



ANTERO RESOURCES CORPORATION

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

Slot: Slot #10
 Well: Mills Unit 2H ST01
 Wellbore: Mills Unit 2H ST01 PWB

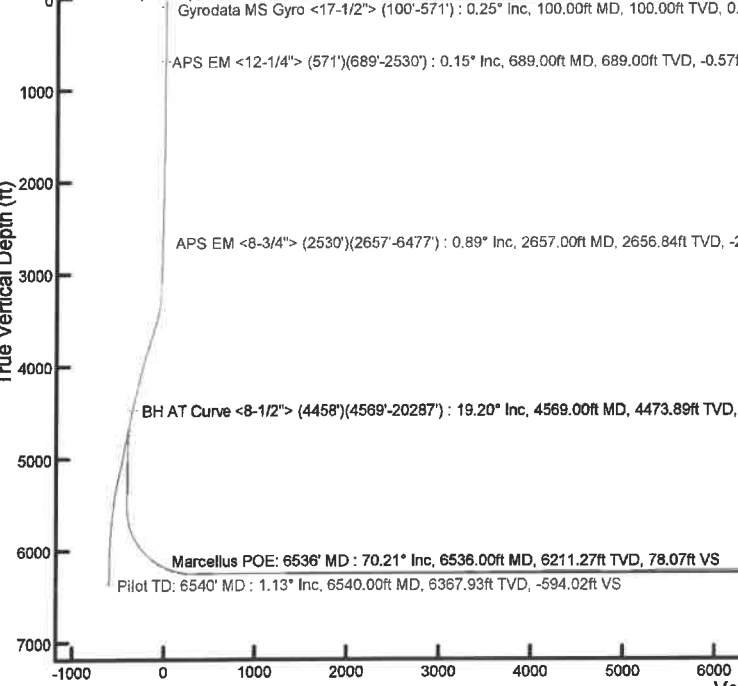


Plot reference wellbore is Mills Unit 2H ST01 PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1075 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #10): -1045 feet	Depths are in feet
Offset wellpath MDs are referenced to each well's default MD datum	Created by: wthayer on 2021-04-28; Database: WA_MPL_EASTERNUS_Datm

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Gorrell Pad	1643134.326	14314301.475	39°25'6.6020"N	80°59'25.3580"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #10	-118.47	-121.75	1643012.610	14314183.050	39°25'5.3312"N	80°59'26.9097"W
Comment: Mills Unit 2H						
H&P 519 (RKB) to Ground level (At Slot: Slot #10)					30ft	
Mean Sea Level to Ground level (At Slot: Slot #10)					-1045ft	
H&P 519 (RKB) to Mean Sea Level					1075ft	

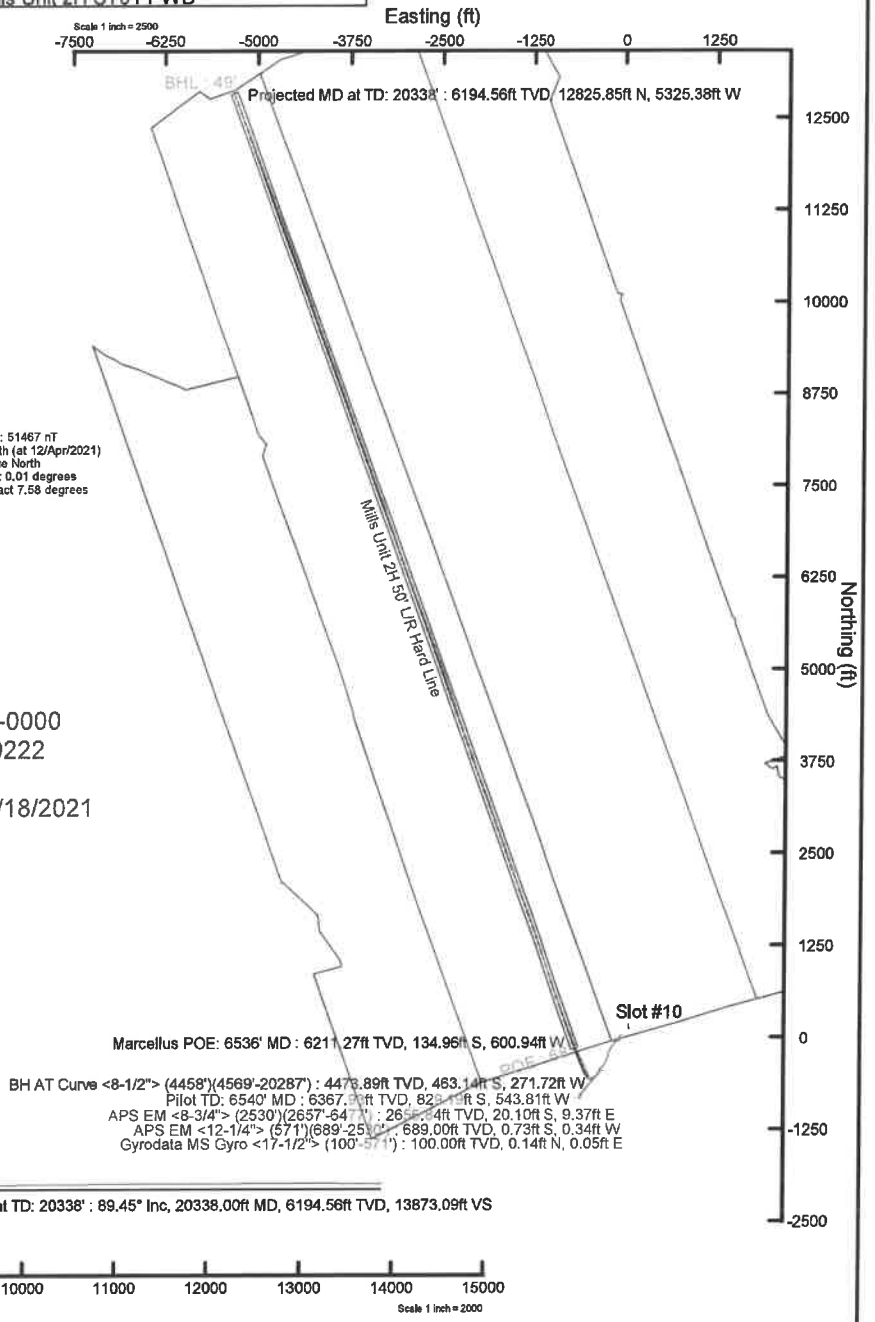
Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	4458.00	21.380	213.260	4369.78	-431.09	-250.41	1.65	-319.85
Next Pilot Svy	4552.00	18.830	212.700	4458.05	-458.18	-268.00	2.72	-339.62
Sidetrack Pt.	4600.00	19.001	213.337	4503.45	-471.23	-276.48	0.56	-348.69
Drop	5067.23	6.383	245.701	4958.78	-545.84	-342.28	3.00	-398.38
Curve KOP	5647.22	6.383	245.701	5355.18	-572.37	-401.24	0.00	-401.28
POE	6521.84	69.353	340.056	6210.00	-154.41	-611.81	8.00	63.49
Landing Pt.	6779.92	90.000	340.056	6256.00	82.98	-697.95	8.00	316.03
BHL	20344.02	90.000	340.056	6256.00	12833.59	-5324.66	0.00	13880.12

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #10	Mills Unit 2H	Mills Unit 2H AWB	Mills Unit 2H AWP Proj: 6540°
Slot #10	Mills Unit 2H ST01	Mills Unit 2H ST01 AWB	Mills Unit 2H ST01 AWP Proj: 20338°
Slot #10	Mills Unit 2H ST01	Mills Unit 2H ST01 PWB	Mills Unit 2H ST01 PWP Rev-B.0



User specified (HDGM) Dip: 66.27° Field: 51467 nT
 Magnetic North is 7.57 degrees West of True North (at 12/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

API: 47-095-02712-0000
 BH Job #: 110790222
 Rig: H&P 519
 Duration: 4/13/2021-4/18/2021



Vertical Section (ft)
 Azimuth 340.06° with reference 0.00 N, 0.00 E

Scale 1 inch = 2000



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

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	28/Apr/2021 at 00:13
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	-118.47	-121.76	1643012.61	14314183.05	39°25'5.3312"N	80°59'26.9097"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 #10)	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	340.06°



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

WELLPATH DATA (222 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	18.750	0.00	0.00	0.00	0.00	1643012.61	14314183.05	39°25'5.3312"N	80°59'26.9097"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	18.750	30.00	0.00	0.00	0.00	1643012.61	14314183.05	39°25'5.3312"N	80°59'26.9097"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.250	18.750	100.00	0.12	0.14	0.05	1643012.66	14314183.19	39°25'5.3326"N	80°59'26.9090"W	0.15	18.750	0.36	0.36	0.00	Gyrodota MS Gyro <17-1/2"> (100'-571')
200.00	0.010	203.870	200.00	0.28	0.34	0.12	1643012.73	14314183.39	39°25'5.3346"N	80°59'26.9082"W	0.36	18.627	0.26	-0.24	-174.88	
300.00	0.220	232.860	300.00	0.22	0.22	-0.04	1643012.57	14314183.27	39°25'5.3334"N	80°59'26.9102"W	0.22	349.439	0.21	0.21	28.99	
400.00	0.110	184.570	400.00	0.08	0.01	-0.20	1643012.41	14314183.06	39°25'5.3313"N	80°59'26.9122"W	0.20	272.194	0.17	-0.11	-48.29	
500.00	0.200	202.390	500.00	-0.14	-0.25	-0.28	1643012.33	14314182.80	39°25'5.3287"N	80°59'26.9132"W	0.37	227.875	0.10	0.09	17.82	
565.00	0.130	177.500	565.00	-0.29	-0.43	-0.32	1643012.29	14314182.62	39°25'5.3270"N	80°59'26.9137"W	0.53	216.420	0.15	-0.11	-38.29	
571.00	0.130	176.080	571.00	-0.31	-0.44	-0.31	1643012.30	14314182.61	39°25'5.3268"N	80°59'26.9137"W	0.54	215.503	0.05	0.00	-23.67	
689.00	0.150	192.150	689.00	-0.57	-0.73	-0.34	1643012.27	14314182.32	39°25'5.3240"N	80°59'26.9140"W	0.80	204.983	0.04	0.02	13.62	APS EM <12-1/4"> (571')(689'-2530')
870.00	0.360	205.480	870.00	-1.17	-1.47	-0.63	1643011.98	14314181.58	39°25'5.3167"N	80°59'26.9177"W	1.60	203.276	0.12	0.12	7.36	
960.00	0.350	207.930	959.99	-1.55	-1.97	-0.88	1643011.73	14314181.08	39°25'5.3117"N	80°59'26.9209"W	2.16	204.157	0.02	-0.01	2.72	
1051.00	0.270	185.160	1050.99	-1.93	-2.43	-1.03	1643011.58	14314180.62	39°25'5.3072"N	80°59'26.9228"W	2.64	203.039	0.16	-0.09	-25.02	
1145.00	0.240	141.870	1144.99	-2.32	-2.80	-0.93	1643011.68	14314180.25	39°25'5.3035"N	80°59'26.9215"W	2.95	198.370	0.20	-0.03	-46.05	
1239.00	0.310	139.840	1238.99	-2.74	-3.15	-0.65	1643011.96	14314179.90	39°25'5.3000"N	80°59'26.9179"W	3.22	191.570	0.08	0.07	-2.16	
1334.00	0.370	117.610	1333.99	-3.21	-3.49	-0.21	1643012.40	14314179.56	39°25'5.2967"N	80°59'26.9123"W	3.50	183.408	0.15	0.06	-23.40	
1429.00	0.420	126.590	1428.99	-3.73	-3.84	0.34	1643012.95	14314179.21	39°25'5.2932"N	80°59'26.9053"W	3.86	174.890	0.08	0.05	9.45	
1523.00	0.650	138.610	1522.98	-4.51	-4.45	0.97	1643013.58	14314178.61	39°25'5.2872"N	80°59'26.8973"W	4.55	167.661	0.27	0.24	12.79	
1618.00	0.690	138.290	1617.98	-5.54	-5.28	1.71	1643014.32	14314177.77	39°25'5.2790"N	80°59'26.8879"W	5.55	162.052	0.04	0.04	-0.34	
1712.00	0.740	147.290	1711.97	-6.66	-6.21	2.41	1643015.02	14314176.84	39°25'5.2698"N	80°59'26.8789"W	6.66	158.760	0.13	0.05	9.57	
1807.00	0.810	150.510	1806.96	-7.92	-7.31	3.08	1643015.68	14314175.74	39°25'5.2589"N	80°59'26.8705"W	7.93	157.183	0.09	0.07	3.39	
1901.00	0.890	158.870	1900.95	-9.31	-8.57	3.67	1643016.27	14314174.48	39°25'5.2465"N	80°59'26.8630"W	9.32	156.840	0.16	0.09	8.89	
1996.00	0.940	161.900	1995.94	-10.82	-10.00	4.17	1643016.78	14314173.05	39°25'5.2324"N	80°59'26.8565"W	10.84	157.342	0.07	0.05	3.19	
2090.00	0.760	165.510	2089.93	-12.22	-11.34	4.57	1643017.18	14314171.72	39°25'5.2191"N	80°59'26.8514"W	12.22	158.044	0.20	-0.19	3.84	
2184.00	1.020	152.840	2183.92	-13.67	-12.68	5.11	1643017.72	14314170.37	39°25'5.2058"N	80°59'26.8446"W	13.67	158.066	0.35	0.28	-13.48	
2279.00	1.160	151.740	2278.90	-15.46	-14.28	5.95	1643018.56	14314168.77	39°25'5.1900"N	80°59'26.8339"W	15.47	157.388	0.15	0.15	-1.16	
2374.00	1.020	147.460	2373.88	-17.23	-15.84	6.86	1643019.47	14314167.21	39°25'5.1746"N	80°59'26.8223"W	17.26	156.590	0.17	-0.15	-4.51	
2469.00	1.070	148.790	2468.87	-18.93	-17.32	7.77	1643020.38	14314165.74	39°25'5.1601"N	80°59'26.8106"W	18.98	155.822	0.06	0.05	1.40	
2530.00	1.030	143.980	2529.86	-20.01	-18.25	8.39	1643021.00	14314164.81	39°25'5.1509"N	80°59'26.8028"W	20.08	155.302	0.16	-0.07	-7.89	
2657.00	0.890	161.630	2656.84	-22.10	-20.10	9.37	1643021.98	14314162.95	39°25'5.1325"N	80°59'26.7903"W	22.18	155.004	0.26	-0.11	13.90	APS EM <8-3/4"> (2530')(2657'-6477')



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

WELLPATH DATA (222 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]	[°N]	[°W]	[ft]	[°]	[ft/100ft]	[ft/100ft]	[°/100ft]	
2751.00	1.020	149.160	2750.83	-23.65	-21.52	10.03	1643022.64	14314161.54	39°25'5.1185"N	80°59'26.7819"W	23.74	155.002	0.26	0.14	-13.27	
2846.00	2.110	214.010	2845.79	-25.51	-23.69	9.49	1643022.09	14314159.37	39°25'5.0970"N	80°59'26.7888"W	25.52	158.176	2.01	1.15	68.26	
2940.00	5.200	229.720	2939.59	-28.01	-27.88	5.27	1643017.88	14314155.18	39°25'5.0556"N	80°59'26.8426"W	28.38	169.299	3.43	3.29	16.71	
3035.00	7.980	235.260	3033.96	-31.19	-34.42	-3.44	1643009.18	14314148.64	39°25'4.9910"N	80°59'26.9535"W	34.60	185.700	3.00	2.93	5.83	
3132.00	11.340	239.520	3129.57	-34.65	-43.10	-17.19	1642995.43	14314139.97	39°25'4.9052"N	80°59'27.1288"W	46.40	201.746	3.54	3.46	4.39	
3227.00	14.060	237.620	3222.24	-38.85	-54.02	-34.99	1642977.63	14314129.05	39°25'4.7973"N	80°59'27.3556"W	64.36	212.932	2.90	2.86	-2.00	
3322.00	16.680	229.790	3313.84	-46.06	-69.01	-55.15	1642957.48	14314114.07	39°25'4.6492"N	80°59'27.6125"W	88.34	218.633	3.51	2.76	-8.24	
3416.00	20.900	220.360	3402.83	-59.05	-90.51	-76.33	1642936.31	14314092.58	39°25'4.4368"N	80°59'27.8823"W	118.39	220.142	5.52	4.49	-10.03	
3511.00	25.000	215.720	3490.30	-78.78	-119.73	-99.03	1642913.62	14314063.37	39°25'4.1479"N	80°59'28.1717"W	155.38	219.595	4.71	4.32	-4.88	
3606.00	24.600	210.640	3576.55	-102.66	-153.05	-120.83	1642891.83	14314030.07	39°25'3.8187"N	80°59'28.4495"W	195.00	218.292	2.28	-0.42	-5.35	
3700.00	23.110	204.160	3662.53	-128.34	-186.72	-138.36	1642874.31	14313996.41	39°25'3.4859"N	80°59'28.6728"W	232.39	216.538	3.20	-1.59	-6.89	
3795.00	21.970	198.000	3750.29	-155.75	-220.64	-151.48	1642861.19	14313962.50	39°25'3.1507"N	80°59'28.8401"W	267.63	214.472	2.76	-1.20	-6.48	
3889.00	20.500	194.570	3837.90	-183.18	-253.29	-161.06	1642851.62	14313929.86	39°25'2.8279"N	80°59'28.9621"W	300.16	212.450	2.05	-1.56	-3.65	
3984.00	19.420	193.990	3927.20	-209.99	-284.72	-169.06	1642843.62	14313898.45	39°25'2.5173"N	80°59'29.0641"W	331.13	210.701	1.16	-1.14	-0.61	
4079.00	17.810	199.170	4017.23	-234.37	-313.77	-177.65	1642835.03	14313869.41	39°25'2.2302"N	80°59'29.1736"W	360.57	209.518	2.43	-1.69	5.45	
4173.00	19.560	207.450	4106.29	-256.19	-341.32	-189.63	1642823.06	14313841.87	39°25'1.9580"N	80°59'29.3263"W	390.46	209.055	3.38	1.86	8.81	
4268.00	23.790	217.500	4194.58	-277.28	-370.66	-208.64	1642804.06	14313812.54	39°25'1.6680"N	80°59'29.5685"W	425.34	209.375	5.91	4.45	10.58	
4363.00	22.930	213.830	4281.80	-298.53	-401.23	-230.61	1642782.10	14313781.98	39°25'1.3658"N	80°59'29.8485"W	462.78	209.888	1.78	-0.91	-3.86	
4458.00	21.380	213.260	4369.78	-319.85	-431.09	-250.41	1642762.30	14313752.14	39°25'1.0708"N	80°59'30.1008"W	498.54	210.151	1.65	-1.63	-0.60	
4569.00	19.200	214.020	4473.89	-342.71	-463.14	-271.72	1642741.00	14313720.10	39°25'0.7540"N	80°59'30.3724"W	536.96	210.400	1.98	-1.96	0.68	BH AT Curve <8-1/2"> (4458')(4569'-20287')
4664.00	19.430	215.690	4563.54	-360.82	-488.92	-289.68	1642723.05	14313694.33	39°25'0.4992"N	80°59'30.6012"W	568.29	210.646	0.63	0.24	1.76	
4759.00	15.440	217.200	4654.16	-376.61	-511.83	-306.55	1642706.19	14313671.42	39°25'0.2728"N	80°59'30.8162"W	596.61	210.918	4.23	-4.20	1.59	
4853.00	12.930	219.560	4745.29	-388.74	-529.91	-320.81	1642691.93	14313653.35	39°25'0.0941"N	80°59'30.9980"W	619.46	211.191	2.74	-2.67	2.51	
4948.00	8.380	231.290	4838.64	-396.36	-542.44	-332.99	1642679.75	14313640.82	39°24'59.9703"N	80°59'31.1532"W	636.50	211.545	5.26	-4.79	12.35	
5043.00	6.220	246.100	4932.87	-398.95	-548.86	-343.10	1642669.65	14313634.41	39°24'59.9069"N	80°59'31.2820"W	647.27	212.010	3.00	-2.27	15.59	
5138.00	6.560	244.080	5027.28	-399.87	-553.32	-352.69	1642660.06	14313629.96	39°24'59.8628"N	80°59'31.4042"W	656.16	212.514	0.43	0.36	-2.13	
5232.00	6.490	243.890	5120.67	-401.00	-558.00	-362.29	1642650.47	14313625.27	39°24'59.8165"N	80°59'31.5265"W	665.29	212.994	0.08	-0.07	-0.20	
5327.00	6.360	243.710	5215.07	-402.16	-562.69	-371.83	1642640.93	14313620.58	39°24'59.7702"N	80°59'31.6480"W	674.45	213.456	0.14	-0.14	-0.19	
5422.00	6.550	246.160	5309.47	-403.11	-567.22	-381.50	1642631.26	14313616.06	39°24'59.7255"N	80°59'31.7713"W	683.57	213.924	0.35	0.20	2.58	
5517.00	6.480	246.040	5403.86	-403.85	-571.58	-391.35	1642621.41	14313611.70	39°24'59.6823"N	80°59'31.8968"W	692.72	214.399	0.08	-0.07	-0.13	



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

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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]	
5611.00	6.510	245.740	5497.25	-404.62	-575.93	-401.06	1642611.71	14313607.36	39°24'59.6394"N	80°59'32.0205"W	701.81	214.852	0.05	0.03	-0.32	
5706.00	5.730	302.190	5591.79	-401.28	-575.61	-409.99	1642602.79	14313607.67	39°24'59.6425"N	80°59'32.1343"W	706.70	215.461	6.13	-0.82	59.42	
5801.00	12.160	353.820	5685.71	-387.79	-563.11	-415.09	1642597.68	14313620.17	39°24'59.7661"N	80°59'32.1993"W	699.57	216.396	10.20	6.77	54.35	
5895.00	20.410	349.660	5775.87	-361.97	-537.10	-419.11	1642593.67	14313646.17	39°25'0.0232"N	80°59'32.2504"W	681.27	217.966	8.86	8.78	-4.43	
5990.00	26.860	333.980	5862.94	-324.22	-501.44	-431.52	1642581.26	14313681.81	39°25'0.3756"N	80°59'32.4086"W	661.55	220.714	9.43	6.79	-16.51	
6085.00	35.190	334.720	5944.27	-275.53	-457.32	-452.66	1642560.13	14313725.91	39°25'0.8116"N	80°59'32.6779"W	643.47	224.706	8.78	8.77	0.78	
6175.00†	43.108	333.554	6014.02	-219.07	-406.26	-477.47	1642535.33	14313776.95	39°25'1.3164"N	80°59'32.9940"W	626.92	229.607	8.84	8.80	-1.30	Sycamore: 6175' MD
6179.00	43.460	333.510	6016.93	-216.34	-403.80	-478.69	1642534.11	14313779.41	39°25'1.3406"N	80°59'33.0095"W	626.26	229.851	8.84	8.80	-1.09	
6274.00	49.880	335.780	6082.09	-147.59	-341.37	-508.20	1642504.61	14313841.82	39°25'1.9578"N	80°59'33.3854"W	612.21	236.110	6.98	6.76	2.39	
6317.00†	53.306	335.704	6108.80	-113.99	-310.65	-522.04	1642490.78	14313872.52	39°25'2.2613"N	80°59'33.5618"W	607.48	239.245	7.97	7.97	-0.18	Middlesex: 6317' MD
6369.00	57.450	335.620	6138.33	-71.34	-271.67	-539.68	1642473.15	14313911.49	39°25'2.6466"N	80°59'33.7864"W	604.20	243.279	7.97	7.97	-0.16	
6416.00	60.850	335.470	6162.43	-31.12	-234.95	-556.38	1642456.45	14313948.20	39°25'3.0096"N	80°59'33.9992"W	603.95	247.107	7.24	7.23	-0.32	
6463.00	65.340	335.710	6183.69	10.66	-196.79	-573.69	1642439.15	14313986.34	39°25'3.3867"N	80°59'34.2198"W	606.51	251.067	9.56	9.55	0.51	
6476.00†	66.222	335.887	6189.03	22.48	-185.98	-578.55	1642434.29	14313997.15	39°25'3.4936"N	80°59'34.2817"W	607.71	252.180	6.90	6.79	1.36	Burkett: 6476' MD
6510.00	68.530	336.340	6202.11	53.79	-157.28	-591.26	1642421.59	14314025.83	39°25'3.7772"N	80°59'34.4436"W	611.82	255.104	6.90	6.79	1.33	
6525.00†	69.498	336.584	6207.48	67.77	-144.44	-596.85	1642416.00	14314038.67	39°25'3.9041"N	80°59'34.5148"W	614.08	256.396	6.63	6.46	1.63	Tully: 6525' MD
6536.00†	70.209	336.781	6211.27	78.07	-134.96	-600.94	1642411.91	14314048.14	39°25'3.9979"N	80°59'34.5669"W	615.91	257.343	6.63	6.46	1.61	Marcellus POE: 6536' MD
6558.00	71.630	337.110	6218.46	98.83	-115.83	-609.09	1642403.77	14314067.27	39°25'4.1869"N	80°59'34.6707"W	620.00	259.233	6.63	6.46	1.59	
6653.00	80.540	341.240	6241.29	190.92	-29.73	-641.77	1642371.10	14314153.33	39°25'5.0380"N	80°59'35.0870"W	642.46	267.348	10.28	9.38	4.35	
6747.00	84.820	337.550	6253.27	284.11	57.50	-674.58	1642338.30	14314240.53	39°25'5.9001"N	80°59'35.5050"W	677.03	274.872	5.99	4.55	-3.93	
6842.00	89.450	338.690	6258.01	378.91	145.52	-709.93	1642302.97	14314328.51	39°25'6.7701"N	80°59'35.9553"W	724.69	281.584	5.02	4.87	1.20	
6936.00	90.280	338.750	6258.24	472.88	233.11	-744.04	1642268.87	14314416.07	39°25'7.6358"N	80°59'36.3899"W	779.71	287.396	0.89	0.88	0.06	
7031.00	91.080	340.240	6257.11	567.87	322.08	-777.32	1642235.61	14314505.01	39°25'8.5152"N	80°59'36.8138"W	841.40	292.507	1.78	0.84	1.57	
7126.00	90.120	339.840	6256.11	662.86	411.37	-809.74	1642203.19	14314594.26	39°25'9.3977"N	80°59'37.2269"W	908.25	296.932	1.09	-1.01	-0.42	
7221.00	89.200	338.250	6256.68	757.84	500.08	-843.72	1642169.23	14314682.93	39°25'10.2745"N	80°59'37.6597"W	980.79	300.656	1.93	-0.97	-1.67	
7316.00	90.400	340.170	6257.01	852.82	588.89	-877.43	1642135.53	14314771.70	39°25'11.1522"N	80°59'38.0893"W	1056.73	303.868	2.38	1.26	2.02	
7411.00	90.120	341.380	6256.58	947.81	678.59	-908.71	1642104.26	14314861.37	39°25'12.0388"N	80°59'38.4878"W	1134.13	306.751	1.31	-0.29	1.27	
7505.00	91.290	338.630	6255.42	1041.80	766.91	-940.85	1642072.14	14314949.65	39°25'12.9117"N	80°59'38.8972"W	1213.81	309.184	3.18	1.24	-2.93	
7599.00	90.890	339.640	6253.63	1135.77	854.73	-974.32	1642038.68	14315037.43	39°25'13.7797"N	80°59'39.3236"W	1296.10	311.259	1.16	-0.43	1.07	
7694.00	90.120	339.540	6252.80	1230.76	943.76	-1007.45	1642005.56	14315126.43	39°25'14.6597"N	80°59'39.7457"W	1380.45	313.130	0.82	-0.81	-0.11	



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

WELLPATH DATA (222 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]	[°]	[ft/100ft]	[ft/100ft]	[ft/100ft]	
7789.00	91.630	340.790	6251.34	1325.74	1033.11	-1039.68	1641973.35	14315215.74	39°25'15.5428"N	80°59'40.1563"W	1465.69	314.818	2.06	1.59	1.32	
7884.00	90.030	340.700	6249.97	1420.72	1122.78	-1071.01	1641942.04	14315305.38	39°25'16.4291"N	80°59'40.5554"W	1551.67	316.352	1.69	-1.68	-0.09	
7978.00	89.750	340.660	6250.15	1514.72	1211.49	-1102.10	1641910.95	14315394.05	39°25'17.3058"N	80°59'40.9516"W	1637.78	317.707	0.30	-0.30	-0.04	
8073.00	89.820	340.150	6250.51	1609.71	1300.98	-1133.96	1641879.10	14315483.51	39°25'18.1904"N	80°59'41.3575"W	1725.81	318.924	0.54	0.07	-0.54	
8168.00	90.950	339.940	6249.87	1704.71	1390.28	-1166.38	1641846.69	14315572.77	39°25'19.0729"N	80°59'41.7705"W	1814.75	320.005	1.21	1.19	-0.22	
8262.00	90.890	340.560	6248.36	1798.70	1478.74	-1198.14	1641814.95	14315661.19	39°25'19.9472"N	80°59'42.1752"W	1903.21	320.984	0.66	-0.06	0.66	
8357.00	90.430	339.440	6247.26	1893.69	1568.00	-1230.63	1641782.47	14315750.42	39°25'20.8295"N	80°59'42.5891"W	1993.26	321.874	1.27	-0.48	-1.18	
8451.00	90.340	340.480	6246.63	1987.68	1656.30	-1262.84	1641750.27	14315838.69	39°25'21.7022"N	80°59'42.9995"W	2082.82	322.676	1.11	-0.10	1.11	
8641.00	89.570	339.650	6246.78	2177.68	1834.92	-1327.62	1641685.52	14316017.23	39°25'23.4676"N	80°59'43.8248"W	2264.84	324.113	0.60	-0.41	-0.44	
8736.00	89.600	339.910	6247.47	2272.68	1924.06	-1360.46	1641652.70	14316106.34	39°25'24.3486"N	80°59'44.2432"W	2356.45	324.737	0.28	0.03	0.27	
8830.00	90.150	340.240	6247.67	2366.68	2012.43	-1392.49	1641620.68	14316194.67	39°25'25.2221"N	80°59'44.6513"W	2447.23	325.319	0.68	0.59	0.35	
8925.00	90.150	340.350	6247.43	2461.68	2101.87	-1424.52	1641588.66	14316284.07	39°25'26.1061"N	80°59'45.0595"W	2539.12	325.873	0.12	0.00	0.12	
9020.00	89.720	340.640	6247.53	2556.67	2191.42	-1456.24	1641556.95	14316373.59	39°25'26.9911"N	80°59'45.4636"W	2631.15	326.395	0.55	-0.45	0.31	
9114.00	89.630	339.810	6248.07	2650.67	2279.87	-1488.04	1641525.16	14316462.00	39°25'27.8654"N	80°59'45.8688"W	2722.52	326.868	0.89	-0.10	-0.88	
9209.00	90.150	339.680	6248.25	2745.67	2369.00	-1520.93	1641492.29	14316551.09	39°25'28.7462"N	80°59'46.2878"W	2815.21	327.299	0.56	0.55	-0.14	
9304.00	90.460	340.550	6247.74	2840.67	2458.33	-1553.25	1641459.99	14316640.39	39°25'29.6292"N	80°59'46.6996"W	2907.91	327.714	0.97	0.33	0.92	
9398.00	90.400	339.820	6247.04	2934.66	2546.76	-1585.11	1641428.14	14316728.79	39°25'30.5032"N	80°59'47.1055"W	2999.76	328.102	0.78	-0.06	-0.78	
9493.00	90.460	340.220	6246.33	3029.66	2636.04	-1617.57	1641395.69	14316818.03	39°25'31.3856"N	80°59'47.5191"W	3092.77	328.465	0.43	0.06	0.42	
9587.00	90.370	340.300	6245.64	3123.66	2724.51	-1649.32	1641363.96	14316906.47	39°25'32.2601"N	80°59'47.9237"W	3184.84	328.811	0.13	-0.10	0.09	
9682.00	90.520	339.780	6244.91	3218.65	2813.80	-1681.75	1641331.54	14316995.72	39°25'33.1426"N	80°59'48.3369"W	3278.07	329.134	0.57	0.16	-0.55	
9777.00	90.180	339.870	6244.33	3313.65	2902.97	-1714.51	1641298.79	14317084.86	39°25'34.0239"N	80°59'48.7543"W	3371.47	329.434	0.37	-0.36	0.09	
9871.00	89.720	341.030	6244.41	3407.65	2991.55	-1745.96	1641267.35	14317173.40	39°25'34.8994"N	80°59'49.1551"W	3463.78	329.731	1.33	-0.49	1.23	
9966.00	90.060	339.910	6244.59	3502.64	3081.09	-1777.72	1641235.60	14317262.90	39°25'35.7843"N	80°59'49.5598"W	3557.16	330.016	1.23	0.36	-1.18	
10061.00	90.650	340.750	6244.00	3597.64	3170.54	-1809.70	1641203.64	14317352.31	39°25'36.6684"N	80°59'49.9672"W	3650.66	330.283	1.08	0.62	0.88	
10155.00	91.290	340.130	6242.41	3691.62	3259.10	-1841.16	1641172.19	14317440.84	39°25'37.5437"N	80°59'50.3682"W	3743.21	330.537	0.95	0.68	-0.66	
10250.00	89.750	339.110	6241.55	3786.61	3348.15	-1874.24	1641139.12	14317529.85	39°25'38.4238"N	80°59'50.7897"W	3837.04	330.761	1.94	-1.62	-1.07	
10345.00	91.480	339.450	6240.53	3881.59	3436.99	-1907.85	1641105.53	14317618.66	39°25'39.3019"N	80°59'51.2180"W	3931.01	330.966	1.86	1.82	0.36	
10439.00	90.310	338.690	6239.06	3975.56	3524.78	-1941.43	1641071.96	14317706.41	39°25'40.1695"N	80°59'51.6458"W	4024.08	331.154	1.48	-1.24	-0.81	
10534.00	90.310	340.420	6238.55	4070.56	3613.79	-1974.61	1641038.80	14317795.39	39°25'41.0493"N	80°59'52.0686"W	4118.08	331.347	1.82	0.00	1.82	
10629.00	91.170	342.050	6237.32	4165.52	3703.73	-2005.17	1641008.25	14317885.29	39°25'41.9382"N	80°59'52.4580"W	4211.69	331.569	1.94	0.91	1.72	



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

WELLPATH DATA (222 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
10724.00	90.850	340.010	6235.56	4260.49	3793.55	-2036.04	1640977.39	14317975.07	39°25'42.8260"N	80°59'52.8515"W	4305.40	331.777	2.16	-0.23	-2.15	
10818.00	89.780	339.260	6234.96	4354.48	3881.67	-2068.75	1640944.69	14318063.16	39°25'43.6969"N	80°59'53.2683"W	4398.53	331.944	1.48	-1.24	-0.80	
10913.00	90.490	340.550	6234.74	4449.48	3970.88	-2101.39	1640912.06	14318152.34	39°25'44.5787"N	80°59'53.6842"W	4492.63	332.112	1.55	0.75	1.36	
11007.00	89.480	339.440	6234.76	4543.48	4059.21	-2133.55	1640879.92	14318240.63	39°25'45.4516"N	80°59'54.0940"W	4585.76	332.273	1.60	-1.07	-1.18	
11102.00	89.600	340.880	6235.53	4638.47	4148.56	-2165.79	1640847.69	14318329.95	39°25'46.3348"N	80°59'54.5048"W	4679.87	332.433	1.52	0.13	1.52	
11197.00	88.620	339.000	6237.00	4733.45	4237.79	-2198.37	1640815.13	14318419.13	39°25'47.2166"N	80°59'54.9200"W	4774.06	332.582	2.23	-1.03	-1.98	
11292.00	89.050	340.070	6238.93	4828.43	4326.77	-2231.57	1640781.93	14318508.08	39°25'48.0961"N	80°59'55.3432"W	4868.35	332.717	1.21	0.45	1.13	
11387.00	91.080	344.390	6238.83	4923.33	4417.21	-2260.56	1640752.96	14318598.49	39°25'48.9900"N	80°59'55.7126"W	4962.04	332.898	5.02	2.14	4.55	
11481.00	89.450	338.080	6238.39	5017.26	4506.17	-2290.78	1640722.75	14318687.40	39°25'49.8691"N	80°59'56.0977"W	5055.02	333.053	6.93	-1.73	-6.71	
11576.00	92.490	344.530	6236.78	5112.16	4596.08	-2321.21	1640692.33	14318777.28	39°25'50.7578"N	80°59'56.4855"W	5148.98	333.204	7.50	3.20	6.79	
11671.00	91.720	340.300	6233.29	5207.00	4686.56	-2349.89	1640663.67	14318867.73	39°25'51.6521"N	80°59'56.8509"W	5242.69	333.370	4.52	-0.81	-4.45	
11765.00	90.520	339.990	6231.45	5300.98	4774.95	-2381.81	1640631.76	14318956.08	39°25'52.5257"N	80°59'57.2577"W	5336.03	333.489	1.32	-1.28	-0.33	
11860.00	90.310	342.170	6230.76	5395.95	4864.81	-2412.61	1640600.97	14319045.91	39°25'53.4138"N	80°59'57.6502"W	5430.20	333.622	2.31	-0.22	2.29	
11955.00	90.030	339.250	6230.48	5490.94	4954.47	-2443.99	1640569.61	14319135.53	39°25'54.2999"N	80°59'58.0501"W	5524.48	333.743	3.09	-0.29	-3.07	
12049.00	90.460	339.260	6230.08	5584.93	5042.37	-2477.28	1640536.32	14319223.40	39°25'55.1688"N	80°59'58.4744"W	5618.05	333.835	0.46	0.46	0.01	
12144.00	90.370	339.790	6229.39	5679.92	5131.37	-2510.51	1640503.11	14319312.36	39°25'56.0483"N	80°59'58.8979"W	5712.58	333.930	0.57	-0.09	0.56	
12239.00	90.000	339.310	6229.09	5774.92	5220.38	-2543.70	1640469.93	14319401.33	39°25'56.9281"N	80°59'59.3209"W	5807.13	334.022	0.64	-0.39	-0.51	
12333.00	90.430	339.320	6228.73	5868.91	5308.32	-2576.91	1640436.74	14319489.24	39°25'57.7972"N	80°59'59.7441"W	5900.74	334.106	0.46	0.46	0.01	
12428.00	90.250	341.450	6228.17	5963.90	5397.80	-2608.80	1640404.86	14319578.68	39°25'58.6816"N	81°00'0.1505"W	5995.17	334.205	2.25	-0.19	2.24	
12522.00	90.000	339.710	6227.96	6057.89	5486.45	-2640.05	1640373.62	14319667.29	39°25'59.5578"N	81°00'0.5488"W	6088.59	334.303	1.87	-0.27	-1.85	
12617.00	89.880	338.210	6228.06	6152.87	5575.11	-2674.15	1640339.53	14319755.92	39°26'0.4341"N	81°00'0.9835"W	6183.28	334.375	1.58	-0.13	-1.58	
12711.00	89.970	339.340	6228.19	6246.84	5662.74	-2708.18	1640305.51	14319843.51	39°26'1.3001"N	81°00'1.4172"W	6277.01	334.441	1.21	0.10	1.20	
12806.00	89.570	339.730	6228.57	6341.84	5751.74	-2741.40	1640272.31	14319932.48	39°26'2.1797"N	81°00'1.8405"W	6371.64	334.517	0.59	-0.42	0.41	
12901.00	89.970	338.860	6228.95	6436.83	5840.61	-2774.97	1640238.75	14320021.31	39°26'3.0581"N	81°00'2.2684"W	6466.31	334.587	0.99	0.42	-0.89	
12995.00	89.880	339.380	6229.07	6530.82	5928.44	-2808.46	1640205.28	14320109.11	39°26'3.9262"N	81°00'2.6952"W	6560.02	334.652	0.54	-0.10	0.53	
13090.00	89.910	339.270	6229.25	6625.81	6017.32	-2842.00	1640171.75	14320197.95	39°26'4.8046"N	81°00'3.1226"W	6654.71	334.718	0.12	0.03	-0.12	
13185.00	90.650	340.300	6228.78	6720.80	6106.47	-2874.83	1640138.94	14320287.06	39°26'5.6857"N	81°00'3.5410"W	6749.34	334.790	1.34	0.78	1.08	
13279.00	90.180	339.370	6228.10	6814.80	6194.70	-2907.23	1640106.55	14320375.26	39°26'6.5577"N	81°00'3.9540"W	6842.97	334.859	1.11	-0.50	-0.99	
13374.00	90.120	340.430	6227.85	6908.80	6283.91	-2939.88	1640073.92	14320464.44	39°26'7.4395"N	81°00'4.3701"W	6937.61	334.928	1.12	-0.06	1.12	
13469.00	90.000	339.890	6227.75	7004.80	6373.27	-2972.12	1640041.69	14320553.76	39°26'8.3226"N	81°00'4.7810"W	7032.22	334.998	0.58	-0.13	-0.57	



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

WELLPATH DATA (222 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
13563.00	90.120	339.810	6227.65	7098.80	6461.52	-3004.50	1640009.32	14320641.97	39°26'9.1948"N	81°00'5.1938"W	7125.89	335.062	0.15	0.13	-0.09	
13658.00	90.490	340.020	6227.15	7193.79	6550.74	-3037.12	1639976.71	14320731.16	39°26'10.0766"N	81°00'5.6096"W	7220.55	335.126	0.45	0.39	0.22	
13753.00	90.460	339.640	6226.36	7288.79	6639.91	-3069.88	1639943.97	14320820.29	39°26'10.9579"N	81°00'6.0271"W	7315.23	335.187	0.40	-0.03	-0.40	
13847.00	90.370	341.070	6225.68	7382.78	6728.44	-3101.48	1639912.38	14320908.78	39°26'11.8329"N	81°00'6.4298"W	7408.85	335.253	1.52	-0.10	1.52	
13942.00	90.580	340.740	6224.89	7477.77	6818.21	-3132.56	1639881.31	14320998.52	39°26'12.7201"N	81°00'6.8259"W	7503.39	335.324	0.41	0.22	-0.35	
14037.00	90.120	340.370	6224.31	7572.76	6907.79	-3164.18	1639849.70	14321088.06	39°26'13.6054"N	81°00'7.2290"W	7598.00	335.389	0.62	-0.48	-0.39	
14131.00	90.370	339.920	6223.91	7666.76	6996.20	-3196.11	1639817.79	14321176.43	39°26'14.4792"N	81°00'7.6360"W	7691.67	335.447	0.55	0.27	-0.48	
14226.00	91.020	343.050	6222.76	7761.71	7086.26	-3226.27	1639787.64	14321266.46	39°26'15.3694"N	81°00'8.0204"W	7786.14	335.521	3.36	0.68	3.29	
14416.00	90.030	339.550	6221.02	7951.63	7266.19	-3287.17	1639726.76	14321446.32	39°26'17.1477"N	81°00'8.7967"W	7975.15	335.658	1.91	-0.52	-1.84	
14510.00	90.180	339.120	6220.84	8045.62	7354.14	-3320.34	1639693.60	14321534.24	39°26'18.0170"N	81°00'9.2195"W	8068.96	335.701	0.48	0.16	-0.46	
14605.00	90.490	341.050	6220.29	8140.62	7443.46	-3352.70	1639661.26	14321623.52	39°26'18.8997"N	81°00'9.6320"W	8163.68	335.752	2.06	0.33	2.03	
14700.00	90.620	340.310	6219.37	8235.61	7533.10	-3384.13	1639629.84	14321713.12	39°26'19.7857"N	81°00'10.0326"W	8258.33	335.809	0.79	0.14	-0.78	
14795.00	90.180	339.230	6218.71	8330.60	7622.24	-3416.98	1639597.00	14321802.22	39°26'20.6666"N	81°00'10.4513"W	8353.10	335.854	1.23	-0.46	-1.14	
14889.00	90.620	339.880	6218.05	8424.59	7710.31	-3449.81	1639564.18	14321890.27	39°26'21.5371"N	81°00'10.8698"W	8446.90	335.895	0.84	0.47	0.69	
14984.00	91.050	340.510	6216.66	8519.58	7799.69	-3482.00	1639532.01	14321979.60	39°26'22.4204"N	81°00'11.2801"W	8541.63	335.943	0.80	0.45	0.66	
15079.00	90.580	339.570	6215.31	8614.57	7888.97	-3514.42	1639499.60	14322068.85	39°26'23.3028"N	81°00'11.6934"W	8636.38	335.988	1.11	-0.49	-0.99	
15173.00	90.680	340.060	6214.28	8708.56	7977.19	-3546.86	1639467.18	14322157.03	39°26'24.1748"N	81°00'12.1068"W	8730.16	336.029	0.53	0.11	0.52	
15268.00	90.520	340.230	6213.29	8803.56	8066.54	-3579.12	1639434.93	14322246.35	39°26'25.0578"N	81°00'12.5181"W	8824.92	336.073	0.25	-0.17	0.18	
15363.00	90.400	339.980	6212.52	8898.56	8155.87	-3611.45	1639402.61	14322335.64	39°26'25.9407"N	81°00'12.9302"W	8919.68	336.116	0.29	-0.13	-0.26	
15458.00	90.490	339.910	6211.78	8993.55	8245.10	-3644.02	1639370.05	14322424.84	39°26'26.8226"N	81°00'13.3455"W	9014.47	336.156	0.12	0.09	-0.07	
15552.00	90.430	339.880	6211.03	9087.55	8333.37	-3676.33	1639337.75	14322513.07	39°26'27.6950"N	81°00'13.7573"W	9108.27	336.195	0.07	-0.06	-0.03	
15647.00	90.710	340.430	6210.08	9182.54	8422.72	-3708.58	1639305.52	14322602.39	39°26'28.5781"N	81°00'14.1684"W	9203.04	336.236	0.65	0.29	0.58	
15742.00	90.550	340.050	6209.04	9277.54	8512.13	-3740.70	1639273.41	14322691.75	39°26'29.4617"N	81°00'14.5778"W	9297.80	336.277	0.43	-0.17	-0.40	
15837.00	90.250	340.580	6208.38	9372.53	8601.57	-3772.70	1639241.43	14322781.16	39°26'30.3457"N	81°00'14.9858"W	9392.56	336.317	0.64	-0.32	0.56	
15931.00	90.280	340.450	6207.94	9466.53	8690.19	-3804.05	1639210.09	14322869.74	39°26'31.2215"N	81°00'15.3855"W	9486.31	336.359	0.14	0.03	-0.14	
16026.00	90.490	340.220	6207.30	9561.53	8779.64	-3836.02	1639178.13	14322959.16	39°26'32.1056"N	81°00'15.7930"W	9581.09	336.398	0.33	0.22	-0.24	
16121.00	90.430	340.260	6206.54	9656.52	8869.05	-3868.14	1639146.03	14323048.53	39°26'32.9892"N	81°00'16.2024"W	9675.87	336.436	0.08	-0.06	0.04	
16215.00	90.340	340.140	6205.91	9750.52	8957.49	-3899.98	1639114.20	14323136.94	39°26'33.8633"N	81°00'16.6083"W	9769.67	336.472	0.16	-0.10	-0.13	
16310.00	90.460	340.210	6205.25	9845.52	9046.85	-3932.20	1639081.99	14323226.27	39°26'34.7466"N	81°00'17.0190"W	9864.47	336.508	0.15	0.13	0.07	
16405.00	90.430	340.530	6204.51	9940.51	9136.33	-3964.11	1639050.09	14323315.71	39°26'35.6309"N	81°00'17.4259"W	9959.25	336.545	0.34	-0.03	0.34	



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

WELLPATH DATA (222 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
16500.00	90.860	339.860	6203.44	10035.51	9225.71	-3996.30	1639017.92	14323405.05	39°26'36.5142"N	81°00'17.8362"W	10054.05	336.579	0.84	0.45	-0.71	
16594.00	90.400	339.850	6202.41	10129.50	9313.95	-4028.67	1638985.56	14323493.25	39°26'37.3863"N	81°00'18.2489"W	10147.90	336.610	0.49	-0.49	-0.01	
16689.00	90.150	339.700	6201.95	10224.50	9403.09	-4061.51	1638952.73	14323582.36	39°26'38.2673"N	81°00'18.6676"W	10242.75	336.639	0.31	-0.26	-0.16	
16783.00	90.460	339.680	6201.45	10318.49	9491.24	-4094.14	1638920.12	14323670.48	39°26'39.1386"N	81°00'19.0835"W	10336.62	336.667	0.33	0.33	-0.02	
16878.00	90.150	340.300	6200.94	10413.49	9580.51	-4126.64	1638887.63	14323759.71	39°26'40.0208"N	81°00'19.4979"W	10431.46	336.697	0.73	-0.33	0.65	
16973.00	90.830	340.730	6200.13	10508.49	9670.06	-4158.33	1638855.95	14323849.23	39°26'40.9059"N	81°00'19.9019"W	10526.25	336.731	0.85	0.72	0.45	
17068.00	90.400	339.680	6199.11	10603.48	9759.44	-4190.50	1638823.79	14323938.57	39°26'41.7893"N	81°00'20.3120"W	10621.07	336.762	1.19	-0.45	-1.11	
17162.00	90.650	340.530	6198.25	10697.47	9847.83	-4222.49	1638791.82	14324026.92	39°26'42.6628"N	81°00'20.7198"W	10714.90	336.792	0.94	0.27	0.90	
17257.00	90.920	341.440	6196.95	10792.45	9937.64	-4253.44	1638760.88	14324116.69	39°26'43.5504"N	81°00'21.1144"W	10809.64	336.828	1.00	0.28	0.96	
17352.00	90.680	340.820	6195.62	10887.42	10027.52	-4284.16	1638730.17	14324206.54	39°26'44.4387"N	81°00'21.5061"W	10904.36	336.866	0.70	-0.25	-0.65	
17447.00	90.120	340.940	6194.96	10982.41	10117.28	-4315.27	1638699.07	14324296.26	39°26'45.3258"N	81°00'21.9028"W	10999.13	336.901	0.60	-0.59	0.13	
17541.00	90.030	340.130	6194.84	11076.41	10205.90	-4346.60	1638667.76	14324384.85	39°26'46.2017"N	81°00'22.3021"W	11092.94	336.931	0.87	-0.10	-0.86	
17636.00	90.000	340.450	6194.81	11171.41	10295.34	-4378.64	1638635.73	14324474.25	39°26'47.0856"N	81°00'22.7106"W	11187.78	336.960	0.34	-0.03	0.34	
17731.00	90.150	340.300	6194.69	11266.41	10384.82	-4410.54	1638603.84	14324563.69	39°26'47.9700"N	81°00'23.1174"W	11282.61	336.989	0.22	0.16	-0.16	
17825.00	90.120	339.930	6194.47	11360.41	10473.21	-4442.52	1638571.88	14324652.05	39°26'48.8436"N	81°00'23.5251"W	11376.47	337.014	0.39	-0.03	-0.39	
17920.00	90.220	340.000	6194.18	11455.40	10562.46	-4475.06	1638539.35	14324741.27	39°26'49.7257"N	81°00'23.9400"W	11471.35	337.039	0.13	0.11	0.07	
18015.00	90.030	340.120	6193.98	11550.40	10651.77	-4507.46	1638506.96	14324830.54	39°26'50.6083"N	81°00'24.3531"W	11566.22	337.064	0.24	-0.20	0.13	
18109.00	90.150	340.360	6193.83	11644.40	10740.23	-4539.24	1638475.19	14324918.97	39°26'51.4826"N	81°00'24.7583"W	11660.07	337.089	0.29	0.13	0.26	
18204.00	90.000	340.330	6193.70	11739.40	10829.70	-4571.19	1638443.25	14325008.40	39°26'52.3668"N	81°00'25.1657"W	11754.92	337.115	0.16	-0.16	-0.03	
18299.00	89.880	340.200	6193.80	11834.40	10919.12	-4603.27	1638411.19	14325097.78	39°26'53.2506"N	81°00'25.5747"W	11849.78	337.141	0.19	-0.13	-0.14	
18394.00	89.780	340.360	6194.09	11929.40	11008.55	-4635.33	1638379.15	14325187.17	39°26'54.1344"N	81°00'25.9834"W	11944.64	337.166	0.20	-0.11	0.17	
18488.00	90.400	338.590	6193.94	12023.39	11096.58	-4668.28	1638346.20	14325275.16	39°26'55.0044"N	81°00'26.4036"W	12038.56	337.184	2.00	0.66	-1.88	
18583.00	90.490	339.340	6193.20	12118.37	11185.24	-4702.38	1638312.12	14325363.80	39°26'55.8807"N	81°00'26.8383"W	12133.51	337.198	0.80	0.09	0.79	
18678.00	90.520	339.300	6192.36	12213.36	11274.12	-4735.93	1638278.58	14325452.63	39°26'56.7591"N	81°00'27.2661"W	12228.44	337.214	0.05	0.03	-0.04	
18772.00	90.340	339.230	6191.66	12307.35	11362.03	-4769.21	1638245.32	14325540.51	39°26'57.6279"N	81°00'27.6904"W	12322.38	337.230	0.21	-0.19	-0.07	
18867.00	90.740	339.070	6190.76	12402.33	11450.80	-4803.02	1638211.52	14325629.25	39°26'58.5053"N	81°00'28.1215"W	12417.32	337.244	0.45	0.42	-0.17	
18962.00	90.340	339.330	6189.87	12497.32	11539.60	-4836.75	1638177.80	14325718.02	39°26'59.3829"N	81°00'28.5516"W	12512.26	337.259	0.50	-0.42	0.27	
19057.00	91.750	338.800	6188.13	12592.28	11628.32	-4870.69	1638143.88	14325806.69	39°27'0.2597"N	81°00'28.9843"W	12607.20	337.273	1.59	1.48	-0.56	
19151.00	89.720	339.630	6186.93	12686.26	11716.19	-4904.04	1638110.54	14325894.53	39°27'1.1281"N	81°00'29.4096"W	12701.13	337.287	2.33	-2.16	0.88	
19246.00	89.970	339.170	6187.18	12781.25	11805.11	-4937.47	1638077.13	14325983.42	39°27'2.0069"N	81°00'29.8358"W	12796.06	337.303	0.55	0.26	-0.48	



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

WELLPATH DATA (222 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]	
19341.00	90.000	338.730	6187.21	12876.23	11893.77	-4971.59	1638043.02	14326072.04	39°27'2.8832"N	81°00'30.2709"W	12891.02	337.315	0.46	0.03	-0.46	
19435.00	89.750	339.270	6187.41	12970.22	11981.53	-5005.28	1638009.35	14326159.76	39°27'3.7505"N	81°00'30.7004"W	12984.98	337.327	0.63	-0.27	0.57	
19530.00	89.510	339.350	6188.03	13065.21	12070.40	-5038.84	1637975.80	14326248.60	39°27'4.6288"N	81°00'31.1284"W	13079.92	337.342	0.27	-0.25	0.08	
19625.00	89.380	339.110	6188.95	13160.19	12159.22	-5072.53	1637942.12	14326337.38	39°27'5.5066"N	81°00'31.5579"W	13174.87	337.355	0.29	-0.14	-0.25	
19720.00	89.540	339.130	6189.84	13255.18	12247.98	-5106.39	1637908.28	14326426.10	39°27'6.3838"N	81°00'31.9897"W	13269.82	337.368	0.17	0.17	0.02	
19814.00	89.690	338.990	6190.48	13349.16	12335.77	-5139.98	1637874.70	14326513.86	39°27'7.2515"N	81°00'32.4180"W	13363.78	337.380	0.22	0.16	-0.15	
19909.00	89.510	339.060	6191.14	13444.14	12424.47	-5173.98	1637840.71	14326602.53	39°27'8.1281"N	81°00'32.8516"W	13458.74	337.391	0.20	-0.19	0.07	
20004.00	89.660	339.490	6191.83	13539.13	12513.32	-5207.60	1637807.10	14326691.34	39°27'9.0062"N	81°00'33.2803"W	13553.68	337.405	0.48	0.16	0.45	
20098.00	89.420	339.120	6192.58	13633.12	12601.25	-5240.82	1637773.90	14326779.24	39°27'9.8753"N	81°00'33.7039"W	13647.63	337.418	0.47	-0.26	-0.39	
20193.00	89.660	339.480	6193.34	13728.11	12690.12	-5274.40	1637740.33	14326868.06	39°27'10.7535"N	81°00'34.1321"W	13742.57	337.431	0.46	0.25	0.38	
20287.00	89.450	339.380	6194.07	13822.10	12778.12	-5307.43	1637707.32	14326956.03	39°27'11.6233"N	81°00'34.5532"W	13836.51	337.444	0.25	-0.22	-0.11	
20338.00‡	89.450	339.380	6194.56	13873.09	12825.85	-5325.38	1637689.37	14327003.74	39°27'12.0950"N	81°00'34.7822"W	13887.48	337.451	0.00	0.00	0.00	Projected MD at TD: 20338'

HOLE & CASING SECTIONS - Ref Wellbore: Mills Unit 2H ST01 AWB Ref Wellpath: Mills Unit 2H ST01 AWP Proj: 20338'									
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.18	0.06
17.5in Open Hole	110.00	671.00	561.00	110.00	671.00	0.18	0.06	-0.68	-0.33
13.375in Casing Surface	30.00	650.00	620.00	30.00	650.00	0.00	0.00	-0.63	-0.32
12.25in Open Hole	671.00	2608.00	1937.00	671.00	2607.84	-0.68	-0.33	-19.38	9.08
9.625in Casing Intermediate	30.00	2588.00	2558.00	30.00	2587.85	0.00	0.00	-19.09	8.93
8.75in Open Hole	2608.00	4458.00	1850.00	2607.84	4369.78	-19.38	9.08	-431.09	-250.41
8.5in Open Hole	4458.00	20338.00	15880.00	4369.78	6194.56	-431.09	-250.41	12825.85	-5325.38
5.5in Casing Production	30.00	20338.00	20308.00	30.00	6194.56	0.00	0.00	12825.85	-5325.38



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mills Unit 2H POE Rev-2	6210.00	-154.41	-611.81	1642401.05	14314028.70	39°25'3.8056"N	80°59'34.7053"W	point
Mills Unit 2H BHL Rev-2	6256.00	12833.59	-5324.66	1637690.09	14327011.48	39°27'12.1715"N	81°00'34.7730"W	point
Mills Unit 2H LP Rev-2	6256.00	82.98	-697.95	1642314.95	14314265.99	39°25'6.1519"N	80°59'35.8027"W	point
Mills Unit 2H 50' L/R Hard Line	6500.00	6339.59	-2968.23	1640045.57	14320520.09	39°26'7.9897"N	81°00'4.7315"W	rectangle
2D Rectangle 13816.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Mills Unit 2H ST01 AWB Ref Wellpath: Mills Unit 2H ST01 AWP Proj: 20338'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	571.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-571')	Mills Unit 2H AWB	12/Mar/2021
571.00	2530.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (571')(689'-2530')	Mills Unit 2H AWB	12/Mar/2021
2530.00	4458.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2530')(2657'-6477')	Mills Unit 2H AWB	12/Mar/2021
4458.00	20338.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (4458')(4569'-20287')	Mills Unit 2H ST01 AWB	11/Apr/2021



Actual Wellpath Report

Mills Unit 2H ST01 AWP Proj: 20338'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mills Unit 2H ST01
Field	Tyler	API	47-095-02712-0000
Facility	Gorrell Pad	Wellbore	Mills Unit 2H ST01 AWB
Slot	Slot #10	Sidetrack from	Mills Unit 2H AWP Proj: 6540' at 4458.00 MD

COMMENTS

Wellpath general comments

API: 47-095-02712-0000

BH Job #: 110790222

Rig: H&P 519

Duration: 4/13/2021-4/18/2021

Gyrodata MS Gyro <17-1/2"> (100'-571')

APS EM <12-1/4"> (571')(689'-2530')

APS EM <8-3/4"> (2530')(2657'-4458')

BH AT Curve <8-1/2"> (4458')(4569'-20287')

Sycamore: 6175' MD

Middlesex: 6317' MD

Burkett: 6476' MD

Tully: 6525' MD

Marcellus POE: 6536' MD

Projected MD at TD: 20338'