



ANTERO RESOURCES CORPORATION



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

Slot: Slot #06
Well: Wick Unit 1H
Wellbore: Wick Unit 1H PWB

Plot reference wellpath is Wick Unit 1H PWP Rev-B.0	
True vertical depths are referenced to H&P 510 (RKB)	
Measured depths are referenced to H&P 510 (RKB)	
H&P 510 (RKB) to Mean Sea Level: 1075 feet	
Mean Sea Level to Ground level (At Slot Slot #06) : -1045 feet	
Coordinates are in feet referenced to Slot	
Grid System: NAD27 / UTM Zone 17 North, US feet	
North Reference: Grid north	
Scale: True distance	
Depths are in feet	
Created by: deliaset on 2019-07-03	
Database: WA_MPL_EasternUS_Defn	

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Gorrell Pad	1643134.326	14314301.475	39°25'06.602"N	80°59'25.356"W
Slot	Local N (ft)	Local E (ft)	Latitude	Longitude
Slot #06	-0.20	-0.16	39°25'06.600"N	80°59'25.360"W
H&P 510 (RKB) to Ground level (At Slot Slot #06)	30ft			
Mean Sea Level to Ground level (At Slot Slot #06)	-1045ft			
H&P 510 (RKB) to Mean Sea Level	1075ft			

Well Data

Slot	Well	Wellbore	Wellpath
Slot #06	Wick Unit 1H	Wick Unit 1H AWB	Wick Unit 1H PWB Proj: 17062
Slot #06	Wick Unit 1H	Wick Unit 1H PWB	Wick Unit 1H PWP Rev-B.0



API: 47-095-02593-0000

BHI Job #: 10980899A

Rig: H&P 519

Duration: 04/30/2019-07/01/2019



Well Profile Data

Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (1/100ft)	VS (ft)
Top Of	2562.00	14.700	267.320	2569.16	-4.26	-409.41	2.36	-134.35
Prof. To Bottom	2636.00	14.700	267.320	2582.66	-5.16	-428.79	0.00	-146.04
Drill Out Ceiling	2736.00	14.700	267.320	2679.35	-6.35	-454.29	0.00	-147.54
End of Build	2829.58	16.618	267.743	2787.51	-7.41	-478.06	2.00	-154.90
Curve KOP	5856.97	16.618	267.743	5476.81	-9.28	-1267.03	0.00	-397.98
POE	6612.38	70.761	160.249	6203.00	-546.71	-1268.26	8.00	65.98
Landing PL	6652.88	90.000	160.249	6243.00	-768.83	-1169.51	8.00	321.99
BHL	17167.50	90.000	160.249	6243.00	-10487.21	2293.81	0.00	10926.81

BH AT Curve <8-1/2>(4908)(4986-17037) : 15.55° Inc, 4986.00ft MD, 4833.38ft TVD, -334.47ft VS

Marcellus POE: 6615.00ft MD, 6206.02ft TVD, 86.53ft VS

Projected MD at TD: 17062 : 89.02° Inc, 17062.00ft MD, 6309.98ft TVD, 10517.70ft VS

Vertical Section (ft)

Azimuth 160.25° with reference 0.00 N, 0.00 E

Scale 1 inch = 1600



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot #06	Slot #06
Area	Tyler County, WV	Well	Wick Unit 1H
Field	Tyler	Wellbore	Wick Unit 1H AWB
Facility	Gorrell Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 5.1
North Reference	Grid	User	Delaset
Scale	0.999600	Report Generated	7/3/2019 at 9:25:21 PM
Convergence at slot	0.01° East	Database/Source file	WA_MPL_EasternUS_DefnWick_Unit_1H_AWP_Proj_17062_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	-0.20	-0.16	14314301.27	39°25'06.500"N	80°59'25.360"W	
Facility Reference Pt			1643134.33	39°25'06.502"N	80°59'25.358"W	
Field Reference Pt			0.00	0°00'00.000"	85°29'19.301"W	

WELLPATH DATUM		
Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #06)
MD Reference Pt	H&P 519 (RKB)	Section Origin
Field Vertical Reference	Mean Sea Level	Section Azimuth
		30.00ft
		1075.00ft
		30.00ft
		N 0.00, E 0.00 ft
		160.25°



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Wick Unit 1H
Area	Tyler County, WV	Wellbore	Wick Unit 1H AWB
Field	Tyler		
Facility	Gorrell Pad		

WELLPATH DATA (200 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (IUS ft)	Grid North (IUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
0.00	0.00	102.610	0.00	0.00	0.00	0.00	1643134.17	14314301.27	39°25'06.500"N	80°59'25.360"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	102.610	30.00	0.00	0.00	0.00	1643134.17	14314301.27	39°25'06.500"N	80°59'25.360"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.020	102.610	100.00	0.01	0.00	0.01	1643134.18	14314301.27	39°25'06.500"N	80°59'25.360"W	0.01	102.610	0.03	0.03	0.03	146.53 Gyrodata MS Gyro <17-1/2"> (100'-609')
150.00	0.100	117.340	150.00	0.04	-0.02	0.06	1643134.23	14314301.25	39°25'06.500"N	80°59'25.359"W	0.06	112.575	0.16	0.16	0.16	29.46
200.00	0.060	99.570	200.00	0.09	-0.05	0.12	1643134.29	14314301.22	39°25'06.500"N	80°59'25.358"W	0.13	111.599	0.09	0.09	-0.08	-35.54
250.00	0.350	220.700	250.00	0.18	-0.17	0.05	1643134.22	14314301.10	39°25'06.498"N	80°59'25.359"W	0.18	163.530	0.77	0.58	0.58	242.25
300.00	0.560	225.130	300.00	0.36	-0.46	-0.22	1643133.95	14314300.82	39°25'06.495"N	80°59'25.363"W	0.51	205.971	0.43	0.42	0.42	8.86
350.00	0.530	218.780	350.00	0.58	-0.81	-0.54	1643133.63	14314300.46	39°25'06.492"N	80°59'25.367"W	0.97	213.729	0.13	-0.06	-0.06	-12.70
400.00	0.640	224.800	399.99	0.82	-1.19	-0.88	1643133.29	14314300.09	39°25'06.488"N	80°59'25.371"W	1.48	216.594	0.25	0.22	0.22	12.04
450.00	0.590	222.840	449.99	1.06	-1.58	-1.25	1643132.92	14314299.70	39°25'06.484"N	80°59'25.376"W	2.01	218.525	0.11	-0.10	-0.10	-3.92
500.00	0.610	230.240	499.99	1.27	-1.93	-1.63	1643132.54	14314299.34	39°25'06.481"N	80°59'25.381"W	2.53	220.187	0.16	0.04	0.04	14.80
550.00	0.610	238.790	549.98	1.41	-2.24	-2.07	1643131.61	14314298.72	39°25'06.475"N	80°59'25.386"W	3.05	222.656	0.18	0.00	0.00	17.10
600.00	0.740	237.070	599.98	1.54	-2.56	-2.56	1643131.61	14314298.72	39°25'06.475"N	80°59'25.393"W	3.62	225.099	0.26	0.26	0.26	-3.44
609.00	0.780	234.890	608.98	1.57	-2.62	-2.66	1643131.51	14314298.65	39°25'06.474"N	80°59'25.394"W	3.74	225.443	0.55	0.44	0.44	-24.22
660.00	0.940	228.020	659.97	1.82	-3.10	-3.26	1643130.91	14314298.17	39°25'06.469"N	80°59'25.402"W	4.50	226.409	0.37	0.31	0.31	-13.47 APS EM <12-1/4"> (609')(660'-2582')
690.00	0.840	246.840	689.97	1.92	-3.35	-3.64	1643130.53	14314297.92	39°25'06.467"N	80°59'25.406"W	4.95	227.377	1.02	-0.33	-0.33	62.73
781.00	1.970	263.080	780.94	1.62	-3.81	-5.81	1643128.36	14314297.47	39°25'06.462"N	80°59'25.434"W	6.94	236.774	1.30	1.24	1.24	17.73
873.00	3.540	270.980	872.83	0.26	-3.95	-10.22	1643123.95	14314297.33	39°25'06.461"N	80°59'25.490"W	10.96	248.874	1.75	1.71	1.71	8.64
964.00	5.720	276.080	963.53	-2.71	-3.42	-17.54	1643116.64	14314297.85	39°25'06.466"N	80°59'25.583"W	17.87	258.965	2.44	2.40	2.40	5.60
1056.00	7.620	279.740	1054.91	-7.71	-1.90	-28.11	1643106.07	14314299.37	39°25'06.481"N	80°59'25.718"W	28.17	266.128	2.12	2.07	2.07	3.95
1147.00	8.720	279.570	1144.98	-14.05	0.26	-40.86	1643099.32	14314301.53	39°25'06.503"N	80°59'25.881"W	40.86	270.362	1.21	1.21	1.21	-0.25
1238.00	9.850	277.470	1234.79	-20.98	2.41	-55.38	1643078.81	14314303.68	39°25'06.524"N	80°59'26.066"W	55.43	272.491	1.29	1.24	1.24	-2.2
1332.00	11.510	274.870	1327.16	-28.57	4.25	-72.70	1643061.50	14314305.52	39°25'06.542"N	80°59'26.286"W	72.82	273.347	1.84	1.77	1.77	-2.77
1427.00	13.370	269.610	1419.92	-36.16	4.98	-83.13	1643041.08	14314306.25	39°25'06.549"N	80°59'26.547"W	93.26	273.062	2.29	1.96	1.96	-5.54
1521.00	14.980	265.850	1511.06	-43.03	4.03	-116.12	1643018.10	14314305.30	39°25'06.540"N	80°59'26.840"W	116.19	271.987	1.97	1.71	1.71	-4.00
1616.00	16.070	263.280	1602.59	-49.30	1.60	-141.42	1642992.80	14314302.87	39°25'06.516"N	80°59'27.162"W	141.43	270.648	1.36	1.15	1.15	-2.71
1710.00	15.510	266.920	1693.05	-55.83	-0.60	-166.89	1642967.34	14314300.68	39°25'06.494"N	80°59'27.487"W	166.89	269.795	1.21	-0.60	-0.60	3.87
1805.00	14.000	263.820	1784.92	-62.17	-2.52	-191.00	1642943.24	14314298.76	39°25'06.475"N	80°59'27.794"W	191.02	269.245	1.79	-1.59	-1.59	-3.25
1899.00	15.450	266.410	1875.83	-68.33	-4.52	-214.80	1642919.45	14314296.75	39°25'06.455"N	80°59'28.097"W	214.85	268.793	1.69	1.54	1.54	2.76
1994.00	18.850	274.290	1966.60	-78.11	-4.17	-242.75	1642891.52	14314297.11	39°25'06.459"N	80°59'28.453"W	242.79	269.016	4.33	3.58	3.58	8.25



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Wick Unit 1H
Field	Tyler	Wellbore	Wick Unit 1H AWB
Facility	Correll Pad		

WELLPATH DATA (200 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 (°/100ft)	Comments
2093.00	19.980	272.181	2056.20	-90.42	-2.40	-274.27	1642860.01	14314298.87	39°25'06.477"N	80°59'28.855"W	274.28	269.498	1.40	1.19	-2.22	
2183.00	19.490	267.770	2144.68	-101.14	-2.40	-305.99	1642828.30	14314298.87	39°25'06.477"N	80°59'29.259"W	306.00	269.550	1.67	-0.52	-4.69	
2278.00	15.650	265.830	2235.23	-109.35	-3.95	-334.62	1642799.68	14314297.32	39°25'06.461"N	80°59'29.624"W	334.64	269.323	4.09	-4.04	-2.04	
2372.00	14.220	269.390	2326.06	-116.55	-5.00	-358.81	1642775.50	14314296.28	39°25'06.451"N	80°59'29.332"W	358.85	269.202	1.81	-1.52	3.79	
2467.00	16.420	273.070	2417.68	-125.58	-4.40	-383.89	1642750.43	14314296.87	39°25'06.457"N	80°59'30.261"W	383.92	269.343	2.53	2.32	3.87	
2562.00	14.790	267.320	2509.18	-134.35	-4.25	-409.41	1642724.92	14314297.03	39°25'06.458"N	80°59'30.577"W	409.44	269.405	2.36	-1.72	-6.05	
2645.00	13.510	259.650	2589.67	-139.04	-6.49	-429.54	1642704.81	14314294.79	39°25'06.436"N	80°59'30.833"W	429.58	269.135	2.73	-1.54	-9.24	APS EM <-3/4">(2645'-4908')
2741.00	16.550	254.120	2682.38	-141.80	-12.24	-453.72	1642680.63	14314289.03	39°25'06.379"N	80°59'31.141"W	453.89	268.454	3.50	3.17	-5.76	
2835.00	21.550	257.280	2771.20	-144.82	-19.71	-483.46	1642650.90	14314281.57	39°25'06.306"N	80°59'31.520"W	483.86	267.665	5.43	5.32	3.36	
2929.00	22.170	259.090	2858.45	-149.65	-26.87	-517.72	1642616.66	14314274.41	39°25'06.235"N	80°59'31.957"W	518.41	267.029	0.97	0.66	1.93	
3026.00	17.690	258.410	2949.61	-154.56	-33.30	-550.14	1642584.25	14314267.99	39°25'06.171"N	80°59'32.370"W	551.15	266.536	4.62	-4.62	-0.70	
3121.00	15.870	264.320	3040.57	-159.77	-37.49	-577.21	1642557.19	14314263.80	39°25'06.130"N	80°59'32.715"W	578.43	266.284	2.62	-1.92	6.22	
3214.00	15.290	269.660	3130.16	-166.93	-38.82	-602.13	1642532.28	14314262.47	39°25'06.117"N	80°59'33.032"W	603.38	266.311	1.66	-0.62	5.74	
3309.00	15.790	276.890	3221.69	-176.89	-37.34	-627.49	1642506.93	14314263.95	39°25'06.132"N	80°59'33.355"W	628.60	266.594	2.10	0.53	7.61	
3403.00	14.950	274.060	3312.33	-187.52	-34.95	-652.28	1642482.15	14314266.34	39°25'06.155"N	80°59'33.671"W	653.22	266.933	1.20	-0.89	-3.01	
3498.00	16.500	271.310	3403.77	-197.32	-33.77	-677.99	1642456.45	14314267.51	39°25'06.167"N	80°59'33.999"W	678.83	267.148	1.81	1.63	-2.89	
3592.00	15.840	267.570	3494.06	-205.94	-34.01	-704.16	1642430.30	14314267.28	39°25'06.164"N	80°59'34.332"W	704.98	267.235	1.31	-0.70	-3.98	
3686.00	16.390	275.750	3584.38	-215.47	-33.23	-730.17	1642404.29	14314268.06	39°25'06.172"N	80°59'34.664"W	730.93	267.395	2.48	0.59	8.70	
3780.00	15.500	271.690	3674.76	-225.77	-31.53	-755.92	1642378.55	14314269.76	39°25'06.189"N	80°59'34.992"W	756.58	267.612	1.52	-0.95	-4.32	
3871.00	14.010	265.520	3762.76	-233.11	-32.03	-779.06	1642355.42	14314269.26	39°25'06.184"N	80°59'35.287"W	779.72	267.846	2.38	-1.64	-6.78	
3965.00	14.940	274.050	3853.79	-241.00	-32.06	-802.50	1642332.00	14314269.22	39°25'06.184"N	80°59'35.585"W	803.14	267.712	2.47	0.99	9.07	
4060.00	18.010	276.080	3944.88	-252.34	-29.64	-829.32	1642305.18	14314271.64	39°25'06.208"N	80°59'35.927"W	829.85	267.953	3.29	3.23	2.14	
4154.00	16.890	270.610	4034.56	-263.43	-27.96	-857.43	1642277.09	14314273.33	39°25'06.224"N	80°59'36.285"W	857.88	268.133	2.11	-1.19	-5.82	
4248.00	15.280	265.600	4124.88	-271.46	-28.76	-883.44	1642251.09	14314272.52	39°25'06.217"N	80°59'36.617"W	883.90	268.135	2.26	-1.71	-5.33	
4342.00	13.640	259.780	4215.90	-276.57	-31.68	-906.70	1642227.84	14314269.61	39°25'06.188"N	80°59'36.913"W	907.25	267.999	2.33	-1.74	-6.19	
4437.00	14.740	268.280	4308.01	-282.17	-34.03	-929.80	1642204.74	14314267.26	39°25'06.164"N	80°59'37.207"W	930.42	267.904	2.48	1.16	8.95	
4532.00	17.140	267.130	4399.35	-289.98	-35.09	-955.87	1642178.69	14314266.19	39°25'06.154"N	80°59'37.540"W	956.51	267.897	2.55	2.53	-1.21	
4626.00	17.270	268.930	4489.15	-298.47	-36.05	-983.65	1642150.91	14314265.24	39°25'06.145"N	80°59'37.894"W	984.31	267.901	0.58	0.14	1.91	
4720.00	17.690	270.050	4578.81	-307.77	-36.30	-1011.88	1642122.69	14314264.99	39°25'06.142"N	80°59'38.253"W	1012.54	267.946	0.57	0.45	1.19	
4814.00	17.840	272.640	4668.33	-318.10	-35.62	-1040.55	1642094.04	14314265.67	39°25'06.149"N	80°59'38.619"W	1041.16	268.039	0.86	0.16	2.78	



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
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Field	Tyler	Wellbore	Wick Unit 1H AWB
Facility	Gorrell Pad		

WELLPATH DATA (200 stations) † = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dir (ft)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
4908.00	15.860	268.130	4758.29	-327.74	-35.15	-1067.78	1642066.82	14314266.14	39°25'06.153"N	80°59'38.966"W	1068.36	268.115	2.37	-2.11	-3.73
4986.00	15.550	268.550	4833.38	-334.47	-35.58	-1088.89	1642045.72	14314265.71	39°25'06.149"N	80°59'39.235"W	1089.47	268.129	0.45	-0.40	-0.74 BH AT Curve <-8-1/2"> (4908\4986\17037)
5032.00	15.470	269.010	4877.70	-338.38	-35.84	-1101.19	1642033.42	14314265.45	39°25'06.147"N	80°59'39.391"W	1101.77	268.136	0.32	-0.17	1.00
5127.00	16.930	270.340	4968.93	-347.20	-35.98	-1127.69	1642006.93	14314265.31	39°25'06.145"N	80°59'39.729"W	1128.26	268.173	1.59	1.54	1.40
5221.00	17.080	266.990	5058.82	-355.66	-36.64	-1155.16	1641979.47	14314264.64	39°25'06.139"N	80°59'40.079"W	1155.74	268.183	1.09	0.16	-3.67
5315.00	17.290	265.510	5148.62	-363.49	-38.49	-1182.87	1641951.77	14314262.80	39°25'06.121"N	80°59'40.432"W	1183.50	268.136	0.49	0.22	-1.47
5408.00	17.170	263.320	5237.45	-370.23	-41.17	-1210.28	1641924.37	14314260.12	39°25'06.094"N	80°59'40.781"W	1210.98	268.052	0.71	-0.13	-2.35
5502.00	16.940	258.760	5327.32	-375.40	-45.45	-1237.50	1641897.17	14314255.84	39°25'06.052"N	80°59'41.128"W	1238.33	267.897	1.44	-0.24	-4.85
5595.00	16.560	253.840	5416.38	-378.23	-51.78	-1263.52	1641871.16	14314249.52	39°25'05.989"N	80°59'41.460"W	1264.58	267.653	1.58	-0.41	-5.29
5688.00	15.680	252.930	5505.72	-379.65	-59.16	-1288.26	1641846.43	14314242.14	39°25'05.916"N	80°59'41.775"W	1289.62	267.371	0.98	-0.95	-0.98
5782.00	14.480	238.190	5596.53	-377.39	-69.43	-1310.18	1641824.52	14314231.87	39°25'05.815"N	80°59'42.054"W	1312.02	266.967	4.79	-1.28	-17.81
5876.00	16.410	214.390	5687.20	-366.74	-86.94	-1327.46	1641807.24	14314214.37	39°25'05.642"N	80°59'42.274"W	1330.30	266.253	6.46	2.05	-23.19
5969.00	21.260	201.470	5775.24	-346.34	-113.50	-1341.06	1641793.64	14314187.82	39°25'05.379"N	80°59'42.448"W	1345.86	265.162	6.85	5.22	-13.89
6063.00	27.030	191.190	5861.01	-315.16	-150.36	-1351.46	1641783.25	14314150.97	39°25'05.015"N	80°59'42.590"W	1359.90	263.651	7.57	6.14	-10.94
6157.00	34.010	181.070	5941.99	-272.19	-197.69	-1356.10	1641778.61	14314103.66	39°25'04.547"N	80°59'42.639"W	1370.44	261.706	9.20	7.43	-10.77
6251.00	42.230	174.060	6015.92	-216.82	-255.52	-1353.32	1641781.39	14314045.86	39°25'03.976"N	80°59'42.604"W	1377.23	259.308	9.87	8.74	-7.46
6345.00	50.760	169.220	6080.59	-150.04	-322.84	-1343.22	1641791.49	14313978.56	39°25'03.310"N	80°59'42.475"W	1381.47	256.485	9.81	9.07	-5.15
6379.00†	53.980	168.090	6101.35	-123.41	-349.24	-1337.92	1641796.79	14313952.17	39°25'03.049"N	80°59'42.408"W	1382.75	255.370	9.83	9.47	-3.32 Middlesex: 6379' MD
6438.00	59.590	166.330	6133.65	-74.43	-397.35	-1326.97	1641807.73	14313904.09	39°25'02.574"N	80°59'42.268"W	1385.19	253.330	9.83	9.51	-2.98
6485.00	63.740	165.280	6155.96	-33.27	-437.44	-1316.82	1641817.87	14313864.01	39°25'02.178"N	80°59'42.139"W	1387.58	251.624	9.05	8.83	-2.23
6533.00	67.580	162.870	6175.74	10.36	-479.48	-1304.81	1641829.88	14313821.98	39°25'01.762"N	80°59'41.986"W	1390.12	249.823	9.21	8.00	-5.02
6550.00†	67.925	162.271	6182.18	26.08	-494.49	-1300.10	1641834.59	14313806.98	39°25'01.614"N	80°59'41.926"W	1390.97	249.176	3.84	2.03	-3.53 Burkett: 6550' MD
6580.00	68.540	161.220	6193.30	53.93	-520.95	-1291.37	1641843.31	14313780.53	39°25'01.352"N	80°59'41.815"W	1392.49	248.030	3.84	2.05	-3.50
6598.00†	68.692	161.059	6199.86	70.69	-536.81	-1285.96	1641848.73	14313764.68	39°25'01.195"N	80°59'41.746"W	1393.50	247.342	1.19	0.85	-0.89 Tully: 6598' MD
6615.00†	68.837	160.908	6206.02	86.53	-551.79	-1280.79	1641853.89	14313749.70	39°25'01.047"N	80°59'41.680"W	1394.60	246.693	1.19	0.83	-0.89 Marcellus POE: 6615' MD
6626.00	68.930	160.810	6209.98	96.79	-561.49	-1277.43	1641857.25	14313740.01	39°25'00.952"N	80°59'41.637"W	1395.38	246.272	1.19	0.85	-0.89
6673.00	72.690	160.040	6225.43	141.17	-603.30	-1268.56	1641872.12	14313698.21	39°25'00.538"N	80°59'41.448"W	1399.29	244.460	8.15	8.00	-1.64
6721.00	77.720	158.680	6237.68	187.56	-646.71	-1246.20	1641886.47	14313654.82	39°25'00.109"N	80°59'41.239"W	1404.01	242.573	10.83	10.48	-2.83
6768.00	83.490	158.000	6245.35	233.88	-689.79	-1229.09	1641905.58	14313611.76	39°24'59.683"N	80°59'41.021"W	1409.42	240.698	12.36	12.28	-1.45
6815.00	88.550	157.990	6248.61	280.72	-733.25	-1211.52	1641923.13	14313568.32	39°24'59.254"N	80°59'40.798"W	1416.14	238.817	10.77	10.77	-0.02



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #06
ANTERO RESOURCES CORPORATION	Wick Unit 1H
Area	Wick Unit 1H AWB
Field	Wellbore
Facility	Wick Unit 1H AWB

WELLPATH DATA (200 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
6862.00	89.601	158.090	6249.37	327.68	-776.83	-1193.95	1641940.70	14313524.76	39°24'58.823"N	80°59'40.574"W	1424.42	236.950	2.24	2.23	0.21	
6909.00	89.721	158.080	6249.65	374.64	-820.43	-1176.41	1641968.23	14313481.17	39°24'58.392"N	80°59'40.350"W	1434.24	235.108	0.26	0.26	-0.02	
7004.00	89.880	158.740	6249.98	469.59	-908.77	-1141.45	1641993.17	14313392.87	39°24'57.519"N	80°59'39.905"W	1459.03	231.475	0.71	0.11	0.69	
7098.00	89.780	160.120	6250.26	563.58	-996.77	-1108.43	1642026.19	14313304.90	39°24'56.649"N	80°59'39.484"W	1480.69	228.036	1.47	0.17	1.47	
7193.00	89.350	160.600	6250.98	658.58	-1086.24	-1076.50	1642058.10	14313215.47	39°24'55.765"N	80°59'39.077"W	1529.30	224.742	0.68	-0.45	0.51	
7287.00	89.480	161.150	6251.94	752.57	-1175.05	-1045.70	1642088.89	14313126.70	39°24'54.887"N	80°59'38.685"W	1572.97	221.667	0.60	0.14	0.59	
7381.00	89.660	160.150	6252.65	846.56	-1263.73	-1014.56	1642120.02	14313038.05	39°24'54.011"N	80°59'38.288"W	1620.60	218.758	1.08	0.19	-1.06	
7475.00	89.480	157.730	6253.36	940.53	-1351.45	-980.78	1642153.78	14312950.37	39°24'53.144"N	80°59'37.858"W	1669.83	215.969	2.58	-0.19	-2.57	
7569.00	89.320	155.440	6254.34	1034.32	-1437.70	-943.43	1642191.12	14312864.16	39°24'52.291"N	80°59'37.382"W	1719.60	213.273	2.44	-0.17	-2.44	
7663.00	89.350	155.070	6255.43	1127.96	-1523.06	-904.09	1642230.44	14312778.83	39°24'51.448"N	80°59'36.881"W	1771.18	210.693	0.39	0.03	-0.39	
7758.00	89.820	158.320	6256.12	1222.76	-1610.29	-866.51	1642268.01	14312691.63	39°24'50.585"N	80°59'36.402"W	1828.63	208.285	3.46	0.49	3.42	
7853.00	89.820	161.490	6256.42	1317.75	-1699.50	-833.88	1642300.63	14312602.46	39°24'49.704"N	80°59'35.987"W	1893.05	206.135	3.34	0.00	3.34	
7946.00	89.820	162.660	6256.71	1410.70	-1787.98	-805.25	1642329.24	14312514.01	39°24'48.829"N	80°59'35.622"W	1960.95	204.245	1.26	0.00	1.26	
8041.00	89.750	164.210	6257.01	1505.55	-1879.04	-778.17	1642356.31	14312422.99	39°24'47.929"N	80°59'35.277"W	2033.80	202.496	1.63	-0.07	1.63	
8136.00	90.030	165.530	6257.25	1600.24	-1970.74	-753.37	1642381.10	14312331.33	39°24'47.023"N	80°59'34.961"W	2109.83	200.921	1.42	0.29	1.39	
8231.00	89.880	166.120	6257.32	1694.79	-2062.85	-730.11	1642404.35	14312239.26	39°24'46.113"N	80°59'34.665"W	2188.24	199.481	0.64	-0.16	0.62	
8326.00	89.820	165.060	6257.57	1789.37	-2154.86	-706.47	1642427.98	14312147.28	39°24'45.203"N	80°59'34.364"W	2267.71	198.152	1.12	-0.06	-1.12	
8421.00	89.720	162.170	6257.95	1884.20	-2245.99	-679.67	1642454.77	14312056.19	39°24'44.302"N	80°59'34.023"W	2346.58	196.837	3.04	-0.11	-3.04	
8516.00	89.690	157.180	6258.44	1979.16	-2335.04	-646.69	1642487.74	14311967.17	39°24'43.422"N	80°59'33.602"W	2422.94	195.480	5.25	-0.03	-5.25	
8611.00	89.750	155.890	6258.91	2073.96	-2422.19	-608.86	1642525.55	14311880.06	39°24'42.561"N	80°59'33.121"W	2497.54	194.110	1.36	0.06	-1.36	
8706.00	89.780	157.300	6259.30	2168.76	-2509.37	-571.12	1642563.27	14311792.92	39°24'41.699"N	80°59'32.640"W	2573.54	192.822	1.48	0.03	1.48	
8801.00	89.660	157.990	6259.76	2263.66	-2597.22	-534.99	1642599.39	14311705.09	39°24'40.831"N	80°59'32.180"W	2651.75	191.639	0.74	-0.13	0.73	
8896.00	89.540	157.880	6260.42	2358.58	-2685.26	-499.31	1642636.06	14311617.09	39°24'39.964"N	80°59'31.725"W	2731.29	190.533	0.17	-0.13	-0.12	
8992.00	89.750	157.230	6261.02	2454.47	-2773.99	-462.65	1642671.70	14311528.40	39°24'39.084"N	80°59'31.258"W	2812.31	189.469	0.71	0.22	-0.68	
9086.00	89.660	157.280	6261.50	2548.34	-2860.68	-426.31	1642708.03	14311441.74	39°24'38.227"N	80°59'30.795"W	2892.27	188.476	0.11	-0.10	0.05	
9181.00	89.720	158.690	6262.02	2643.27	-2948.75	-390.70	1642743.62	14311353.71	39°24'37.356"N	80°59'30.342"W	2974.52	187.548	1.49	0.06	1.48	
9276.00	89.570	159.620	6262.61	2738.25	-3037.53	-356.90	1642777.41	14311264.97	39°24'36.479"N	80°59'29.911"W	3058.42	186.701	0.99	-0.16	0.98	
9371.00	89.850	159.800	6263.09	2833.24	-3126.63	-323.96	1642810.34	14311175.90	39°24'35.598"N	80°59'29.492"W	3143.37	185.915	0.35	0.29	0.19	
9466.00	89.660	160.430	6263.49	2928.24	-3215.97	-291.64	1642842.64	14311086.60	39°24'34.715"N	80°59'29.080"W	3229.16	185.182	0.69	-0.20	0.66	
9561.00	89.820	160.840	6263.92	3023.24	-3305.59	-260.14	1642874.13	14310997.01	39°24'33.829"N	80°59'28.679"W	3315.81	184.500	0.46	0.17	0.43	



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Wick Unit 1H
Area	Tyler County, WV	Wellbore	Wick Unit 1H AWB
Field	Tyler		
Facility	Gorrell Pad		

WELLPATH DATA (200 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
9657.00	89.910	163.270	6264.15	3119.18	-3396.91	-230.57	1642903.69	14310905.73	39°24'32.927"N	80°59'28.302"W	3404.73	183.883	2.53	0.08	2.53	
9752.00	89.540	164.150	6264.61	3214.00	-3488.10	-203.92	1642930.33	14310814.58	39°24'32.026"N	80°59'27.963"W	3494.05	183.346	1.00	-0.39	0.93	
9846.00	89.540	162.890	6265.36	3307.85	-3578.23	-177.26	1642956.98	14310724.48	39°24'31.135"N	80°59'27.623"W	3582.62	182.836	1.34	0.00	-1.34	
9941.00	89.540	161.160	6266.12	3402.79	-3668.59	-147.94	1642986.29	14310634.16	39°24'30.242"N	80°59'27.250"W	3671.57	182.309	1.82	0.00	-1.82	
10037.00	89.510	158.420	6266.92	3498.78	-3758.67	-114.78	1643019.43	14310544.12	39°24'29.351"N	80°59'26.827"W	3760.42	181.749	2.85	-0.03	-2.85	
10132.00	89.630	155.930	6267.63	3593.63	-3846.22	-77.93	1643056.27	14310456.60	39°24'28.486"N	80°59'26.358"W	3847.01	181.161	2.62	0.13	-2.62	
10227.00	89.420	157.630	6268.42	3688.45	-3933.52	-40.48	1643093.70	14310369.34	39°24'27.623"N	80°59'25.881"W	3933.72	180.590	1.80	-0.22	1.79	
10322.00	89.600	161.360	6269.23	3783.42	-4022.48	-7.21	1643126.96	14310280.41	39°24'26.744"N	80°59'25.457"W	4022.48	180.103	3.93	0.19	3.93	
10417.00	89.750	163.040	6269.77	3878.36	-4112.92	21.83	1643155.99	14310190.00	39°24'25.850"N	80°59'25.087"W	4112.98	179.686	1.78	0.16	1.77	
10513.00	89.780	161.170	6270.17	3974.31	-4204.28	51.33	1643185.47	14310098.69	39°24'24.947"N	80°59'24.712"W	4204.59	179.301	1.95	0.03	-1.95	
10608.00	89.660	159.930	6270.63	4069.30	-4293.85	82.96	1643217.09	14310009.15	39°24'24.062"N	80°59'24.309"W	4294.65	178.893	1.31	-0.13	-1.31	
10702.00	89.750	159.350	6271.11	4163.30	-4381.98	115.66	1643249.78	14309921.06	39°24'23.191"N	80°59'23.892"W	4383.50	178.488	0.62	0.10	-0.62	
10797.00	89.880	157.980	6271.42	4258.26	-4470.46	150.22	1643284.33	14309832.61	39°24'22.316"N	80°59'23.452"W	4472.99	178.075	1.45	0.14	-1.44	
10892.00	89.910	156.870	6271.59	4353.14	-4558.18	186.69	1643320.79	14309744.92	39°24'21.449"N	80°59'22.988"W	4562.01	177.655	1.17	0.03	-1.17	
10987.00	89.820	154.820	6271.82	4447.85	-4644.86	225.57	1643359.64	14309658.28	39°24'20.592"N	80°59'22.493"W	4650.33	177.220	2.16	-0.03	-2.16	
11081.00	90.460	155.330	6271.59	4541.47	-4730.10	265.18	1643399.24	14309573.07	39°24'19.750"N	80°59'21.988"W	4737.53	176.791	0.87	0.68	0.54	
11176.00	89.290	154.470	6271.80	4636.05	-4816.13	305.48	1643439.52	14309487.08	39°24'18.899"N	80°59'21.475"W	4825.81	176.371	1.53	-1.23	-0.91	
11271.00	88.770	157.360	6273.40	4730.76	-4902.84	344.24	1643478.27	14309400.41	39°24'18.042"N	80°59'20.981"W	4914.91	175.984	3.09	-0.55	3.04	
11366.00	89.750	164.570	6274.62	4824.68	-4991.63	374.87	1643508.89	14309311.65	39°24'17.165"N	80°59'20.591"W	5005.69	175.705	7.74	1.04	7.67	
11459.00	90.340	165.070	6274.55	4918.38	-5082.35	399.48	1643533.49	14309220.97	39°24'16.268"N	80°59'20.276"W	5098.03	175.506	0.82	0.63	0.53	
11554.00	89.850	163.080	6274.39	5013.16	-5173.70	425.55	1643559.55	14309129.65	39°24'15.365"N	80°59'19.946"W	5191.17	175.298	2.16	-0.52	-2.09	
11649.00	89.970	161.830	6274.54	5108.09	-5264.28	454.19	1643588.17	14309039.11	39°24'14.470"N	80°59'19.581"W	5283.84	175.069	1.32	0.13	-1.32	
11744.00	89.540	162.130	6274.94	5203.05	-5354.62	483.57	1643617.55	14308948.81	39°24'13.577"N	80°59'19.207"W	5376.41	174.840	0.55	-0.45	0.32	
11839.00	89.780	162.320	6275.51	5297.99	-5445.08	512.58	1643646.54	14308858.38	39°24'12.683"N	80°59'18.838"W	5469.15	174.622	0.32	0.25	0.20	
11934.00	89.720	160.590	6275.92	5392.96	-5535.14	542.79	1643676.74	14308768.35	39°24'11.793"N	80°59'18.453"W	5561.69	174.399	1.82	-0.06	-1.82	
12029.00	89.940	159.620	6276.20	5487.96	-5624.47	575.12	1643709.05	14308679.06	39°24'10.910"N	80°59'18.041"W	5653.80	174.162	1.05	0.23	-1.02	
12124.00	89.910	161.440	6276.33	5582.95	-5714.04	606.78	1643740.70	14308589.53	39°24'10.025"N	80°59'17.638"W	5746.16	173.938	1.92	-0.03	1.92	
12220.00	89.860	161.510	6276.69	5678.93	-5805.06	637.28	1643771.19	14308498.55	39°24'09.125"N	80°59'17.250"W	5839.94	173.735	0.27	-0.26	0.07	
12315.00	89.480	161.170	6277.40	5773.91	-5895.06	667.68	1643801.58	14308408.58	39°24'08.235"N	80°59'16.863"W	5932.75	173.538	0.40	-0.19	-0.36	
12410.00	89.780	161.580	6278.02	5868.89	-5985.09	698.01	1643831.90	14308318.59	39°24'07.345"N	80°59'16.476"W	6025.65	173.348	0.53	0.32	0.43	



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Wick Unit 1H
Field	Tyler	Wellbore	Wick Unit 1H AWB
Facility	Correll Pad		

WELLPATH DATA (200 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (IUS ft)	Grid North (IUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
12505.00	89.780	161.570	6278.38	5963.87	-6075.22	728.04	1643861.92	14308228.50	39°24'06.455"N	80°59'16.094"W	6118.68	173.166	0.01	0.00	-0.01	
12600.00	89.780	161.190	6278.74	6058.85	-6165.24	758.37	1643892.24	14308138.51	39°24'05.565"N	80°59'15.708"W	6211.71	172.987	0.40	0.00	-0.40	
12695.00	89.910	161.580	6279.00	6153.83	-6255.27	788.70	1643922.55	14308048.51	39°24'04.675"N	80°59'15.321"W	6304.80	172.814	0.43	0.14	0.41	
12790.00	89.750	160.850	6279.28	6248.81	-6345.21	819.29	1643953.13	14307958.61	39°24'03.786"N	80°59'14.932"W	6397.89	172.643	0.79	-0.17	-0.77	
12885.00	89.820	161.200	6279.64	6343.80	-6435.05	850.18	1643984.01	14307868.81	39°24'02.898"N	80°59'14.539"W	6490.97	172.474	0.38	0.07	-0.37	
12980.00	89.660	160.940	6280.07	6438.79	-6524.91	881.00	1644014.81	14307778.99	39°24'02.010"N	80°59'14.146"W	6584.12	172.310	0.32	-0.17	-0.27	
13076.00	89.630	161.340	6280.67	6534.78	-6615.75	912.03	1644045.83	14307688.18	39°24'01.112"N	80°59'13.751"W	6678.32	172.151	0.42	-0.03	0.42	
13171.00	89.780	161.450	6281.16	6629.76	-6705.79	942.34	1644076.13	14307598.13	39°24'00.222"N	80°59'13.365"W	6771.68	172.001	0.20	0.16	0.12	
13266.00	89.850	160.930	6281.46	6724.74	-6795.71	972.97	1644106.75	14307508.29	39°23'59.333"N	80°59'12.975"W	6865.01	171.852	0.55	0.07	-0.55	
13361.00	89.750	160.810	6281.79	6819.74	-6885.47	1004.10	1644137.87	14307418.57	39°23'58.446"N	80°59'12.579"W	6958.29	171.703	0.16	-0.11	-0.13	
13451.00	89.780	159.890	6282.16	6909.74	-6970.22	1034.36	1644168.12	14307333.85	39°23'57.608"N	80°59'12.193"W	7046.55	171.559	1.02	0.03	-1.02	
13552.00	90.090	163.240	6282.28	7010.70	-7066.03	1066.30	1644200.04	14307238.09	39°23'56.661"N	80°59'11.787"W	7146.03	171.419	3.33	0.31	3.32	
13647.00	90.150	162.240	6282.08	7105.60	-7156.75	1094.49	1644228.22	14307147.40	39°23'55.765"N	80°59'11.428"W	7239.95	171.305	1.05	0.06	-1.05	
13742.00	89.630	161.620	6282.26	7200.56	-7247.06	1123.95	1644257.67	14307057.13	39°23'54.872"N	80°59'11.053"W	7333.70	171.184	0.85	-0.55	-0.65	
13837.00	90.340	162.980	6282.29	7295.50	-7337.56	1152.84	1644286.54	14306966.66	39°23'53.978"N	80°59'10.685"W	7427.57	171.071	1.61	0.75	1.43	
13932.00	89.910	162.680	6282.08	7390.40	-7428.33	1180.88	1644314.57	14306875.93	39°23'53.080"N	80°59'10.328"W	7521.60	170.967	0.55	-0.45	-0.32	
14027.00	89.910	162.760	6282.23	7485.31	-7519.04	1209.10	1644342.78	14306785.26	39°23'52.184"N	80°59'09.969"W	7615.63	170.865	0.08	0.00	0.08	
14122.00	89.780	163.070	6282.48	7580.21	-7609.85	1237.01	1644370.88	14306694.49	39°23'51.286"N	80°59'09.613"W	7709.73	170.767	0.35	-0.14	0.33	
14216.00	89.570	162.660	6283.02	7674.11	-7699.67	1264.70	1644398.36	14306604.70	39°23'50.399"N	80°59'09.261"W	7802.85	170.672	0.49	-0.22	-0.44	
14310.00	89.750	162.120	6283.58	7768.04	-7789.26	1293.14	1644426.79	14306515.14	39°23'49.513"N	80°59'08.899"W	7895.88	170.574	0.61	0.19	-0.57	
14404.00	89.570	158.830	6284.13	7862.03	-7877.85	1324.55	1644458.19	14306426.59	39°23'48.637"N	80°59'08.499"W	7988.42	170.456	3.51	-0.19	-3.50	
14499.00	89.510	156.750	6284.90	7956.93	-7965.79	1360.46	1644494.08	14306338.69	39°23'47.768"N	80°59'08.041"W	8081.13	170.308	2.19	-0.06	-2.19	
14593.00	89.570	156.770	6285.65	8050.75	-8052.16	1397.55	1644531.16	14306252.35	39°23'46.914"N	80°59'07.569"W	8172.54	170.154	0.07	0.06	0.02	
14687.00	89.630	156.080	6286.31	8144.54	-8138.31	1435.14	1644568.73	14306166.23	39°23'46.063"N	80°59'07.090"W	8263.88	169.999	0.74	0.06	-0.73	
14782.00	89.380	156.730	6287.13	8239.32	-8225.37	1473.17	1644606.74	14306079.21	39°23'45.202"N	80°59'06.606"W	8356.25	169.846	0.73	-0.26	0.68	
14876.00	89.660	156.410	6287.92	8333.13	-8311.61	1510.54	1644644.10	14305993.00	39°23'44.350"N	80°59'06.130"W	8447.76	169.700	0.45	0.30	-0.34	
14970.00	89.820	155.980	6288.34	8426.89	-8397.61	1548.48	1644682.03	14305907.04	39°23'43.500"N	80°59'05.647"W	8539.19	169.552	0.49	0.17	-0.46	
15065.00	89.690	156.620	6288.75	8521.66	-8484.60	1586.67	1644720.20	14305820.08	39°23'42.640"N	80°59'05.161"W	8631.68	169.408	0.69	-0.14	0.67	
15155.00	89.660	156.690	6289.28	8615.48	-8570.90	1623.92	1644757.43	14305733.82	39°23'41.787"N	80°59'04.687"W	8723.39	169.271	0.08	-0.03	0.07	
15253.00	89.570	157.650	6289.91	8709.34	-8657.54	1660.39	1644793.89	14305647.22	39°23'40.931"N	80°59'04.223"W	8815.32	169.143	1.03	-0.10	1.02	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Wick Unit 1H
Field	Tyler	Wellbore	Wick Unit 1H AWB
Facility	Gorrell Pad		

WELLPATH DATA (200 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 (°/100ft)	Comments
15348.00	89.510	158.310	6290.68	8804.26	-8745.60	1696.00	1644829.49	14305559.19	39°23'40.060"N	80°59'03.769"W	8908.54	169.025	0.70	-0.08	0.68	
15442.00	89.450	159.050	6291.53	8898.22	-8833.17	1730.18	1644863.65	14305471.66	39°23'39.195"N	80°59'03.334"W	9001.02	168.918	0.79	-0.06	0.75	
15536.00	89.630	160.740	6292.28	8992.21	-8921.43	1762.49	1644895.95	14305383.43	39°23'38.322"N	80°59'02.923"W	9093.86	168.825	1.81	0.19	1.80	
15630.00	89.660	162.500	6292.87	9086.18	-9010.63	1792.13	1644925.57	14305294.26	39°23'37.441"N	80°59'02.545"W	9187.12	168.751	1.87	0.03	1.87	
15724.00	89.480	162.630	6293.57	9180.10	-9100.31	1820.29	1644953.73	14305204.62	39°23'36.554"N	80°59'02.187"W	9280.58	168.689	0.24	-0.19	0.14	
15819.00	89.600	160.790	6294.33	9275.06	-9190.50	1850.10	1644983.53	14305114.46	39°23'35.663"N	80°59'01.807"W	9374.87	168.618	1.94	0.13	-1.94	
15914.00	89.350	160.200	6295.20	9370.06	-9280.05	1881.82	1645015.23	14305024.96	39°23'34.778"N	80°59'01.403"W	9468.92	168.537	0.67	-0.26	-0.62	
16008.00	89.420	159.880	6296.21	9464.05	-9368.40	1913.90	1645047.30	14304936.64	39°23'33.905"N	80°59'00.995"W	9561.90	168.454	0.35	0.07	-0.34	
16102.00	89.110	159.870	6297.42	9558.04	-9456.65	1946.24	1645079.63	14304848.43	39°23'33.032"N	80°59'00.583"W	9654.85	168.371	0.33	-0.33	-0.01	
16196.00	89.200	159.450	6298.81	9652.03	-9544.78	1978.91	1645112.29	14304760.33	39°23'32.161"N	80°59'00.167"W	9747.76	168.287	0.46	0.10	-0.45	
16290.00	89.020	159.600	6300.27	9746.01	-9632.83	2011.79	1645145.15	14304672.32	39°23'31.291"N	80°58'59.749"W	9840.67	168.203	0.25	-0.19	0.16	
16385.00	89.380	159.960	6301.59	9840.99	-9721.97	2044.62	1645177.97	14304583.22	39°23'30.410"N	80°58'59.331"W	9934.64	168.123	0.54	0.38	0.38	
16480.00	89.630	161.050	6302.41	9935.99	-9811.51	2076.33	1645209.66	14304493.70	39°23'29.525"N	80°58'58.927"W	10028.81	168.051	1.18	0.26	1.15	
16575.00	89.630	162.390	6303.03	10030.95	-9901.72	2106.12	1645239.44	14304403.54	39°23'28.633"N	80°58'58.548"W	10123.23	167.992	1.41	0.00	1.41	
16669.00	89.450	163.200	6303.78	10124.86	-9991.51	2133.92	1645267.24	14304313.78	39°23'27.746"N	80°58'58.194"W	10216.84	167.944	0.88	-0.19	0.86	
16764.00	89.260	161.880	6304.85	10219.77	-10082.12	2162.43	1645295.73	14304223.20	39°23'26.850"N	80°58'57.831"W	10311.41	167.896	1.40	-0.20	-1.33	
16858.00	88.950	160.630	6306.32	10313.74	-10171.12	2192.63	1645325.92	14304134.24	39°23'25.970"N	80°58'57.447"W	10404.78	167.835	1.37	-0.33	-1.33	
16953.00	88.950	160.520	6308.06	10408.73	-10260.70	2224.22	1645357.49	14304044.70	39°23'25.085"N	80°58'57.045"W	10499.01	167.769	0.12	0.00	-0.12	
17037.00	89.020	159.460	6309.55	10492.71	-10339.62	2252.96	1645386.22	14303965.81	39°23'24.305"N	80°58'56.679"W	10582.22	167.708	1.26	0.08	-1.26	
17062.00	89.020	159.460	6309.98	10517.70	-10363.02	2261.73	1645394.99	14303942.42	39°23'24.073"N	80°58'56.567"W	10606.96	167.688	0.00	0.00	0.00	Projected MD at TD: 17062'



Actual Wellpath Report

Wick Unit 1H AWP Proj: 17062'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Wick Unit 1H
Field	Tyler	Wellbore	Wick Unit 1H AWB
Facility	Gorrell Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Wick Unit 1H AWB Ref Wellpath: Wick Unit 1H AWP Proj: 17062'										
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	0.00	0.00	0.02
17.5in Open Hole	110.00	650.00	540.00	110.00	649.98	0.00	0.02	-3.00	-3.14	-3.14
13.375in Casing Surface	30.00	631.30	601.30	30.00	631.28	0.00	0.00	-2.81	-2.92	-2.92
12.25in Open Hole	650.00	2638.00	1988.00	649.98	2582.86	-3.00	-3.14	-6.20	-427.92	-427.92
9.625in Casing Intermediate	30.00	2618.70	2588.70	30.00	2564.12	0.00	0.00	-5.51	-423.39	-423.39
8.75in Open Hole	2638.00	5001.00	2363.00	2582.86	4847.83	-6.20	-427.92	-35.67	-1092.91	-1092.91
8.5in Open Hole	5001.00	17062.00	12061.00	4847.83	6309.98	-35.67	-1092.91	-10363.02	2261.73	2261.73
5.5in Casing Production	30.00	17062.00	17032.00	30.00	6309.98	0.00	0.00	-10363.02	2261.73	2261.73

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Wick Unit 1H - POE - Rev-2	6203.00	-546.71	-1268.26	1641866.42	14313754.78	39°25'01.088"N	80°59'41.520"W	point
Wick Unit 1H - BHL - Rev-3	6243.00	-10467.21	2293.81	1645427.05	14303838.27	39°23'23.044"N	80°58'56.159"W	point
Wick Unit 1H - LP - Rev-2	6243.00	-766.83	-1188.51	1641946.14	14313532.75	39°24'58.902"N	80°59'40.504"W	point



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Wick Unit 1H
Field	Tyler	Wellbore	Wick Unit 1H AWB
Facility	Gorrell Pad		

WELLPATH COMPOSITION - Ref Wellbore: Wick Unit 1H AWB Ref Wellpath: Wick Unit 1H AWP Proj: 17062'

Start MD ft	End MD ft	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	809.00	Gyrodata standard - Drop gyro or Multi-shot	01. Gyrodata MS Gyro <17-1/2"> (100-609)	Wick Unit 1H AWB
609.00	2562.00	BHI NaviTrak (Axial)	02. AFS EM <12-1/4"> (609)-(660-2562')	Wick Unit 1H AWB
2562.00	4908.00	BHI NaviTrak (Axial)	03. AFS EM <8-3/4"> (2562)-(2645-4908')	Wick Unit 1H AWB
4908.00	17037.00	BHI AutoTrak Curve (Short)	04. BH AT Curve <8-1/2"> (4908)-(4986'-17037')	Wick Unit 1H AWB
17037.00	17062.00	Blind Drilling (std)	Projection to bit	Wick Unit 1H AWB



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Wick Unit 1H AWP Proj: 17062'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Slot	Slot #06	
ANTERO RESOURCES CORPORATION	Well	Wick Unit 1H	
Tyler County, WV	Wellbore	Wick Unit 1H AWB	
Tyler			
Gorrell Pad			

COMMENTS
<p>Wellpath general comments</p> <p>API: 47-095-02593-0000</p> <p>BHI Job #: 10980899A</p> <p>Rig: H&P 519</p> <p>Duration: 04/30/2019-07/01/2019</p> <p>Gyrodata MS Gyro <17-1/2"> (100'-609')</p> <p>APS EM <12-1/4"> (609')(660'-2562')</p> <p>APS EM <8-3/4">(2562')(2645'-4908')</p> <p>BH AT Curve <8-1/2">(4908')(4986'-17037')</p> <p>Middlesex: 6379' MD</p> <p>Burkett: 6550' MD</p> <p>Tully: 6598' MD</p> <p>Marcellus POE: 6615' MD</p> <p>Projected MD at TD: 17062'</p>