



ANTERO RESOURCES CORPORATION

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

Slot: Slot #11
 Well: Mills Unit 1H
 Wellbore: Mills Unit 1H PWB



Plot reference wellpath is Mills Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1075 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #11): -1045 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edesayar on 2021-04-27; Database: WA_MPL_EASTERMUS_Defn

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Gorrell Pad	1643134.326	14314301.475	39°25'9.5020"N	80°59'25.3580"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #11	-125.77	-128.82	1643005.760	14314175.760	39°25'5.2591"N	80°59'26.9970"W
Comment: Mills Unit 1H						
H&P 519 (RKB) to Ground level (At Slot: Slot #11)			30ft			
Mean Sea Level to Ground level (At Slot: Slot #11)			-1045ft			
H&P 519 (RKB) to Mean Sea Level			1075ft			

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #11	Mills Unit 1H	Mills Unit 1H AWB	Mills Unit 1H AWP Proj: 17012'
Slot #11	Mills Unit 1H	Mills Unit 1H PWB	Mills Unit 1H PWP Rev-B.0

Gyrodatta MS Gyro <17-1/2"> (100'-559') : 0.35° Inc, 100.00ft MD, 100.00ft TVD, 0.20ft VS

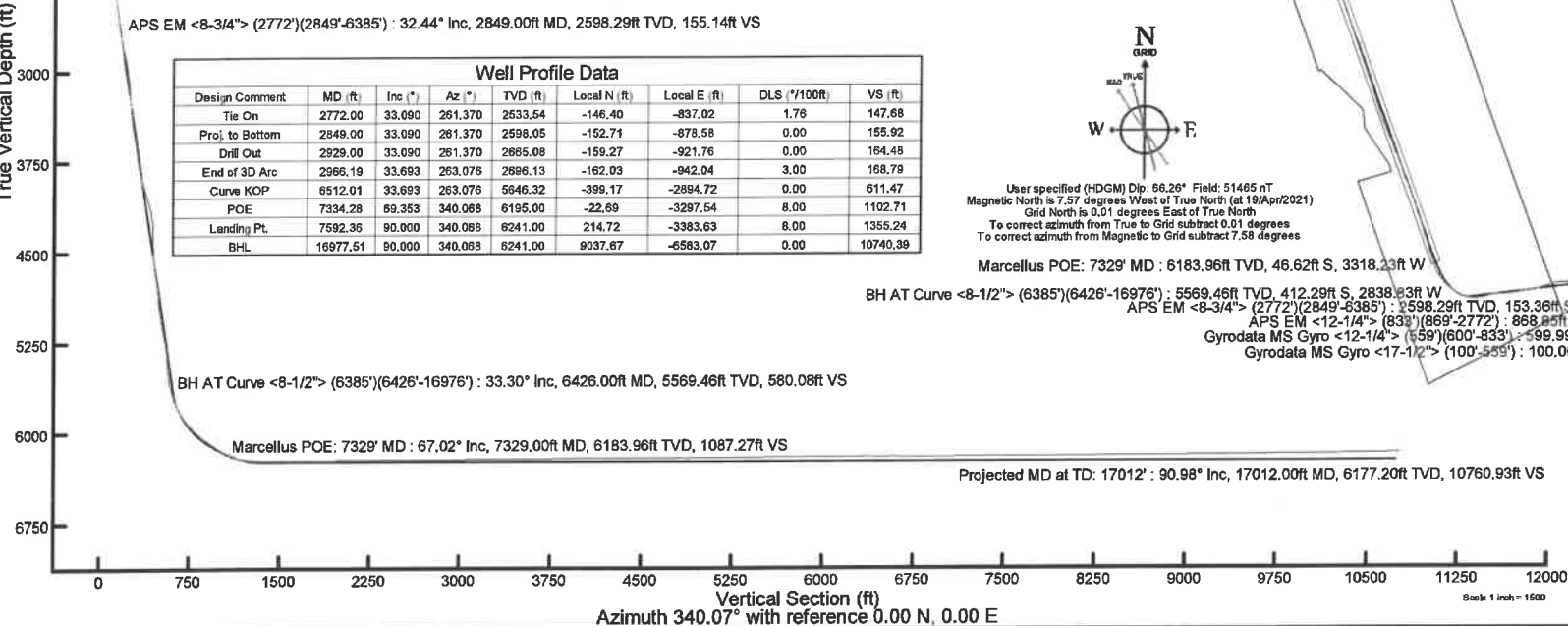
Gyrodatta MS Gyro <12-1/4"> (559')(600'-833') : 0.44° Inc, 600.00ft MD, 599.99ft TVD, 0.23ft VS

APS EM <12-1/4"> (833')(869'-2772') : 2.93° Inc, 869.00ft MD, 868.85ft TVD, 1.33ft VS

API: 47-095-02718-0000
 BH Job #: 110790235
 Rig: H&P 519
 Duration: 4/21/2021-4/25/2021

APS EM <8-3/4"> (2772')(2849'-6385') : 32.44° Inc, 2849.00ft MD, 2598.29ft TVD, 155.14ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2772.00	33.090	261.370	2533.54	-146.40	-837.02	1.78	147.68
Proj. to Bottom	2949.00	33.090	261.370	2598.05	-152.71	-878.58	0.00	155.92
Drill Out	2929.00	33.090	261.370	2685.08	-159.27	-921.76	0.00	164.48
End of 3D Arc	2966.19	33.693	263.076	2686.13	-162.03	-942.04	3.00	168.79
Curve KOP	6512.01	33.693	263.076	5946.32	-399.17	-2894.72	0.00	611.47
POE	7334.28	67.353	340.068	6195.00	-22.69	-3297.54	8.00	1102.71
Landing Pt.	7592.35	90.000	340.068	6241.00	214.72	-3383.63	8.00	1355.24
BHL	16977.51	90.000	340.068	6241.00	9037.87	-6583.07	0.00	10740.39



User specified (HDGM) Dip: 66.26° Field: 51465 nT
 Magnetic North is 7.57 degrees West of True North (at 19/Apr/2021)
 Grid North is 0.01 degrees East of True North
 To correct azimuth from True to Grid subtract 0.01 degrees
 To correct azimuth from Magnetic to Grid subtract 7.58 degrees



Actual Wellpath Report

Mills Unit 1H AWP Proj: 17012'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	27/Apr/2021 at 22:52
Convergence at slot	0.01° 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	-125.77	-128.62	1643005.76	14314175.76	39°25'5.2591"N	80°59'26.9970"W
Facility Reference Pt			1643134.33	14314301.48	39°25'6.5020"N	80°59'25.3580"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1075.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1075.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #11)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.07°



Actual Wellpath Report

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Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (194 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	0.00	322.920	0.00	0.00	0.00	0.00	1643005.76	14314175.76	39°25'5.2591"N	80°59'26.9970"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	322.920	30.00	0.00	0.00	0.00	1643005.76	14314175.76	39°25'5.2591"N	80°59'26.9970"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.350	322.920	100.00	0.20	0.17	-0.13	1643005.63	14314175.93	39°25'5.2608"N	80°59'26.9986"W	0.21	322.920	0.50	0.50	0.00	Gyrodata MS Gyro <17-1/2"> (100'-559')
200.00	0.400	313.180	200.00	0.81	0.65	-0.57	1643005.19	14314176.41	39°25'5.2656"N	80°59'27.0042"W	0.87	319.007	0.08	0.05	-9.74	
300.00	0.620	248.820	299.99	1.11	0.70	-1.33	1643004.43	14314176.46	39°25'5.2660"N	80°59'27.0139"W	1.50	297.899	0.57	0.22	-64.36	
400.00	0.450	234.420	399.99	0.99	0.27	-2.15	1643003.61	14314176.03	39°25'5.2618"N	80°59'27.0244"W	2.17	277.222	0.22	-0.17	-14.40	
500.00	0.320	212.480	499.99	0.71	-0.19	-2.62	1643003.14	14314175.57	39°25'5.2572"N	80°59'27.0304"W	2.63	265.819	0.19	-0.13	-21.94	
559.00	0.440	202.590	558.99	0.45	-0.54	-2.80	1643002.97	14314175.22	39°25'5.2538"N	80°59'27.0326"W	2.85	259.073	0.23	0.20	-16.76	
600.00	0.440	210.000	599.99	0.23	-0.82	-2.93	1643002.83	14314174.94	39°25'5.2510"N	80°59'27.0344"W	3.05	254.363	0.14	0.00	18.07	Gyrodata MS Gyro <12-1/4"> (559')(600'-833')
700.00	1.070	251.810	699.98	0.01	-1.45	-4.01	1643001.75	14314174.32	39°25'5.2448"N	80°59'27.0481"W	4.27	250.195	0.80	0.63	41.81	
800.00	2.500	263.080	799.93	0.53	-2.00	-7.07	1642998.70	14314173.76	39°25'5.2394"N	80°59'27.0870"W	7.34	254.198	1.47	1.43	11.27	
833.00	2.630	266.900	832.89	0.91	-2.13	-8.54	1642997.23	14314173.63	39°25'5.2381"N	80°59'27.1058"W	8.80	256.007	0.65	0.39	11.58	
869.00	2.930	261.680	868.85	1.33	-2.31	-10.27	1642995.49	14314173.46	39°25'5.2364"N	80°59'27.1279"W	10.53	257.351	1.09	0.83	-14.50	APS EM <12-1/4"> (833')(869'-2772')
960.00	3.040	269.390	959.73	2.60	-2.67	-14.99	1642990.78	14314173.09	39°25'5.2328"N	80°59'27.1879"W	15.22	259.907	0.46	0.12	8.47	
1052.00	6.030	274.090	1051.43	5.38	-2.35	-22.25	1642983.52	14314173.41	39°25'5.2359"N	80°59'27.2805"W	22.37	263.974	3.27	3.25	5.11	
1144.00	9.260	272.410	1142.60	10.16	-1.69	-34.47	1642971.31	14314174.07	39°25'5.2424"N	80°59'27.4361"W	34.51	267.189	3.52	3.51	-1.83	
1239.00	13.650	267.510	1235.89	16.43	-1.86	-53.31	1642952.47	14314173.90	39°25'5.2408"N	80°59'27.6763"W	53.34	268.004	4.73	4.62	-5.16	
1333.00	17.670	268.290	1326.18	24.21	-2.77	-78.66	1642927.13	14314172.99	39°25'5.2319"N	80°59'27.9993"W	78.71	267.986	4.28	4.28	0.83	
1428.00	21.900	265.310	1415.55	33.38	-4.65	-110.75	1642895.06	14314171.12	39°25'5.2133"N	80°59'28.4081"W	110.84	267.598	4.58	4.45	-3.14	
1522.00	25.310	262.460	1501.68	42.31	-8.72	-148.15	1642857.67	14314167.05	39°25'5.1731"N	80°59'28.8847"W	148.41	266.633	3.82	3.53	-3.03	
1617.00	29.310	259.480	1586.08	50.47	-15.63	-191.16	1642814.67	14314160.14	39°25'5.1048"N	80°59'29.4328"W	191.80	265.326	4.45	4.21	-3.14	
1712.00	33.220	257.790	1667.27	57.77	-25.38	-239.48	1642766.38	14314150.39	39°25'5.0085"N	80°59'30.0484"W	240.82	263.949	4.22	4.12	-1.78	
1806.00	34.120	256.400	1745.50	64.13	-37.03	-290.27	1642715.60	14314138.75	39°25'4.8934"N	80°59'30.6956"W	292.62	262.730	1.26	0.96	-1.48	
1901.00	34.350	253.150	1824.04	68.51	-51.06	-341.82	1642664.07	14314124.72	39°25'4.7547"N	80°59'31.3525"W	345.62	261.504	1.94	0.24	-3.42	
1995.00	35.720	253.490	1901.01	71.57	-66.55	-393.52	1642612.40	14314109.24	39°25'4.6017"N	80°59'32.0112"W	399.10	260.401	1.47	1.46	0.36	
2089.00	36.210	257.770	1977.10	76.93	-80.23	-446.97	1642558.97	14314095.56	39°25'4.4666"N	80°59'32.6923"W	454.11	259.824	2.72	0.52	4.55	
2184.00	37.120	258.920	2053.31	85.10	-91.89	-502.53	1642503.44	14314084.11	39°25'4.3534"N	80°59'33.4002"W	510.82	259.660	1.20	0.96	1.21	
2279.00	36.500	259.280	2129.36	94.03	-102.45	-558.42	1642447.57	14314073.35	39°25'4.2471"N	80°59'34.1124"W	567.74	259.604	0.69	-0.65	0.38	
2374.00	35.950	258.240	2206.00	102.52	-113.39	-613.48	1642392.53	14314062.42	39°25'4.1390"N	80°59'34.8140"W	623.87	259.528	0.87	-0.58	-1.09	
2468.00	35.040	260.040	2282.53	111.11	-123.68	-667.08	1642338.95	14314052.13	39°25'4.0373"N	80°59'35.4969"W	678.44	259.496	1.47	-0.97	1.91	



Actual Wellpath Report

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Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (194 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]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
2563.00	34.740	264.100	2360.47	122.40	-131.18	-720.87	1642285.18	14314044.63	39°25'3.9632"N	80°59'36.1823"W	732.71	259.686	2.46	-0.32	4.27	
2657.00	34.280	262.510	2437.93	134.59	-137.39	-773.76	1642232.31	14314038.43	39°25'3.9019"N	80°59'36.8562"W	785.86	259.932	1.08	-0.49	-1.69	
2752.00	33.440	261.450	2516.82	145.52	-144.76	-826.17	1642179.92	14314031.05	39°25'3.8290"N	80°59'37.5240"W	838.76	260.061	1.08	-0.88	-1.12	
2772.00	33.090	261.370	2533.54	147.68	-146.40	-837.02	1642169.08	14314029.42	39°25'3.8129"N	80°59'37.6622"W	849.72	260.079	1.76	-1.75	-0.40	
2849.00	32.440	259.390	2598.29	155.14	-153.36	-878.10	1642128.01	14314022.46	39°25'3.7441"N	80°59'38.1857"W	891.39	260.093	1.63	-0.84	-2.57	APS EM <8-3/4"> (2772')(2849'-6385')
2943.00	34.080	263.080	2676.90	165.16	-161.18	-929.03	1642077.10	14314014.65	39°25'3.6669"N	80°59'38.8347"W	942.91	260.158	2.77	1.74	3.93	
3038.00	35.260	268.200	2755.05	179.69	-165.25	-982.88	1642023.28	14314010.58	39°25'3.6267"N	80°59'39.5207"W	996.67	260.456	3.31	1.24	5.39	
3133.00	36.060	267.750	2832.23	196.71	-167.20	-1038.22	1641967.95	14314008.62	39°25'3.6074"N	80°59'40.2260"W	1051.60	260.851	0.89	0.84	-0.47	
3227.00	37.240	264.830	2907.65	212.36	-170.85	-1094.20	1641912.00	14314004.97	39°25'3.5714"N	80°59'40.9392"W	1107.46	261.125	2.24	1.26	-3.11	
3321.00	34.470	262.620	2983.84	225.39	-176.84	-1148.92	1641857.30	14313999.00	39°25'3.5123"N	80°59'41.6364"W	1162.45	261.250	3.25	-2.95	-2.35	
3416.00	34.460	260.500	3062.16	236.10	-184.73	-1202.09	1641804.15	14313991.11	39°25'3.4343"N	80°59'42.3139"W	1216.20	261.264	1.26	-0.01	-2.23	
3513.00	34.290	255.700	3142.24	243.75	-196.01	-1255.65	1641750.62	14313979.83	39°25'3.3229"N	80°59'42.9963"W	1270.85	261.128	2.80	-0.18	-4.95	
3608.00	31.720	257.820	3221.90	249.74	-207.89	-1306.00	1641700.29	14313967.96	39°25'3.2055"N	80°59'43.6379"W	1322.44	260.956	2.97	-2.71	2.23	
3703.00	31.250	258.360	3302.92	256.66	-218.13	-1354.55	1641651.76	14313957.72	39°25'3.1043"N	80°59'44.2565"W	1372.00	260.852	0.58	-0.49	0.57	
3797.00	30.130	261.070	3383.75	264.68	-226.71	-1401.74	1641604.59	14313949.14	39°25'3.0195"N	80°59'44.8578"W	1419.95	260.813	1.89	-1.19	2.88	
3892.00	32.060	264.270	3465.11	275.42	-232.93	-1450.39	1641555.96	14313942.92	39°25'2.9580"N	80°59'45.4777"W	1468.97	260.876	2.67	2.03	3.37	
3986.00	33.850	265.250	3543.98	288.39	-237.59	-1501.30	1641505.06	14313938.27	39°25'2.9120"N	80°59'46.1265"W	1519.99	261.007	1.99	1.90	1.04	
4081.00	34.110	261.180	3622.77	300.46	-243.86	-1554.00	1641452.38	14313931.99	39°25'2.8500"N	80°59'46.7979"W	1573.02	261.081	2.41	0.27	-4.28	
4176.00	32.090	262.080	3702.34	310.84	-251.43	-1605.32	1641401.08	14313924.43	39°25'2.7753"N	80°59'47.4518"W	1624.89	261.099	2.19	-2.13	0.95	
4270.00	31.440	267.510	3782.28	323.39	-255.93	-1654.56	1641351.87	14313919.93	39°25'2.7307"N	80°59'48.0792"W	1674.23	261.207	3.12	-0.69	5.78	
4365.00	31.520	274.430	3863.33	341.06	-255.09	-1704.08	1641302.36	14313920.77	39°25'2.7391"N	80°59'48.7102"W	1723.07	261.486	3.80	0.08	7.28	
4459.00	34.080	275.780	3942.33	362.62	-250.54	-1754.79	1641251.67	14313925.32	39°25'2.7841"N	80°59'49.3564"W	1772.59	261.875	2.83	2.72	1.44	
4554.00	36.440	275.860	4019.90	386.45	-244.98	-1809.35	1641197.14	14313930.88	39°25'2.8391"N	80°59'50.0515"W	1825.86	262.289	2.48	2.48	0.08	
4649.00	37.060	271.670	4096.03	409.27	-241.26	-1866.04	1641140.47	14313934.59	39°25'2.8758"N	80°59'50.7738"W	1881.57	262.633	2.72	0.65	-4.41	
4743.00	37.280	264.740	4170.97	426.91	-243.05	-1922.73	1641083.81	14313932.81	39°25'2.8582"N	80°59'51.4961"W	1938.03	262.796	4.46	0.23	-7.37	
4838.00	36.530	258.290	4246.96	438.24	-251.43	-1979.08	1641027.47	14313924.43	39°25'2.7754"N	80°59'52.2142"W	1994.99	262.760	4.15	-0.79	-6.79	
4933.00	35.790	250.330	4323.70	442.42	-266.53	-2032.96	1640973.62	14313909.34	39°25'2.6262"N	80°59'52.9006"W	2050.36	262.531	5.00	-0.78	-8.38	
5027.00	33.480	251.170	4401.04	443.04	-284.15	-2083.39	1640923.21	14313891.73	39°25'2.4520"N	80°59'53.5432"W	2102.68	262.233	2.51	-2.46	0.89	
5122.00	32.000	253.670	4480.95	445.12	-299.68	-2132.35	1640874.27	14313876.20	39°25'2.2985"N	80°59'54.1671"W	2153.31	262.000	2.11	-1.56	2.63	
5217.00	31.910	257.540	4561.56	449.97	-312.18	-2181.03	1640825.61	14313863.71	39°25'2.1750"N	80°59'54.7873"W	2203.26	261.854	2.16	-0.09	4.07	



Actual Wellpath Report

Mills Unit 1H AWP Proj: 17012'
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Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

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[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
5311.00	32.520	261.520	4641.10	458.21	-321.27	-2230.28	1640776.37	14313854.62	39°25'2.0852"N	80°59'55.4149"W	2253.30	261.803	2.35	0.65	4.23	
5406.00	31.700	265.060	4721.57	469.74	-327.18	-2280.41	1640726.27	14313848.71	39°25'2.0267"N	80°59'56.0536"W	2303.76	261.835	2.16	-0.86	3.73	
5501.00	31.070	259.170	4802.69	480.08	-333.94	-2329.37	1640677.33	14313841.95	39°25'1.9599"N	80°59'56.6774"W	2353.18	261.842	3.30	-0.66	-6.20	
5595.00	31.580	256.530	4883.00	486.68	-344.23	-2377.13	1640629.58	14313831.67	39°25'1.8582"N	80°59'57.2860"W	2401.93	261.760	1.56	0.54	-2.81	
5690.00	33.360	260.180	4963.15	494.07	-354.48	-2427.07	1640579.67	14313821.42	39°25'1.7569"N	80°59'57.9223"W	2452.82	261.690	2.79	1.87	3.84	
5785.00	33.410	264.420	5042.48	505.14	-361.48	-2478.84	1640527.91	14313814.42	39°25'1.6877"N	80°59'58.5820"W	2505.06	261.703	2.46	0.05	4.46	
5880.00	33.310	266.950	5121.84	519.19	-365.41	-2530.93	1640475.85	14313810.49	39°25'1.6489"N	80°59'59.2456"W	2557.17	261.784	1.47	-0.11	2.66	
5974.00	35.230	267.700	5199.51	534.90	-367.87	-2583.80	1640423.00	14313808.03	39°25'1.6245"N	80°59'59.9192"W	2609.85	261.897	2.09	2.04	0.80	
6069.00	36.100	264.200	5276.70	550.03	-371.80	-2639.02	1640367.80	14313804.11	39°25'1.5857"N	81°00'0.6229"W	2665.09	261.981	2.33	0.92	-3.68	
6164.00	36.080	255.260	5353.52	559.40	-381.76	-2693.96	1640312.88	14313794.16	39°25'1.4873"N	81°00'1.3229"W	2720.87	261.934	5.54	-0.02	-9.41	
6258.00	35.290	254.750	5429.87	564.12	-395.94	-2746.93	1640259.94	14313779.98	39°25'1.3471"N	81°00'1.9978"W	2775.31	261.798	0.90	-0.84	-0.54	
6353.00	33.410	261.260	5508.33	571.44	-407.14	-2799.27	1640207.61	14313768.79	39°25'1.2365"N	81°00'2.6648"W	2828.73	261.725	4.34	-1.98	6.85	
6385.00	32.910	262.440	5535.12	575.01	-409.62	-2816.60	1640190.29	14313766.30	39°25'1.2119"N	81°00'2.8855"W	2846.23	261.725	2.55	-1.56	3.69	
6426.00	33.300	263.840	5569.46	580.08	-412.29	-2838.83	1640168.07	14313763.63	39°25'1.1855"N	81°00'3.1688"W	2868.61	261.737	2.09	0.95	3.41	BH AT Curve <8-1/2"> (6385')(6426'-16976')
6463.00	33.720	266.980	5600.32	585.48	-413.92	-2859.19	1640147.72	14313762.00	39°25'1.1694"N	81°00'3.4282"W	2888.99	261.763	4.82	1.14	8.49	
6558.00	34.390	279.050	5679.12	606.18	-411.09	-2912.08	1640094.85	14313764.84	39°25'1.1974"N	81°00'4.1021"W	2940.95	261.965	7.14	0.71	12.71	
6652.00	38.390	285.830	5754.80	636.12	-398.94	-2966.42	1640040.54	14313776.98	39°25'1.3174"N	81°00'4.7945"W	2993.12	262.340	6.03	4.26	7.21	
6747.00	40.190	296.340	5828.41	675.55	-377.27	-3022.33	1639984.64	14313798.64	39°25'1.5316"N	81°00'5.5069"W	3045.79	262.885	7.25	1.89	11.06	
6842.00	44.100	304.390	5898.88	724.61	-344.96	-3077.14	1639929.85	14313830.94	39°25'1.8510"N	81°00'6.2053"W	3096.42	263.604	7.01	4.12	8.47	
6937.00	47.780	307.990	5964.95	781.30	-304.62	-3132.17	1639874.84	14313871.26	39°25'2.2497"N	81°00'6.9065"W	3146.95	264.445	4.73	3.87	3.79	
6982.00†	49.691	310.700	5994.63	810.37	-283.17	-3158.32	1639848.71	14313892.71	39°25'2.4617"N	81°00'7.2396"W	3170.99	264.877	6.21	4.25	6.02	Sycamore: 6982' MD
7031.00	51.840	313.480	6025.62	843.89	-257.72	-3186.47	1639820.57	14313918.14	39°25'2.7131"N	81°00'7.5983"W	3196.87	265.376	6.21	4.39	5.67	
7126.00	54.510	322.510	6082.63	914.27	-201.25	-3237.18	1639769.88	14313974.59	39°25'3.2713"N	81°00'8.2445"W	3243.43	266.443	8.11	2.81	9.51	
7138.00†	54.951	323.721	6089.56	923.64	-193.42	-3243.06	1639764.00	14313982.42	39°25'3.3487"N	81°00'8.3195"W	3248.83	266.587	9.02	3.68	10.09	Middlesex: 7138' MD
7221.00	58.310	331.740	6135.26	991.27	-134.84	-3279.94	1639727.14	14314040.97	39°25'3.9276"N	81°00'8.7893"W	3282.71	267.646	9.02	4.05	9.66	
7268.00	63.210	335.700	6158.22	1032.01	-98.07	-3298.06	1639709.03	14314077.72	39°25'4.2910"N	81°00'9.0202"W	3299.51	268.297	12.75	10.43	8.43	
7290.00†	64.503	337.851	6167.91	1051.73	-79.93	-3305.84	1639701.25	14314095.87	39°25'4.4704"N	81°00'9.1194"W	3306.81	268.615	10.56	5.88	9.78	Burkett: 7290' MD
7315.00	66.010	340.240	6178.38	1074.43	-58.72	-3313.96	1639693.13	14314117.06	39°25'4.6799"N	81°00'9.2228"W	3314.48	268.985	10.56	6.03	9.55	
7320.00†	66.369	340.466	6180.39	1079.00	-54.42	-3315.50	1639691.60	14314121.36	39°25'4.7225"N	81°00'9.2424"W	3315.94	269.060	8.29	7.19	4.52	Tully: 7320' MD
7329.00†	67.017	340.870	6183.96	1087.27	-45.62	-3318.23	1639688.86	14314129.16	39°25'4.7996"N	81°00'9.2773"W	3318.56	269.195	8.29	7.20	4.49	Marcellus POE: 7329' MD



Actual Wellpath Report

Mills Unit 1H AWP Proj: 17012'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (194 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]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]		
7362.00	69.400	342.320	6196.21	1117.89	-17.54	-3327.90	1639679.20	14314158.22	39°25'5.0869"N	81°00'9.4005"W	3327.95	269.698	8.29	7.22	4.39		
7410.00	74.390	343.700	6211.12	1163.44	26.07	-3341.22	1639665.88	14314201.82	39°25'5.5180"N	81°00'9.5702"W	3341.32	270.447	10.75	10.40	2.87		
7505.00	86.460	344.020	6226.89	1256.74	115.89	-3367.21	1639639.90	14314291.61	39°25'6.4057"N	81°00'9.9014"W	3369.20	271.971	12.71	12.71	0.34		
7600.00	88.890	341.830	6230.75	1351.53	206.62	-3395.08	1639612.05	14314382.30	39°25'7.3024"N	81°00'10.2565"W	3401.36	273.483	3.44	2.56	-2.31		
7695.00	89.080	341.900	6232.43	1446.47	296.89	-3424.64	1639582.49	14314472.53	39°25'8.1946"N	81°00'10.6333"W	3437.49	274.955	0.21	0.20	0.07		
7789.00	90.280	342.370	6232.95	1540.41	386.35	-3453.48	1639553.67	14314561.95	39°25'9.0788"N	81°00'11.0007"W	3475.02	276.383	1.37	1.28	0.50		
7884.00	90.310	342.040	6232.46	1635.34	476.80	-3482.51	1639524.65	14314652.37	39°25'9.9728"N	81°00'11.3707"W	3515.00	277.796	0.35	0.03	-0.35		
7979.00	89.820	340.880	6232.36	1730.31	566.87	-3512.72	1639494.45	14314742.40	39°25'10.8629"N	81°00'11.7557"W	3558.16	279.167	1.33	-0.52	-1.22		
8074.00	91.850	341.400	6230.97	1825.28	656.76	-3543.42	1639463.76	14314832.25	39°25'11.7513"N	81°00'12.1469"W	3603.77	280.500	2.21	2.14	0.55		
8168.00	90.520	341.090	6229.03	1919.23	745.74	-3573.64	1639433.56	14314921.20	39°25'12.6308"N	81°00'12.5320"W	3650.62	281.787	1.45	-1.41	-0.33		
8263.00	91.510	340.880	6227.34	2014.21	835.54	-3604.59	1639402.62	14315010.97	39°25'13.5183"N	81°00'12.9264"W	3700.16	283.051	1.07	1.04	-0.22		
8358.00	90.250	339.030	6225.89	2109.19	924.77	-3637.14	1639370.08	14315100.16	39°25'14.4002"N	81°00'13.3413"W	3752.87	284.266	2.36	-1.33	-1.95		
8452.00	90.000	337.380	6225.68	2203.13	1012.05	-3672.04	1639335.19	14315187.40	39°25'15.2628"N	81°00'13.7860"W	3808.96	285.409	1.78	-0.27	-1.76		
8547.00	89.630	336.280	6225.99	2297.98	1099.39	-3709.42	1639297.83	14315274.70	39°25'16.1260"N	81°00'14.2623"W	3868.91	286.509	1.22	-0.39	-1.16		
8641.00	90.220	339.210	6226.11	2391.89	1186.37	-3745.02	1639262.25	14315361.66	39°25'16.9857"N	81°00'14.7160"W	3928.44	287.578	3.18	0.63	3.12		
8736.00	91.050	340.080	6225.06	2486.88	1275.43	-3778.06	1639229.22	14315450.68	39°25'17.8659"N	81°00'15.1371"W	3987.54	288.654	1.27	0.87	0.92		
8830.00	89.880	334.320	6224.29	2580.72	1362.05	-3814.47	1639192.83	14315537.26	39°25'18.7219"N	81°00'15.6011"W	4050.35	289.650	6.25	-1.24	-6.13		
8925.00	89.850	337.760	6224.52	2675.47	1448.85	-3853.04	1639154.27	14315624.03	39°25'19.5798"N	81°00'16.0926"W	4116.44	290.608	3.62	-0.03	3.62		
9020.00	89.690	342.270	6224.90	2770.45	1538.10	-3885.50	1639121.82	14315713.25	39°25'20.4620"N	81°00'16.5063"W	4178.86	291.597	4.75	-0.17	4.75		
9115.00	90.580	338.780	6224.68	2865.43	1627.65	-3917.18	1639090.15	14315802.75	39°25'21.3469"N	81°00'16.9101"W	4241.88	292.564	3.81	0.94	-3.69		
9209.00	90.220	341.570	6224.02	2959.41	1716.06	-3949.08	1639058.27	14315891.13	39°25'22.2208"N	81°00'17.3165"W	4305.82	293.487	3.01	-0.38	2.99		
9304.00	90.580	340.750	6223.36	3054.39	1805.97	-3979.75	1639027.61	14315981.00	39°25'23.1093"N	81°00'17.7075"W	4370.35	294.408	0.94	0.38	-0.86		
9398.00	90.460	341.610	6222.50	3148.37	1894.94	-4010.07	1638997.30	14316069.94	39°25'23.9887"N	81°00'18.0940"W	4435.26	295.293	0.92	-0.13	0.91		
9493.00	90.150	341.250	6222.00	3243.34	1984.99	-4040.33	1638967.06	14316159.95	39°25'24.8787"N	81°00'18.4795"W	4501.60	296.165	0.50	-0.33	-0.38		
9588.00	90.090	340.530	6221.80	3338.33	2074.75	-4071.43	1638935.97	14316249.68	39°25'25.7658"N	81°00'18.8759"W	4569.59	297.003	0.76	-0.06	-0.76		
9682.00	90.220	341.380	6221.54	3432.32	2163.61	-4102.10	1638905.31	14316338.50	39°25'26.6440"N	81°00'19.2668"W	4637.72	297.809	0.91	0.14	0.90		
9777.00	90.370	340.780	6221.05	3527.30	2253.47	-4132.91	1638874.52	14316428.33	39°25'27.5322"N	81°00'19.6594"W	4707.34	298.602	0.65	0.16	-0.63		
9872.00	91.450	341.130	6219.55	3622.28	2343.26	-4163.90	1638843.53	14316518.08	39°25'28.4196"N	81°00'20.0545"W	4777.96	299.369	1.20	1.14	0.37		
9966.00	89.720	340.460	6218.59	3716.26	2432.02	-4194.82	1638812.63	14316606.80	39°25'29.2968"N	81°00'20.4485"W	4848.84	300.104	1.97	-1.84	-0.71		
10081.00	91.020	341.820	6217.97	3811.24	2521.91	-4225.53	1638781.93	14316696.66	39°25'30.1852"N	81°00'20.8399"W	4920.89	300.830	1.98	1.37	1.43		



Actual Wellpath Report

Mills Unit 1H AWP Proj: 17012'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (194 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
10156.00	89.850	341.390	6217.25	3906.20	2612.06	-4255.50	1638751.97	14316786.77	39°25'31.0761"N	81°00'21.2220"W	4993.21	301.542	1.31	-1.23	-0.45	
10250.00	90.550	341.560	6216.92	4000.17	2701.18	-4285.37	1638722.11	14316875.86	39°25'31.9570"N	81°00'21.6026"W	5065.65	302.224	0.77	0.74	0.18	
10345.00	89.910	338.900	6216.54	4095.16	2790.58	-4317.50	1638690.00	14316965.21	39°25'32.8405"N	81°00'22.0122"W	5140.83	302.876	2.88	-0.67	-2.80	
10440.00	90.430	341.330	6216.26	4190.15	2879.90	-4349.81	1638657.70	14317054.51	39°25'33.7233"N	81°00'22.4240"W	5216.77	303.508	2.62	0.55	2.56	
10535.00	90.150	342.770	6215.78	4285.09	2970.28	-4379.09	1638628.43	14317144.84	39°25'34.6165"N	81°00'22.7971"W	5291.40	304.149	1.54	-0.29	1.52	
10630.00	89.850	340.360	6215.78	4380.05	3060.39	-4409.12	1638598.41	14317234.92	39°25'35.5072"N	81°00'23.1800"W	5367.16	304.765	2.56	-0.32	-2.54	
10725.00	90.400	340.820	6215.57	4475.05	3149.99	-4440.70	1638566.85	14317324.49	39°25'36.3927"N	81°00'23.5824"W	5444.47	305.350	0.75	0.58	0.48	
10819.00	89.940	341.040	6215.29	4569.04	3238.84	-4471.41	1638536.15	14317413.29	39°25'37.2707"N	81°00'23.9739"W	5521.19	305.917	0.54	-0.49	0.23	
10914.00	90.830	339.870	6214.65	4664.03	3328.36	-4503.19	1638504.38	14317502.78	39°25'38.1555"N	81°00'24.3789"W	5599.70	306.469	1.55	0.94	-1.23	
11009.00	90.430	341.430	6213.61	4759.02	3417.98	-4534.66	1638472.92	14317592.37	39°25'39.0413"N	81°00'24.7801"W	5678.53	307.007	1.70	-0.42	1.64	
11104.00	89.750	340.380	6213.46	4854.00	3507.75	-4565.74	1638441.86	14317682.10	39°25'39.9285"N	81°00'25.1762"W	5757.63	307.534	1.32	-0.72	-1.11	
11198.00	90.490	341.620	6213.26	4947.99	3596.63	-4596.34	1638411.27	14317770.94	39°25'40.8069"N	81°00'25.5663"W	5836.27	308.043	1.54	0.79	1.32	
11293.00	90.060	339.610	6212.81	5042.98	3686.24	-4627.87	1638379.75	14317860.52	39°25'41.6925"N	81°00'25.9682"W	5916.55	308.538	2.16	-0.45	-2.12	
11388.00	90.520	341.490	6212.33	5137.97	3775.81	-4659.50	1638348.13	14317950.05	39°25'42.5778"N	81°00'26.3714"W	5997.31	309.019	2.04	0.48	1.98	
11483.00	90.830	341.740	6211.21	5232.93	3865.96	-4689.46	1638318.18	14318040.16	39°25'43.4687"N	81°00'26.7533"W	6077.56	309.502	0.42	0.33	0.26	
11577.00	90.090	341.830	6210.45	5326.88	3955.24	-4718.85	1638288.81	14318129.41	39°25'44.3511"N	81°00'27.1278"W	6157.23	309.969	0.79	-0.79	0.10	
11672.00	89.910	341.340	6210.45	5421.85	4045.38	-4748.86	1638258.81	14318219.51	39°25'45.2420"N	81°00'27.5104"W	6236.33	310.426	0.55	-0.19	-0.52	
11767.00	93.360	340.280	6207.74	5516.79	4135.05	-4780.06	1638227.62	14318309.14	39°25'46.1282"N	81°00'27.9082"W	6320.41	310.862	3.80	3.63	-1.12	
11862.00	89.690	341.200	6205.22	5611.73	4224.68	-4811.38	1638196.31	14318398.74	39°25'47.0141"N	81°00'28.3074"W	6402.92	311.285	3.98	-3.86	0.97	
11957.00	90.490	340.850	6205.07	5706.72	4314.52	-4842.27	1638165.43	14318488.54	39°25'47.9020"N	81°00'28.7012"W	6485.57	311.701	0.92	0.84	-0.37	
12051.00	90.370	341.780	6204.36	5800.69	4403.56	-4872.39	1638135.33	14318577.55	39°25'48.7820"N	81°00'29.0850"W	6567.46	312.107	1.00	-0.13	0.99	
12146.00	90.030	341.630	6204.03	5895.65	4493.76	-4902.21	1638105.52	14318667.71	39°25'49.6734"N	81°00'29.4652"W	6650.22	312.511	0.39	-0.36	-0.16	
12241.00	89.970	341.440	6204.03	5990.62	4583.87	-4932.30	1638075.45	14318757.78	39°25'50.5640"N	81°00'29.8487"W	6733.45	312.903	0.21	-0.06	-0.20	
12336.00	90.220	341.010	6203.87	6085.60	4673.81	-4962.87	1638044.88	14318847.69	39°25'51.4529"N	81°00'30.2385"W	6817.23	313.282	0.52	0.26	-0.45	
12430.00	89.750	338.300	6203.90	6179.59	4761.94	-4995.55	1638012.22	14318935.79	39°25'52.3239"N	81°00'30.6551"W	6901.56	313.629	2.93	-0.50	-2.88	
12525.00	90.460	339.760	6203.72	6274.57	4850.64	-5029.55	1637978.24	14319024.45	39°25'53.2006"N	81°00'31.0884"W	6987.50	313.963	1.71	0.75	1.54	
12620.00	89.880	339.890	6203.44	6369.57	4939.81	-5062.31	1637945.48	14319113.59	39°25'54.0818"N	81°00'31.5061"W	7073.10	314.298	0.63	-0.61	0.14	
12715.00	89.880	338.800	6203.64	6464.56	5028.71	-5095.82	1637911.99	14319202.45	39°25'54.9604"N	81°00'31.9333"W	7159.28	314.620	1.15	0.00	-1.15	
12809.00	90.280	339.940	6203.51	6558.55	5116.68	-5128.94	1637878.88	14319290.38	39°25'55.8298"N	81°00'32.3555"W	7244.75	314.931	1.29	0.43	1.21	
12904.00	89.600	339.200	6203.61	6653.54	5205.70	-5162.10	1637845.74	14319379.37	39°25'56.7096"N	81°00'32.7782"W	7331.21	315.241	1.06	-0.72	-0.78	



Actual Wellpath Report

Mills Unit 1H AWP Proj: 17012'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWP
Slot	Slot #11		

WELLPATH DATA (194 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
12999.00	90.220	338.500	6203.76	6748.52	5294.30	-5196.38	1637811.47	14319467.93	39°25'57.5853"N	81°00'33.2151"W	7418.35	315.535	0.98	0.65	-0.74	
13093.00	89.320	340.220	6204.13	6842.51	5382.26	-5229.51	1637778.35	14319555.86	39°25'58.4546"N	81°00'33.6375"W	7504.43	315.825	2.07	-0.96	1.83	
13188.00	90.460	338.890	6204.32	6937.50	5471.27	-5262.69	1637745.18	14319644.83	39°25'59.3343"N	81°00'34.0605"W	7591.49	316.113	1.84	1.20	-1.40	
13283.00	89.510	341.560	6204.34	7032.49	5560.66	-5294.83	1637713.06	14319734.19	39°26'0.2177"N	81°00'34.4702"W	7678.29	316.403	2.98	-1.00	2.81	
13377.00	92.090	340.480	6203.03	7126.46	5649.53	-5325.40	1637882.51	14319823.02	39°26'1.0961"N	81°00'34.8599"W	7763.83	316.692	2.98	2.74	-1.15	
13472.00	90.030	339.490	6201.27	7221.44	5738.78	-5357.90	1637650.01	14319912.23	39°26'1.9781"N	81°00'35.2743"W	7851.16	316.966	2.41	-2.17	-1.04	
13567.00	90.030	339.380	6201.22	7316.43	5827.72	-5391.27	1637616.65	14320001.14	39°26'2.8571"N	81°00'35.6998"W	7939.03	317.228	0.12	0.00	-0.12	
13662.00	90.580	339.890	6200.72	7411.43	5916.78	-5424.33	1637583.61	14320090.16	39°26'3.7373"N	81°00'36.1212"W	8026.94	317.486	0.79	0.58	0.54	
13756.00	89.850	339.900	6200.36	7505.42	6005.05	-5456.64	1637551.31	14320178.40	39°26'4.6097"N	81°00'36.5331"W	8113.92	317.739	0.78	-0.78	0.01	
13851.00	90.120	340.220	6200.39	7600.42	6094.36	-5489.04	1637518.92	14320267.67	39°26'5.4923"N	81°00'36.9462"W	8201.88	317.991	0.44	0.28	0.34	
13946.00	90.180	339.330	6200.14	7695.42	6183.50	-5521.88	1637486.10	14320356.77	39°26'6.3733"N	81°00'37.3649"W	8290.17	318.235	0.94	0.06	-0.94	
14040.00	89.940	339.750	6200.04	7789.42	6271.57	-5554.74	1637453.25	14320444.81	39°26'7.2437"N	81°00'37.7838"W	8377.81	318.469	0.51	-0.26	0.45	
14135.00	89.970	339.330	6200.12	7884.41	6360.57	-5587.95	1637420.06	14320533.78	39°26'8.1233"N	81°00'38.2071"W	8466.53	318.700	0.44	0.03	-0.44	
14230.00	90.280	339.140	6199.91	7979.40	6449.40	-5621.63	1637386.39	14320622.57	39°26'9.0012"N	81°00'38.6365"W	8555.56	318.923	0.38	0.33	-0.20	
14325.00	90.550	338.830	6199.22	8074.38	6538.08	-5655.70	1637352.34	14320711.21	39°26'9.8776"N	81°00'39.0709"W	8644.85	319.139	0.43	0.28	-0.33	
14419.00	90.030	339.450	6198.74	8168.37	6625.92	-5689.17	1637318.88	14320799.02	39°26'10.7457"N	81°00'39.4976"W	8733.24	319.350	0.86	-0.55	0.66	
14514.00	90.250	338.770	6198.51	8263.35	6714.67	-5723.04	1637285.02	14320887.73	39°26'11.6229"N	81°00'39.9295"W	8822.70	319.558	0.75	0.23	-0.72	
14609.00	90.460	339.790	6197.92	8358.34	6803.53	-5756.65	1637251.42	14320976.55	39°26'12.5010"N	81°00'40.3580"W	8912.18	319.765	1.10	0.22	1.07	
14703.00	90.520	338.810	6197.12	8452.33	6891.45	-5789.88	1637218.21	14321064.44	39°26'13.3700"N	81°00'40.7816"W	9000.82	319.965	1.04	0.06	-1.04	
14798.00	90.340	339.280	6196.41	8547.31	6980.17	-5823.85	1637184.25	14321153.12	39°26'14.2468"N	81°00'41.2147"W	9090.65	320.160	0.53	-0.19	0.49	
14893.00	90.550	338.730	6195.67	8642.29	7068.86	-5857.89	1637150.23	14321241.78	39°26'15.1233"N	81°00'41.6487"W	9180.61	320.352	0.62	0.22	-0.58	
14987.00	90.490	339.980	6194.82	8736.28	7156.82	-5891.03	1637117.10	14321329.70	39°26'15.9926"N	81°00'42.0712"W	9269.53	320.541	1.33	-0.06	1.33	
15082.00	90.090	338.930	6194.34	8831.27	7245.77	-5924.37	1637083.77	14321418.62	39°26'16.8717"N	81°00'42.4963"W	9359.45	320.729	1.18	-0.42	-1.11	
15177.00	90.150	339.620	6194.14	8926.26	7334.62	-5957.99	1637050.17	14321507.43	39°26'17.7499"N	81°00'42.9249"W	9449.57	320.913	0.73	0.06	0.73	
15272.00	90.550	339.150	6193.56	9021.25	7423.54	-5991.43	1637016.73	14321596.31	39°26'18.6288"N	81°00'43.3513"W	9539.72	321.093	0.65	0.42	-0.49	
15366.00	90.310	338.970	6192.85	9115.23	7511.33	-6025.03	1636983.15	14321684.07	39°26'19.4962"N	81°00'43.7797"W	9629.17	321.266	0.32	-0.26	-0.19	
15461.00	90.740	339.820	6191.98	9210.22	7600.24	-6058.46	1636949.74	14321772.95	39°26'20.3750"N	81°00'44.2059"W	9719.50	321.440	1.00	0.45	0.89	
15555.00	90.120	338.080	6191.27	9304.20	7687.97	-6092.22	1636915.99	14321860.63	39°26'21.2419"N	81°00'44.6364"W	9809.18	321.605	1.97	-0.66	-1.85	
15650.00	90.460	338.620	6190.79	9399.15	7776.26	-6127.27	1636880.96	14321948.90	39°26'22.1146"N	81°00'45.0832"W	9900.18	321.764	0.67	0.36	0.57	
15745.00	90.400	339.040	6190.08	9494.13	7864.85	-6161.57	1636846.66	14322037.45	39°26'22.9900"N	81°00'45.5207"W	9991.04	321.924	0.45	-0.06	0.44	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (194 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	
15840.00	90.520	339.440	6189.32	9589.11	7953.68	-6195.25	1636813.00	14322126.24	39°26'23.8679"N	81°00'45.9500"W	10081.77	322.084	0.44	0.13	0.42		
15934.00	90.490	339.430	6188.49	9683.11	8041.68	-6228.26	1636780.00	14322214.21	39°26'24.7377"N	81°00'46.3710"W	10171.53	322.242	0.03	-0.03	-0.01		
16029.00	90.520	339.140	6187.65	9778.09	8130.54	-6261.87	1636746.41	14322303.03	39°26'25.6158"N	81°00'46.7995"W	10262.39	322.398	0.31	0.03	-0.31		
16124.00	90.490	338.970	6186.81	9873.07	8219.26	-6295.83	1636712.47	14322391.71	39°26'26.4926"N	81°00'47.2324"W	10353.43	322.548	0.18	-0.03	-0.18		
16218.00	90.520	339.570	6185.99	9967.06	8307.17	-6329.10	1636679.21	14322479.59	39°26'27.3615"N	81°00'47.6567"W	10443.49	322.697	0.64	0.03	0.64		
16313.00	90.520	339.210	6185.12	10062.05	8396.08	-6362.54	1636645.78	14322568.47	39°26'28.2402"N	81°00'48.0831"W	10534.52	322.845	0.38	0.00	-0.38		
16408.00	90.340	339.780	6184.41	10157.04	8485.06	-6395.81	1636612.52	14322657.41	39°26'29.1196"N	81°00'48.5074"W	10625.57	322.992	0.63	-0.19	0.60		
16502.00	90.370	339.470	6183.83	10251.04	8573.18	-6428.54	1636579.81	14322745.49	39°26'29.9904"N	81°00'48.9247"W	10715.67	323.136	0.33	0.03	-0.33		
16597.00	90.860	339.850	6182.81	10346.03	8662.25	-6461.56	1636546.80	14322834.53	39°26'30.8707"N	81°00'49.3457"W	10806.77	323.279	0.65	0.52	0.40		
16692.00	90.620	338.890	6181.58	10441.01	8751.15	-6495.03	1636513.35	14322923.39	39°26'31.7493"N	81°00'49.7725"W	10898.07	323.418	1.04	-0.25	-1.01		
16787.00	90.740	338.950	6180.45	10535.99	8839.79	-6529.19	1636479.19	14323011.99	39°26'32.6253"N	81°00'50.2081"W	10989.64	323.550	0.14	0.13	0.06		
16881.00	90.740	339.240	6179.24	10629.97	8927.59	-6562.73	1636445.67	14323099.76	39°26'33.4930"N	81°00'50.6358"W	11080.22	323.680	0.31	0.00	0.31		
16976.00	90.980	339.140	6177.81	10724.94	9016.38	-6596.48	1636411.93	14323188.52	39°26'34.3706"N	81°00'51.0661"W	11171.78	323.810	0.27	0.25	-0.11		
17012.00‡	90.980	339.140	6177.20	10760.93	9050.02	-6609.29	1636399.12	14323222.14	39°26'34.7030"N	81°00'51.2296"W	11206.50	323.859	0.00	0.00	0.00	Projected MD at TD: 17012'	

HOLE & CASING SECTIONS - Ref Wellbore: Mills Unit 1H AWB Ref Wellpath: Mills Unit 1H AWP Proj: 17012'									
String/Diameter	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start N/S (ft)	Start E/W (ft)	End N/S (ft)	End E/W (ft)
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.22	-0.17
17.5in Open Hole	110.00	680.00	570.00	110.00	679.98	0.22	-0.17	-1.33	-3.69
13.375in Casing Surface	30.00	660.00	630.00	30.00	659.98	0.00	0.00	-1.21	-3.42
12.25in Open Hole	680.00	2849.00	2169.00	679.98	2598.29	-1.33	-3.69	-153.36	-878.10
9.625in Casing Intermediate	30.00	2824.00	2794.00	30.00	2577.22	0.00	0.00	-150.96	-864.87
8.75in Open Hole	2849.00	6451.00	3602.00	2598.29	5590.33	-153.36	-878.10	-413.52	-2852.55
8.5in Open Hole	6451.00	17012.00	10561.00	5590.33	6177.20	-413.52	-2852.55	9050.02	-6609.29
5.5in Casing Production	30.00	17012.00	16982.00	30.00	6177.20	0.00	0.00	9050.02	-6609.29



Actual Wellpath Report

Mills Unit 1H AWP Proj: 17012'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mills Unit 1H POE Rev-2	6195.00	-22.69	-3297.54	1639709.55	14314153.08	39°25'5.0361"N	81°00'9.0136"W	point
Mills Unit 1H BHL Rev-2	6241.00	9037.67	-6583.07	1636425.34	14323209.80	39°26'34.5810"N	81°00'50.8952"W	point
Mills Unit 1H LP Rev-2	6241.00	214.72	-3383.63	1639623.49	14314390.39	39°25'7.3825"N	81°00'10.1106"W	point
Mills Unit 1H 50' L/R Hard Line	6500.00	4507.49	-4940.30	1638067.44	14318681.44	39°25'49.8091"N	81°00'29.9507"W	rectangle
	2D Rectangle 9637.68 x 100.							

WELLPATH COMPOSITION - Ref Wellbore: Mills Unit 1H AWB Ref Wellpath: Mills Unit 1H AWP Proj: 17012'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
30.00	559.00	Gyrodata 2015 - GC+VMR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-559')	Mills Unit 1H AWB	18/Mar/2021	
559.00	833.00	Gyrodata 2015 - GC+VMR+DPIPE	02 Gyrodata MS Gyro <12-1/4"> (559')(600'-833')	Mills Unit 1H AWB	21/Mar/2021	
833.00	2772.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (833')(869'-2772')	Mills Unit 1H AWB	18/Mar/2021	
2772.00	6385.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (2772')(2849'-6385')	Mills Unit 1H AWB	19/Apr/2021	
6385.00	17012.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH AT Curve <8-1/2"> (6385')(6426'-16976')	Mills Unit 1H AWB	19/Apr/2021	



Actual Wellpath Report

Mills Unit 1H AWP Proj: 17012'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 1H
Field	Tyler	API	47-095-02718-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 1H AWB
Slot	Slot #11		

COMMENTS
<p>Wellpath general comments API: 47-095-02718-0000 BH Job #: 110790235 Rig: H&P 519 Duration: 4/21/2021-4/25/2021 Gyrodata MS Gyro <17-1/2"> (100'-559') Gyrodata MS Gyro <12-1/4"> (559')(600'-833') APS EM <12-1/4"> (833')(869'-2772') APS EM <8-3/4"> (2772')(2849'-6385') BH AT Curve <8-1/2"> (6385')(6426'-16976') Sycamore: 6982' MD Middlesex: 7138' MD Burkett: 7290' MD Tully: 7320' MD Marcellus POE: 7329' MD Projected MD at TD: 17012'</p>