



ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV
 Field: Ritchie
 Facility: Muivay Pad

Slot: Slot #08
 Well: Trust Unit 1H
 Wellbore: Trust Unit 1H PWB

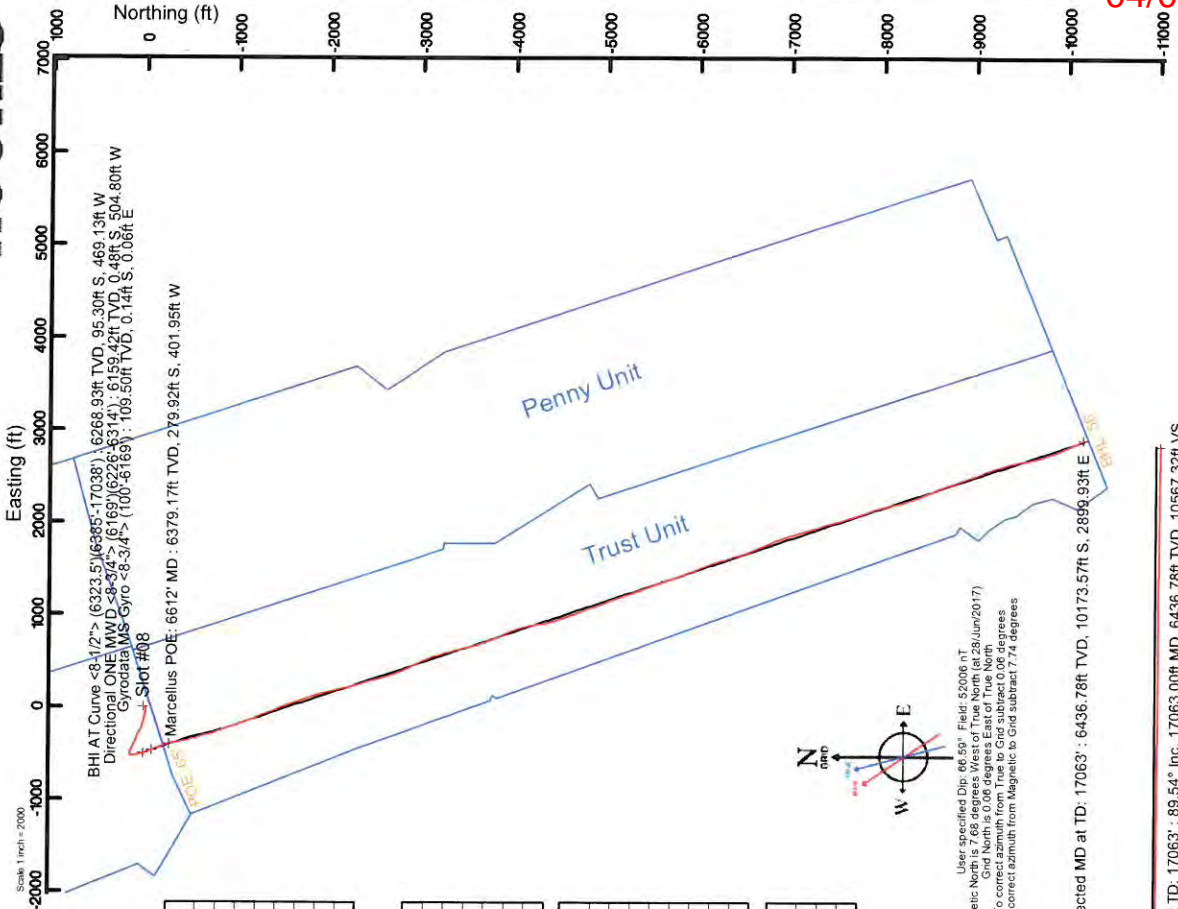


API: 47-085-10301-0000

BHI Job #: 8633622

Rig: Frontier 22

Duration: 07/01/2017-07/03/2017



Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Muivay Pad	1668944.745	3971921.050N	80°53'56.850"W
Slot	Local E (ft)	Grid North (US ft)	Longitude
Slot #08	-19.22	14279359.985	80°53'56.800"W
Comment	Trust Unit 1H		
Frontier 22 (RKB) to Mud line (At Slot: Slot #08)			
Mean Sea Level to Mud line (At Slot: Slot #08)			
Frontier 22 (RKB) to Mean Sea Level			
		24.5ft	
		-1029ft	
		1053.5ft	

Well Profile Data	
Design Comment	VS (ft)
This On	-103.67
Proj. To Bottom	-38.69
POE	137.47
Landing Pl	283.87
Work Back to Line	809.64
On Azimuth	10673.64
BHL	

Well Data	
Slot	Wellbore
Slot #08	Trust Unit 1H PWB
Slot #08	Trust Unit 1H PWB Rev-A.0

Well Profile Data	
MD (ft)	Local N (ft)
6323.50	-485.71
6411.50	-463.20
6612.33	-407.45
6761.13	-362.20
7009.67	-295.75
7287.77	-220.03
17051.77	2891.48

Well Profile Data	
MD (ft)	Local E (ft)
6323.50	-485.71
6411.50	-463.20
6612.33	-407.45
6761.13	-362.20
7009.67	-295.75
7287.77	-220.03
17051.77	2891.48

Well Profile Data	
MD (ft)	DLS (*/100ft)
6323.50	0.00
6411.50	9.18
6612.33	10.24
6761.13	12.00
7009.67	2.00
7287.77	2.00
17051.77	0.00

04/05/2019



Actual Wellpath Report

Trust Unit 1H AWP Proj: 17063'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot #08	Trust Unit 1H
Area	Ritchie County, WV	Well	Trust Unit 1H AWB
Field	Ritchie	Wellbore	
Facility	Mulvay Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	10/Jul/2017 at 15:27
Convergence at slot	0.06° East	Database/Source file	WA_MPL_EasternUS_DefnTrust_Unit_1H_AWP_Proj_17063_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-19.22	3.95	1668948.69	14279359.99	39°19'20.860"N	80°53'56.800"W
Facility Reference Pt			1668944.75	14279379.20	39°19'21.050"N	80°53'56.850"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM		
Calculation method	Minimum curvature	Frontier 22 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	Slot	Frontier 22 (RKB) to Mean Sea Level
Vertical Reference Pt	Frontier 22 (RKB)	Frontier 22 (RKB) to Mud Line at Slot (Slot #08)
MD Reference Pt	Frontier 22 (RKB)	Section Origin
Field Vertical Reference	Mean Sea Level	Section Azimuth
		24.50ft
		1053.50ft
		24.50ft
		N 0.00, E 0.00 ft
		161.42°



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Ritchie County, WV	Well	Trust Unit 1H
Field	Ritchie	Wellbore	Trust Unit 1H AWB
Facility	Mulway Pad		

WELLPATH DATA (190 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	VertSect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.00	157.100	0.00	0.00	0.00	0.00	1668948.69	14279359.98	39°19'20.860"N	80°53'56.800"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.00	157.100	24.50	0.00	0.00	0.00	1668948.69	14279359.98	39°19'20.860"N	80°53'56.800"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.210	157.100	109.50	0.16	-0.14	0.06	1668948.75	14279359.84	39°19'20.859"N	80°53'56.799"W	0.16	157.100	0.25	0.25	184.82	Byrodatta MS Gyro <8-3/4"> (100'-6169')
209.50	0.240	154.840	209.50	0.55	-0.50	0.22	1668948.91	14279359.48	39°19'20.855"N	80°53'56.797"W	0.55	156.237	0.03	0.03	-2.26	
309.50	0.420	151.720	309.50	1.12	-1.01	0.48	1668949.18	14279358.97	39°19'20.850"N	80°53'56.794"W	1.12	154.505	0.18	0.18	-3.12	
409.50	0.360	140.620	409.50	1.77	-1.58	0.86	1668949.55	14279358.41	39°19'20.844"N	80°53'56.789"W	1.80	151.532	0.10	-0.06	-11.10	
509.50	0.260	152.830	509.49	2.29	-2.02	1.16	1668949.85	14279357.96	39°19'20.840"N	80°53'56.785"W	2.33	150.198	0.12	-0.10	12.21	
609.50	0.880	227.800	609.49	2.82	-2.74	0.69	1668949.39	14279357.24	39°19'20.840"N	80°53'56.785"W	2.83	165.792	0.85	0.62	74.97	
709.50	2.620	219.850	709.44	4.32	-5.01	-1.34	1668947.36	14279354.97	39°19'20.833"N	80°53'56.791"W	5.19	194.959	1.75	1.74	-7.95	
809.50	3.980	212.430	809.27	7.71	-9.70	-4.67	1668944.03	14279350.29	39°19'20.764"N	80°53'56.859"W	10.76	205.892	1.42	1.36	-7.42	
909.50	4.010	211.700	909.03	12.12	-15.60	-8.36	1668940.33	14279344.39	39°19'20.706"N	80°53'56.907"W	17.70	208.195	0.06	0.03	-0.73	
1009.50	3.830	210.260	1008.79	16.56	-21.46	-11.88	1668936.81	14279338.53	39°19'20.648"N	80°53'56.952"W	24.53	208.975	0.21	-0.18	-1.44	
1109.50	2.920	209.020	1108.62	20.47	-26.57	-14.80	1668933.90	14279333.42	39°19'20.598"N	80°53'56.989"W	30.42	209.120	0.91	-0.91	-1.24	
1209.50	1.360	200.440	1208.55	23.11	-29.91	-16.45	1668932.25	14279330.08	39°19'20.565"N	80°53'57.010"W	34.14	208.812	1.59	-1.56	-8.58	
1309.50	0.630	80.260	1308.54	24.12	-30.93	-16.33	1668932.38	14279329.07	39°19'20.554"N	80°53'57.008"W	34.98	207.825	1.78	-0.73	-120.18	
1409.50	0.930	42.780	1408.53	23.81	-30.24	-15.23	1668933.47	14279329.75	39°19'20.561"N	80°53'56.994"W	33.86	206.733	0.58	0.30	-37.48	
1509.50	0.920	32.740	1508.52	22.92	-28.97	-14.25	1668934.45	14279331.02	39°19'20.574"N	80°53'56.982"W	32.29	206.186	0.16	-0.01	-10.04	
1609.50	0.910	32.880	1608.50	21.93	-27.63	-13.38	1668935.32	14279332.37	39°19'20.587"N	80°53'56.971"W	30.70	205.842	0.01	-0.01	0.14	
1709.50	0.570	142.720	1708.50	21.90	-27.36	-12.65	1668936.05	14279332.64	39°19'20.590"N	80°53'56.961"W	30.14	204.813	1.23	-0.34	109.84	
1809.50	0.760	158.490	1808.49	23.04	-28.37	-12.10	1668936.59	14279331.62	39°19'20.580"N	80°53'56.954"W	30.85	203.106	0.26	0.19	15.77	
1909.50	0.800	187.030	1908.48	24.33	-29.68	-11.95	1668936.75	14279330.32	39°19'20.567"N	80°53'56.952"W	32.00	201.925	0.39	0.04	28.54	
2009.50	3.600	258.420	2008.41	24.57	-31.00	-15.11	1668933.59	14279328.99	39°19'20.554"N	80°53'56.993"W	34.49	205.981	3.43	2.80	71.39	
2109.50	4.680	267.970	2108.15	23.03	-31.78	-22.26	1668926.44	14279328.22	39°19'20.546"N	80°53'57.084"W	38.80	215.012	1.28	1.08	9.55	
2209.50	6.260	280.900	2207.69	19.18	-30.89	-31.69	1668917.01	14279331.82	39°19'20.592"N	80°53'57.365"W	44.26	225.733	1.99	1.58	12.93	
2309.50	8.610	282.990	2306.85	12.58	-28.18	-44.34	1668904.37	14279331.01	39°19'20.555"N	80°53'57.204"W	52.54	237.565	2.37	2.35	2.09	
2409.50	8.630	280.810	2405.72	4.98	-25.09	-59.01	1668889.71	14279334.91	39°19'20.613"N	80°53'57.551"W	64.12	246.965	0.33	0.02	-2.18	
2509.50	8.030	282.030	2504.65	-2.28	-22.22	-73.26	1668875.47	14279337.78	39°19'20.641"N	80°53'57.732"W	76.55	253.130	0.57	-0.54	1.22	
2609.50	7.360	281.630	2603.74	-9.09	-19.46	-86.41	1668862.32	14279340.53	39°19'20.669"N	80°53'57.900"W	88.58	257.310	0.73	-0.73	-0.40	
2709.50	7.120	278.560	2702.95	-15.14	-17.24	-98.82	1668849.92	14279342.75	39°19'20.691"N	80°53'56.058"W	100.31	260.101	0.46	-0.24	-3.07	
2809.50	8.000	282.260	2802.08	-21.53	-14.84	-111.74	1668836.99	14279345.15	39°19'20.715"N	80°53'58.222"W	112.73	262.433	1.01	0.88	3.70	



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Trust Unit 1H AWP Proj: 17063'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #08
Area	Ritchie County, WV	Trust Unit 1H
Field	Ritchie	Trust Unit 1H AWB
Facility	Mulway Pad	

WELLPATH DATA (190 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert.Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
2909.50	9.130	288.210	2900.96	-29.85	-10.89	-126.08	1668822.66	14279349.10	39°19'20.754"N	80°53'58.404"W	126.55	265.065	1.43	1.13	5.95	
3009.50	8.700	283.910	2999.76	-38.67	-6.59	-140.96	1668807.79	14279353.40	39°19'20.796"N	80°53'58.594"W	141.11	267.324	0.79	-0.43	-4.30	
3109.50	8.840	284.410	3098.59	-46.91	-2.86	-155.74	1668793.01	14279357.13	39°19'20.833"N	80°53'58.782"W	155.77	268.948	0.16	0.14	0.50	
3209.50	9.270	289.640	3197.34	-56.08	1.76	-170.77	1668777.99	14279361.74	39°19'20.879"N	80°53'58.973"W	170.78	270.591	0.93	0.43	5.23	
3309.50	9.560	294.420	3296.00	-66.73	7.90	-185.92	1668762.85	14279367.88	39°19'20.940"N	80°53'59.166"W	186.09	272.433	0.83	0.29	4.78	
3409.50	8.890	286.460	3394.71	-76.83	13.52	-200.89	1668747.88	14279373.50	39°19'20.996"N	80°53'59.356"W	201.34	273.851	1.44	-0.67	-7.96	
3509.50	8.080	281.410	3493.61	-84.78	17.10	-215.19	1668733.59	14279380.72	39°19'21.031"N	80°53'59.538"W	215.87	274.544	1.10	-0.81	-5.05	
3609.50	8.650	287.370	3592.55	-92.71	20.74	-229.26	1668719.53	14279387.08	39°19'21.067"N	80°53'59.717"W	230.19	275.169	1.04	0.57	5.96	
3709.50	8.590	282.970	3691.42	-101.03	24.66	-243.71	1668705.08	14279394.63	39°19'21.106"N	80°53'59.901"W	244.95	275.778	0.66	-0.06	-4.40	
3809.50	8.980	303.800	3790.27	-111.12	30.68	-257.48	1668691.32	14279399.65	39°19'21.166"N	80°54'00.076"W	259.30	276.795	3.19	0.39	20.83	
3909.50	8.330	310.540	3889.14	-123.52	39.73	-269.47	1668679.33	14279408.94	39°19'21.256"N	80°54'00.228"W	272.38	278.387	1.20	-0.65	6.74	
4009.50	7.710	312.560	3988.16	-135.61	48.97	-279.91	1668668.89	14279417.89	39°19'21.347"N	80°54'00.361"W	284.17	279.924	0.68	-0.62	2.02	
4109.50	8.530	306.590	4087.16	-147.57	57.93	-290.81	1668658.00	14279426.62	39°19'21.436"N	80°54'00.500"W	296.52	281.267	1.18	0.82	-5.97	
4209.50	8.310	287.990	4186.10	-157.97	64.59	-303.64	1668645.18	14279429.75	39°19'21.502"N	80°54'00.663"W	310.43	282.008	2.72	-0.22	-18.60	
4309.50	7.170	288.540	4285.20	-164.11	66.66	-316.75	1668632.07	14279429.75	39°19'21.552"N	80°54'00.830"W	323.69	281.884	2.84	-1.14	-19.45	
4409.50	8.030	298.120	4384.36	-171.04	69.79	-329.16	1668619.67	14279429.75	39°19'21.553"N	80°54'00.987"W	336.48	281.972	3.96	0.86	29.58	
4509.50	9.720	296.230	4483.16	-182.07	76.82	-342.89	1668605.94	14279436.77	39°19'21.623"N	80°54'01.162"W	351.39	282.627	1.71	1.69	-1.89	
4609.50	10.030	285.690	4581.69	-192.92	82.90	-358.85	1668589.99	14279442.86	39°19'21.683"N	80°54'01.365"W	368.30	283.009	1.83	0.31	-10.54	
4709.50	9.030	294.630	4680.31	-203.20	88.53	-374.37	1668574.48	14279448.48	39°19'21.739"N	80°54'01.562"W	384.69	283.305	1.78	-1.00	8.94	
4809.50	8.870	299.870	4779.09	-214.34	95.64	-388.19	1668560.66	14279455.59	39°19'21.810"N	80°54'01.738"W	399.80	283.841	0.83	-0.16	5.24	
4909.50	8.980	297.290	4877.88	-225.71	103.06	-401.81	1668547.05	14279463.00	39°19'21.883"N	80°54'01.911"W	414.81	284.386	0.42	0.11	-2.58	
5009.50	8.190	292.590	4976.76	-236.01	109.37	-415.32	1668533.54	14279469.31	39°19'21.946"N	80°54'02.083"W	429.48	284.754	1.06	-0.79	-4.70	
5109.50	8.180	293.380	5075.75	-245.45	114.93	-428.43	1668520.44	14279474.87	39°19'22.001"N	80°54'02.250"W	443.58	285.017	0.11	-0.01	0.79	
5209.50	9.530	300.000	5174.55	-256.42	121.90	-442.13	1668506.74	14279481.83	39°19'22.070"N	80°54'02.424"W	458.62	285.414	1.69	1.35	6.62	
5309.50	8.790	295.110	5273.28	-267.90	129.28	-456.22	1668492.66	14279489.21	39°19'22.143"N	80°54'02.603"W	474.18	285.821	1.07	-0.74	-4.89	
5409.50	8.140	295.250	5372.19	-278.08	135.54	-469.54	1668479.34	14279495.47	39°19'22.205"N	80°54'02.773"W	488.71	286.102	0.65	-0.65	0.14	
5509.50	7.700	293.870	5471.24	-287.51	141.27	-482.07	1668466.82	14279501.20	39°19'22.262"N	80°54'02.932"W	502.34	286.333	0.48	-0.44	-1.38	
5609.50	7.810	287.700	5570.32	-296.05	146.05	-494.67	1668454.23	14279505.97	39°19'22.309"N	80°54'03.092"W	515.78	286.449	0.84	0.11	-6.17	
5709.50	8.300	285.710	5669.34	-304.14	150.07	-508.09	1668440.81	14279509.99	39°19'22.349"N	80°54'03.263"W	529.79	286.455	0.56	0.49	-1.99	
5809.50	8.320	239.930	5768.39	-306.76	148.39	-521.31	1668427.59	14279509.32	39°19'22.332"N	80°54'03.431"W	542.02	285.889	6.45	0.02	-45.78	



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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Ritchie County, WV	Well	Trust Unit 1H
Field	Ritchie	Wellbore	Trust Unit 1H AWB
Facility	Mulway Pad		

WELLPATH DATA (190 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 Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
5909.50	12.600	190.320	6866.89	-295.75	134.01	-529.55	1668419.36	14279493.94	39°19'22.190"N	80°54'03.536"W	546.24	284.201	9.56	4.28	-49.61	
6009.50	20.010	173.600	6962.85	-289.43	106.22	-529.59	1668419.31	14279466.16	39°19'21.916"N	80°54'03.537"W	540.14	281.341	8.70	7.41	-16.72	
6109.50	28.380	167.800	6054.00	-229.01	65.91	-522.65	1668426.25	14279425.87	39°19'21.517"N	80°54'03.450"W	526.79	277.187	8.69	8.37	-5.80	
6178.50	33.870	165.090	6113.04	-193.49	31.27	-514.23	1668434.67	14279391.25	39°19'21.175"N	80°54'03.343"W	515.18	273.480	8.21	7.96	-3.93	
6235.50	37.220	161.970	6159.42	-160.39	-0.48	-504.80	1668444.09	14279359.51	39°19'20.861"N	80°54'03.223"W	504.80	269.946	6.68	5.88	-5.47	Directional ONE MWD <8.3/4"> (6169)(6226-6314)
6279.50	39.860	160.640	6193.83	-132.98	-26.44	-496.01	1668452.88	14279325.93	39°19'20.504"N	80°54'03.112"W	496.71	266.949	6.29	6.00	-3.02	
6292.00†	40.966	159.944	6203.35	-124.88	-34.07	-493.28	1668456.62	14279305.93	39°19'20.333"N	80°54'03.077"W	494.45	266.049	9.56	8.85	-5.57	Middlesex: 6292' MD
6323.50	43.770	158.320	6226.62	-103.67	-53.90	-485.71	1668463.18	14279282.50	39°19'20.333"N	80°54'02.981"W	488.69	263.668	9.56	8.90	-5.16	
6385.00	49.250	158.050	6268.93	-59.14	-95.30	-469.13	1668479.75	14279264.72	39°19'19.923"N	80°54'02.771"W	478.71	258.517	8.92	8.91	-0.44	BHI AT Curve <8-1/2"> (6323.5)(6385-17038)
6435.00	53.550	158.010	6300.12	-20.14	-131.53	-454.51	1668494.36	14279228.50	39°19'19.565"N	80°54'02.585"W	473.16	253.860	8.60	8.60	-0.08	
6465.00†	57.137	158.586	6317.18	4.49	-154.46	-445.39	1668503.48	14279205.59	39°19'19.338"N	80°54'02.470"W	471.42	250.874	12.06	11.96	1.80	
6483.00	59.290	158.910	6326.68	19.78	-168.72	-439.85	1668509.02	14279191.33	39°19'19.197"N	80°54'02.399"W	473.26	243.996	10.75	10.53	2.45	
6530.00	64.240	160.060	6348.89	61.15	-207.49	-425.35	1668523.51	14279152.58	39°19'18.814"N	80°54'02.215"W	473.88	243.345	11.31	10.46	4.77	Jully: 6536' MD
6536.00†	64.868	160.346	6351.46	66.56	-212.59	-423.52	1668525.35	14279147.48	39°19'18.763"N	80°54'02.192"W	480.56	238.885	11.31	10.49	4.59	
6612.00†	71.774	164.375	6379.17	137.26	-279.92	-401.95	1668546.91	14279080.17	39°19'18.098"N	80°54'01.918"W	489.82	235.146	9.42	7.44	6.13	Marcellus POE: 6612' MD
6672.00	76.290	167.910	6399.68	194.72	-335.91	-388.16	1668560.69	14279024.21	39°19'17.544"N	80°54'01.744"W	513.32	229.127	9.42	7.53	5.89	
6718.00	80.200	169.570	6405.05	239.38	-380.07	-379.37	1668569.48	14278980.07	39°19'17.108"N	80°54'01.633"W	537.00	224.947	9.20	8.50	3.61	
6767.00	86.060	169.760	6410.90	287.51	-427.91	-370.65	1668576.20	14278932.25	39°19'16.635"N	80°54'01.522"W	566.11	220.899	11.97	11.96	0.39	
6813.00	90.770	168.000	6412.18	333.08	-473.01	-361.78	1668587.06	14278887.16	39°19'16.189"N	80°54'01.410"W	595.50	217.410	10.93	10.24	-3.83	
6862.00	90.740	165.160	6411.53	381.88	-520.66	-350.41	1668624.55	14278749.29	39°19'15.718"N	80°54'01.266"W	627.80	213.941	5.80	-0.06	-5.80	
6956.00	90.620	162.550	6410.41	475.78	-610.94	-324.28	1668624.55	14278749.29	39°19'14.825"N	80°54'01.266"W	691.67	207.958	2.78	-0.13	-2.78	
7051.00	90.740	163.480	6409.29	570.73	-701.79	-296.53	1668680.10	14278658.47	39°19'13.927"N	80°54'00.583"W	761.87	202.905	0.99	0.13	0.98	
7146.00	89.570	162.460	6409.03	665.69	-792.62	-268.70	1668680.10	14278567.68	39°19'13.029"N	80°54'00.230"W	836.93	198.727	1.63	-1.23	-1.07	
7241.00	89.540	159.080	6409.77	760.67	-882.31	-237.42	1668711.37	14278478.03	39°19'12.142"N	80°53'59.833"W	913.69	195.061	3.56	-0.03	-3.56	
7336.00	89.690	161.670	6410.41	855.65	-971.78	-205.52	1668743.26	14278388.60	39°19'11.258"N	80°53'59.429"W	993.27	191.941	2.73	0.16	2.73	
7431.00	90.030	159.350	6410.64	950.63	-1061.33	-173.82	1668774.94	14278299.08	39°19'10.372"N	80°53'59.027"W	1075.47	189.301	2.47	0.36	-2.44	
7526.00	90.120	159.580	6410.51	1045.57	-1150.29	-140.50	1668808.25	14278210.15	39°19'09.492"N	80°53'58.604"W	1158.84	186.964	0.26	0.09	0.24	
7621.00	89.750	159.180	6410.62	1140.51	-1239.21	-107.04	1668841.69	14278121.28	39°19'08.613"N	80°53'58.180"W	1243.82	184.937	0.57	-0.39	-0.42	
7716.00	89.760	159.530	6411.01	1235.45	-1328.10	-73.55	1668875.17	14278032.41	39°19'07.734"N	80°53'57.755"W	1330.14	183.170	0.37	0.03	0.37	



Actual Wellpath Report

Trust Unit 1H AWP Proj: 17063'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Area	Field	Facility	Slot	Well	Wellbore	Slot #08	Trust Unit 1H	Trust Unit 1H AWP
ANTERO RESOURCES CORPORATION	Ritchie County, WV	Ritchie	Mulvay Pad						

WELLPATH DATA (190 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
7811.00	89.780	157.940	6411.381	1330.34	-1416.63	-39.10	1668909.61	14277943.92	39°19'06.859"N	80°53'57.318"W	1417.17	181.581	1.67	0.00	-1.67	
7905.00	89.940	157.040	6411.61	1424.12	-1503.47	-3.11	1668945.59	14277857.12	39°19'06.000"N	80°53'56.861"W	1503.47	180.118	0.97	0.17	-0.96	
8000.00	89.940	160.620	6411.71	1519.00	-1592.04	31.19	1668979.88	14277768.58	39°19'05.124"N	80°53'56.426"W	1592.35	178.878	3.77	0.00	3.77	
8094.00	89.910	160.890	6411.83	1613.00	-1680.79	62.18	1669010.85	14277679.87	39°19'04.247"N	80°53'56.033"W	1681.94	177.881	0.29	-0.03	0.29	
8189.00	89.910	160.230	6411.98	1707.99	-1770.37	93.79	1669042.45	14277590.32	39°19'03.361"N	80°53'55.632"W	1772.86	176.967	0.69	0.00	-0.69	
8284.00	89.910	161.340	6412.13	1802.98	-1860.08	125.06	1669073.70	14277500.65	39°19'02.474"N	80°53'55.235"W	1864.28	176.154	1.17	0.00	1.17	
8379.00	90.030	166.290	6412.18	1897.87	-1951.29	151.53	1669100.16	14277409.48	39°19'01.572"N	80°53'54.900"W	1957.16	175.559	5.21	0.13	5.21	
8474.00	89.940	168.620	6412.20	1992.33	-2044.01	172.16	1669120.79	14277316.79	39°19'00.656"N	80°53'54.638"W	2051.25	175.185	2.45	-0.09	2.45	
8569.00	89.940	166.540	6412.30	2086.78	-2136.78	192.60	1669141.21	14277224.06	39°18'59.739"N	80°53'54.380"W	2145.45	174.850	2.19	0.00	-2.19	
8663.00	89.970	164.330	6412.38	2180.54	-2227.76	216.23	1669164.84	14277133.12	39°18'58.839"N	80°53'54.080"W	2238.23	174.456	2.35	0.03	-2.35	
8758.00	89.940	162.170	6412.45	2275.49	-2318.72	243.61	1669192.21	14277042.19	39°18'57.940"N	80°53'53.733"W	2331.48	174.002	2.27	-0.03	-2.27	
8853.00	89.940	163.640	6412.55	2370.45	-2409.52	271.54	1669220.12	14276951.43	39°18'57.042"N	80°53'53.379"W	2424.77	173.570	1.55	0.00	1.55	
8948.00	89.910	164.380	6412.67	2465.36	-2500.84	297.70	1669246.28	14276860.14	39°18'56.139"N	80°53'53.048"W	2518.50	173.211	0.78	-0.03	0.78	
9042.00	89.940	165.570	6412.80	2559.17	-2591.63	322.07	1669270.64	14276769.39	39°18'55.242"N	80°53'52.739"W	2611.57	172.916	1.27	0.03	1.27	
9137.00	89.970	161.360	6412.87	2654.09	-2682.68	349.10	1669297.66	14276678.38	39°18'54.341"N	80°53'52.396"W	2705.30	172.586	4.43	0.03	-4.43	
9233.00	89.970	156.100	6412.92	2749.95	-2772.11	383.92	1669332.46	14276588.99	39°18'53.457"N	80°53'51.955"W	2798.57	172.115	5.48	0.00	-5.48	
9327.00	90.030	155.040	6412.92	2843.46	-2857.69	422.79	1669371.32	14276503.44	39°18'52.611"N	80°53'51.461"W	2888.80	171.584	1.13	0.06	-1.13	
9422.00	89.850	155.600	6413.02	2937.92	-2944.01	462.46	1669410.97	14276417.15	39°18'51.757"N	80°53'50.958"W	2980.12	171.073	0.62	-0.19	0.59	
9517.00	89.970	157.050	6413.17	3032.55	-3031.02	500.61	1669449.10	14276330.18	39°18'50.897"N	80°53'50.474"W	3072.08	170.622	1.53	0.13	1.53	
9612.00	90.030	159.650	6413.17	3127.40	-3119.31	535.65	1669484.13	14276244.93	39°18'50.024"N	80°53'50.029"W	3164.96	170.256	2.74	0.06	2.74	
9707.00	90.180	163.130	6413.00	3222.39	-3209.33	565.96	1669514.43	14276151.95	39°18'49.134"N	80°53'49.645"W	3258.85	169.999	3.67	0.16	3.66	
9802.00	89.510	164.810	6413.25	3317.29	-3300.63	592.20	1669540.65	14276060.68	39°18'48.231"N	80°53'49.312"W	3353.33	169.828	1.90	-0.71	1.77	
9896.00	89.630	164.650	6413.96	3411.13	-3391.31	616.95	1669565.40	14275970.04	39°18'47.335"N	80°53'48.999"W	3446.97	169.689	0.21	0.13	-0.17	
9990.00	89.630	164.270	6414.57	3504.99	-3481.87	642.14	1669590.57	14275879.51	39°18'46.439"N	80°53'48.680"W	3540.58	169.551	0.40	0.00	-0.40	
10085.00	89.750	165.170	6415.08	3598.83	-3573.51	667.17	1669615.60	14275787.91	39°18'45.533"N	80°53'48.363"W	3635.25	169.425	0.96	0.13	0.95	
10180.00	89.630	161.290	6415.59	3694.77	-3664.45	694.58	1669642.99	14275697.01	39°18'44.634"N	80°53'48.015"W	3729.69	169.267	4.09	0.13	-4.08	
10275.00	89.570	157.780	6416.26	3789.70	-3753.44	727.78	1669676.19	14275608.05	39°18'43.754"N	80°53'47.137"W	3823.34	169.027	3.70	-0.06	-3.69	
10370.00	89.690	157.630	6416.87	3884.50	-3841.33	763.82	1669712.21	14275520.19	39°18'42.885"N	80°53'46.689"W	3916.54	168.754	0.20	0.13	-0.16	
10464.00	89.720	158.230	6417.36	3978.32	-3928.44	799.14	1669747.52	14275433.12	39°18'42.024"N	80°53'46.266"W	4008.90	168.502	0.64	0.03	0.64	
10559.00	89.880	160.740	6417.69	4073.26	-4017.41	832.43	1669780.79	14275344.19	39°18'41.144"N	80°53'45.739"W	4102.75	168.294	2.65	0.17	2.64	



Actual Wellpath Report

Trust Unit 1H AWP Proj: 17063'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Ritchie County, WV	Well	Trust Unit 1H
Field	Ritchie	Wellbore	Trust Unit 1H AWB
Facility	Mulvay Pad		

WELLPATH DATA (190 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
10654.00	89.820	163.870	6417.94	4168.24	-4107.90	861.31	1669809.65	14275253.73	39°18'40.249"N	80°53'45.900"W	4197.23	168.158	3.30	-0.06	3.29	
10750.00	90.220	167.180	6417.90	4263.98	-4200.84	885.30	1669833.64	14275160.83	39°18'39.330"N	80°53'45.597"W	4293.12	168.099	3.47	0.42	3.45	
10844.00	90.030	172.100	6417.70	4356.98	-4293.28	902.20	1669850.53	14275068.42	39°18'38.417"N	80°53'45.383"W	4387.05	168.132	5.24	-0.20	5.23	
10939.00	91.170	168.570	6416.70	4451.03	-4386.60	919.77	1669888.09	14274975.15	39°18'37.494"N	80°53'45.161"W	4481.99	168.158	5.94	1.20	-5.82	
11033.00	90.280	161.020	6415.51	4544.91	-4476.82	945.99	1669894.30	14274884.96	39°18'36.602"N	80°53'44.828"W	4575.68	168.068	5.98	-0.95	-5.90	
11128.00	89.970	160.070	6415.30	4639.89	-4566.40	977.63	1669925.93	14274795.42	39°18'35.716"N	80°53'44.427"W	4669.87	167.916	1.05	-0.33	-1.00	
11223.00	90.060	159.990	6415.28	4734.87	-4655.68	1010.08	1669958.37	14274706.17	39°18'34.833"N	80°53'44.016"W	4763.99	167.759	0.13	0.09	-0.08	
11317.00	90.030	159.570	6415.21	4828.83	-4743.89	1042.57	1669990.84	14274618.00	39°18'33.961"N	80°53'43.604"W	4857.10	167.605	0.45	-0.03	-0.45	
11412.00	90.000	160.830	6415.18	4923.80	-4833.27	1074.74	1670023.01	14274528.65	39°18'33.077"N	80°53'43.196"W	4951.32	167.463	1.33	-0.03	-1.33	
11507.00	89.940	160.910	6415.23	5018.80	-4923.03	1105.88	1670054.13	14274438.93	39°18'32.190"N	80°53'42.801"W	5045.71	167.340	0.11	-0.06	0.08	
11602.00	90.000	159.140	6415.28	5113.77	-5012.31	1138.33	1670086.57	14274349.69	39°18'31.307"N	80°53'42.389"W	5139.94	167.205	1.86	0.06	-1.86	
11697.00	89.880	159.070	6415.38	5208.69	-5100.41	1204.46	1670120.44	14274260.97	39°18'30.430"N	80°53'41.960"W	5234.01	167.058	0.15	-0.13	-0.07	
11792.00	89.940	161.240	6415.53	5303.66	-5190.41	1264.50	1670152.67	14274171.65	39°18'29.546"N	80°53'41.551"W	5328.33	166.935	2.29	0.06	2.28	
11887.00	89.850	162.230	6415.70	5398.66	-5280.62	1294.23	1670182.43	14274081.48	39°18'28.654"N	80°53'41.173"W	5422.94	166.844	1.05	-0.09	1.04	
11982.00	90.150	160.610	6415.70	5493.66	-5370.67	1264.50	1670212.69	14273991.47	39°18'27.764"N	80°53'40.790"W	5517.52	166.751	1.73	0.32	-1.71	
12077.00	90.000	158.180	6415.58	5588.59	-5459.59	1297.93	1670246.11	14273902.59	39°18'26.885"N	80°53'40.366"W	5611.75	166.627	2.56	-0.16	-2.56	
12173.00	89.880	158.890	6415.68	5684.47	-5548.93	1333.06	1670281.22	14273813.28	39°18'26.001"N	80°53'39.920"W	5706.81	166.491	0.75	-0.13	0.74	
12268.00	89.690	161.270	6416.04	5779.43	-5638.24	1385.43	1670313.57	14273724.01	39°18'25.118"N	80°53'39.510"W	5801.21	166.387	2.51	-0.20	2.51	
12363.00	89.880	161.490	6416.39	5874.43	-5728.26	1395.76	1670343.89	14273634.02	39°18'24.228"N	80°53'39.125"W	5895.86	166.306	0.31	0.20	0.23	
12457.00	89.820	159.970	6416.64	5968.42	-5816.99	1426.78	1670374.90	14273545.32	39°18'23.351"N	80°53'38.732"W	5989.42	166.219	1.62	-0.06	-1.62	
12552.00	89.820	160.180	6416.94	6063.40	-5906.31	1459.15	1670407.26	14273456.05	39°18'22.468"N	80°53'38.321"W	6083.88	166.123	0.22	0.00	0.22	
12647.00	89.850	159.300	6417.21	6158.35	-5995.43	1492.05	1670440.15	14273366.96	39°18'21.586"N	80°53'37.904"W	6178.30	166.025	0.93	0.03	-0.93	
12741.00	89.850	159.980	6417.46	6252.28	-6083.27	1525.52	1670473.60	14273279.16	39°18'20.718"N	80°53'37.480"W	6271.63	165.922	0.34	0.00	-0.34	
12837.00	89.940	160.450	6417.63	6348.23	-6173.31	1558.80	1670506.87	14273189.15	39°18'19.827"N	80°53'37.058"W	6367.07	165.829	1.53	0.09	1.53	
12932.00	89.850	163.850	6417.81	6443.21	-6263.72	1587.92	1670536.98	14273098.77	39°18'18.933"N	80°53'36.688"W	6461.87	165.775	3.58	-0.09	3.58	
13027.00	89.850	163.380	6418.05	6538.14	-6354.86	1614.72	1670562.76	14273007.67	39°18'18.032"N	80°53'36.349"W	6556.80	165.743	0.49	0.00	-0.49	
13121.00	89.720	162.500	6418.41	6632.11	-6444.73	1642.29	1670590.33	14272917.84	39°18'17.144"N	80°53'35.999"W	6650.69	165.704	0.95	-0.14	-0.94	
13217.00	89.720	159.890	6418.88	6728.10	-6535.59	1673.24	1670621.26	14272827.01	39°18'16.245"N	80°53'35.607"W	6746.38	165.640	2.72	0.00	-2.72	
13312.00	89.820	158.440	6419.26	6823.02	-6624.38	1707.02	1670655.03	14272738.26	39°18'15.367"N	80°53'35.179"W	6840.78	165.550	1.53	0.11	-1.53	
13407.00	89.750	156.330	6419.61	6917.78	-6712.07	1743.55	1670689.55	14272650.61	39°18'14.500"N	80°53'34.715"W	6934.83	165.438	2.22	-0.07	-2.22	



Actual Wellpath Report

Trust Unit 1H AWP Proj: 17063'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Ritchie County, WV	Well	Trust Unit 1H
Field	Ritchie	Wellbore	Trust Unit 1H AWB
Facility	Mulvey Pad		

WELLPATH DATA (190 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
13501.00	89.750	156.690	6420.02	7011.43	-6798.28	1781.02	1670729.00	14272564.44	39°18'13.648"N	80°53'34.240"W	7027.70	165.320	0.38	0.00	0.38	
13596.00	89.600	159.100	6420.56	7106.24	-6886.29	1816.77	1670784.73	14272476.46	39°18'12.778"N	80°53'33.787"W	7121.91	165.221	2.54	-0.16	2.54	
13690.00	89.660	162.450	6421.17	7200.22	-6975.03	1847.71	1670795.67	14272387.75	39°18'11.900"N	80°53'33.394"W	7215.61	165.163	3.56	0.06	3.56	
13785.00	89.780	164.470	6421.64	7295.16	-7066.09	1874.76	1670822.70	14272296.73	39°18'11.000"N	80°53'33.052"W	7310.57	165.141	2.13	0.13	2.13	
13880.00	89.750	164.050	6422.02	7390.04	-7157.53	1900.53	1670848.46	14272205.33	39°18'10.096"N	80°53'32.725"W	7405.55	165.129	0.44	-0.03	-0.44	
13975.00	89.660	162.450	6422.51	7484.99	-7248.49	1927.90	1670875.83	14272114.40	39°18'09.196"N	80°53'32.378"W	7500.50	165.106	1.69	-0.09	-1.69	
14070.00	89.720	162.970	6423.03	7579.96	-7339.20	1956.14	1670904.05	14272023.73	39°18'08.299"N	80°53'32.021"W	7595.41	165.076	0.55	0.06	0.55	
14165.00	89.910	164.190	6423.33	7674.89	-7430.32	1982.99	1670930.89	14271932.64	39°18'07.398"N	80°53'31.680"W	7690.38	165.057	1.30	0.20	1.28	
14260.00	89.850	164.090	6423.53	7769.78	-7521.71	2008.95	1670956.84	14271841.30	39°18'06.495"N	80°53'31.351"W	7785.37	165.046	0.12	-0.06	-0.11	
14355.00	89.850	163.250	6423.78	7864.71	-7612.87	2035.67	1670983.54	14271750.17	39°18'05.594"N	80°53'31.013"W	7880.34	165.029	0.88	0.00	-0.88	
14450.00	89.880	161.160	6424.01	7959.69	-7703.32	2064.70	1671012.56	14271659.75	39°18'04.699"N	80°53'30.645"W	7975.22	164.996	2.20	0.03	-2.20	
14544.00	89.720	160.250	6424.33	8053.68	-7792.04	2095.76	1671043.61	14271571.07	39°18'03.822"N	80°53'30.251"W	8068.96	164.946	0.98	-0.17	-0.97	
14639.00	89.660	161.130	6424.85	8148.67	-7881.69	2127.17	1671075.01	14271481.45	39°18'02.936"N	80°53'29.853"W	8163.70	164.896	0.93	-0.06	0.93	
14734.00	89.780	163.610	6425.31	8243.65	-7972.22	2155.94	1671103.77	14271390.96	39°18'02.040"N	80°53'29.489"W	8258.60	164.867	2.61	0.13	2.61	
14830.00	89.850	166.660	6425.62	8339.44	-8065.00	2180.57	1671128.39	14271298.22	39°18'01.123"N	80°53'29.177"W	8354.58	164.870	3.18	0.07	3.18	
14924.00	90.000	167.980	6425.75	8432.94	-8156.70	2201.20	1671149.01	14271206.55	39°18'00.217"N	80°53'28.916"W	8448.50	164.898	1.41	0.16	1.40	
15019.00	89.820	163.690	6425.90	8527.64	-8248.79	2224.44	1671172.24	14271114.50	39°17'59.306"N	80°53'28.621"W	8543.46	164.908	4.52	-0.19	-4.52	
15114.00	89.720	159.320	6426.28	8622.61	-8338.87	2254.57	1671202.36	14271024.46	39°17'58.415"N	80°53'28.240"W	8638.27	164.871	4.60	-0.11	-4.60	
15209.00	89.690	156.150	6426.77	8717.40	-8426.77	2290.56	1671238.33	14270936.59	39°17'57.546"N	80°53'27.783"W	8732.53	164.793	3.34	-0.03	-3.34	
15303.00	89.910	157.690	6427.09	8811.11	-8513.24	2327.41	1671275.17	14270850.16	39°17'56.691"N	80°53'27.316"W	8825.65	164.710	1.65	0.23	1.64	
15398.00	89.880	158.980	6427.27	8905.97	-8601.53	2362.48	1671310.23	14270761.90	39°17'55.818"N	80°53'26.871"W	8920.07	164.642	1.36	-0.03	1.36	
15493.00	89.750	159.470	6427.57	9000.90	-8690.35	2396.17	1671343.91	14270673.12	39°17'54.940"N	80°53'26.444"W	9014.65	164.585	0.53	-0.14	0.52	
15588.00	89.780	160.840	6427.96	9095.87	-8779.71	2428.42	1671376.14	14270583.80	39°17'54.056"N	80°53'26.035"W	9109.36	164.539	1.44	0.03	1.44	
15683.00	89.690	161.460	6428.40	9190.87	-8869.61	2459.12	1671406.83	14270493.93	39°17'53.167"N	80°53'25.646"W	9204.20	164.504	0.66	-0.09	0.65	
15777.00	89.720	160.860	6428.89	9284.87	-8958.57	2489.47	1671437.17	14270405.00	39°17'52.288"N	80°53'25.261"W	9298.04	164.470	0.64	0.03	-0.64	
15873.00	89.750	157.590	6429.33	9380.78	-9048.32	2523.52	1671471.20	14270315.30	39°17'51.400"N	80°53'24.829"W	9393.63	164.417	3.41	0.03	-3.41	
15967.00	89.780	157.710	6429.72	9474.58	-9135.26	2559.26	1671506.93	14270228.39	39°17'50.541"N	80°53'24.376"W	9486.98	164.350	0.13	0.03	0.13	
16062.00	89.820	161.420	6430.05	9569.51	-9224.26	2592.43	1671540.08	14270139.42	39°17'49.660"N	80°53'23.956"W	9581.63	164.302	3.91	0.04	3.91	
16157.00	89.780	163.820	6430.38	9664.48	-9314.92	2620.80	1671588.44	14270048.80	39°17'48.764"N	80°53'23.596"W	9676.58	164.286	2.53	-0.04	2.53	
16252.00	89.820	166.820	6430.71	9759.25	-9406.81	2644.87	1671592.51	14269956.95	39°17'47.856"N	80°53'23.291"W	9771.56	164.296	3.16	0.04	3.16	



Actual Wellpath Report

Trust Unit 1H AWP Proj: 17063'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Ritchie County, WV	Well	Trust Unit 1H
Field	Ritchie	Wellbore	Trust Unit 1H AWB
Facility	Mulvay Pad		

WELLPATH DATA (190 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
16347.00	89.720	168.140	6431.09	9853.72	-9499.54	2665.47	1671613.09	14269864.25	39°17'46.939"N	80°53'23.031"W	9866.41	164.326	1.39	-0.11	1.39	
16442.00	89.780	168.110	6431.51	9948.07	-9592.51	2685.01	1671632.63	14269771.32	39°17'46.020"N	80°53'22.784"W	9961.20	164.363	0.07	0.06	-0.03	
16536.00	89.480	165.200	6432.12	10041.66	-9683.96	2706.71	1671654.32	14269679.91	39°17'45.116"N	80°53'22.509"W	10055.11	164.384	3.11	-0.32	-3.10	
16631.00	89.630	161.390	6432.85	10136.59	-9774.93	2734.01	1671681.61	14269588.97	39°17'44.216"N	80°53'22.163"W	10150.08	164.374	4.01	0.16	-4.01	
16726.00	89.450	158.900	6433.62	10231.56	-9864.27	2766.27	1671713.86	14269499.67	39°17'43.333"N	80°53'21.754"W	10244.81	164.335	2.63	-0.19	-2.62	
16820.00	89.570	156.730	6434.42	10325.36	-9951.31	2801.76	1671749.33	14269412.67	39°17'42.472"N	80°53'21.304"W	10338.20	164.276	2.31	0.13	-2.31	
16915.00	89.420	156.750	6435.26	10420.04	-10038.58	2839.28	1671786.83	14269325.43	39°17'41.609"N	80°53'20.828"W	10432.38	164.207	0.16	-0.16	0.02	
17008.00	89.320	155.320	6436.28	10512.62	-10123.56	2877.05	1671824.59	14269240.49	39°17'40.769"N	80°53'20.349"W	10524.44	164.135	1.54	-0.11	-1.54	
17038.00	89.540	155.450	6436.58	10542.46	-10150.83	2889.54	1671837.08	14269213.23	39°17'40.499"N	80°53'20.191"W	10554.09	164.110	0.85	0.73	0.43	
17063.00	89.540	155.450	6436.78	10567.32	-10173.57	2899.93	1671847.46	14269190.50	39°17'40.274"N	80°53'20.059"W	10578.80	164.090	0.00	0.00	0.00	Projected MD at TD: 17063'

HOLE & CASING SECTIONS - Ref Wellbore: Trust Unit 1H AWB Ref Wellpath: Trust Unit 1H AWP Proj: 17063'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]
20in Conductor	24.50	104.50	80.00	24.50	104.50	0.00	0.00	0.00	0.00
17.5in Open Hole	104.50	563.00	458.50	104.50	562.99	-0.13	-2.33	0.05	1.08
13.375in Casing Surface	24.50	563.00	538.50	24.50	562.99	0.00	-2.33	0.00	1.08
12.25in Open Hole	563.00	2592.50	2029.50	562.99	2586.89	-2.33	-19.90	1.08	-84.26
9.625in Casing Intermediate	24.50	2592.50	2568.00	24.50	2586.89	0.00	-19.90	0.00	-84.26
8.75in Open Hole	2592.50	6323.50	3731.00	2586.89	6226.62	-19.90	-53.90	-84.26	-485.71
8.5in Open Hole	6323.50	17063.00	10739.50	6226.62	6436.78	-53.90	-10173.57	-485.71	2899.93
5.5in Casing Production	24.50	17063.00	17038.50	24.50	6436.78	0.00	-10173.57	0.00	2899.93

04/05/2019



Actual Wellpath Report

Trust Unit 1H AWP Proj: 17063'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #08
ANTERO RESOURCES CORPORATION	Well	Trust Unit 1H
Area	Wellbore	Trust Unit 1H AWB
Field		
Facility		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Trust Unit 1H POE - Rev-1	6380.00	-281.99	-407.45	1668541.41	14279078.11	39°19'18.077"N	80°54'01.988"W	point
Trust Unit 1H BHL - Rev-2	6403.00	-10183.08	2891.48	1671839.01	14269180.99	39°17'40.180"N	80°53'20.167"W	point
Trust Unit 1H LP - Rev-1	6403.00	-421.23	-362.20	1668586.64	14278938.92	39°19'16.701"N	80°54'01.415"W	point

WELLPATH COMPOSITION - Ref Wellbore: Trust Unit 1H AWB Ref Wellpath: Trust Unit 1H AWP Proj: 17063'

Start MID [ft]	End MID [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	6178.50	Gyrodata standard - Drop gyro or Multi-shot	04. Gyrodata MS Gyro <8-3/4"> (100'-6169')	Trust Unit 1H AWB
6178.50	6323.50	ISCWSA MWD, Rev. 4 (Standard)	03. Directional ONE MWD <8-3/4"> (6169')(6226'-6314')	Trust Unit 1H AWB
6323.50	17038.00	BHI AutoTrak Curve (Short)	05. BHI AT Curve <8-1/2"> (6323.5')(6385'-17038')	Trust Unit 1H AWB
17038.00	17063.00	Blind Drilling (std)	Projection to bit	Trust Unit 1H AWB



Actual Wellpath Report

Trust Unit 1H AWP Proj: 17063'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Ritchie County, WV	Well	Trust Unit 1H
Field	Ritchie	Wellbore	Trust Unit 1H AWB
Facility	Mulway Pad		

COMMENTS
<p>Wellpath general comments API: 47-085-10301-0000 BHI Job #: 8633622 Rig: Frontier 22 Duration: 07/01/2017-07/03/2017 Gyrodata MS Gyro <8-3/4"> (100'-6169') Directional ONE MWD <8-3/4"> (6169')(6226'-6314') BHI AT Curve <8-1/2"> (6323.5')(6385'-17038') Middlesex: 6292' MD Burket: 6465' MD Tully: 6536' MD Marcellus POE: 6612' MD Projected MD at TD: 17063'</p>