



ANTERO RESOURCES CORPORATION



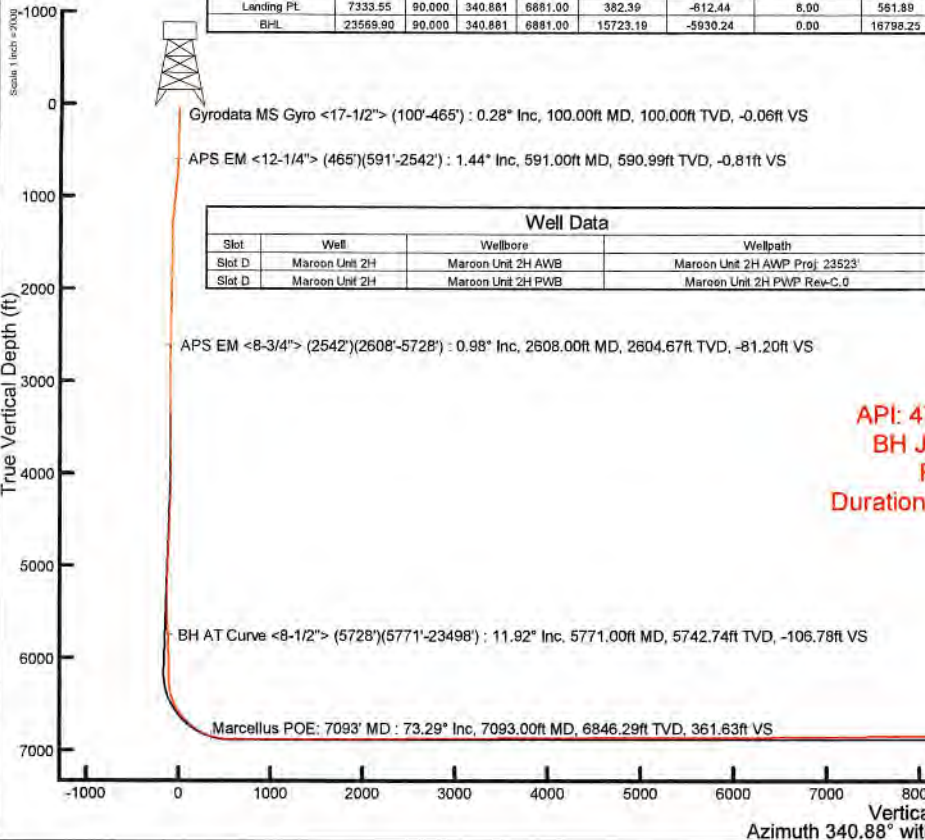
Location: Tyler County, WV
Field: Tyler
Facility: Thin Air Pad

Slot: Slot D
Well: Maroon Unit 2H
Wellbore: Maroon Unit 2H PWB

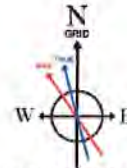
Plot reference wellpath is Maroon Unit 2H PWB Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1225.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot Slot D): -1200 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: subeayr on 2022-02-06, Database: WA_MPL_EASTERN.S_Datm

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Thin Air Pad	1698787.140	14354225.910	39°31'40.5880"N	80°47'34.7850"W
Slot	Local N (ft)	Local E (ft)	Latitude	Longitude
Slot D	-37.09	-25.46	1698781.680	14354188.830
39°31'40.2220"N	80°47'35.1110"W			
Comment	Maroon Unit 2H			
H&P 317 (RKB) to Ground level (At Slot Slot D)	25.5ft			
Mean Sea Level to Ground level (At Slot Slot D)	-1200ft			
H&P 317 (RKB) to Mean Sea Level	1225.5ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2542.00	1.260	126.350	2538.68	-70.47	41.39	0.06	-80.14
Proj. to Bottom	2615.00	1.260	126.350	2611.66	-71.42	42.68	0.00	-81.46
Drill Out	2695.00	1.260	126.350	2691.64	-72.46	44.10	0.00	-82.91
End of Drop	2758.00	0.000	239.929	2754.64	-72.87	44.85	2.00	-83.48
KOP 1	3731.59	0.000	239.929	3728.23	-72.87	44.65	0.00	-83.48
End of Build	4231.59	10.000	239.929	4225.69	-94.68	6.99	2.00	-91.75
Curve KOP	6182.03	10.000	239.929	6146.51	-264.39	-286.11	0.00	-156.09
PCE	7139.88	74.514	340.881	6855.00	201.71	-549.81	8.00	370.67
Landing PL	7333.55	90.000	340.881	6881.00	382.39	-612.44	8.00	561.89
BHL	23569.90	90.000	340.881	6881.00	15723.19	-5930.24	0.00	16798.29



API: 47-095-02757-0000
BH Job #: 111128359
Rig: H&P 317
Duration: 1/26/2022-2/3/2022



User specified (HDGM) Dip: 86.45° Field: 51784 nT
Magnetic North is 7.53 degrees West of True North (at 24/Jan/2022)
Grid North is 0.13 degrees East of True North
To correct azimuth from True to Grid subtract 0.13 degrees
To correct azimuth from Magnetic to Grid subtract 7.66 degrees

Marcellus POE: 7093' MD : 73.29° Inc, 7093.00ft MD, 6846.29ft TVD, 361.63ft VS
BH AT Curve <8-1/2"> (5728')(5771'-23498') : 11.92° Inc, 5771.00ft MD, 5742.74ft TVD, -106.78ft VS
APS EM <8-3/4"> (2542')(2608'-5728') : 2604.67ft TVD, 71.24ft S, 42.42ft E
APS EM <12-1/4"> (465')(591'-2542') : 590.99ft TVD, 0.20ft S, 1.87ft E
Gyrodatta MS Gyro <17-1/2"> (100'-465') : 100.00ft TVD, 0.00ft N, 0.18ft E

Marcellus POE: 7093' MD : 6846.29ft TVD, 191.07ft N, 552.88ft W

BH AT Curve <8-1/2"> (5728')(5771'-23498') : 5742.74ft TVD, 194.18ft S, 234.18ft W

APS EM <8-3/4"> (2542')(2608'-5728') : 2604.67ft TVD, 71.24ft S, 42.42ft E

APS EM <12-1/4"> (465')(591'-2542') : 590.99ft TVD, 0.20ft S, 1.87ft E

Gyrodatta MS Gyro <17-1/2"> (100'-465') : 100.00ft TVD, 0.00ft N, 0.18ft E

Projected MD at TD: 23523' : 90.09° Inc, 23523.00ft MD, 6812.56ft TVD, 16786.94ft VS

Projected MD at TD: 23523' : 6812.56ft TVD, 15710.30ft N, 5932.90ft W

Projected MD at TD: 23523' : 90.09° Inc, 23523.00ft MD, 6812.56ft TVD, 16786.94ft VS

Projected MD at TD: 23523' : 90.09° Inc, 23523.00ft MD, 6812.56ft TVD, 16786.94ft VS

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Projected MD at TD: 23523' : 90.09° Inc, 23523.00ft MD, 6812.56ft TVD, 16786.94ft VS



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H 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	0.999604	Report Generated	06/Feb/2022 at 18:02
Convergence at slot	0.13° 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	-37.09	-25.46	1698761.69	14354188.83	39°31'40.2220"N	80°47'35.1110"W
Facility Reference Pt			1698787.14	14354225.91	39°31'40.5880"N	80°47'34.7850"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1225.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1225.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot D)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.88°



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (250 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)	
0.00†	0.000	88.760	0.00	0.00	0.00	0.00	1698761.69	14354188.83	39°31'40.2220"N	80°47'35.1110"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	88.760	25.50	0.00	0.00	0.00	1698761.69	14354188.83	39°31'40.2220"N	80°47'35.1110"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.280	88.760	100.00	-0.06	0.00	0.18	1698761.87	14354188.83	39°31'40.2220"N	80°47'35.1087"W	0.18	88.760	0.38	0.38	0.00	Gyrodata MS Gyro <17-1/2"> (100'-465')
200.00	0.210	92.280	200.00	-0.20	0.00	0.61	1698762.30	14354188.83	39°31'40.2220"N	80°47'35.1032"W	0.61	89.818	0.07	-0.07	3.52	
300.00	0.120	8.800	300.00	-0.17	0.10	0.81	1698762.50	14354188.93	39°31'40.2229"N	80°47'35.1007"W	0.81	83.080	0.23	-0.09	-83.48	
400.00	0.270	16.390	400.00	0.11	0.43	0.89	1698762.58	14354189.26	39°31'40.2262"N	80°47'35.0996"W	0.99	64.361	0.15	0.15	7.59	
465.00	0.280	354.560	465.00	0.39	0.73	0.92	1698762.61	14354189.56	39°31'40.2292"N	80°47'35.0992"W	1.18	51.441	0.16	0.02	-33.58	
591.00	1.440	141.770	590.99	-0.81	-0.20	1.87	1698763.56	14354188.63	39°31'40.2199"N	80°47'35.0871"W	1.88	96.243	1.34	0.92	116.83	APS EM <12-1/4"> (465')(591'-2542')
681.00	3.430	136.530	680.90	-4.33	-3.05	4.42	1698766.11	14354185.78	39°31'40.1918"N	80°47'35.0546"W	5.37	124.569	2.22	2.21	-5.82	
772.00	5.510	140.750	771.62	-10.91	-8.41	9.06	1698770.75	14354180.43	39°31'40.1387"N	80°47'34.9956"W	12.36	132.858	2.31	2.29	4.64	
862.00	6.170	144.640	861.15	-19.61	-15.70	14.59	1698776.28	14354173.14	39°31'40.0665"N	80°47'34.9252"W	21.43	137.088	0.85	0.73	4.32	
951.00	6.050	142.070	949.65	-28.64	-23.30	20.24	1698781.93	14354165.54	39°31'39.9913"N	80°47'34.8533"W	30.86	139.012	0.34	-0.13	-2.89	
1042.00	6.020	143.430	1040.14	-37.73	-30.91	26.03	1698787.71	14354157.93	39°31'39.9159"N	80°47'34.7796"W	40.41	139.896	0.16	-0.03	1.49	
1136.00	6.120	141.570	1133.61	-47.17	-38.80	32.09	1698793.76	14354150.05	39°31'39.8378"N	80°47'34.7026"W	50.34	140.408	0.23	0.11	-1.98	
1231.00	4.730	151.900	1228.19	-55.81	-46.22	37.08	1698798.75	14354142.63	39°31'39.7643"N	80°47'34.6391"W	59.25	141.262	1.78	-1.46	10.87	
1326.00	3.000	171.480	1322.97	-62.13	-52.13	39.29	1698800.97	14354136.72	39°31'39.7058"N	80°47'34.6111"W	65.28	142.995	2.27	-1.82	20.61	
1420.00	1.140	224.050	1416.91	-64.97	-55.24	39.01	1698800.68	14354133.61	39°31'39.6751"N	80°47'34.6148"W	67.62	144.772	2.64	-1.98	55.93	
1515.00	1.230	248.080	1511.89	-65.44	-56.30	37.40	1698799.08	14354132.55	39°31'39.6647"N	80°47'34.6353"W	67.59	146.401	0.53	0.09	25.29	
1610.00	1.220	248.570	1606.87	-65.53	-57.05	35.52	1698797.19	14354131.80	39°31'39.6573"N	80°47'34.6594"W	67.20	148.095	0.02	-0.01	0.52	
1704.00	1.520	242.640	1700.85	-65.75	-57.99	33.48	1698795.15	14354130.87	39°31'39.6481"N	80°47'34.6855"W	66.96	150.001	0.35	0.32	-6.31	
1798.00	0.800	173.460	1794.83	-66.57	-59.21	32.44	1698794.12	14354129.64	39°31'39.6360"N	80°47'34.6987"W	67.52	151.280	1.54	-0.77	-73.60	
1893.00	0.840	156.700	1889.82	-67.91	-60.51	32.80	1698794.47	14354128.34	39°31'39.6232"N	80°47'34.6942"W	68.83	151.543	0.26	0.04	-17.64	
1987.00	1.090	148.460	1983.81	-69.47	-61.91	33.54	1698795.21	14354126.95	39°31'39.6094"N	80°47'34.6848"W	70.41	151.554	0.30	0.27	-8.77	
2082.00	1.190	130.150	2078.79	-71.21	-63.31	34.76	1698796.44	14354125.54	39°31'39.5955"N	80°47'34.6692"W	72.23	151.230	0.40	0.11	-19.27	
2176.00	1.400	138.040	2172.76	-73.10	-64.79	36.28	1698797.95	14354124.06	39°31'39.5808"N	80°47'34.6499"W	74.26	150.757	0.29	0.22	8.39	
2271.00	1.230	165.860	2267.74	-75.19	-66.65	37.30	1698798.98	14354122.21	39°31'39.5624"N	80°47'34.6369"W	76.37	150.765	0.69	-0.18	29.28	
2365.00	1.190	124.630	2361.72	-76.98	-68.18	38.35	1698800.03	14354120.68	39°31'39.5473"N	80°47'34.6236"W	78.23	150.642	0.91	-0.04	-43.86	
2460.00	1.240	128.530	2456.70	-78.64	-69.38	39.97	1698801.64	14354119.48	39°31'39.5354"N	80°47'34.6030"W	80.07	150.056	0.10	0.05	4.11	
2542.00	1.260	126.350	2538.68	-80.14	-70.47	41.39	1698803.06	14354118.39	39°31'39.5246"N	80°47'34.5849"W	81.72	149.573	0.06	0.02	-2.66	
2608.00	0.980	126.830	2604.67	-81.20	-71.24	42.42	1698804.10	14354117.62	39°31'39.5170"N	80°47'34.5717"W	82.91	149.225	0.42	-0.42	0.73	APS EM <8-3/4"> (2542')(2608'-5728')



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (250 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	
2706.00	0.350	87.130	2702.66	-81.98	-71.72	43.39	1698805.07	14354117.14	39°31'39.5121"N	80°47'34.5593"W	83.83	148.826	0.76	-0.64	-40.51		
2804.00	0.650	93.790	2800.66	-82.28	-71.74	44.25	1698805.92	14354117.11	39°31'39.5119"N	80°47'34.5484"W	84.29	148.337	0.31	0.31	6.80		
2902.00	0.820	83.750	2898.65	-82.65	-71.71	45.50	1698807.17	14354117.15	39°31'39.5123"N	80°47'34.5324"W	84.92	147.604	0.22	0.17	-10.24		
3099.00	1.130	257.040	3095.64	-82.76	-71.99	45.01	1698806.68	14354116.87	39°31'39.5095"N	80°47'34.5387"W	84.90	147.986	0.99	0.16	87.96		
3194.00	0.580	33.890	3190.63	-82.37	-71.80	44.36	1698806.03	14354117.06	39°31'39.5114"N	80°47'34.5469"W	84.40	148.290	1.69	-0.58	144.05		
3295.00	0.290	42.620	3291.63	-81.94	-71.19	44.82	1698806.49	14354117.67	39°31'39.5174"N	80°47'34.5411"W	84.12	147.805	0.29	-0.29	8.64		
3392.00	1.010	284.840	3388.63	-81.35	-70.79	44.16	1698805.83	14354118.07	39°31'39.5214"N	80°47'34.5495"W	83.43	148.042	1.21	0.74	-121.42		
3489.00	0.270	282.080	3485.62	-80.75	-70.52	43.11	1698804.78	14354118.34	39°31'39.5240"N	80°47'34.5629"W	82.65	148.562	0.76	-0.76	-2.85		
3585.00	0.250	286.280	3581.62	-80.51	-70.41	42.69	1698804.36	14354118.44	39°31'39.5251"N	80°47'34.5683"W	82.34	148.774	0.03	-0.02	4.37		
3682.00	0.240	275.930	3678.62	-80.30	-70.33	42.28	1698803.96	14354118.52	39°31'39.5259"N	80°47'34.5734"W	82.06	148.987	0.05	-0.01	-10.67		
3780.00	1.710	258.630	3776.60	-80.02	-70.60	40.64	1698802.32	14354118.26	39°31'39.5233"N	80°47'34.5944"W	81.46	150.071	1.51	1.50	-17.65		
3877.00	3.990	262.000	3873.47	-79.17	-71.36	35.88	1698797.56	14354117.50	39°31'39.5159"N	80°47'34.6561"W	79.87	153.303	2.36	2.35	3.47		
3974.00	7.600	255.360	3969.96	-78.02	-73.45	26.33	1698788.01	14354115.41	39°31'39.4955"N	80°47'34.7771"W	78.02	160.277	3.78	3.72	-6.85		
4071.00	8.380	248.850	4066.02	-77.77	-77.62	13.53	1698775.22	14354111.24	39°31'39.4545"N	80°47'34.9405"W	78.79	170.110	1.23	0.80	-6.71		
4167.00	8.520	238.150	4160.99	-79.58	-83.90	0.97	1698762.66	14354104.97	39°31'39.3928"N	80°47'35.1011"W	83.90	179.339	1.64	0.15	-11.15		
4263.00	9.880	239.880	4255.75	-82.72	-91.78	-12.20	1698749.50	14354097.08	39°31'39.3151"N	80°47'35.2693"W	92.59	187.570	1.45	1.42	1.80		
4362.00	10.180	233.750	4353.24	-86.92	-101.22	-26.60	1698735.10	14354087.65	39°31'39.2222"N	80°47'35.4534"W	104.65	194.725	1.12	0.30	-6.19		
4459.00	10.140	237.610	4448.72	-91.41	-110.86	-40.72	1698720.98	14354078.01	39°31'39.1272"N	80°47'35.6339"W	118.10	200.170	0.70	-0.04	3.98		
4556.00	9.660	235.500	4544.27	-95.52	-120.04	-54.64	1698707.07	14354068.83	39°31'39.0368"N	80°47'35.8118"W	131.89	204.474	0.62	-0.49	-2.18		
4655.00	8.380	239.310	4642.05	-99.17	-128.43	-67.69	1698694.03	14354060.45	39°31'38.9542"N	80°47'35.9786"W	145.18	207.792	1.43	-1.29	3.85		
4753.00	7.480	233.970	4739.11	-102.46	-135.83	-78.99	1698682.73	14354053.06	39°31'38.8813"N	80°47'36.1230"W	157.13	210.180	1.19	-0.92	-5.45		
4850.00	9.040	237.400	4835.10	-106.07	-143.65	-90.52	1698671.21	14354045.24	39°31'38.8043"N	80°47'36.2703"W	169.79	212.216	1.69	1.61	3.54		
4949.00	10.300	241.450	4932.70	-109.34	-152.07	-104.84	1698656.89	14354036.82	39°31'38.7214"N	80°47'36.4534"W	184.71	214.585	1.45	1.27	4.09		
5047.00	9.520	235.350	5029.24	-112.94	-160.86	-119.21	1698642.53	14354028.03	39°31'38.6348"N	80°47'36.6370"W	200.22	216.540	1.33	-0.80	-6.22		
5143.00	9.490	239.380	5123.92	-116.65	-169.41	-132.55	1698629.19	14354019.49	39°31'38.5507"N	80°47'36.8075"W	215.10	218.040	0.89	-0.03	4.20		
5239.00	9.120	246.820	5218.66	-118.76	-176.43	-146.35	1698615.39	14354012.47	39°31'38.4815"N	80°47'36.9839"W	229.24	219.676	1.31	-0.39	7.75		
5337.00	9.230	250.620	5315.41	-119.35	-182.10	-160.91	1698600.85	14354006.80	39°31'38.4259"N	80°47'37.1698"W	243.01	221.465	0.63	0.11	3.88		
5434.00	8.790	244.790	5411.21	-120.17	-187.84	-174.95	1698586.81	14354001.07	39°31'38.3695"N	80°47'37.3492"W	256.69	222.966	1.04	-0.45	-6.01		
5532.00	8.410	263.130	5508.13	-119.44	-191.89	-188.85	1698572.92	14353997.02	39°31'38.3298"N	80°47'37.5266"W	269.23	224.542	2.81	-0.39	18.71		
5629.00	11.290	267.980	5603.69	-115.15	-193.07	-205.38	1698556.39	14353995.84	39°31'38.3185"N	80°47'37.7377"W	281.88	226.770	3.09	2.97	5.00		



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (250 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
5728.00	11.900	267.710	5700.67	-109.34	-193.82	-225.26	1698536.51	14353995.09	39°31'38.3115"N	80°47'37.9914"W	297.17	229.291	0.62	0.62	-0.27	
5771.00	11.920	267.600	5742.74	-106.78	-194.18	-234.13	1698527.65	14353994.73	39°31'38.3081"N	80°47'38.1046"W	304.18	230.329	0.07	0.05	-0.26	BH AT Curve <8-1/2"> (5728')(5771'-23498')
5870.00	10.940	255.060	5839.79	-103.15	-197.03	-253.43	1698508.36	14353991.88	39°31'38.2804"N	80°47'38.3509"W	321.01	232.136	2.69	-0.99	-12.67	
5966.00	10.960	255.560	5934.05	-101.75	-201.66	-271.07	1698490.73	14353987.25	39°31'38.2351"N	80°47'38.5762"W	337.85	233.353	0.10	0.02	0.52	
6063.00	9.730	255.570	6029.47	-100.32	-206.00	-287.93	1698473.87	14353982.91	39°31'38.1925"N	80°47'38.7916"W	354.04	234.419	1.27	-1.27	0.01	
6161.00	9.340	255.220	6126.11	-99.04	-210.09	-303.64	1698458.17	14353978.82	39°31'38.1525"N	80°47'38.9921"W	369.24	235.321	0.40	-0.40	-0.36	
6259.00	9.060	255.800	6222.85	-97.78	-214.01	-318.81	1698443.00	14353974.90	39°31'38.1140"N	80°47'39.1859"W	383.98	236.127	0.30	-0.29	0.59	
6356.00	13.210	285.870	6318.08	-90.76	-212.85	-336.90	1698424.92	14353976.06	39°31'38.1259"N	80°47'39.4166"W	398.51	237.715	7.22	4.28	31.00	
6452.00	19.260	314.290	6410.35	-70.26	-198.76	-358.84	1698402.99	14353990.15	39°31'38.2657"N	80°47'39.6962"W	410.21	241.018	10.23	6.30	29.60	
6551.00	25.980	325.670	6501.73	-34.68	-169.41	-382.79	1698379.05	14354019.49	39°31'38.5563"N	80°47'40.0011"W	418.61	246.128	8.07	6.79	11.49	
6595.00†	29.685	330.778	6540.64	-14.64	-151.93	-393.55	1698368.29	14354036.96	39°31'38.7293"N	80°47'40.1379"W	421.86	248.891	10.01	8.42	11.61	Sycamore: 6595' MD
6649.00	34.440	335.630	6586.39	13.75	-126.33	-406.39	1698355.46	14354062.55	39°31'38.9826"N	80°47'40.3009"W	425.58	252.731	10.01	8.80	8.99	
6738.00†	41.882	332.694	6656.33	68.29	-76.94	-430.44	1698331.42	14354111.92	39°31'39.4713"N	80°47'40.6064"W	437.26	259.866	8.60	8.36	-3.30	Middlesex: 6738' MD
6745.00	42.470	332.500	6661.52	72.95	-72.77	-432.60	1698329.26	14354116.09	39°31'39.5126"N	80°47'40.6339"W	438.68	260.452	8.60	8.40	-2.77	
6842.00	51.120	332.730	6727.86	142.85	-10.04	-465.08	1698296.79	14354178.79	39°31'40.1333"N	80°47'41.0466"W	465.19	268.763	8.92	8.92	0.24	
6884.00†	54.568	333.894	6753.23	176.03	19.86	-480.11	1698281.77	14354208.69	39°31'40.4292"N	80°47'41.2375"W	480.52	272.369	8.50	8.21	2.77	Burkett: 6884' MD
6939.00†	59.098	335.276	6783.31	221.78	61.44	-499.85	1698262.04	14354250.25	39°31'40.8405"N	80°47'41.4882"W	503.61	277.008	8.50	8.24	2.51	Tully: 6939' MD
6940.00	59.180	335.300	6783.82	222.63	62.22	-500.21	1698261.68	14354251.03	39°31'40.8482"N	80°47'41.4927"W	504.06	277.091	8.50	8.25	2.39	
7037.00	67.260	338.280	6827.50	308.93	141.76	-534.23	1698227.67	14354330.54	39°31'41.6351"N	80°47'41.9246"W	552.72	284.861	8.77	8.33	3.07	
7086.00	72.750	340.000	6844.25	354.93	184.78	-550.61	1698211.30	14354373.53	39°31'42.0606"N	80°47'42.1323"W	580.78	288.551	11.68	11.20	3.51	
7093.00†	73.288	340.234	6846.29	361.63	191.07	-552.88	1698209.03	14354379.83	39°31'42.1229"N	80°47'42.1612"W	584.97	289.065	8.32	7.68	3.34	Marcellus POE: 7093' MD
7135.00	76.520	341.610	6857.23	402.17	229.39	-566.13	1698195.78	14354418.13	39°31'42.5019"N	80°47'42.3292"W	610.84	292.057	8.32	7.70	3.28	
7233.00	85.840	342.670	6872.24	498.88	321.47	-595.79	1698166.14	14354510.17	39°31'43.4126"N	80°47'42.7050"W	676.98	298.350	9.57	9.51	1.08	
7331.00	89.630	340.850	6876.11	596.77	414.45	-626.43	1698135.51	14354603.11	39°31'44.3322"N	80°47'43.0934"W	751.12	303.489	4.29	3.87	-1.86	
7430.00	90.000	340.540	6876.43	695.77	507.88	-659.16	1698102.79	14354696.51	39°31'45.2564"N	80°47'43.5083"W	832.13	307.614	0.49	0.37	-0.31	
7528.00	90.030	340.800	6876.41	793.77	600.36	-691.60	1698070.36	14354788.95	39°31'46.1711"N	80°47'43.9197"W	915.83	310.960	0.27	0.03	0.27	
7626.00	90.090	340.460	6876.30	891.77	692.81	-724.10	1698037.87	14354881.36	39°31'47.0855"N	80°47'44.3318"W	1002.15	313.735	0.35	0.06	-0.35	
7722.00	90.150	340.950	6876.10	987.77	783.41	-755.83	1698006.17	14354971.93	39°31'47.9817"N	80°47'44.7340"W	1088.58	316.027	0.51	0.06	0.51	
7817.00	90.090	340.540	6875.90	1082.77	873.10	-787.15	1697974.85	14355061.58	39°31'48.8688"N	80°47'45.1312"W	1175.55	317.963	0.44	-0.06	-0.43	
7915.00	90.030	340.940	6875.80	1180.77	965.62	-819.48	1697942.54	14355154.06	39°31'49.7839"N	80°47'45.5411"W	1266.48	319.680	0.41	-0.06	0.41	



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maroon Unit 2H
Field	Tyler		API	47-095-02757-0000
Facility	Thin Air Pad		Wellbore	Maroon Unit 2H AWB
Slot	Slot D			

WELLPATH DATA (250 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
8014.00	90.460	341.010	6875.38	1279.76	1059.21	-851.75	1697910.28	14355247.61	39°31'50.7096"N	80°47'45.9502"W	1359.19	321.196	0.44	0.43	0.07	
8111.00	89.820	339.430	6875.14	1376.75	1150.48	-884.58	1697877.47	14355338.85	39°31'51.6124"N	80°47'46.3665"W	1451.23	322.444	1.76	-0.66	-1.63	
8208.00	90.090	340.820	6875.22	1473.74	1241.70	-917.55	1697844.50	14355430.04	39°31'52.5147"N	80°47'46.7847"W	1543.93	323.538	1.46	0.28	1.43	
8307.00	90.370	341.340	6874.82	1572.74	1335.35	-949.65	1697812.42	14355523.65	39°31'53.4410"N	80°47'47.1917"W	1638.60	324.581	0.60	0.28	0.53	
8405.00	89.910	340.750	6874.58	1670.74	1428.03	-981.48	1697780.60	14355616.30	39°31'54.3578"N	80°47'47.5953"W	1732.80	325.499	0.76	-0.47	-0.60	
8502.00	89.630	340.220	6874.97	1767.74	1519.46	-1013.89	1697748.21	14355707.69	39°31'55.2621"N	80°47'48.0062"W	1826.67	326.286	0.62	-0.29	-0.55	
8600.00	89.750	339.660	6875.50	1865.72	1611.51	-1047.50	1697714.61	14355799.70	39°31'56.1726"N	80°47'48.4326"W	1922.04	326.976	0.58	0.12	-0.57	
8698.00	90.180	340.780	6875.56	1963.71	1703.73	-1080.66	1697681.46	14355891.88	39°31'57.0847"N	80°47'48.8532"W	2017.56	327.613	1.22	0.44	1.14	
8795.00	90.250	340.690	6875.20	2060.71	1795.30	-1112.67	1697649.46	14355983.41	39°31'57.9904"N	80°47'49.2590"W	2112.14	328.211	0.12	0.07	-0.09	
8893.00	90.030	340.800	6874.96	2158.71	1887.82	-1144.99	1697617.16	14356075.89	39°31'58.9055"N	80°47'49.6688"W	2207.90	328.763	0.25	-0.22	0.11	
8989.00	89.820	340.430	6875.08	2254.71	1978.37	-1176.85	1697585.31	14356166.42	39°31'59.8013"N	80°47'50.0728"W	2301.94	329.253	0.44	-0.22	-0.39	
9086.00	91.140	342.050	6874.27	2351.70	2070.21	-1208.04	1697554.13	14356258.22	39°32'0.7096"N	80°47'50.4683"W	2396.90	329.735	2.15	1.36	1.67	
9184.00	90.620	341.110	6872.76	2449.68	2163.18	-1239.00	1697523.18	14356351.15	39°32'1.6291"N	80°47'50.8608"W	2492.88	330.197	1.10	-0.53	-0.96	
9281.00	90.280	340.600	6872.00	2546.68	2254.81	-1270.82	1697491.38	14356442.74	39°32'2.5355"N	80°47'51.2642"W	2588.27	330.594	0.63	-0.35	-0.53	
9380.00	90.490	341.560	6871.34	2645.67	2348.46	-1302.92	1697459.29	14356536.35	39°32'3.4617"N	80°47'51.6712"W	2685.67	330.979	0.99	0.21	0.97	
9476.00	90.620	341.560	6870.41	2741.66	2439.52	-1333.28	1697428.94	14356627.38	39°32'4.3624"N	80°47'52.0561"W	2780.09	331.342	0.14	0.14	0.00	
9574.00	90.340	341.170	6869.59	2839.65	2532.38	-1364.59	1697397.64	14356720.21	39°32'5.2809"N	80°47'52.4531"W	2876.64	331.682	0.49	-0.29	-0.40	
9672.00	90.180	340.700	6869.14	2937.65	2625.01	-1396.60	1697365.64	14356812.79	39°32'6.1970"N	80°47'52.8590"W	2973.41	331.985	0.51	-0.16	-0.48	
9769.00	90.310	340.830	6868.73	3034.65	2716.59	-1428.56	1697333.70	14356904.34	39°32'7.1029"N	80°47'53.2642"W	3069.31	332.262	0.19	0.13	0.13	
9866.00	90.430	340.890	6868.10	3131.65	2808.23	-1460.36	1697301.91	14356995.94	39°32'8.0092"N	80°47'53.6675"W	3165.25	332.524	0.14	0.12	0.06	
9964.00	90.430	341.260	6867.36	3229.64	2900.93	-1492.15	1697270.14	14357088.60	39°32'8.9261"N	80°47'54.0705"W	3262.19	332.780	0.38	0.00	0.38	
10062.00	90.370	341.120	6866.68	3327.64	2993.69	-1523.74	1697238.55	14357181.33	39°32'9.8436"N	80°47'54.4712"W	3359.16	333.025	0.16	-0.06	-0.14	
10161.00	90.310	340.600	6866.09	3426.64	3087.22	-1556.20	1697206.11	14357274.82	39°32'10.7687"N	80°47'54.8828"W	3457.26	333.248	0.53	-0.06	-0.53	
10259.00	90.520	341.580	6865.38	3524.63	3179.92	-1587.96	1697174.36	14357367.49	39°32'11.6856"N	80°47'55.2855"W	3554.37	333.464	1.02	0.21	1.00	
10356.00	90.400	341.270	6864.60	3621.63	3271.87	-1618.86	1697143.47	14357459.39	39°32'12.5950"N	80°47'55.6772"W	3650.45	333.675	0.34	-0.12	-0.32	
10453.00	90.280	340.620	6864.03	3718.62	3363.55	-1650.53	1697111.82	14357551.04	39°32'13.5018"N	80°47'56.0788"W	3746.69	333.862	0.68	-0.12	-0.67	
10549.00	90.430	341.550	6863.43	3814.62	3454.36	-1681.65	1697080.71	14357641.82	39°32'14.4001"N	80°47'56.4734"W	3841.95	334.042	0.98	0.16	0.97	
10647.00	90.280	341.200	6862.83	3912.62	3547.23	-1712.94	1697049.43	14357734.65	39°32'15.3186"N	80°47'56.8702"W	3939.16	334.224	0.39	-0.15	-0.36	
10744.00	90.370	341.590	6862.28	4009.61	3639.16	-1743.89	1697018.49	14357826.54	39°32'16.2278"N	80°47'57.2626"W	4035.42	334.396	0.41	0.09	0.40	
10843.00	90.400	340.920	6861.61	4108.60	3732.90	-1775.70	1696986.69	14357920.25	39°32'17.1550"N	80°47'57.6660"W	4133.73	334.560	0.68	0.03	-0.68	



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maroon Unit 2H
Field	Tyler		API	47-095-02757-0000
Facility	Thin Air Pad		Wellbore	Maroon Unit 2H AWB
Slot	Slot D			

WELLPATH DATA (250 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
10941.00	90.280	340.740	6861.03	4206.60	3825.47	-1807.88	1696954.53	14358012.77	39°32'18.0706"N	80°47'58.0741"W	4231.15	334.705	0.22	-0.12	-0.18	
11039.00	90.490	340.670	6860.37	4304.60	3917.96	-1840.27	1696922.16	14358105.23	39°32'18.9854"N	80°47'58.4848"W	4328.62	334.841	0.23	0.21	-0.07	
11135.00	90.550	341.530	6859.50	4400.59	4008.78	-1871.36	1696891.08	14358196.01	39°32'19.8837"N	80°47'58.8791"W	4424.06	334.976	0.90	0.06	0.90	
11232.00	90.310	340.360	6858.77	4497.59	4100.46	-1903.03	1696859.42	14358287.66	39°32'20.7905"N	80°47'59.2807"W	4520.54	335.104	1.23	-0.25	-1.21	
11329.00	90.370	340.570	6858.20	4594.59	4191.85	-1935.46	1696827.00	14358379.04	39°32'21.6947"N	80°47'59.6920"W	4617.12	335.216	0.23	0.06	0.22	
11427.00	90.430	340.750	6857.51	4692.58	4284.34	-1967.92	1696794.56	14358471.47	39°32'22.6093"N	80°48'0.1037"W	4714.69	335.329	0.19	0.06	0.18	
11525.00	90.220	340.860	6856.96	4790.58	4376.89	-2000.14	1696762.35	14358563.98	39°32'23.5247"N	80°48'0.5123"W	4812.25	335.441	0.24	-0.21	0.11	
11720.00	89.970	339.900	6856.63	4985.57	4560.57	-2065.61	1696696.90	14358747.58	39°32'25.3414"N	80°48'1.3428"W	5006.55	335.633	0.51	-0.13	-0.49	
11818.00	90.120	341.320	6856.56	5083.57	4653.01	-2098.15	1696664.38	14358839.99	39°32'26.2558"N	80°48'1.7556"W	5104.19	335.728	1.46	0.15	1.45	
11916.00	90.060	341.450	6856.40	5181.56	4745.88	-2129.43	1696633.11	14358932.82	39°32'27.1743"N	80°48'2.1522"W	5201.72	335.835	0.15	-0.06	0.13	
12013.00	90.280	341.340	6856.11	5278.56	4837.81	-2160.38	1696602.17	14359024.72	39°32'28.0836"N	80°48'2.5446"W	5298.27	335.936	0.25	0.23	-0.11	
12110.00	90.090	341.870	6855.80	5375.55	4929.85	-2190.99	1696571.58	14359116.72	39°32'28.9939"N	80°48'2.9327"W	5394.80	336.038	0.58	-0.20	0.55	
12209.00	89.970	341.470	6855.75	5474.54	5023.83	-2222.12	1696540.45	14359210.66	39°32'29.9234"N	80°48'3.3274"W	5493.33	336.139	0.42	-0.12	-0.40	
12306.00	89.880	340.880	6855.88	5571.54	5115.64	-2253.42	1696509.17	14359302.44	39°32'30.8315"N	80°48'3.7244"W	5589.96	336.227	0.62	-0.09	-0.61	
12403.00	90.280	341.780	6855.74	5668.53	5207.54	-2284.47	1696478.13	14359394.29	39°32'31.7404"N	80°48'4.1181"W	5686.58	336.314	1.02	0.41	0.93	
12500.00	90.370	341.580	6855.19	5765.52	5299.62	-2314.96	1696447.65	14359486.34	39°32'32.6511"N	80°48'4.5047"W	5783.16	336.404	0.23	0.09	-0.21	
12597.00	90.370	341.850	6854.56	5862.51	5391.72	-2345.39	1696417.23	14359578.40	39°32'33.5620"N	80°48'4.8906"W	5879.75	336.491	0.28	0.00	0.28	
12696.00	89.820	341.160	6854.40	5961.50	5485.60	-2376.80	1696385.84	14359672.25	39°32'34.4906"N	80°48'5.2888"W	5978.38	336.574	0.89	-0.56	-0.70	
12794.00	89.940	341.040	6854.61	6059.50	5578.32	-2408.54	1696354.11	14359764.93	39°32'35.4077"N	80°48'5.6914"W	6076.08	336.647	0.17	0.12	-0.12	
12893.00	90.000	341.610	6854.66	6158.50	5672.11	-2440.24	1696322.42	14359858.68	39°32'36.3353"N	80°48'6.0934"W	6174.75	336.722	0.58	0.06	0.58	
12991.00	90.710	342.100	6854.05	6256.48	5765.23	-2470.76	1696291.92	14359951.77	39°32'37.2563"N	80°48'6.4803"W	6272.36	336.802	0.88	0.72	0.50	
13089.00	90.490	341.080	6853.02	6354.47	5858.21	-2501.71	1696260.98	14360044.71	39°32'38.1759"N	80°48'6.8727"W	6370.02	336.875	1.06	-0.22	-1.04	
13188.00	90.580	340.610	6852.10	6453.46	5951.72	-2534.19	1696228.51	14360138.19	39°32'39.1008"N	80°48'7.2848"W	6468.78	336.936	0.48	0.09	-0.47	
13287.00	90.460	340.960	6851.20	6552.46	6045.21	-2566.77	1696195.94	14360231.63	39°32'40.0254"N	80°48'7.6980"W	6567.56	336.994	0.37	-0.12	0.35	
13385.00	90.310	340.940	6850.54	6650.46	6137.84	-2598.76	1696163.97	14360324.22	39°32'40.9416"N	80°48'8.1037"W	6665.33	337.052	0.15	-0.15	-0.02	
13483.00	90.430	341.550	6849.91	6748.45	6230.63	-2630.26	1696132.47	14360416.98	39°32'41.8594"N	80°48'8.5033"W	6763.06	337.113	0.63	0.12	0.62	
13581.00	90.310	340.980	6849.28	6846.45	6323.44	-2661.74	1696101.01	14360509.75	39°32'42.7773"N	80°48'8.9025"W	6860.81	337.172	0.59	-0.12	-0.58	
13680.00	90.250	341.200	6848.79	6945.45	6417.09	-2693.82	1696068.94	14360603.37	39°32'43.7036"N	80°48'9.3094"W	6959.58	337.228	0.23	-0.06	0.22	
13777.00	90.250	340.350	6848.37	7042.44	6508.68	-2725.76	1696037.01	14360694.92	39°32'44.6095"N	80°48'9.7146"W	7056.39	337.277	0.88	0.00	-0.88	
13875.00	90.340	340.250	6847.86	7140.44	6600.94	-2758.80	1696003.99	14360787.14	39°32'45.5221"N	80°48'10.1337"W	7154.26	337.318	0.14	0.09	-0.10	



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maroon Unit 2H
Field	Tyler		API	47-095-02757-0000
Facility	Thin Air Pad		Wellbore	Maroon Unit 2H AWB
Slot	Slot D			

WELLPATH DATA (250 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
13974.00	90.340	341.230	6847.28	7239.43	6694.40	-2791.45	1695971.35	14360880.56	39°32'46.4465"N	80°48'10.5479"W	7253.08	337.365	0.99	0.00	0.99	
14069.00	90.400	341.480	6846.66	7334.43	6784.41	-2821.82	1695940.99	14360970.54	39°32'47.3367"N	80°48'10.9331"W	7347.85	337.416	0.27	0.06	0.26	
14167.00	90.490	341.100	6845.90	7432.42	6877.23	-2853.26	1695909.57	14361063.32	39°32'48.2548"N	80°48'11.3318"W	7445.63	337.467	0.40	0.09	-0.39	
14266.00	90.550	341.250	6845.00	7531.42	6970.93	-2885.20	1695877.64	14361156.98	39°32'49.1815"N	80°48'11.7369"W	7544.42	337.516	0.16	0.06	0.15	
14363.00	90.030	341.220	6844.51	7628.41	7062.77	-2916.41	1695846.44	14361248.79	39°32'50.0899"N	80°48'12.1327"W	7641.22	337.563	0.54	-0.54	-0.03	
14461.00	90.120	341.420	6844.38	7726.41	7155.61	-2947.79	1695815.07	14361341.59	39°32'51.0081"N	80°48'12.5308"W	7739.01	337.611	0.22	0.09	0.20	
14558.00	90.250	342.020	6844.07	7823.40	7247.71	-2978.22	1695784.66	14361433.66	39°32'51.9191"N	80°48'12.9166"W	7835.76	337.661	0.63	0.13	0.62	
14656.00	89.750	341.330	6844.07	7921.39	7340.74	-3009.03	1695753.86	14361526.65	39°32'52.8391"N	80°48'13.3073"W	7933.52	337.711	0.87	-0.51	-0.70	
14753.00	90.400	341.730	6843.94	8018.38	7432.75	-3039.76	1695723.14	14361618.62	39°32'53.7491"N	80°48'13.6971"W	8030.31	337.757	0.79	0.67	0.41	
14851.00	90.150	340.940	6843.47	8116.38	7525.59	-3071.12	1695691.79	14361711.42	39°32'54.6674"N	80°48'14.0948"W	8128.12	337.800	0.85	-0.26	-0.81	
14950.00	90.340	341.560	6843.05	8215.37	7619.33	-3102.95	1695659.98	14361805.13	39°32'55.5946"N	80°48'14.4985"W	8226.94	337.842	0.66	0.19	0.63	
15046.00	90.000	341.490	6842.77	8311.37	7710.39	-3133.37	1695629.57	14361896.15	39°32'56.4951"N	80°48'14.8843"W	8322.74	337.884	0.36	-0.35	-0.07	
15142.00	90.430	342.400	6842.41	8407.35	7801.66	-3163.12	1695599.83	14361987.38	39°32'57.3978"N	80°48'15.2616"W	8418.50	337.930	1.05	0.45	0.95	
15239.00	90.000	340.970	6842.04	8504.34	7893.74	-3193.60	1695569.36	14362079.43	39°32'58.3085"N	80°48'15.6481"W	8515.29	337.973	1.54	-0.44	-1.47	
15335.00	90.830	341.190	6841.35	8600.33	7984.55	-3224.73	1695538.25	14362170.20	39°32'59.2067"N	80°48'16.0429"W	8611.15	338.008	0.89	0.86	0.23	
15431.00	89.510	341.760	6841.06	8696.32	8075.57	-3255.23	1695507.76	14362261.19	39°33'0.1070"N	80°48'16.4298"W	8706.97	338.046	1.50	-1.37	0.59	
15528.00	89.380	341.740	6842.00	8793.31	8167.69	-3285.60	1695477.40	14362353.27	39°33'1.0180"N	80°48'16.8150"W	8803.77	338.087	0.14	-0.13	-0.02	
15625.00	89.970	341.340	6842.55	8890.30	8259.70	-3316.32	1695446.70	14362445.24	39°33'1.9280"N	80°48'17.2045"W	8900.59	338.124	0.73	0.61	-0.41	
15722.00	89.570	341.080	6842.94	8987.30	8351.53	-3347.56	1695415.46	14362537.03	39°33'2.8363"N	80°48'17.6008"W	8997.45	338.158	0.49	-0.41	-0.27	
15821.00	89.750	341.960	6843.53	9086.29	8445.42	-3378.94	1695384.10	14362630.89	39°33'3.7649"N	80°48'17.9988"W	9096.28	338.194	0.91	0.18	0.89	
15918.00	89.540	341.670	6844.13	9183.27	8537.57	-3409.21	1695353.84	14362723.00	39°33'4.6763"N	80°48'18.3827"W	9193.09	338.232	0.37	-0.22	-0.30	
16014.00	89.380	341.070	6845.03	9279.26	8628.54	-3439.88	1695323.18	14362813.93	39°33'5.5760"N	80°48'18.7717"W	9288.94	338.265	0.65	-0.17	-0.63	
16111.00	90.060	341.190	6845.51	9376.26	8720.32	-3471.25	1695291.82	14362905.68	39°33'6.4838"N	80°48'19.1697"W	9385.82	338.294	0.71	0.70	0.12	
16208.00	90.180	341.400	6845.31	9473.26	8812.20	-3502.35	1695260.73	14362997.52	39°33'7.3925"N	80°48'19.5643"W	9482.69	338.325	0.25	0.12	0.22	
16307.00	90.180	341.260	6844.99	9572.26	8905.99	-3534.05	1695229.05	14363091.27	39°33'8.3201"N	80°48'19.9663"W	9581.55	338.356	0.14	0.00	-0.14	
16405.00	90.150	340.660	6844.71	9670.25	8998.63	-3566.02	1695197.09	14363183.87	39°33'9.2364"N	80°48'20.3718"W	9679.45	338.382	0.61	-0.03	-0.61	
16502.00	90.030	339.670	6844.56	9767.25	9089.87	-3598.93	1695164.19	14363275.08	39°33'10.1389"N	80°48'20.7895"W	9776.40	338.400	1.03	-0.12	-1.02	
16601.00	90.120	340.120	6844.43	9866.23	9182.84	-3632.96	1695130.18	14363368.01	39°33'11.0584"N	80°48'21.2214"W	9875.37	338.415	0.46	0.09	0.45	
16699.00	90.220	340.150	6844.14	9964.22	9275.01	-3666.26	1695096.89	14363460.14	39°33'11.9700"N	80°48'21.6440"W	9973.32	338.432	0.11	0.10	0.03	
16797.00	90.490	340.490	6843.53	10062.21	9367.28	-3699.26	1695063.90	14363552.38	39°33'12.8827"N	80°48'22.0628"W	10071.27	338.450	0.44	0.28	0.35	



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (250 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
16894.00	90.620	340.400	6842.59	10159.21	9458.68	-3731.73	1695031.45	14363643.74	39°33'13.7867"N	80°48'22.4747"W	10168.21	338.469	0.16	0.13	-0.09	
16991.00	90.400	340.450	6841.73	10256.20	9550.07	-3764.23	1694998.96	14363735.10	39°33'14.6907"N	80°48'22.8871"W	10265.15	338.488	0.23	-0.23	0.05	
17090.00	90.550	340.580	6840.91	10355.20	9643.40	-3797.25	1694965.95	14363828.39	39°33'15.6137"N	80°48'23.3061"W	10364.08	338.507	0.20	0.15	0.13	
17187.00	90.490	340.290	6840.03	10452.19	9734.79	-3829.73	1694933.49	14363919.75	39°33'16.5177"N	80°48'23.7183"W	10461.02	338.525	0.31	-0.06	-0.30	
17284.00	90.650	340.370	6839.06	10549.18	9826.13	-3862.38	1694900.85	14364011.05	39°33'17.4211"N	80°48'24.1326"W	10557.97	338.542	0.18	0.16	0.08	
17380.00	90.580	340.420	6838.03	10645.17	9916.56	-3894.59	1694868.65	14364101.44	39°33'18.3155"N	80°48'24.5413"W	10653.92	338.558	0.09	-0.07	0.05	
17477.00	90.550	340.190	6837.08	10742.16	10007.88	-3927.28	1694835.98	14364192.72	39°33'19.2188"N	80°48'24.9561"W	10750.87	338.574	0.24	-0.03	-0.24	
17575.00	90.430	340.430	6836.24	10840.15	10100.14	-3960.29	1694802.97	14364284.95	39°33'20.1313"N	80°48'25.3752"W	10848.82	338.590	0.27	-0.12	0.24	
17672.00	90.430	339.750	6835.51	10937.14	10191.34	-3993.33	1694769.95	14364376.12	39°33'21.0334"N	80°48'25.7944"W	10945.78	338.603	0.70	0.00	-0.70	
17770.00	90.340	339.980	6834.85	11035.12	10283.35	-4027.06	1694736.23	14364468.09	39°33'21.9434"N	80°48'26.2225"W	11043.76	338.614	0.25	-0.09	0.23	
17868.00	90.280	339.600	6834.32	11133.10	10375.32	-4060.91	1694702.39	14364560.02	39°33'22.8531"N	80°48'26.6522"W	11141.73	338.625	0.39	-0.06	-0.39	
17965.00	90.340	339.170	6833.80	11230.07	10466.10	-4095.07	1694668.25	14364650.77	39°33'23.7511"N	80°48'27.0858"W	11238.72	338.631	0.45	0.06	-0.44	
18063.00	90.280	338.370	6833.27	11328.00	10557.45	-4130.55	1694632.78	14364742.08	39°33'24.6546"N	80°48'27.5363"W	11336.72	338.632	0.82	-0.06	-0.82	
18159.00	90.370	339.500	6832.72	11423.94	10647.03	-4165.06	1694598.29	14364831.62	39°33'25.5407"N	80°48'27.9744"W	11432.72	338.635	1.18	0.09	1.18	
18256.00	90.250	339.630	6832.20	11520.91	10737.93	-4198.92	1694564.44	14364922.48	39°33'26.4398"N	80°48'28.4043"W	11529.70	338.643	0.18	-0.12	0.13	
18354.00	90.340	339.290	6831.69	11618.88	10829.70	-4233.31	1694530.07	14365014.21	39°33'27.3475"N	80°48'28.8408"W	11627.69	338.650	0.36	0.09	-0.35	
18451.00	90.400	339.460	6831.07	11715.85	10920.48	-4267.47	1694495.92	14365104.96	39°33'28.2454"N	80°48'29.2746"W	11724.68	338.656	0.19	0.06	0.18	
18549.00	90.340	339.120	6830.43	11813.81	11012.14	-4302.13	1694461.27	14365196.59	39°33'29.1521"N	80°48'29.7145"W	11822.67	338.661	0.35	-0.06	-0.35	
18646.00	90.830	339.590	6829.44	11910.77	11102.91	-4336.33	1694427.09	14365287.32	39°33'30.0498"N	80°48'30.1487"W	11919.66	338.666	0.70	0.51	0.48	
18745.00	90.710	339.560	6828.11	12009.73	11195.68	-4370.87	1694392.56	14365380.05	39°33'30.9674"N	80°48'30.5872"W	12018.64	338.674	0.12	-0.12	-0.03	
18842.00	90.740	340.290	6826.88	12106.71	11286.77	-4404.17	1694359.28	14365471.11	39°33'31.8685"N	80°48'31.0098"W	12115.61	338.684	0.75	0.03	0.75	
18938.00	90.650	340.190	6825.72	12202.70	11377.11	-4436.62	1694326.84	14365561.42	39°33'32.7620"N	80°48'31.4217"W	12211.57	338.696	0.14	-0.09	-0.10	
19036.00	90.800	340.140	6824.48	12300.68	11469.29	-4469.87	1694293.60	14365653.56	39°33'33.6737"N	80°48'31.8437"W	12309.53	338.708	0.16	0.15	-0.05	
19134.00	90.620	340.140	6823.27	12398.67	11561.46	-4503.16	1694260.32	14365745.69	39°33'34.5853"N	80°48'32.2663"W	12407.49	338.719	0.18	-0.18	0.00	
19233.00	90.650	339.810	6822.17	12497.65	11654.47	-4537.06	1694226.44	14365838.66	39°33'35.5053"N	80°48'32.6965"W	12506.46	338.729	0.33	0.03	-0.33	
19331.00	90.550	339.650	6821.14	12595.62	11746.39	-4571.01	1694192.50	14365930.55	39°33'36.4145"N	80°48'33.1275"W	12604.44	338.737	0.19	-0.10	-0.16	
19430.00	90.490	340.160	6820.24	12694.60	11839.36	-4605.02	1694158.50	14366023.48	39°33'37.3340"N	80°48'33.5593"W	12703.41	338.746	0.52	-0.06	0.52	
19527.00	90.710	339.620	6819.23	12791.58	11930.44	-4638.37	1694125.17	14366114.52	39°33'38.2349"N	80°48'33.9826"W	12800.39	338.755	0.60	0.23	-0.56	
19625.00	90.620	339.990	6818.09	12889.56	12022.41	-4672.20	1694091.35	14366206.46	39°33'39.1446"N	80°48'34.4120"W	12898.36	338.763	0.39	-0.09	0.38	
19722.00	90.680	340.020	6816.99	12986.54	12113.56	-4705.36	1694058.20	14366297.57	39°33'40.0461"N	80°48'34.8330"W	12995.34	338.772	0.07	0.06	0.03	



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (250 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
19821.00	90.830	340.580	6815.69	13085.53	12206.76	-4738.73	1694024.84	14366390.73	39°33'40.9679"N	80°48'35.2566"W	13094.29	338.783	0.59	0.15	0.57	
19917.00	90.520	341.170	6814.55	13181.52	12297.45	-4770.18	1693993.41	14366481.38	39°33'41.8649"N	80°48'35.6557"W	13190.22	338.799	0.69	-0.32	0.61	
20014.00	90.770	341.200	6813.46	13278.51	12389.26	-4801.47	1693962.14	14366573.16	39°33'42.7729"N	80°48'36.0526"W	13287.13	338.816	0.26	0.26	0.03	
20111.00	90.430	341.090	6812.45	13375.51	12481.05	-4832.81	1693930.80	14366664.91	39°33'43.6808"N	80°48'36.4504"W	13384.05	338.833	0.37	-0.35	-0.11	
20210.00	90.310	340.670	6811.81	13474.50	12574.59	-4865.24	1693898.39	14366758.41	39°33'44.6059"N	80°48'36.8619"W	13482.98	338.848	0.44	-0.12	-0.42	
20307.00	90.460	341.680	6811.16	13571.50	12666.40	-4896.54	1693867.10	14366850.18	39°33'45.5139"N	80°48'37.2590"W	13579.90	338.865	1.05	0.15	1.04	
20404.00	90.580	341.750	6810.28	13668.48	12758.49	-4926.97	1693836.68	14366942.24	39°33'46.4248"N	80°48'37.6451"W	13676.78	338.885	0.14	0.12	0.07	
20502.00	90.340	341.660	6809.49	13766.47	12851.54	-4957.73	1693805.93	14367035.25	39°33'47.3450"N	80°48'38.0354"W	13774.65	338.905	0.26	-0.24	-0.09	
20601.00	90.220	341.170	6809.01	13865.47	12945.37	-4989.28	1693774.39	14367129.05	39°33'48.2730"N	80°48'38.4357"W	13873.56	338.923	0.51	-0.12	-0.49	
20699.00	91.080	341.260	6807.89	13963.46	13038.15	-5020.84	1693742.85	14367221.79	39°33'49.1906"N	80°48'38.8361"W	13971.47	338.939	0.88	0.88	0.09	
20798.00	91.170	341.640	6805.95	14062.43	13131.98	-5052.33	1693711.37	14367315.59	39°33'50.1187"N	80°48'39.2357"W	14070.36	338.957	0.39	0.09	0.38	
20896.00	91.110	340.740	6804.00	14160.41	13224.73	-5083.92	1693679.80	14367408.30	39°33'51.0360"N	80°48'39.6366"W	14168.27	338.972	0.92	-0.06	-0.92	
20993.00	91.050	341.280	6802.17	14257.39	13316.44	-5115.48	1693648.25	14367499.96	39°33'51.9430"N	80°48'40.0371"W	14265.19	338.986	0.56	-0.06	0.56	
21091.00	91.020	341.450	6800.40	14355.37	13409.28	-5146.79	1693616.95	14367592.77	39°33'52.8612"N	80°48'40.4344"W	14363.09	339.002	0.18	-0.03	0.17	
21190.00	89.970	341.420	6799.55	14454.36	13503.13	-5178.30	1693585.45	14367686.58	39°33'53.7894"N	80°48'40.8343"W	14461.99	339.019	1.06	-1.06	-0.03	
21287.00	89.720	341.200	6799.81	14551.36	13595.01	-5209.39	1693554.38	14367778.43	39°33'54.6981"N	80°48'41.2287"W	14558.92	339.034	0.34	-0.26	-0.23	
21385.00	88.980	340.050	6800.92	14649.35	13687.45	-5241.90	1693521.88	14367870.83	39°33'55.6124"N	80°48'41.6413"W	14656.87	339.045	1.40	-0.76	-1.17	
21481.00	88.680	339.510	6802.88	14745.31	13777.52	-5275.07	1693488.72	14367960.86	39°33'56.5032"N	80°48'42.0625"W	14752.84	339.049	0.64	-0.31	-0.56	
21580.00	88.250	340.370	6805.53	14844.26	13870.48	-5309.01	1693454.79	14368053.78	39°33'57.4227"N	80°48'42.4934"W	14851.79	339.055	0.97	-0.43	0.87	
21676.00	88.250	341.710	6808.46	14940.21	13961.22	-5340.19	1693423.63	14368144.50	39°33'58.3202"N	80°48'42.8891"W	14947.69	339.068	1.40	0.00	1.40	
21773.00	88.490	341.020	6811.22	15037.17	14053.10	-5371.17	1693392.66	14368236.34	39°33'59.2289"N	80°48'43.2823"W	15044.57	339.083	0.75	0.25	-0.71	
21870.00	88.000	341.240	6814.19	15134.12	14144.84	-5402.53	1693361.31	14368328.04	39°34'0.1362"N	80°48'43.6802"W	15141.46	339.096	0.55	-0.51	0.23	
21967.00	88.550	342.040	6817.11	15231.07	14236.86	-5433.07	1693330.78	14368420.03	39°34'0.0463"N	80°48'44.0677"W	15238.32	339.112	1.00	0.57	0.82	
22064.00	90.090	340.980	6818.27	15328.05	14328.85	-5463.83	1693300.04	14368511.97	39°34'1.9560"N	80°48'44.4580"W	15335.23	339.127	1.93	1.59	-1.09	
22163.00	89.050	340.720	6819.01	15427.05	14422.36	-5496.30	1693267.58	14368605.45	39°34'2.8810"N	80°48'44.8702"W	15434.18	339.138	1.08	-1.05	-0.26	
22261.00	89.260	342.190	6820.45	15525.03	14515.26	-5527.47	1693236.42	14368698.31	39°34'3.7997"N	80°48'45.2857"W	15532.09	339.153	1.52	0.21	1.50	
22358.00	90.430	341.270	6820.72	15622.02	14607.37	-5557.88	1693206.03	14368790.38	39°34'4.7107"N	80°48'45.6515"W	15628.99	339.169	1.53	1.21	-0.95	
22457.00	89.910	340.830	6820.42	15721.02	14701.00	-5590.02	1693173.89	14368883.98	39°34'5.6368"N	80°48'46.0595"W	15727.93	339.181	0.69	-0.53	-0.44	
22555.00	90.310	342.300	6820.23	15819.01	14793.97	-5621.01	1693142.91	14368976.91	39°34'6.5562"N	80°48'46.4528"W	15825.84	339.196	1.55	0.41	1.50	
22653.00	90.520	341.340	6819.52	15916.99	14887.07	-5651.59	1693112.35	14369069.98	39°34'7.4770"N	80°48'46.8407"W	15923.74	339.212	1.00	0.21	-0.98	



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (250 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
22751.00	90.310	341.470	6818.81	16014.98	14979.96	-5682.84	1693081.11	14369162.82	39°34'8.3956"N	80°48'47.2373"W	16021.66	339.225	0.25	-0.21	0.13	
22848.00	90.550	340.850	6818.09	16111.98	15071.76	-5714.16	1693049.80	14369254.59	39°34'9.3036"N	80°48'47.6348"W	16118.61	339.237	0.69	0.25	-0.64	
22946.00	90.490	341.090	6817.20	16209.97	15164.40	-5746.11	1693017.86	14369347.19	39°34'10.2198"N	80°48'48.0404"W	16216.56	339.247	0.25	-0.06	0.24	
23044.00	90.740	341.320	6816.15	16307.97	15257.17	-5777.69	1692986.30	14369439.92	39°34'11.1373"N	80°48'48.4411"W	16314.50	339.259	0.35	0.26	0.23	
23141.00	90.030	340.930	6815.49	16404.96	15348.95	-5809.07	1692954.94	14369531.67	39°34'12.0450"N	80°48'48.8394"W	16411.44	339.270	0.84	-0.73	-0.40	
23239.00	90.430	341.350	6815.10	16502.96	15441.68	-5840.74	1692923.27	14369624.37	39°34'12.9622"N	80°48'49.2414"W	16509.39	339.281	0.59	0.41	0.43	
23337.00	90.740	341.350	6814.10	16600.95	15534.53	-5872.08	1692891.95	14369717.18	39°34'13.8805"N	80°48'49.6392"W	16607.32	339.293	0.32	0.32	0.00	
23435.00	90.580	340.740	6812.97	16698.94	15627.21	-5903.91	1692860.13	14369809.82	39°34'14.7971"N	80°48'50.0432"W	16705.27	339.304	0.64	-0.16	-0.62	
23498.00	90.090	340.780	6812.60	16761.94	15686.69	-5924.67	1692839.38	14369869.28	39°34'15.3854"N	80°48'50.3067"W	16768.25	339.309	0.78	-0.78	0.06	
23523.00‡	90.090	340.780	6812.56	16786.94	15710.30	-5932.90	1692831.15	14369892.87	39°34'15.6189"N	80°48'50.4112"W	16793.24	339.311	0.00	0.00	0.00	Projected MD at TD: 23523'

HOLE & CASING SECTIONS - Ref Wellbore: Maroon Unit 2H AWB Ref Wellpath: Maroon Unit 2H AWP Proj: 23523'									
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	126.00	100.50	25.50	126.00	0.00	0.00	0.01	0.30
17.5in Open Hole	126.00	476.00	350.00	126.00	476.00	0.01	0.30	0.77	0.92
13.375in Casing Surface	25.50	456.00	430.50	25.50	456.00	0.00	0.00	0.69	0.92
12.25in Open Hole	476.00	2615.00	2139.00	476.00	2611.67	0.77	0.92	-71.30	42.52
9.625in Casing Intermediate	25.50	2595.00	2569.50	25.50	2591.67	0.00	0.00	-71.10	42.24
8.75in Open Hole	2615.00	5792.00	3177.00	2611.67	5763.30	-71.30	42.52	-194.45	-238.41
8.5in Open Hole	5792.00	23523.00	17731.00	5763.30	6812.56	-194.45	-238.41	15710.30	-5932.90
5.5in Casing Production	25.50	23503.00	23477.50	25.50	6812.59	0.00	0.00	15691.41	-5926.32



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Maroon Unit 2H POE Rev-4	6855.00	201.71	-549.81	1698212.10	14354390.46	39°31'42.2280"N	80°47'42.1217"W	point
Maroon Unit 2H BHL Rev-4	6881.00	15723.19	-5930.24	1692833.81	14369905.76	39°34'15.7462"N	80°48'50.3768"W	point
Maroon Unit 2H LP Rev-4	6881.00	382.39	-612.44	1698149.50	14354571.06	39°31'44.0150"N	80°47'42.9157"W	point
Maroon Unit 2H 50' L/R Hard Line	7000.00	7962.45	-3240.02	1695522.95	14362148.11	39°32'58.9886"N	80°48'16.2389"W	rectangle
2D Rectangle 16427.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Maroon Unit 2H AWB Ref Wellpath: Maroon Unit 2H AWP Proj: 23523'								
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date			
25.50	465.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-465')	Maroon Unit 2H AWB	10/Dec/2021			
465.00	2542.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (465')(591'-2542')	Maroon Unit 2H AWB	10/Dec/2021			
2542.00	5728.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2542')(2608'-5728')	Maroon Unit 2H AWB	24/Jan/2022			
5728.00	23523.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5728')(5771'-23498')	Maroon Unit 2H AWB	24/Jan/2022			



Actual Wellpath Report

Maroon Unit 2H AWP Proj: 23523'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maroon Unit 2H
Field	Tyler	API	47-095-02757-0000
Facility	Thin Air Pad	Wellbore	Maroon Unit 2H AWB
Slot	Slot D		

COMMENTS

Wellpath general comments

API: 47-095-02757-0000

BH Job #: 111128359

Rig: H&P 317

Duration: 1/26/2022-2/3/2022

Gyrodata MS Gyro <17-1/2"> (100'-465')

APS EM <12-1/4"> (465')(591'-2542')

APS EM <8-3/4"> (2542')(2608'-5728')

BH AT Curve <8-1/2"> (5728')(5771'-23498')

Sycamore: 6595' MD

Middlesex: 6738' MD

Burkett: 6884' MD

Tully: 6939' MD

Marcellus POE: 7093' MD

Projected MD at TD: 23523'