W	1331.11	85.240	0.12	0.00	-0.34	
5297.00	21.140	87.530	5066.05	-334.27	111.58	1357.84	1695185.15	14346734.52	39°30'26.5962"N	80°48'20.9776"W	1362.42	85.302	0.72	0.64	-0.95	
5386.00	19.500	82.700	5149.52	-341.79	114.16	1388.61	1695215.91	14346737.10	39°30'26.6230"N	80°48'20.5849"W	1393.30	85.300	2.63	-1.84	-5.43	
5474.00	19.000	82.450	5232.80	-347.57	117.90	1417.38	1695244.66	14346740.85	39°30'26.6584"N	80°48'20.2177"W	1422.28	85.245	0.58	-0.57	-0.26	

# Actual Wellpath Report

Tapeats Unit 1H AWP Proj: 23456'  
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REFERENCE WELLPATH IDENTIFICATION		Well
Operator	ANTERO RESOURCES CORPORATION	Tapeats Unit 1H
Field	Tyler	API
Facility	Grand Pad	Wellbore
Slot	Slot #03	Tapeats Unit 1H AWB

MD	Inclination	Azimuth	TVD	Vert Set	North	East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
5562.00	18.550	83.180	1345.91	-353.32	121.45	1445.48	1695272.75	39°30'26.6939°N	80°48'19.6591°W	1450.57	85.197	0.58	-0.51	-0.51	0.83
5651.00	17.960	76.600	5400.44	-358.31	125.61	1473.03	1695300.30	39°30'26.7544°N	80°48'19.5075°W	1478.38	85.126	1.42	-0.66	-0.66	-4.02
5739.00	16.740	54.840	5484.43	-361.57	130.95	1498.72	1695325.99	39°30'26.8666°N	80°48'19.1979°W	1504.43	85.007	1.68	-1.39	-1.39	-3.17
5828.00	16.280	73.950	5593.77	-363.47	137.32	1523.19	1695350.43	39°30'26.8481°N	80°48'18.8673°W	1529.36	84.848	1.05	-0.52	-0.52	-8.31
5916.00	15.390	68.770	5954.43	-363.61	144.96	1545.93	1695373.16	39°30'27.0073°N	80°48'18.5707°W	1552.71	84.643	1.00	-1.01	-1.01	-5.89
6004.00	13.990	66.520	5739.55	-362.28	153.43	1568.57	1695393.79	39°30'27.0956°N	80°48'18.3134°W	1574.06	84.406	1.72	-1.59	-1.59	-2.56
6093.00	12.930	61.970	5825.11	-359.84	162.39	1595.23	1695412.44	39°30'27.1937°N	80°48'17.9608°W	1593.52	84.151	1.88	-1.19	-1.19	-5.11
6204.00	12.910	56.100	5934.34	-354.55	175.19	1608.25	1695433.46	39°30'27.2216°N	80°48'17.8065°W	1611.25	83.859	1.38	-0.24	-0.24	-6.15
6293.00	12.710	65.090	6021.13	-349.44	186.20	1622.63	1695449.83	39°30'27.3300°N	80°48'17.5973°W	1633.27	83.776	0.94	0.83	-2.00	H AT Curve <-8-1/2"> (6181)(6204-23431)
6381.00	12.720	56.120	6106.97	-344.43	197.00	1639.70	1695465.90	39°30'27.4364°N	80°48'17.3919°W	1650.50	83.454	0.22	-0.22	-0.01	-0.01
6469.00	12.770	55.650	6192.80	-339.33	207.89	1654.78	1695481.97	39°30'27.5437°N	80°48'17.1865°W	1667.78	82.840	0.13	0.06	-0.53	-0.53
6558.00	12.870	55.980	6279.57	-334.11	219.02	1671.18	1695498.36	39°30'27.6534°N	80°48'16.9770°W	1685.47	82.533	0.24	0.22	0.37	0.37
6646.00	18.340	39.080	6364.31	-324.18	235.32	1688.11	1695515.29	39°30'27.8141°N	80°48'16.7605°W	1704.43	82.064	7.95	6.10	-19.20	-19.20
6735.00	24.000	29.510	6441.30	-304.72	261.97	1705.87	1695533.04	39°30'28.0771°N	80°48'16.5332°W	1725.87	81.269	7.43	6.36	-10.75	-10.75
6823.00	29.610	21.740	6525.83	-276.31	297.78	1722.78	1695549.92	39°30'28.4305°N	80°48'16.3167°W	1748.30	80.193	7.50	6.37	-8.83	-8.83
6846.00	31.162	17.952	6545.68	-267.24	308.72	1726.70	1695553.86	39°30'28.5387°N	80°48'16.1598°W	1754.08	79.863	10.72	6.75	-16.47	Scamers: 6846' MD
6912.00	36.130	8.830	6600.64	-236.31	344.23	1734.96	1695562.12	39°30'28.8895°N	80°48'16.1598°W	1768.78	78.778	10.72	7.53	-13.82	-13.82
6988.00	41.870	0.210	6659.72	-192.44	391.81	1738.50	1695565.65	39°30'29.3597°N	80°48'16.1133°W	1782.10	77.289	10.38	7.55	-11.34	Middlesex: 6988' MD
7000.00	42.830	359.030	6668.59	-184.78	399.90	1738.44	1695565.60	39°30'29.4396°N	80°48'16.1138°W	1783.84	77.046	10.38	7.99	-9.83	-9.83
7088.00	52.220	354.730	6728.64	-121.66	465.33	1734.69	1695581.85	39°30'30.0864°N	80°48'16.1589°W	1796.02	74.954	11.13	10.55	-4.83	-4.83
7144.00	57.941	352.530	6760.11	-77.65	510.12	1729.66	1695582.82	39°30'30.5282°N	80°48'16.2228°W	1803.31	73.568	10.91	10.40	-4.00	Turnkett: 7144' MD
7177.00	61.390	351.340	6776.77	-49.68	538.32	1725.66	1695582.82	39°30'30.8079°N	80°48'16.2731°W	1807.87	72.675	10.91	10.45	-3.51	-3.51
7207.00	63.970	349.924	6790.54	-23.39	564.61	1721.32	1695548.48	39°30'31.0679°N	80°48'16.3277°W	1811.55	71.840	9.57	8.60	-4.72	ully: 7207' MD
7266.00	69.080	347.310	6814.04	30.24	617.63	1710.62	1695537.78	39°30'31.5922°N	80°48'16.4628°W	1818.70	70.147	9.57	8.66	-4.43	-4.43
7354.00	76.240	344.110	6840.26	113.90	698.96	1693.85	1695517.03	39°30'32.3964°N	80°48'16.7254°W	1828.70	67.529	8.84	8.14	-3.84	-3.84
7382.00	77.820	343.293	6848.85	150.88	734.49	1679.47	1695506.65	39°30'32.7477°N	80°48'16.8570°W	1833.05	66.379	4.19	3.63	-2.15	Marcellus POE: 7382' MD
7442.00	79.440	342.230	6858.79	199.86	781.28	1694.94	1695492.13	39°30'33.2105°N	80°48'17.0410°W	1839.14	64.861	4.19	3.64	-2.13	-2.13
7531.00	84.330	342.300	6871.35	287.92	865.18	1638.11	1695465.31	39°30'34.0403°N	80°48'17.3810°W	1852.55	62.159	5.49	5.49	0.08	0.08
7619.00	89.750	341.590	6875.89	375.76	948.70	1610.88	1695438.09	39°30'34.8665°N	80°48'17.7261°W	1869.48	59.505	6.21	6.16	-0.52	-0.52

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# Actual Wellpath Report

Tapeats Unit 1H AWP Proj: 23456  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tapeats Unit 1H
Field	Tyler	API	47-095-02713-0000
Facility	Grand Pad	Wellbore	Tapeats Unit 1H AWB
Slot	Slot #03		

## WELLPATH DATA (269 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
7708.00	89.570	340.510	6876.42	464.76	1032.87	1581.97	1695409.19	14347655.45	39°30'35.6988"N	80°48'18.0926"W	1889.30	56.859	1.22	-0.20	-1.20	
7796.00	89.750	341.310	6876.94	552.75	1116.03	1553.19	1695380.42	14347738.57	39°30'36.5213"N	80°48'18.4575"W	1912.57	54.301	0.93	0.20	0.91	
7885.00	90.030	341.400	6877.12	641.75	1200.36	1425.74	1695351.98	14347922.87	39°30'37.3554"N	80°48'18.8182"W	1940.54	51.789	0.33	0.31	-1.10	
7973.00	89.290	339.990	6877.84	729.75	1283.41	1495.64	1695322.90	14347990.58	39°30'38.1768"N	80°48'19.1871"W	1970.81	49.967	1.81	-0.84	-1.60	
8062.00	89.970	340.150	6878.21	818.73	1367.07	1465.31	1695292.57	14347969.52	39°30'39.0044"N	80°48'19.5719"W	2004.00	48.986	0.78	0.76	0.18	
8150.00	88.030	340.390	6878.75	905.70	1449.89	1435.61	1695262.88	14348072.30	39°30'39.8235"N	80°48'19.9485"W	2040.38	44.716	2.22	-2.20	0.27	
8239.00	89.820	340.840	6881.42	995.68	1533.83	1406.07	1695233.36	14348156.21	39°30'40.6537"N	80°48'20.3230"W	2080.78	42.512	2.07	2.01	0.51	
8327.00	89.140	341.150	6883.22	1083.68	1617.03	1377.42	1695204.72	14348239.37	39°30'41.4766"N	80°48'20.6964"W	2124.16	40.425	0.85	-0.77	0.35	
8416.00	89.820	341.530	6883.02	1172.67	1701.34	1348.94	1695176.25	14348323.66	39°30'42.3105"N	80°48'21.0473"W	2171.22	38.410	0.88	0.76	0.43	
8504.00	89.140	340.200	6883.82	1260.66	1784.48	1320.10	1695147.42	14348406.75	39°30'43.1828"N	80°48'21.4131"W	2218.68	36.493	1.70	-0.77	-1.51	
8593.00	89.890	341.250	6885.35	1349.65	1868.47	1290.72	1695118.06	14348490.72	39°30'43.9636"N	80°48'21.7855"W	2270.94	34.636	1.21	-0.28	1.18	
8681.00	89.830	341.320	6887.10	1437.63	1951.80	1262.49	1695089.84	14348574.02	39°30'44.7877"N	80°48'22.1434"W	2324.53	32.896	0.10	-0.07	0.08	
8770.00	88.740	339.980	6888.99	1526.60	2035.76	1233.01	1695060.37	14348657.93	39°30'45.6181"N	80°48'22.5173"W	2380.05	31.202	1.51	-0.10	-1.51	
8858.00	88.800	340.220	6890.88	1614.57	2118.48	1203.07	1695030.44	14348740.63	39°30'46.4363"N	80°48'22.8971"W	2436.25	29.592	0.28	0.07	0.27	
8947.00	89.700	339.980	6892.43	1703.54	2202.15	1172.78	1695000.16	14348824.37	39°30'47.2639"N	80°48'23.2813"W	2494.97	28.038	0.52	0.45	-0.27	
9035.00	89.420	341.540	6893.49	1791.53	2285.23	1143.78	1694971.17	14348907.31	39°30'48.0856"N	80°48'23.6490"W	2555.49	26.588	1.79	0.25	1.77	
9124.00	89.350	341.080	6894.45	1880.53	2369.53	1115.26	1694942.67	14348991.58	39°30'48.9194"N	80°48'24.0105"W	2618.87	25.205	0.52	-0.08	-0.52	
9212.00	90.000	341.940	6894.95	1968.99	2452.99	1087.36	1694914.77	14349075.00	39°30'49.7448"N	80°48'24.3643"W	2683.19	23.907	1.22	0.74	0.98	
9301.00	89.630	340.630	6895.23	2057.52	2537.28	1058.80	1694886.23	14349159.26	39°30'50.5785"N	80°48'24.7263"W	2749.33	22.651	1.53	-0.42	-1.47	
9389.00	90.060	341.060	6895.47	2145.52	2620.41	1029.92	1694857.36	14349242.35	39°30'51.4007"N	80°48'25.0925"W	2815.54	21.457	0.69	0.49	0.49	
9478.00	89.880	341.510	6895.52	2234.52	2704.70	1001.37	1694828.82	14349326.61	39°30'52.2344"N	80°48'25.4546"W	2884.12	20.316	0.54	-0.20	0.51	
9566.00	89.290	340.950	6896.16	2322.51	2788.02	973.05	1694800.52	14349409.90	39°30'53.0584"N	80°48'25.8136"W	2952.94	19.240	0.92	-0.67	-0.64	
9655.00	90.250	340.870	6896.51	2411.51	2872.12	943.95	1694771.42	14349493.97	39°30'53.8903"N	80°48'26.1826"W	3023.26	18.194	1.08	1.08	-0.09	
9743.00	89.140	341.520	6896.98	2499.51	2955.42	915.58	1694743.07	14349577.23	39°30'54.7142"N	80°48'26.5423"W	3093.99	17.213	1.46	-1.26	0.74	
9832.00	89.780	340.540	6897.82	2588.50	3039.58	886.65	1694714.15	14349661.36	39°30'55.5466"N	80°48'26.9091"W	3166.26	16.262	1.32	0.72	-1.10	
9920.00	89.420	341.540	6898.44	2676.50	3122.80	858.06	1694685.57	14349744.55	39°30'56.3697"N	80°48'27.2717"W	3238.54	15.364	1.21	-0.41	-1.14	
10009.00	89.480	340.940	6899.29	2765.49	3207.07	829.44	1694656.98	14349828.78	39°30'57.2031"N	80°48'27.6346"W	3312.59	14.501	0.68	0.07	-0.67	
10097.00	89.480	341.240	6900.09	2853.49	3290.32	800.92	1694628.45	14349912.00	39°30'58.0265"N	80°48'27.9962"W	3386.40	13.681	0.34	0.00	0.34	
10186.00	89.750	341.390	6900.69	2942.49	3374.63	772.41	1694599.95	14349996.27	39°30'58.8603"N	80°48'28.3577"W	3461.89	12.892	0.36	0.30	0.17	
10274.00	89.480	341.850	6901.28	3030.48	3456.13	744.66	1694572.21	14350079.75	39°30'59.6862"N	80°48'28.7095"W	3537.40	12.152	0.81	-0.31	0.52	

Operator	ANTERO RESOURCES CORPORATION	Well	Tapeats Unit 1H
Field	Tyler	API	47-095-02713-0000
Facility	Grand Pad	Wellbore	Tapeats Unit 1H AWB
Slot	Slot #03		

MD [ft]	Inclination [°]	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 [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
10363.00		6901.92	3119.48	3542.50	716.93	1694543.99	14350164.08	39°31'10.5207"N	80°48'29.0687"W	3614.20	11.432	0.96	0.24	-0.93	
10451.00		6902.68	3207.47	3625.75	687.80	1694515.38	14350247.29	39°31'11.3440"N	80°48'29.4300"W	3690.41	10.741	0.45	-0.42	0.15	
10540.00		6903.81	3296.46	3709.81	658.59	1694486.17	14350331.32	39°31'12.1764"N	80°48'29.8008"W	3767.81	10.067	0.71	-0.10	-0.71	
10628.00		6904.71	3384.46	3792.83	629.44	1694457.04	14350414.31	39°31'12.9966"N	80°48'30.1705"W	3844.71	9.423	0.65	0.42	0.32	
10716.00		6905.68	3472.45	3876.02	600.75	1694428.36	14350497.46	39°31'13.8194"N	80°48'30.5344"W	3922.30	8.810	0.65	-0.52	0.39	
10805.00		6906.96	3561.44	3960.32	572.24	1694399.86	14350581.76	39°31'14.6531"N	80°48'30.8960"W	4001.45	8.222	0.39	0.07	0.38	
10893.00		6907.79	3649.44	4043.77	544.33	1694371.96	14350665.15	39°31'15.4785"N	80°48'31.2498"W	4080.24	7.666	1.05	0.59	0.07	
10982.00		6908.97	3738.43	4128.08	515.83	1694343.48	14350749.42	39°31'16.3173"N	80°48'31.6111"W	4160.18	7.123	1.05	-0.93	-0.48	
11070.00		6910.25	3826.41	4211.48	487.79	1694315.45	14350832.79	39°31'17.1727"N	80°48'31.9667"W	4239.63	6.607	0.85	0.49	0.69	
11159.00		6911.47	3915.40	4296.07	460.17	1694287.83	14350917.35	39°31'18.0748"N	80°48'32.3169"W	4320.65	6.114	0.50	-0.24	0.44	
11247.00		6912.32	4003.38	4378.72	432.84	1694260.52	14351000.96	39°31'18.9011"N	80°48'32.6633"W	4401.06	5.644	0.89	0.76	-0.45	
11336.00		6913.38	4092.37	4464.21	404.91	1694232.59	14351085.42	39°31'19.6368"N	80°48'33.0175"W	4482.54	5.163	1.03	-1.03	-0.01	
11424.00		6914.20	4180.35	4547.58	376.70	1694204.49	14351168.76	39°31'20.4613"N	80°48'33.3739"W	4563.16	4.736	0.77	-0.10	-0.76	
11513.00		6915.20	4269.34	4631.81	348.06	1694175.77	14351252.95	39°31'21.2944"N	80°48'33.7383"W	4644.87	4.297	2.40	2.38	0.30	
11601.00		6916.45	4357.34	4715.25	320.12	1694147.84	14351336.36	39°31'22.1196"N	80°48'34.0926"W	4726.11	3.894	1.16	-1.08	0.42	
11690.00		6917.99	4446.33	4799.23	290.67	1694118.40	14351420.31	39°31'22.9503"N	80°48'34.4661"W	4808.03	3.466	2.24	-0.10	-2.24	
11778.00		6919.48	4534.31	4881.85	260.36	1694088.11	14351502.89	39°31'23.7674"N	80°48'34.8506"W	4888.79	3.053	0.55	-0.39	0.40	
11867.00		6921.30	4623.30	4965.63	230.33	1694058.09	14351586.64	39°31'24.5961"N	80°48'35.2316"W	4970.97	2.656	0.74	0.48	0.56	
11955.00		6923.00	4711.30	5048.89	201.86	1694028.63	14351669.87	39°31'25.4196"N	80°48'35.5927"W	5052.92	2.289	1.34	0.00	1.34	
12044.00		6924.70	4800.29	5132.93	172.97	1694000.35	14351753.87	39°31'26.2508"N	80°48'35.9641"W	5135.83	1.926	2.13	-0.52	-2.07	
12132.00		6926.50	4886.27	5215.63	142.49	1693970.28	14351838.54	39°31'27.0667"N	80°48'36.3457"W	5217.57	1.565	0.58	0.49	0.32	
12221.00		6928.39	4977.26	5298.46	112.61	1693940.41	14351920.34	39°31'27.8979"N	80°48'36.7248"W	5300.65	1.217	0.71	-0.48	0.52	
12309.00		6930.05	5065.26	5382.53	83.58	1693911.40	14352003.37	39°31'28.7195"N	80°48'37.0930"W	5383.18	0.890	0.36	0.20	0.30	
12397.00		6931.36	5153.25	5465.48	54.21	1693882.03	14352086.29	39°31'29.5389"N	80°48'37.4655"W	5465.75	0.568	0.90	0.32	-0.84	
12486.00		6932.43	5242.25	5549.53	24.94	1693852.78	14352169.11	39°31'30.3712"N	80°48'37.8367"W	5549.59	0.258	1.52	0.03	1.52	
12575.00		6933.86	5331.25	5633.86	-3.49	1693824.36	14352254.61	39°31'31.2053"N	80°48'38.1973"W	5633.87	359.964	0.81	0.76	-0.26	
12663.00		6935.58	5419.25	5717.18	-31.82	1693796.05	14352337.89	39°31'32.0293"N	80°48'38.5565"W	5717.27	359.681	0.94	-0.94	-0.06	
12751.00		6937.35	5507.25	5800.43	-60.34	1693767.53	14352421.11	39°31'32.8527"N	80°48'38.9163"W	5800.74	359.404	0.80	0.76	-0.26	
12840.00		6939.24	5596.24	5884.50	-89.53	1693738.36	14352505.15	39°31'33.6842"N	80°48'39.2865"W	5885.18	359.128	0.35	-0.24	-0.26	
12928.00		6941.30	5684.20	5966.94	-120.31	1693707.59	14352587.55	39°31'34.5956"N	80°48'39.6591"W	5966.15	358.845	2.76	0.03	-2.76	

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Taylor
Facility	Grand Pad
Slot	Slot #03
Tapeats Unit 1H	
Well API	47-095-02713-0000
Wellbore	Tapeats Unit 1H AWE

WELLPATH DATA (269 stations)																
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	ft	ft	°	°	ft	°	ft/100ft	ft/100ft	°/100ft	
13017.00	90.250	336.800	6915.86	5773.03	6049.19	-154.29	1693873.62	14352669.77	39°31'25.3132"N	80°48'40.1105"W	6051.16	358.539	1.70	-0.07	-1.70	
13105.00	90.310	335.950	6915.43	5860.73	6129.81	-189.55	1693868.37	14352750.36	39°31'26.1108"N	80°48'40.5584"W	6132.74	358.229	0.97	0.07	-0.97	
13184.00	90.180	339.080	6915.05	5949.54	6212.04	-223.59	1693904.35	14352832.55	39°31'26.9241"N	80°48'40.9905"W	6216.06	357.939	3.52	-0.15	3.52	
13282.00	90.620	341.430	6914.43	6037.52	6294.86	-253.31	1693574.64	14352915.94	39°31'27.7433"N	80°48'41.3676"W	6299.95	357.686	2.72	0.50	2.67	
13371.00	90.310	341.190	6913.71	6126.52	6379.16	-281.83	1693546.13	14352999.81	39°31'28.5771"N	80°48'41.7293"W	6385.38	357.470	0.44	-0.35	-0.27	
13459.00	90.090	341.110	6913.41	6214.52	6462.44	-310.26	1693517.71	14353082.85	39°31'29.4007"N	80°48'42.0899"W	6469.88	357.251	0.27	-0.25	-0.09	
13547.00	90.000	342.150	6913.34	6302.51	6545.99	-338.00	1693489.99	14353166.33	39°31'30.2267"N	80°48'42.4416"W	6554.67	357.044	1.19	-0.10	1.18	
13636.00	90.220	341.820	6913.17	6391.50	6630.59	-365.52	1693462.47	14353250.94	39°31'31.0937"N	80°48'42.7905"W	6640.66	356.845	0.45	0.25	-0.37	
13724.00	90.710	343.180	6912.45	6479.47	6714.51	-391.98	1693436.02	14353334.82	39°31'31.8937"N	80°48'43.1260"W	6725.94	356.659	1.64	0.56	1.55	
13813.00	90.740	342.770	6911.33	6568.42	6799.60	-418.04	1693409.08	14353419.88	39°31'32.7353"N	80°48'43.4562"W	6812.44	356.482	0.46	0.03	-0.46	
13901.00	90.310	341.630	6910.52	6656.18	6883.39	-444.94	1693383.09	14353503.83	39°31'33.5639"N	80°48'43.7973"W	6897.75	356.302	1.38	-0.49	-1.30	
13989.00	90.550	341.830	6909.85	6744.39	6966.95	-472.52	1693355.51	14353587.16	39°31'34.3903"N	80°48'44.1471"W	6982.95	356.120	0.36	0.27	0.23	
14078.00	90.370	342.320	6909.14	6833.37	7051.63	-499.91	1693328.13	14353671.90	39°31'35.2277"N	80°48'44.4944"W	7069.32	355.945	0.59	-0.20	0.55	
14167.00	90.340	341.900	6908.59	6922.35	7136.32	-527.25	1693300.81	14353756.46	39°31'36.0654"N	80°48'44.8410"W	7155.77	355.774	0.47	-0.03	-0.47	
14255.00	90.430	342.110	6908.00	7010.34	7220.01	-554.44	1693273.63	14353840.12	39°31'36.8931"N	80°48'45.1857"W	7241.27	355.609	0.26	0.10	0.24	
14344.00	90.430	342.440	6907.33	7099.32	7304.78	-581.53	1693246.55	14353924.85	39°31'37.7315"N	80°48'45.5293"W	7327.90	355.448	0.37	0.00	0.37	
14432.00	90.250	341.960	6906.81	7187.30	7388.57	-608.44	1693219.66	14354008.82	39°31'38.5601"N	80°48'45.8703"W	7413.58	355.292	0.58	-0.20	-0.55	
14521.00	90.280	341.780	6906.40	7276.29	7473.15	-636.13	1693191.97	14354093.16	39°31'39.3966"N	80°48'46.2215"W	7500.18	355.135	0.21	0.03	-0.20	
14609.00	90.180	341.460	6905.05	7364.29	7556.66	-663.88	1693164.24	14354176.64	39°31'40.2225"N	80°48'46.5734"W	7585.77	354.979	0.38	-0.11	-0.36	
14697.00	90.460	342.090	6905.55	7452.28	7640.25	-691.40	1693136.73	14354260.19	39°31'41.0492"N	80°48'46.9224"W	7671.47	354.829	0.78	0.32	0.72	
14786.00	90.580	344.590	6904.75	7541.20	7725.50	-716.91	1693111.22	14354345.41	39°31'41.8923"N	80°48'47.2458"W	7758.69	354.688	2.81	0.13	2.81	
14874.00	90.430	342.990	6903.97	7629.10	7810.00	-741.48	1693086.67	14354429.87	39°31'42.7279"N	80°48'47.5570"W	7845.11	354.577	1.83	-0.17	-1.82	
14963.00	90.680	343.130	6903.11	7718.04	7895.13	-767.41	1693060.75	14354514.97	39°31'43.5698"N	80°48'47.8857"W	7932.34	354.448	0.32	0.28	0.16	
15051.00	90.060	339.430	6902.54	7806.02	7978.46	-795.64	1693032.52	14354598.27	39°31'44.3340"N	80°48'48.2498"W	8018.03	354.305	4.26	-0.70	-4.20	
15139.00	90.490	340.370	6902.12	7894.00	8061.10	-825.88	1693002.28	14354680.87	39°31'45.2113"N	80°48'48.6276"W	8103.29	354.150	1.17	0.49	1.07	
15228.00	90.400	340.860	6901.43	7983.03	8145.05	-855.41	1692972.78	14354764.79	39°31'46.0417"N	80°48'49.0022"W	8189.85	354.005	0.58	-0.10	0.57	
15316.00	90.280	340.360	6900.90	8070.99	8228.06	-884.61	1692943.59	14354847.77	39°31'46.8627"N	80°48'49.3726"W	8275.48	353.864	0.61	-0.14	-0.59	
15405.00	90.490	340.050	6900.31	8159.98	8311.80	-914.75	1692913.47	14354931.48	39°31'47.6910"N	80°48'49.7551"W	8361.99	353.720	0.42	0.24	-0.35	
15493.00	90.520	340.080	6899.53	8247.96	8394.53	-944.75	1692883.47	14355014.17	39°31'48.5092"N	80°48'50.1358"W	8447.52	353.579	0.05	0.03	0.03	
15582.00	90.180	340.310	6898.99	8336.95	8478.26	-974.91	1692853.33	14355097.87	39°31'49.3373"N	80°48'50.5184"W	8534.13	353.440	0.46	-0.38	0.26	





# Actual Wellpath Report

Tapeats Unit 1H AWP Proj: 23456  
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Operator	ANTERO RESOURCES CORPORATION	Well	Tapeats Unit 1H
Field	Tyler	API	47-495-02713-0000
Facility	Grand Pad	Wellbore	Tapeats Unit 1H AWP
Slot	Slot #03		

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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
15670.00	90.000	340.200	6898.85	8424.94	8561.09	-1004.64	16922823.61	14355180.66	39°31'50.1566"N	80°48'50.8857"W	8619.83	353.307	0.24	-0.20	-0.12	
15750.00	90.340	340.630	6898.59	8512.93	8644.05	-1033.99	1692194.27	14355263.59	39°31'50.9770"N	80°48'51.2688"W	8705.67	353.179	0.81	0.39	0.72	
15847.00	90.430	340.790	6897.99	8601.93	8728.10	-1063.24	1692765.03	14355347.61	39°31'51.8084"N	80°48'51.6392"W	8792.62	353.055	0.11	0.10	-0.04	
15935.00	91.690	338.380	6896.36	8689.88	8810.55	-1093.93	1692734.35	14355430.03	39°31'52.6239"N	80°48'52.0287"W	8878.20	352.922	3.09	1.43	-2.74	
16024.00	92.060	331.590	6893.45	8778.27	8891.11	-1131.52	1692696.78	14355510.56	39°31'53.4209"N	80°48'52.5063"W	8962.82	352.747	7.64	0.42	-7.63	
16112.00	89.810	333.250	6891.93	8865.24	8969.09	-1172.25	1692656.08	14355598.51	39°31'54.1927"N	80°48'53.0241"W	9045.38	352.554	3.09	-2.44	1.89	
16201.00	90.120	339.060	6891.91	8953.87	9050.46	-1208.22	1692620.11	14355669.84	39°31'54.9973"N	80°48'53.4810"W	9130.75	352.380	6.53	0.24	6.53	
16289.00	89.860	341.190	6891.91	9041.85	9133.21	-1238.13	1692590.21	14355752.56	39°31'55.8159"N	80°48'53.8606"W	9216.76	352.280	2.44	-0.27	2.42	
16378.00	90.950	344.330	6891.27	9130.80	9218.20	-1264.51	1692563.85	14355837.52	39°31'56.6593"N	80°48'54.1950"W	9304.53	352.189	3.73	1.20	3.53	
16466.00	90.950	344.210	6889.81	9218.66	9302.89	-1286.36	1692540.00	14355922.18	39°31'57.4938"N	80°48'54.4977"W	9391.88	352.115	0.14	0.00	-0.14	
16555.00	90.830	343.930	6888.42	9307.52	9388.47	-1312.79	1692515.59	14356007.71	39°31'58.3400"N	80°48'54.8067"W	9479.81	352.040	0.34	-0.13	-0.31	
16643.00	90.120	343.060	6887.69	9395.44	9472.84	-1337.78	1692490.60	14356092.05	39°31'59.1744"N	80°48'55.1235"W	9566.63	351.962	1.28	-0.81	-0.99	
16731.00	90.550	343.940	6887.18	9483.36	9557.21	-1362.78	1692465.82	14356176.39	39°32'00.0684"N	80°48'55.4409"W	9653.88	351.885	1.11	0.49	1.00	
16820.00	90.430	341.580	6886.42	9572.32	9642.20	-1389.15	1692439.25	14356261.35	39°32'00.8493"N	80°48'55.7747"W	9741.76	351.802	2.66	-0.13	-2.85	
16908.00	90.360	341.040	6885.64	9660.31	9729.56	-1417.35	1692411.07	14356344.67	39°32'01.6737"N	80°48'56.1324"W	9829.29	351.708	0.64	0.17	-0.61	
16997.00	90.180	341.400	6885.05	9749.31	9809.82	-1446.00	1692382.42	14356428.90	39°32'02.5071"N	80°48'56.4959"W	9915.82	351.615	0.60	-0.45	0.40	
17085.00	90.850	341.730	6884.42	9837.30	9893.30	-1473.83	1692354.61	14356512.34	39°32'03.3327"N	80°48'56.8489"W	10002.48	351.527	0.65	0.53	0.38	
17174.00	90.710	340.950	6883.36	9926.30	9977.61	-1502.30	1692328.15	14356596.63	39°32'04.1566"N	80°48'57.2101"W	10090.08	351.437	0.88	0.07	-0.88	
17262.00	90.220	341.780	6882.65	10014.29	10061.00	-1530.42	1692299.04	14356679.98	39°32'04.9913"N	80°48'57.5668"W	10176.73	351.351	1.10	-0.56	0.94	
17351.00	90.340	341.310	6882.21	10103.29	10145.42	-1558.59	1692269.88	14356764.36	39°32'05.8262"N	80°48'57.9241"W	10264.44	351.266	0.55	0.13	-0.53	
17439.00	90.310	341.520	6881.71	10191.29	10228.83	-1586.64	1692241.84	14356847.74	39°32'06.6511"N	80°48'58.2799"W	10351.15	351.183	0.24	-0.03	0.24	
17528.00	90.250	341.580	6881.28	10280.28	10313.25	-1614.81	1692213.69	14356932.13	39°32'07.4861"N	80°48'58.6372"W	10438.91	351.101	0.10	-0.07	0.07	
17616.00	90.220	341.220	6880.92	10368.28	10396.66	-1642.87	1692185.63	14357015.50	39°32'08.3109"N	80°48'58.9933"W	10525.86	351.020	0.41	-0.03	-0.41	
17705.00	90.830	341.170	6880.10	10457.27	10480.90	-1671.56	1692158.95	14357099.71	39°32'09.1441"N	80°48'59.3572"W	10613.36	350.938	0.69	0.69	0.17	
17793.00	90.490	341.320	6879.09	10545.27	10564.22	-1699.85	1692128.67	14357183.00	39°32'10.0036"N	80°48'59.7162"W	10700.11	350.859	0.42	-0.39	0.17	
17882.00	90.860	342.010	6878.04	10634.26	10648.70	-1727.85	1692100.69	14357267.44	39°32'10.8036"N	80°48'59.9828"W	10787.97	350.784	0.42	0.42	0.78	
17970.00	90.520	341.140	6876.98	10722.25	10732.18	-1755.66	1692072.89	14357350.89	39°32'11.6293"N	80°48'59.2481"W	10874.83	350.709	1.06	-0.39	-0.99	
18059.00	90.490	341.310	6876.19	10811.24	10816.44	-1784.30	1692044.26	14357435.12	39°32'12.4626"N	80°48'59.5146"W	10962.62	350.633	0.19	-0.03	0.19	
18147.00	90.830	341.160	6875.18	10899.24	10899.76	-1812.61	1692015.96	14357518.40	39°32'13.2966"N	80°48'59.7855"W	11049.45	350.558	0.42	0.39	-0.17	
18236.00	90.770	341.210	6873.94	10988.23	10984.01	-1841.27	1691987.32	14357602.62	39°32'14.1199"N	80°48'59.9828"W	11137.27	350.484	0.14	-0.07	0.12	

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# Actual Wellpath Report

Tapcasts Unit 1H AWP Proj: 23456'  
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #03
Well	Tapcasts Unit 1H
API	47-095-02713-0000
Wellbore	Tapcasts Unit 1H AWB

WELLPATH DATA (269 stations)																
ID	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)	(ft)	(ft)	(°)	(ft/100ft)	(ft/100ft)	(°/100ft)	
1824.00	90.280	341.440	6873.13	11076.22	11067.39	-1869.40	1691959.20	14357685.96	39°32'14.9445"N	80°49'1.8671"W	11224.16	350.413	0.59	-0.56	0.19	
1841.00	90.370	341.470	6872.63	11165.22	11151.76	-1897.71	1691930.90	14357770.31	39°32'15.7790"N	80°49'2.2282"W	11312.08	350.342	0.11	0.10	0.03	
18501.00	90.650	341.700	6871.84	11253.21	11235.25	-1925.50	1691903.11	14357855.76	39°32'16.6047"N	80°49'2.5788"W	11399.06	350.275	0.41	0.32	0.26	
18590.00	90.800	341.840	6870.72	11342.20	11319.78	-1953.34	1691875.29	14357938.26	39°32'17.4407"N	80°49'2.9320"W	11487.08	350.209	0.23	0.17	0.15	
18678.00	90.680	341.760	6869.58	11430.19	11403.37	-1980.83	1691847.81	14358021.81	39°32'18.2674"N	80°49'3.2806"W	11574.13	350.146	0.16	-0.14	-0.09	
18767.00	90.860	341.490	6868.38	11519.17	11487.83	-2008.88	1691819.77	14358106.23	39°32'19.1026"N	80°49'3.6385"W	11662.15	350.081	0.36	0.20	-0.30	
18855.00	90.220	341.370	6867.55	11607.17	11571.24	-2036.90	1691791.78	14358189.62	39°32'19.9276"N	80°49'3.9920"W	11749.15	350.016	0.74	-0.73	-0.14	
18944.00	90.460	341.610	6866.03	11695.16	11655.63	-2065.16	1691763.52	14358273.98	39°32'20.7622"N	80°49'4.3505"W	11837.17	349.953	0.38	0.27	0.27	
19032.00	90.060	340.940	6865.63	11784.16	11738.87	-2093.41	1691735.28	14358357.28	39°32'21.5865"N	80°49'4.7089"W	11924.17	349.889	0.89	-0.45	-0.76	
19121.00	90.370	341.160	6865.29	11873.16	11823.15	-2122.31	1691706.39	14358441.43	39°32'22.4190"N	80°49'5.0756"W	12012.12	349.824	0.43	0.35	0.25	
19209.00	90.740	341.390	6865.44	11961.15	11906.49	-2150.58	1691678.15	14358524.73	39°32'23.2432"N	80°49'5.0340"W	12099.15	349.762	0.50	0.42	0.26	
19298.00	90.650	339.280	6864.36	12050.14	11890.28	-2180.52	1691648.20	14358608.49	39°32'24.0720"N	80°49'5.6143"W	12186.94	349.693	2.40	-0.10	-2.39	
19386.00	90.520	341.370	6863.46	12138.12	12073.13	-2210.16	1691618.57	14358691.31	39°32'24.8914"N	80°49'6.1905"W	12273.76	349.626	2.40	-0.15	2.40	
19475.00	90.620	341.360	6862.58	12227.11	12157.46	-2238.58	1691590.16	14358775.61	39°32'25.7254"N	80°49'6.5511"W	12361.84	349.567	0.11	0.11	0.01	
19563.00	90.710	341.520	6861.56	12315.11	12240.89	-2266.57	1691562.18	14358859.00	39°32'26.5505"N	80°49'6.9063"W	12448.96	349.510	0.19	0.10	0.15	
19652.00	90.090	341.280	6860.93	12404.10	12325.24	-2294.86	1691533.80	14358943.31	39°32'27.3847"N	80°49'7.2664"W	12537.08	349.452	0.75	-0.70	-0.27	
19740.00	90.250	341.090	6860.67	12492.10	12408.53	-2323.94	1691505.43	14359026.57	39°32'28.2085"N	80°49'7.6286"W	12624.17	349.385	0.28	0.18	-0.22	
19829.00	90.090	341.790	6860.41	12581.10	12492.80	-2352.67	1691477.12	14359110.91	39°32'29.0429"N	80°49'7.9960"W	12712.32	349.339	0.81	-0.18	0.79	
20005.00	90.250	341.520	6859.81	12669.10	12576.38	-2379.51	1691449.29	14359194.36	39°32'29.8685"N	80°49'8.3382"W	12799.51	349.286	0.55	0.15	-0.53	
20084.00	90.430	341.470	6859.28	12754.09	12661.09	-2407.55	1691421.26	14359277.74	39°32'30.6935"N	80°49'8.6950"W	12886.69	349.232	0.23	0.03	0.23	
20182.00	90.520	341.270	6858.55	12841.09	12744.19	-2435.80	1691393.02	14359362.10	39°32'31.5281"N	80°49'9.0534"W	12974.88	349.180	0.21	0.20	-0.05	
20271.00	90.370	341.370	6857.86	13021.08	12827.58	-2463.91	1691364.92	14359446.45	39°32'32.3528"N	80°49'9.4101"W	13062.07	349.127	0.25	0.10	-0.23	
20359.00	90.250	341.440	6857.39	13111.06	12911.89	-2492.41	1691336.43	14359528.73	39°32'33.1865"N	80°49'9.7717"W	13150.24	349.074	0.20	-0.17	0.11	
20448.00	90.710	341.480	6856.64	13200.06	13007.87	-2520.48	1691306.38	14359613.10	39°32'34.0115"N	80°49'10.1278"W	13237.46	349.024	0.16	-0.14	0.08	
20625.00	90.030	341.690	6855.50	13377.05	13247.70	-2546.77	1691280.09	14359697.44	39°32'34.8460"N	80°49'10.4868"W	13325.69	348.973	0.52	0.52	0.04	
20713.00	90.030	341.290	6855.45	13465.06	13331.03	-2604.70	1691224.24	14359865.30	39°32'35.6568"N	80°49'11.1964"W	13501.23	348.877	0.40	-0.38	0.11	
20801.00	90.150	341.130	6855.31	13553.06	13414.34	-2632.67	1691196.23	14359948.71	39°32'37.3320"N	80°49'11.5513"W	13588.50	348.829	0.48	0.00	-0.48	
20890.00	90.400	341.250	6854.88	13642.05	13498.58	-2661.03	1691167.88	14360031.98	39°32'38.1558"N	80°49'11.9112"W	13675.73	348.780	0.20	0.14	-0.15	
20978.00	90.030	341.070	6854.55	13730.06	13581.87	-2689.73	1691139.19	14360116.19	39°32'38.9890"N	80°49'12.2754"W	13763.95	348.731	0.31	0.28	0.13	
						-2718.15	1691110.79	14360199.44	39°32'39.8127"N	80°49'12.6360"W	13851.19	348.683	0.47	-0.42	-0.20	

Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #03
Well	Tapeats Unit 1H
API	47-095-02713-0000
Wellbore	Tapeats Unit 1H AWB

MD [ft]	Inclination	Azimuth	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir	DLS [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [1/100ft]	Comments
21067.00	90.000	341.490	6854.53	13819.06	13666.16	-2748.71	1691082.23	14360283.70	39°32'40.6463"N	80°49'12.9985"W	13939.45	348.636	0.47	-0.03	0.47	
21155.00	90.580	341.330	6854.09	13907.06	13749.56	-2774.76	1691054.19	14360367.07	39°32'41.4712"N	80°49'13.3544"W	14026.75	348.591	0.66	-0.18	0.58	
21243.00	90.400	341.840	6853.33	13986.05	13833.08	-2802.36	1691026.41	14360450.53	39°32'42.2959"N	80°49'13.7072"W	14114.10	348.547	0.12	-0.20	0.58	
21332.00	90.430	341.740	6852.69	14084.04	13917.60	-2830.37	1690998.61	14360535.04	39°32'43.1330"N	80°49'14.0630"W	14202.48	348.505	0.12	0.03	-0.11	
21420.00	90.000	341.540	6852.36	14172.04	14001.12	-2858.09	1690970.90	14360618.52	39°32'43.9590"N	80°49'14.4117"W	14289.85	348.463	0.54	-0.48	-0.23	
21508.00	90.230	341.270	6851.69	14349.03	14168.90	-2914.47	1690942.66	14360702.89	39°32'44.7937"N	80°49'14.7702"W	14378.20	348.420	0.27	0.25	-0.10	
21597.00	90.430	341.270	6851.14	14438.03	14233.19	-2943.01	1690886.02	14360786.24	39°32'45.6183"N	80°49'15.1271"W	14465.54	348.377	0.31	0.24	-0.20	
21686.00	90.280	341.320	6850.92	14526.03	14336.53	-2971.28	1690857.76	14360863.80	39°32'46.4520"N	80°49'15.4893"W	14553.86	348.333	0.18	-0.17	0.06	
21774.00	90.000	341.200	6850.70	14615.03	14420.81	-2998.96	1690829.18	14360953.90	39°32'47.2762"N	80°49'15.8481"W	14641.19	348.291	0.35	-0.32	-0.14	
21863.00	90.250	341.190	6850.30	14703.03	14504.14	-3028.16	1690800.90	14361038.05	39°32'48.1098"N	80°49'16.2108"W	14719.53	348.249	0.35	0.31	0.15	
21951.00	90.120	341.690	6850.01	14792.02	14585.50	-3058.40	1690772.56	14361121.35	39°32'48.9339"N	80°49'16.5639"W	14816.87	348.207	0.20	-0.03	-0.19	
22040.00	90.030	341.360	6849.90	14880.02	14671.97	-3084.40	1690744.68	14361205.67	39°32'49.7682"N	80°49'16.9266"W	14905.25	348.167	0.61	-0.15	0.60	
22128.00	90.490	341.150	6849.56	14969.02	14756.24	-3113.00	1690716.10	14361289.11	39°32'50.5935"N	80°49'17.2835"W	14992.67	348.128	0.39	-0.10	-0.37	
22217.00	90.520	341.190	6848.85	15057.02	14839.53	-3141.40	1690687.70	14361373.35	39°32'51.4272"N	80°49'17.6465"W	15081.03	348.087	0.48	0.42	-0.24	
22306.00	91.050	341.230	6847.84	15146.01	14923.78	-3170.06	1690659.05	14361456.80	39°32'52.2509"N	80°49'18.0069"W	15168.39	348.047	0.14	0.14	0.05	
22394.00	90.400	339.960	6846.52	15234.00	15006.77	-3198.30	1690629.83	14361540.82	39°32'53.0841"N	80°49'18.3707"W	15256.75	348.008	0.60	0.04	0.04	
22482.00	90.310	340.340	6845.97	15322.98	15090.48	-3226.52	1690599.62	14361623.78	39°32'53.9049"N	80°49'18.7418"W	15344.01	347.965	1.82	-0.74	-1.44	
22571.00	90.430	340.120	6845.36	15410.97	15173.29	-3254.28	1690569.87	14361707.46	39°32'54.7328"N	80°49'19.1265"W	15432.19	347.920	0.44	-0.10	0.43	
22660.00	90.580	340.460	6844.53	15498.96	15266.18	-3282.96	1690540.20	14361791.04	39°32'55.5518"N	80°49'19.5033"W	15519.40	347.877	0.32	0.20	-0.25	
22749.00	90.280	340.200	6843.63	15587.94	15358.94	-3311.91	1690510.26	14361873.04	39°32'56.3711"N	80°49'19.8801"W	15606.63	347.834	0.40	0.10	0.39	
22838.00	90.520	340.070	6842.35	15675.93	15452.69	-3340.84	1690480.35	14361956.81	39°32'57.2000"N	80°49'20.2604"W	15694.87	347.792	0.29	0.00	-0.29	
22927.00	90.430	340.480	6841.62	15764.91	15546.35	-3370.20	1690450.00	14362039.53	39°32'58.0184"N	80°49'20.6403"W	15782.08	347.749	0.39	-0.34	-0.18	
23015.00	90.490	340.480	6840.93	15852.90	15639.05	-3400.80	1690420.31	14362123.16	39°32'58.8456"N	80°49'21.0258"W	15870.28	347.706	0.27	0.27	0.03	
23103.00	90.460	340.420	6840.20	15941.89	15733.88	-3430.88	1690390.54	14362205.96	39°32'59.6651"N	80°49'21.4078"W	15957.54	347.665	0.48	-0.10	0.47	
23191.00	90.490	340.550	6839.44	16029.88	15825.99	-3460.07	1690361.16	14362289.72	39°33'0.4145"N	80°49'21.7809"W	16045.84	347.625	0.08	0.03	-0.07	
23279.00	90.490	340.520	6838.44	16118.87	15919.90	-3489.73	1690331.51	14362372.70	39°33'1.3149"N	80°49'22.1541"W	16133.16	347.586	0.15	0.03	0.15	
23367.00	90.740	340.130	6838.75	16207.86	16013.78	-3519.28	1690309.98	14362456.58	39°33'2.1447"N	80°49'22.5306"W	16221.49	347.548	0.03	0.00	-0.03	
23455.00	90.490	340.130	6838.43	16297.86	16107.86	-3549.27	1690309.98	14362540.31	39°33'2.9722"N	80°49'22.9120"W	16309.77	347.508	0.00	0.00	-0.61	
23543.00	90.740	340.130	6838.43	16387.86	16207.86	-3579.27	1690301.48	14362624.04	39°33'3.8449"N	80°49'23.2849"W	16405.84	347.467	0.00	0.00	0.00	Projected MD at TD: 23456'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	105.50	80.00	105.50	105.50	105.50	105.50	105.50	105.50
17.5in Open Hole	105.50	400.00	294.50	400.00	105.50	-0.02	-0.02	0.00	-0.02
13.375in Casing Surface	25.50	380.20	354.70	2687.00	25.50	380.20	380.20	0.00	0.19
12.25in Open Hole	400.00	2687.00	2287.00	2687.00	400.00	2603.49	2603.49	0.00	-0.41
9.625in Casing Intermediate	25.50	2687.00	2641.50	2687.00	25.50	2584.97	2584.97	0.00	1.29
8.75in Open Hole	2687.00	6246.00	3559.00	2603.49	2603.49	5975.29	5975.29	0.00	60.38
8.5in Open Hole	6246.00	23456.00	17210.00	5975.29	5975.29	6638.43	501.44	180.40	501.44
5.5in Casing Production	25.50	23456.00	23430.50	23456.00	25.50	6638.43	1614.01	15923.67	-3527.77

TARGETS	Name	North [ft]	East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude	Shape
Tapeats Unit 1H POE Rev-1	6849.90	689.96	1687.53	1695514.71	14347312.67	39°30'32.3074"N	80°48'16.7555"W	point
Tapeats Unit 1H BHL Rev-2	6875.00	1595.74	-3538.84	1690290.42	14362573.37	39°33'3.3003"N	80°49'23.0524"W	point
Tapeats Unit 1H LP Rev-2	6875.00	870.87	1625.60	1695452.80	14347493.62	39°30'34.0868"N	80°48'17.5405"W	point
Tapeats Unit 1H L/R Hard Line	700.00	8323.35	-925.65	1692502.57	14354943.02	39°31'47.8053"N	80°48'49.9939"W	rectangle

2D Rectangle 16136.6 x 10.0

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**Actual Wellpath Report**  
Tapeats Unit 1H AWP Proj: 23456  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tapeats Unit 1H
Field	Tyler	API	47-095-02713-0000
Facility	Grand Pad	Wellbore	Tapeats Unit 1H AWB
Slot	Slot #03		

WELLPATH COMPOSITION - Ref Wellbore: Tapeats Unit 1H AWB Ref Wellpath: Tapeats Unit 1H AWP Proj: 23456				
Start MID	End MID	Log Name/Comment	Wellbore	Survey Date
25.50	400.00	(R) Gyrodats 2015 - GC+WIR+DPIPE		
400.00	600.00	Gyrodats 2015 - GC+WIR+DPIPE	Tapeats Unit 1H AWB	12/Mar/2021
600.00	2611.00	BH NavitTrak (2019) (Axial Corr+HRGM)	Tapeats Unit 1H AWB	14/Mar/2021
2611.00	6181.00	BH NavitTrak (2019) (Axial Corr+HRGM)	Tapeats Unit 1H AWB	12/Mar/2021
6181.00	23458.00	EH AutoTrak CurveXpress (2019) (HRGM, Short spacing)	Tapeats Unit 1H AWB	02/Apr/2021
		01 Gyrodats MS Gyro <17-1/2"> (100'-400')	Tapeats Unit 1H AWB	02/Apr/2021
		02 Gyrodats MS Gyro <12-1/4"> (400') (500'-600')	Tapeats Unit 1H AWB	02/Apr/2021
		03 AFS EM <12-1/4"> (600') (870'-2611')	Tapeats Unit 1H AWB	02/Apr/2021
		04 AFS EM <8-3/4"> (2611') (2729'-6181')	Tapeats Unit 1H AWB	02/Apr/2021
		05 BH AT Curve <8-1/2"> (6181') (6204'-23431')	Tapeats Unit 1H AWB	02/Apr/2021



**Actual Wellpath Report**  
Tapeats Unit 1H AWP Proj: 23456  
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REFERENCE WELL PATH: PENNINGTON	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #03
Well	Tapeats Unit 1H
API	47-095-02713-0000
Wellbore	Tapeats Unit 1H AWB

**COMMENTS**

Wellbath general comments  
API: 47-095-02713-0000  
BH Job #: 110784522  
Rig: H&P 317  
Duration: 4/6/2021-4/11/2021  
Gyrodatta MS Gyro <17-1/2"> (100'-400')  
Gyrodatta MS Gyro <12-1/4"> (400')/(500'-600')  
APS EM <12-1/4"> (600')/(870'-2611')  
APS EM <8-3/4"> (2611')/(2729'-6181')  
BH AT Curve <8-1/2"> (6181')/(6204'-23431')  
Sycamore: 6846' MD  
Middlesex: 6888' MD  
Burkett: 7144' MD  
Tully: 7207' MD  
Marcellus POE: 7392' MD  
Projected MD at TD: 23456'

5/11

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