

**ANTERO RESOURCES CORPORATION**  
 Location: Ritchie County, WV  
 Field: Ritchie  
 Facility: Mulvay Pad  
 Slot: Slot #05  
 Well: Stronsnider Unit 2H  
 Wellbore: Stronsnider Unit 2H PWB



API: 47-085-10202-0000  
 BHI Job #: 8609865  
 Rig: Frontier 22  
 Duration: 06/15/2017-06/17/2017



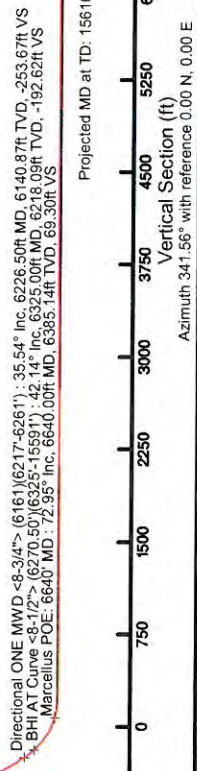
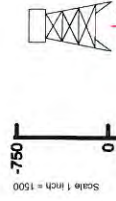
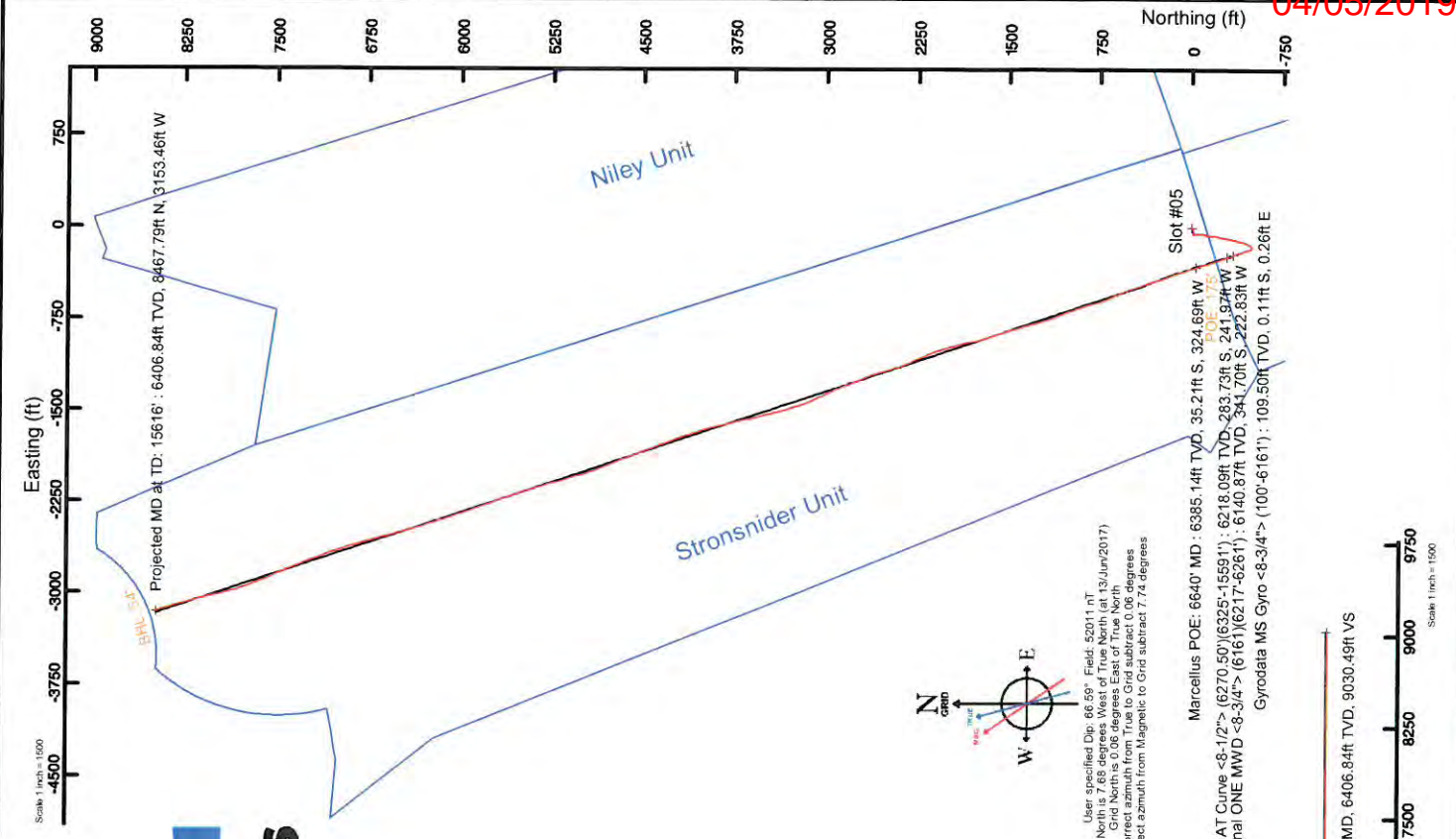
Plot reference wellpath is Stronsnider Unit 2H PWB Rev-A.0		Grid System: NAD27 UTM Zone 17 North, US Feet	
True vertical depths are referenced to Frontier 22 (RKB)		* Wellpath was transformed from a different geoidetic datum	
Measured depths are referenced to Frontier 22 (RKB)		North Reference: Grid north	
Frontier 22 (RKB) to Mean Sea Level: 1023.5 feet		Scale: True distance	
Mean Sea Level to Mud line (At Slot: Slot #05): -1027 feet		Depths are in feet	
Coordinates are in feet referenced to Slot		Created by: dslsant on 2017-06-29	
		Database: WA_MPL_EnterMidUS_Defin	

Gyrodatta MS Gyro <-8.3/4"> (100°-6'16") : 0.38° Inc, 109.50ft MD, 109.50ft TVD, -0.18ft VS

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Mulvay Pad	1666944.745	39°19'21.050"N	80°53'56.850"W
Slot #05	9.10	1666942.378	14279388.296
Comment	Stronsnider Unit 2H		
Frontier 22 (RKB) to Mud line (At Slot: Slot #05)			24.6ft
Mean Sea Level to Mud line (At Slot: Slot #05)			-1027ft
Frontier 22 (RKB) to Mean Sea Level			1053.5ft

Well Profile Data					
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)
Tie On	6270.50	37.470	342.180	6176.24	-316.78
Proj. to Bottom	6356.50	44.000	342.180	6241.37	-283.38
POE	6626.89	73.066	342.180	6381.00	-46.17
Landing Pl.	6783.68	90.001	342.180	6404.00	10.94
Work back to Line	7010.58	89.999	337.634	6404.00	313.97
On Azimuth	7206.83	90.000	341.559	6404.00	497.88
BHL	15605.83	90.000	341.559	6404.00	6465.61
					-3168.23
					0.00
					9033.09

Well Data		
Slot	Well	Wellpath
Slot #05	Stronsnider Unit 2H	Stronsnider Unit 2H AWP Proj. 15616
Slot #05	Stronsnider Unit 2H	Stronsnider Unit 2H PWB Rev-A.0





# Actual Wellpath Report

Stronsneider Unit 2H AWP Proj: 15616'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Mulvay Pad
Slot	Slot #05
Well	Stronsneider Unit 2H
Wellbore	Stronsneider Unit 2H AWB

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999601
Convergence at slot	0.06° East
Software System	WellArchitect® 5.0
User	Delaset
Report Generated	29/Jun/2017 at 10:56
Database/Source file	WA_MPL_EasternUS_Defn/Stronsneider_Unit_2H_AWP_Proj_15616_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	9.10	-2.37	1668942.38	14279388.30	39°19'21.140"N	80°53'56.880"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
Horizontal Reference Pt	Slot
Vertical Reference Pt	Frontier 22 (RKB)
MD Reference Pt	Frontier 22 (RKB)
Field Vertical Reference	Mean Sea Level
	Frontier 22 (RKB) to Facility Vertical Datum
	Frontier 22 (RKB) to Mean Sea Level
	Frontier 22 (RKB) to Mud Line at Slot (Slot #05)
	Section Origin
	Section Azimuth
	24.50ft
	1053.50ft
	24.50ft
	N 0.00, E 0.00 ft
	341.56°



# Actual Wellpath Report

Stronsnider Unit 2H AWP Proj: 15616'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #05
ANTERO RESOURCES CORPORATION	Stronsnider Unit 2H
Ritchie County, WV	Stronsnider Unit 2H AWP
Ritchie	
Mulway Pad	

## WELLPATH DATA (173 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 (ft)	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
0.001	0.000	112.280	0.00	0.00	0.00	0.00	1668942.38	14279388.30	39°19'21.140"N	80°53'56.880"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	112.280	24.50	0.00	0.00	0.00	1668942.38	14279388.30	39°19'21.140"N	80°53'56.880"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.380	112.280	109.50	-0.18	-0.11	0.26	1668942.64	14279388.19	39°19'21.139"N	80°53'56.877"W	0.28	112.280	0.45	0.45	132.09	Gyrodata MS Gyro <8-3/4"> (100'-6161')
209.50	0.440	108.480	209.50	-0.63	-0.35	0.93	1668943.31	14279387.94	39°19'21.136"N	80°53'56.868"W	1.00	110.817	0.07	0.06	-3.80	
309.50	0.500	117.650	309.49	-1.18	-0.68	1.68	1668944.06	14279387.62	39°19'21.133"N	80°53'56.859"W	1.81	111.962	0.10	0.06	9.17	
409.50	0.610	137.580	409.49	-1.98	-1.27	2.43	1668944.80	14279387.02	39°19'21.127"N	80°53'56.849"W	2.74	117.685	0.22	0.11	19.93	
509.50	0.530	140.810	509.48	-2.90	-2.03	3.08	1668945.46	14279386.27	39°19'21.120"N	80°53'56.841"W	3.69	123.333	0.09	-0.08	3.23	
609.50	0.880	207.110	609.48	-3.87	-3.07	3.02	1668945.40	14279385.23	39°19'21.110"N	80°53'56.842"W	4.31	135.430	0.82	0.35	66.30	
709.50	1.950	233.510	709.45	-4.93	-4.76	1.30	1668943.68	14279383.54	39°19'21.093"N	80°53'56.863"W	4.94	164.689	1.23	1.07	26.40	
809.50	2.830	242.060	809.36	-5.87	-6.93	-2.24	1668940.13	14279381.37	39°19'21.072"N	80°53'56.909"W	7.29	197.946	0.95	0.88	8.55	
909.50	3.680	254.770	909.20	-6.09	-8.93	-7.52	1668934.86	14279379.37	39°19'21.052"N	80°53'56.976"W	11.68	220.107	1.11	0.85	12.71	
1009.50	4.510	265.220	1108.63	-3.21	-10.88	-22.47	1668919.92	14279377.42	39°19'21.033"N	80°53'57.166"W	24.96	244.168	0.09	-0.06	0.80	
1209.50	4.540	264.530	1208.31	-1.39	-11.58	-30.32	1668912.07	14279376.72	39°19'21.026"N	80°53'57.266"W	32.46	249.098	0.06	0.03	-0.69	
1309.50	4.400	268.520	1308.01	0.61	-12.06	-38.10	1668904.29	14279376.24	39°19'21.021"N	80°53'57.365"W	39.96	252.438	0.34	-0.14	3.99	
1409.50	3.950	271.490	1407.74	2.91	-12.07	-45.38	1668897.02	14279376.23	39°19'21.021"N	80°53'57.458"W	46.95	255.108	0.50	-0.45	2.97	
1509.50	3.040	277.240	1507.56	5.23	-11.64	-51.45	1668890.95	14279376.66	39°19'21.025"N	80°53'57.535"W	52.75	257.249	0.97	-0.91	5.75	
1609.50	1.190	326.870	1607.49	7.38	-10.44	-54.65	1668887.75	14279377.86	39°19'21.037"N	80°53'57.576"W	55.64	259.185	2.44	-1.85	49.63	
1709.50	1.270	87.780	1707.48	8.08	-9.53	-54.11	1668888.29	14279378.77	39°19'21.046"N	80°53'57.569"W	54.94	260.014	2.14	0.08	120.91	
1809.50	1.550	105.070	1807.45	7.02	-9.84	-51.70	1668890.70	14279378.46	39°19'21.043"N	80°53'57.538"W	52.62	259.228	0.51	0.28	17.29	
1909.50	1.850	128.120	1907.41	4.93	-11.18	-49.12	1668893.28	14279377.12	39°19'21.030"N	80°53'57.505"W	50.38	257.173	0.74	0.30	23.05	
2009.50	2.130	138.140	2007.35	1.88	-13.56	-46.61	1668895.79	14279374.74	39°19'21.006"N	80°53'57.473"W	48.54	253.774	0.45	0.28	10.02	
2209.50	0.840	274.480	2207.28	-2.35	-17.30	-44.47	1668897.84	14279372.15	39°19'20.981"N	80°53'57.447"W	47.39	250.070	0.53	-0.46	7.75	
2309.50	1.210	297.990	2307.26	-1.30	-16.75	-46.13	1668896.27	14279371.55	39°19'20.969"N	80°53'57.446"W	47.71	248.737	2.29	-0.83	128.59	
2409.50	1.370	305.720	2407.24	0.43	-15.56	-48.03	1668894.36	14279372.74	39°19'20.975"N	80°53'57.467"W	49.08	250.042	0.55	0.37	23.51	
2509.50	1.630	310.920	2507.20	2.63	-13.93	-50.08	1668892.32	14279374.37	39°19'20.987"N	80°53'57.491"W	50.49	252.053	0.24	0.16	7.73	
2609.50	1.760	315.640	2607.16	5.23	-11.90	-52.23	1668890.17	14279376.40	39°19'21.023"N	80°53'57.517"W	51.98	254.457	0.29	0.26	5.20	
2709.50	1.780	317.670	2707.11	8.03	-9.65	-54.35	1668888.05	14279378.65	39°19'21.045"N	80°53'57.572"W	55.20	259.928	0.07	0.02	2.03	
2809.50	3.320	182.040	2807.06	6.74	-11.40	-55.50	1668886.90	14279376.90	39°19'21.028"N	80°53'57.586"W	56.65	258.392	4.76	1.54	-135.63	



# Actual Wellpath Report

Stroonsider Unit 2H AWP Proj: 15616'  
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04/05/2019

REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Mulvey Pad
Slot	Slot #05
Well	Stroonsider Unit 2H
Wellbore	Stroonsider Unit 2H AWB

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
2909.50	6.260	167.180	2906.70	-1.40	-19.61	-54.39	1668888.01	14279368.69	39°19'20.947"N	80°53'57.572"W	57.82	250.172	3.17	2.94	-14.86	
3009.50	7.480	170.290	3005.99	-13.26	-31.34	-52.08	1668880.32	14279366.96	39°19'20.831"N	80°53'57.543"W	60.79	238.959	1.28	1.22	3.11	
3109.50	8.570	179.280	3105.01	-26.79	-45.21	-50.89	1668891.51	14279343.10	39°19'20.694"N	80°53'57.528"W	68.07	228.382	1.66	1.09	8.99	
3209.50	8.920	180.540	3203.85	-41.22	-60.41	-50.87	1668891.53	14279327.91	39°19'20.543"N	80°53'57.528"W	78.98	220.098	0.40	0.35	1.26	
3309.50	7.980	176.420	3302.76	-55.26	-75.09	-50.51	1668891.89	14279313.23	39°19'20.398"N	80°53'57.524"W	90.50	213.925	1.12	-0.94	-4.12	
3409.50	8.060	189.800	3401.79	-68.15	-88.93	-51.27	1668891.13	14279299.40	39°19'20.282"N	80°53'57.534"W	102.65	209.963	1.86	0.08	13.38	
3509.50	8.530	192.820	3500.74	-80.66	-103.07	-54.11	1668888.28	14279285.27	39°19'20.122"N	80°53'57.570"W	116.41	207.697	0.64	0.47	3.02	
3609.50	9.580	197.250	3599.50	-93.76	-118.25	-58.22	1668884.18	14279270.09	39°19'19.972"N	80°53'57.570"W	131.81	206.213	1.26	1.05	4.43	
3709.50	10.500	192.320	3697.97	-108.35	-135.10	-62.63	1668879.77	14279253.25	39°19'19.805"N	80°53'57.710"W	148.91	204.872	1.26	0.92	-4.93	
3809.50	11.810	182.700	3796.08	-125.73	-154.23	-65.06	1668877.34	14279234.13	39°19'19.616"N	80°53'57.710"W	167.39	202.872	2.27	1.31	-9.62	
3909.50	11.640	180.680	3894.00	-144.81	-174.54	-65.66	1668876.74	14279213.83	39°19'19.416"N	80°53'57.710"W	186.48	200.616	0.44	-0.17	-2.02	
4009.50	10.080	183.850	3992.21	-162.44	-193.36	-66.37	1668876.04	14279195.02	39°19'19.230"N	80°53'57.727"W	204.43	198.944	1.67	-1.56	3.17	
4109.50	9.070	197.760	4090.82	-176.90	-209.60	-69.36	1668873.05	14279178.78	39°19'19.089"N	80°53'57.766"W	220.77	198.311	2.52	-1.01	13.91	
4209.50	8.390	194.570	4189.67	-189.37	-224.16	-73.60	1668868.81	14279164.22	39°19'18.925"N	80°53'57.820"W	235.94	198.177	0.83	-0.68	-3.19	
4309.50	8.620	193.250	4288.57	-201.87	-238.52	-77.15	1668865.26	14279149.87	39°19'18.783"N	80°53'57.865"W	250.69	197.925	0.30	0.23	-1.32	
4409.50	9.340	189.200	4387.34	-215.43	-253.82	-80.17	1668862.24	14279134.57	39°19'18.632"N	80°53'57.904"W	266.18	197.528	0.96	0.72	-4.05	
4509.50	9.650	187.870	4485.97	-230.14	-270.14	-82.61	1668859.80	14279118.27	39°19'18.471"N	80°53'57.935"W	282.49	197.005	0.38	0.31	-1.33	
4609.50	10.540	190.410	4584.42	-245.66	-287.44	-85.41	1668857.00	14279100.98	39°19'18.300"N	80°53'57.971"W	299.86	196.550	0.99	0.89	2.54	
4709.50	10.380	192.210	4682.76	-261.42	-305.24	-88.97	1668853.44	14279083.18	39°19'18.124"N	80°53'58.016"W	317.94	196.251	0.36	-0.16	1.90	
4809.50	10.270	186.370	4781.14	-277.26	-322.90	-91.87	1668850.55	14279065.52	39°19'17.950"N	80°53'58.054"W	335.72	195.881	1.05	-0.11	-5.84	
4909.50	10.510	191.660	4879.51	-293.25	-340.69	-94.70	1668847.72	14279047.74	39°19'17.774"N	80°53'58.090"W	353.61	195.534	0.98	0.24	5.29	
5009.50	11.850	198.110	4977.61	-309.39	-359.39	-99.73	1668842.68	14279029.05	39°19'17.589"N	80°53'58.154"W	372.97	195.510	1.83	1.34	6.45	
5109.50	12.400	194.720	5075.38	-326.62	-379.53	-110.13	1668836.30	14279008.92	39°19'17.390"N	80°53'58.230"W	393.96	195.556	0.90	0.55	-3.39	
5209.50	12.070	189.600	5173.11	-344.84	-400.22	-110.13	1668832.30	14278988.23	39°19'17.186"N	80°53'58.287"W	415.10	195.385	1.13	-0.33	-5.12	
5309.50	11.870	198.400	5270.95	-362.30	-420.29	-115.12	1668827.31	14278968.17	39°19'16.987"N	80°53'58.361"W	435.77	195.317	1.83	-0.20	8.80	
5409.50	12.320	204.800	5368.73	-378.30	-439.74	-122.84	1668819.59	14278948.74	39°19'16.795"N	80°53'58.449"W	456.57	195.607	1.41	0.45	6.40	
5509.50	11.170	202.400	5466.64	-393.40	-458.38	-131.00	1668811.43	14278930.10	39°19'16.611"N	80°53'58.553"W	476.73	195.950	1.25	-1.15	-2.40	
5609.50	10.290	199.310	5564.89	-407.80	-475.76	-137.65	1668804.78	14278912.72	39°19'16.439"N	80°53'58.638"W	495.27	196.136	1.05	-0.88	-3.09	
5709.50	8.740	226.540	5663.56	-418.08	-489.43	-146.12	1668796.32	14278899.07	39°19'16.304"N	80°53'58.746"W	510.77	196.623	4.71	-1.55	27.23	
5809.50	9.690	290.320	5762.50	-416.02	-491.73	-159.56	1668782.88	14278896.76	39°19'16.282"N	80°53'58.917"W	516.97	197.977	9.74	0.95	63.78	



# Actual Wellpath Report

Stronsnider Unit 2H AWP Proj: 15616'  
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04/05/2019

REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Mulvey Pad
Slot	Slot #05
Well	Stronsnider Unit 2H
Wellbore	Stronsnider Unit 2H AWB

WELLPATH DATA (173 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)	Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
5909.50	14.790	332.860	6860.38	-398.08	-477.42	-173.31	1668759.14	14278911.07	39°19'16.423"N	80°53'59.092"W	507.90	199.952	10.02	5.10	42.54	
6009.50	25.780	340.360	6954.05	-363.61	-445.47	-186.48	1668755.97	14278943.00	39°19'16.739"N	80°53'59.259"W	482.93	202.715	11.27	10.99	7.50	
6109.50	30.480	340.420	6042.21	-316.49	-401.07	-202.30	1668740.16	14278987.38	39°19'17.178"N	80°53'59.460"W	449.21	206.766	4.70	4.70	0.06	
6170.50	32.080	340.510	6094.35	-284.82	-371.23	-212.89	1668729.57	14279017.22	39°19'17.473"N	80°53'59.594"W	427.94	209.834	2.62	2.62	0.15	
6226.50	35.540	342.190	6140.87	-253.67	-341.70	-222.83	1668719.63	14279046.73	39°19'17.765"N	80°53'59.720"W	407.94	213.110	6.40	6.18	3.00	Directional ONE MWD <-8.3/4"> (6161)(6217-6261)
6270.50	37.470	342.180	6176.24	-227.50	-316.78	-230.84	1668711.63	14279071.64	39°19'18.012"N	80°53'59.822"W	391.97	216.081	4.39	4.39	-0.02	
6317.00†	41.453	340.883	6212.13	-197.95	-288.76	-240.22	1668702.26	14279099.65	39°19'18.289"N	80°53'59.941"W	375.62	219.756	8.75	8.57	-2.79	Middlesex: 6317 MD
6325.00	42.140	340.680	6218.09	-192.62	-283.73	-241.97	1668700.50	14279104.68	39°19'18.338"N	80°53'59.963"W	372.90	220.458	8.75	8.58	-2.53	BHI AT Curve <-8.1/2"> (6270.50)(6325-15591)
6390.00	47.100	339.480	6264.35	-147.00	-240.82	-257.54	1668684.94	14279147.57	39°19'18.763"N	80°54'00.160"W	352.60	226.921	7.74	7.63	-1.85	
6437.00	52.110	340.200	6294.79	-111.23	-207.23	-269.86	1668672.62	14279181.15	39°19'19.095"N	80°54'00.317"W	340.25	232.479	10.72	10.66	1.53	
6485.00	58.180	342.710	6322.22	-71.86	-169.90	-282.35	1668660.14	14279218.46	39°19'19.464"N	80°54'00.475"W	329.53	238.964	13.35	12.65	5.23	Burket: 6485 MD
6532.00	63.230	343.460	6345.21	-30.90	-130.70	-294.27	1668648.23	14279257.55	39°19'19.851"N	80°54'00.626"W	321.99	246.052	10.83	10.74	1.60	
6561.00†	66.286	342.920	6357.67	-4.69	-105.59	-301.86	1668640.64	14279282.75	39°19'20.100"N	80°54'00.722"W	319.79	250.720	10.67	10.54	-1.86	Tully: 6561 MD
6580.00	68.290	342.580	6364.91	12.84	-88.85	-307.05	1668635.45	14279299.48	39°19'20.265"N	80°54'00.788"W	319.65	253.861	10.67	10.54	-1.79	
6627.00	71.270	341.260	6381.15	56.93	-46.93	-320.74	1668621.76	14279341.38	39°19'20.680"N	80°54'00.962"W	324.16	261.675	6.87	6.34	-2.81	
6640.00†	72.949	341.529	6385.14	69.30	-35.21	-324.69	1668617.82	14279353.10	39°19'20.796"N	80°54'01.012"W	328.59	263.811	13.06	12.91	2.07	Marcellus POE: 6640 MD
6675.00	77.470	342.230	6394.08	103.13	-3.05	-335.21	1668607.30	14279385.24	39°19'21.113"N	80°54'01.145"W	335.22	269.478	13.06	12.92	2.00	
6722.00	81.040	342.750	6402.84	149.30	40.98	-349.10	1668593.42	14279429.25	39°19'21.549"N	80°54'01.322"W	351.50	276.694	7.67	7.60	1.11	
6770.00	86.120	341.540	6408.20	196.98	86.36	-363.72	1668578.80	14279474.62	39°19'21.998"N	80°54'01.507"W	373.83	283.357	10.88	10.58	-2.52	
6865.00	90.580	340.240	6410.94	291.90	176.06	-394.80	1668547.73	14279564.29	39°19'22.884"N	80°54'01.901"W	432.28	294.034	4.89	4.69	-1.37	
6960.00	90.120	341.120	6410.36	386.89	265.71	-426.23	1668516.32	14279653.90	39°19'23.771"N	80°54'02.300"W	502.27	301.939	1.05	-0.48	0.93	
7055.00	91.020	340.880	6409.41	481.88	355.53	-457.16	1668485.40	14279743.68	39°19'24.659"N	80°54'02.692"W	579.13	307.872	0.98	0.95	-0.25	
7150.00	89.940	340.790	6408.62	576.87	445.26	-488.35	1668454.23	14279833.38	39°19'25.546"N	80°54'03.088"W	660.86	312.358	1.14	-1.14	-0.09	
7245.00	89.850	339.700	6408.79	671.84	534.67	-520.46	1668422.13	14279922.75	39°19'26.430"N	80°54'03.495"W	748.15	315.772	1.15	-0.09	-1.15	
7339.00	90.150	338.780	6408.79	765.61	621.64	-556.02	1668386.54	14280009.69	39°19'27.290"N	80°54'03.947"W	834.05	318.788	4.18	0.32	-4.17	
7433.00	90.000	339.090	6408.67	859.36	708.44	-592.12	1668350.49	14280096.45	39°19'28.148"N	80°54'04.405"W	923.30	320.111	3.52	-0.16	3.52	
7528.00	89.970	344.100	6408.69	954.33	798.55	-622.11	1668320.52	14280186.52	39°19'29.039"N	80°54'04.785"W	1012.27	322.080	5.27	-0.03	5.27	
7622.00	90.250	342.870	6408.51	1048.27	888.67	-648.83	1668293.81	14280276.61	39°19'29.930"N	80°54'05.124"W	1100.32	323.866	1.34	0.30	-1.31	
7716.00	89.910	339.650	6408.38	1142.26	977.67	-679.02	1668263.63	14280365.58	39°19'30.810"N	80°54'05.507"W	1190.34	325.219	3.44	-0.36	-3.43	
7810.00	90.120	338.280	6408.36	1236.16	1065.41	-712.76	1668229.90	14280453.28	39°19'31.678"N	80°54'05.935"W	1281.84	326.217	1.47	0.22	-1.46	



# Actual Wellpath Report

Stroonsider Unit 2H AWP Proj: 15616'  
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04/05/2019

## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Stroonsider Unit 2H
Field	Ritchie	Wellbore	Stroonsider Unit 2H AWB
Facility	Mulvey Pad		

## WELLPATH DATA (173 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
7906.00	90.150	349.350	6408.13	1332.08	1155.21	-746.67	1668196.01	14280543.05	39°19'32.566"N	80°54'06.365"W	1375.51	327.123	2.16	0.03	2.16	
8000.00	89.970	343.750	6408.03	1426.06	1244.62	-775.64	1668167.05	14280632.42	39°19'33.450"N	80°54'06.732"W	1466.53	328.069	3.62	-0.19	3.62	
8096.00	89.970	345.570	6408.08	1521.92	1337.20	-801.03	1668141.67	14280724.96	39°19'34.365"N	80°54'07.054"W	1558.77	329.077	1.90	0.00	1.90	
8190.00	89.910	345.890	6408.18	1615.77	1427.88	-825.79	1668116.92	14280815.60	39°19'35.262"N	80°54'07.368"W	1649.47	329.958	1.79	-0.06	-1.79	
8286.00	89.910	342.230	6408.33	1711.73	1519.71	-853.76	1668098.96	14280907.40	39°19'36.170"N	80°54'07.723"W	1743.11	330.673	1.73	0.00	-1.73	
8380.00	89.910	341.210	6408.48	1805.73	1608.96	-883.24	1668059.49	14280996.62	39°19'37.052"N	80°54'08.097"W	1835.45	331.235	1.09	0.00	-1.09	
8475.00	90.400	345.550	6408.22	1900.72	1699.50	-912.00	1668030.75	14281087.11	39°19'37.947"N	80°54'08.461"W	1928.74	331.781	2.52	0.52	2.46	
8570.00	90.340	348.440	6407.61	1995.40	1791.65	-934.98	1668007.77	14281179.22	39°19'38.858"N	80°54'08.752"W	2020.94	332.442	5.15	-0.06	5.15	
8665.00	90.580	346.890	6406.85	2089.86	1884.45	-955.27	1667987.49	14281271.99	39°19'39.776"N	80°54'09.009"W	2112.74	333.118	1.65	0.25	-1.63	
8761.00	90.460	345.940	6405.97	2185.51	1977.76	-977.82	1667964.95	14281365.26	39°19'40.688"N	80°54'09.295"W	2206.28	333.692	1.00	-0.13	-0.99	
8855.00	90.400	341.520	6405.27	2279.41	2067.97	-1004.15	1667938.63	14281455.43	39°19'41.590"N	80°54'09.629"W	2298.87	334.100	4.70	-0.06	-4.70	
8950.00	90.550	337.630	6404.48	2374.33	2156.97	-1037.29	1667905.50	14281544.41	39°19'42.470"N	80°54'10.049"W	2393.43	334.317	4.10	0.16	-4.09	
9045.00	90.250	335.290	6403.82	2468.95	2244.06	-1075.23	1667877.58	14281631.46	39°19'43.331"N	80°54'10.531"W	2488.36	334.399	2.48	-0.32	-2.48	
9140.00	90.550	335.720	6403.15	2563.42	2330.51	-1114.62	1667828.20	14281717.87	39°19'44.186"N	80°54'11.031"W	2583.34	334.439	0.55	0.32	0.45	
9235.00	90.550	342.360	6402.24	2658.27	2419.17	-1148.58	1667794.26	14281806.49	39°19'45.063"N	80°54'11.462"W	2677.99	334.602	6.99	0.00	6.99	
9329.00	90.550	343.160	6401.34	2752.24	2508.94	-1176.44	1667766.41	14281896.23	39°19'45.950"N	80°54'11.815"W	2771.06	334.878	0.85	0.00	0.85	
9424.00	90.220	342.560	6400.70	2847.21	2599.72	-1204.44	1667738.42	14281986.97	39°19'46.848"N	80°54'12.170"W	2865.17	335.142	0.72	-0.35	-0.63	
9519.00	90.340	338.020	6400.24	2942.16	2689.13	-1236.47	1667706.41	14282076.35	39°19'47.732"N	80°54'12.577"W	2959.77	335.307	4.78	0.13	-4.78	
9614.00	90.400	338.160	6399.62	3036.99	2777.26	-1271.92	1667670.97	14282164.45	39°19'48.603"N	80°54'13.027"W	3054.66	335.393	0.16	0.06	0.15	
9709.00	90.580	339.090	6398.81	3131.86	2865.73	-1306.54	1667636.36	14282252.87	39°19'49.478"N	80°54'13.466"W	3149.51	335.491	1.00	0.19	0.98	
9804.00	90.430	335.230	6397.97	3226.56	2953.26	-1343.41	1667599.51	14282340.37	39°19'50.343"N	80°54'13.934"W	3244.45	335.540	4.07	-0.16	-4.06	
9898.00	90.280	333.620	6397.39	3319.82	3038.04	-1383.98	1667558.95	14282425.12	39°19'51.182"N	80°54'14.449"W	3338.43	335.508	1.72	-0.16	-1.71	
9993.00	90.250	336.340	6396.95	3414.19	3124.12	-1424.16	1667518.79	14282511.16	39°19'52.033"N	80°54'14.959"W	3433.42	335.494	2.86	-0.03	2.86	
10088.00	90.550	341.850	6396.29	3509.06	3212.83	-1458.04	1667484.92	14282599.84	39°19'52.910"N	80°54'15.389"W	3528.19	335.591	5.81	0.32	5.80	
10182.00	90.430	342.290	6395.48	3603.05	3302.26	-1488.98	1667456.00	14282689.23	39°19'53.794"N	80°54'15.757"W	3621.61	335.758	0.49	-0.13	0.47	
10277.00	90.430	345.220	6394.77	3697.97	3393.45	-1513.55	1667429.43	14282780.39	39°19'54.696"N	80°54'16.093"W	3715.69	335.962	3.08	0.00	3.08	
10372.00	89.880	346.210	6394.51	3792.72	3485.52	-1536.99	1667406.00	14282872.41	39°19'55.606"N	80°54'16.391"W	3809.35	336.204	1.19	-0.58	1.04	
10467.00	89.780	346.660	6394.79	3887.38	3577.86	-1559.27	1667383.73	14282964.73	39°19'56.519"N	80°54'16.673"W	3902.88	336.452	0.49	-0.11	0.47	
10563.00	89.780	346.960	6395.16	3982.97	3671.33	-1581.18	1667361.83	14283058.15	39°19'57.443"N	80°54'16.950"W	3997.35	336.699	0.31	0.00	0.31	
10658.00	89.970	346.950	6395.37	4077.55	3763.88	-1602.62	1667340.40	14283150.67	39°19'58.358"N	80°54'17.222"W	4090.87	336.936	0.20	0.20	-0.01	



# Actual Wellpath Report

Stroonsnider Unit 2H AWP Proj: 15616'  
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04/05/2019

REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Mulvay Pad
Slot	Slot #05
Well	Stroonsnider Unit 2H
Wellbore	Stroonsnider Unit 2H AWB

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
10752.00	89.910	345.740	6395.47	4171.22	3855.22	-1624.81	1667318.22	14283241.97	39°19'59.261"N	80°54'17.503"W	4183.63	337.147	1.29	-0.06	-1.29	
10847.00	90.000	343.780	6395.54	4286.07	3946.88	-1649.78	1667293.26	14283333.59	39°20'00.167"N	80°54'17.820"W	4277.80	337.315	2.07	0.09	-2.06	
10942.00	89.970	342.410	6395.57	4381.03	4037.77	-1677.41	1667285.64	14283424.44	39°20'01.066"N	80°54'18.170"W	4372.33	337.441	1.44	-0.03	-1.44	
11038.00	90.000	341.570	6395.59	4457.03	4129.06	-1707.09	1667235.97	14283515.70	39°20'01.968"N	80°54'18.547"W	4468.03	337.538	0.88	0.03	-0.87	
11133.00	89.940	340.060	6395.64	4552.02	4218.78	-1738.31	1667204.77	14283605.39	39°20'02.856"N	80°54'18.943"W	4562.88	337.606	1.59	-0.06	-1.59	
11227.00	90.120	339.200	6395.59	4645.96	4306.91	-1771.03	1667172.06	14283693.47	39°20'03.727"N	80°54'19.358"W	4656.82	337.647	0.93	0.19	-0.91	
11322.00	89.910	339.300	6395.57	4740.89	4395.74	-1804.68	1667138.42	14283782.28	39°20'04.605"N	80°54'19.785"W	4751.78	337.679	0.24	-0.22	0.11	
11417.00	90.250	339.770	6395.44	4835.83	4484.75	-1837.90	1667105.22	14283871.24	39°20'05.485"N	80°54'20.207"W	4846.73	337.716	0.61	0.36	0.49	
11512.00	89.880	338.620	6395.33	4930.74	4573.55	-1871.64	1667071.49	14283960.01	39°20'06.363"N	80°54'20.635"W	4941.70	337.744	1.27	-0.39	-1.21	
11607.00	89.850	340.150	6395.55	5025.67	4662.46	-1905.09	1667038.05	14284048.89	39°20'07.242"N	80°54'21.059"W	5036.66	337.775	1.61	-0.03	-1.61	
11702.00	90.460	336.750	6395.30	5120.52	4750.81	-1939.98	1667003.18	14284137.20	39°20'08.116"N	80°54'21.502"W	5131.64	337.788	3.64	0.64	-3.58	
11797.00	90.280	338.990	6394.88	5215.31	4838.80	-1975.76	1666967.41	14284225.16	39°20'08.986"N	80°54'21.957"W	5226.63	337.789	2.37	-0.19	2.36	
11892.00	89.660	342.750	6394.73	5310.29	4928.54	-2006.89	1666936.29	14284314.86	39°20'09.873"N	80°54'22.351"W	5321.48	337.844	4.01	-0.65	3.96	
11986.00	90.150	343.680	6394.89	5404.25	5018.54	-2034.03	1666909.16	14284404.82	39°20'10.763"N	80°54'22.696"W	5415.07	337.937	1.12	0.52	0.99	
12082.00	90.090	343.580	6394.69	5500.19	5110.64	-2061.09	1666882.12	14284496.89	39°20'11.674"N	80°54'23.039"W	5510.60	338.036	0.12	-0.06	-0.10	
12177.00	89.780	344.340	6394.79	5595.10	5201.94	-2087.34	1666855.88	14284588.15	39°20'12.578"N	80°54'23.372"W	5605.11	338.136	0.86	-0.33	0.80	
12271.00	89.630	343.690	6395.28	5689.01	5292.31	-2113.22	1666830.00	14284678.48	39°20'13.470"N	80°54'23.700"W	5698.62	338.233	0.71	-0.16	-0.69	
12366.00	89.820	343.000	6395.73	5783.97	5383.32	-2140.45	1666802.78	14284769.46	39°20'14.370"N	80°54'24.045"W	5793.24	338.317	0.75	0.20	-0.73	
12462.00	89.970	342.000	6395.91	5879.95	5474.88	-2169.32	1666773.93	14284860.98	39°20'15.275"N	80°54'24.412"W	5888.99	338.385	1.05	0.16	-1.04	
12557.00	89.780	341.150	6396.12	5974.95	5565.01	-2199.34	1666743.92	14284951.07	39°20'16.166"N	80°54'24.793"W	5983.84	338.436	0.92	-0.20	-0.89	
12652.00	89.750	340.090	6396.51	6069.94	5654.62	-2230.87	1666712.40	14285040.65	39°20'17.052"N	80°54'25.193"W	6078.77	338.470	1.12	-0.03	-1.12	
12746.00	89.600	340.080	6397.04	6163.90	5743.00	-2262.89	1666680.40	14285128.99	39°20'17.926"N	80°54'25.599"W	6172.74	338.494	0.16	-0.16	-0.01	
12841.00	89.510	340.530	6397.78	6258.88	5832.44	-2294.90	1666648.40	14285218.39	39°20'18.810"N	80°54'26.005"W	6267.69	338.522	0.48	-0.09	0.47	
12936.00	89.450	341.140	6398.54	6353.86	5922.17	-2326.09	1666617.22	14285308.09	39°20'19.697"N	80°54'26.401"W	6362.61	338.556	0.65	-0.06	0.64	
13030.00	89.510	341.710	6399.49	6447.86	6011.27	-2356.03	1666587.29	14285397.15	39°20'20.578"N	80°54'26.781"W	6456.49	338.598	0.61	0.06	0.61	
13125.00	89.420	342.010	6400.38	6542.85	6101.54	-2385.61	1666557.73	14285487.39	39°20'21.471"N	80°54'27.156"W	6551.33	338.645	0.33	-0.09	0.32	
13221.00	89.290	341.300	6401.46	6638.85	6192.66	-2415.82	1666527.53	14285578.47	39°20'22.372"N	80°54'27.539"W	6647.19	338.689	0.75	-0.14	-0.74	
13316.00	89.350	343.840	6402.59	6733.82	6283.28	-2444.27	1666499.09	14285669.06	39°20'23.268"N	80°54'27.900"W	6741.96	338.743	2.67	0.06	2.67	
13410.00	89.170	342.390	6403.80	6827.77	6373.22	-2471.57	1666471.80	14285758.96	39°20'24.157"N	80°54'28.247"W	6835.68	338.803	1.55	-0.19	-1.54	
13505.00	89.750	343.710	6404.70	6922.73	6464.08	-2499.26	1666444.12	14285849.79	39°20'25.055"N	80°54'28.598"W	6930.42	338.862	1.52	0.61	1.39	



# Actual Wellpath Report

Stronsnider Unit 2H AWP Proj: 15616'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #05
ANTERO RESOURCES CORPORATION	Well	Stronsnider Unit 2H
Ritchie County, WV	Wellbore	Stronsnider Unit 2H AWB
Ritchie		
Mulvay Pad		

## WELLPATH DATA (173 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)	(+US ft)	(+US ft)			(ft)	(°)	("/100ft)	("/100ft)	("/100ft)	
13600.00	89.630	343.930	6405.21	7017.66	6555.32	-2525.74	1666417.66	14285940.99	39°20'25.95"N	80°54'28.934"W	7025.07	338.929	0.26	-0.13	0.23	
13696.00	89.600	344.480	6405.86	7113.55	6647.69	-2551.87	1666391.54	14288033.32	39°20'26.870"N	80°54'29.285"W	7120.66	339.000	0.57	-0.03	0.57	
13791.00	89.690	345.050	6406.45	7208.40	6739.35	-2576.83	1666366.58	14286124.95	39°20'27.777"N	80°54'29.582"W	7215.19	339.075	0.61	0.09	0.60	
13886.00	89.600	343.970	6407.03	7303.27	6830.90	-2602.20	1666341.22	14286216.45	39°20'28.682"N	80°54'29.903"W	7309.76	339.146	1.14	-0.09	-1.14	
13981.00	89.630	342.020	6407.67	7398.24	6921.74	-2629.98	1666313.45	14286307.26	39°20'29.580"N	80°54'30.266"W	7404.54	339.195	2.05	0.03	-2.05	
14076.00	89.690	341.290	6408.24	7493.24	7011.91	-2659.88	1666283.56	14286397.39	39°20'30.471"N	80°54'30.635"W	7499.45	339.226	0.77	0.06	-0.77	
14171.00	89.750	338.980	6408.70	7588.20	7101.25	-2692.16	1666251.30	14286486.70	39°20'31.355"N	80°54'31.045"W	7594.44	339.238	2.43	0.06	-2.43	
14266.00	89.820	338.390	6409.06	7683.08	7189.75	-2726.69	1666216.78	14286575.16	39°20'32.230"N	80°54'31.483"W	7689.43	339.231	0.63	0.07	-0.62	
14361.00	90.250	338.360	6409.00	7777.93	7278.06	-2761.70	1666181.78	14286663.44	39°20'33.103"N	80°54'31.928"W	7784.42	339.220	0.45	0.45	-0.03	
14457.00	90.150	338.760	6408.66	7873.80	7367.42	-2796.79	1666146.71	14286752.76	39°20'33.986"N	80°54'32.373"W	7880.41	339.212	0.43	-0.10	0.42	
14552.00	90.060	337.080	6408.49	7968.60	7455.45	-2832.50	1666111.01	14286840.75	39°20'34.857"N	80°54'32.827"W	7975.38	339.197	1.77	-0.09	-1.77	
14646.00	89.910	334.660	6408.52	8062.13	7541.23	-2870.93	1666072.60	14286926.50	39°20'35.705"N	80°54'33.315"W	8069.22	339.158	2.58	-0.16	-2.57	
14740.00	90.180	337.960	6408.44	8155.73	7627.29	-2908.69	1666034.86	14287012.53	39°20'36.556"N	80°54'33.794"W	8163.09	339.126	3.52	0.29	3.51	
14835.00	90.250	340.190	6408.08	8250.63	7716.02	-2942.61	1666000.94	14287101.22	39°20'37.433"N	80°54'34.225"W	8258.09	339.125	2.35	0.07	2.35	
14929.00	90.030	343.680	6407.85	8344.61	7805.38	-2971.76	1665971.81	14287190.54	39°20'38.317"N	80°54'34.595"W	8351.96	339.157	3.72	-0.23	3.71	
15024.00	90.310	346.130	6407.57	8439.44	7897.09	-2996.50	1665947.08	14287282.22	39°20'39.223"N	80°54'34.908"W	8446.48	339.221	2.60	0.29	2.58	
15119.00	90.060	346.240	6407.27	8534.13	7989.34	-3019.18	1665924.41	14287374.43	39°20'40.135"N	80°54'35.196"W	8540.79	339.298	0.29	-0.26	0.12	
15213.00	90.180	345.450	6407.07	8627.87	8080.49	-3042.17	1665901.43	14287465.54	39°20'41.036"N	80°54'35.487"W	8634.18	339.369	0.85	0.13	-0.84	
15308.00	89.940	344.210	6406.97	8722.71	8172.17	-3067.03	1665876.58	14287557.19	39°20'41.943"N	80°54'35.803"W	8728.75	339.429	1.33	-0.25	-1.31	
15403.00	89.940	344.170	6407.07	8817.61	8263.58	-3092.91	1665850.71	14287648.56	39°20'42.847"N	80°54'36.131"W	8823.43	339.480	0.04	0.00	-0.04	
15499.00	90.150	343.660	6406.99	8913.53	8355.82	-3119.51	1665824.12	14287740.77	39°20'43.758"N	80°54'36.468"W	8919.14	339.528	0.57	0.22	-0.53	
15591.00	90.030	342.790	6406.85	9005.49	8443.91	-3146.06	1665797.58	14287828.81	39°20'44.629"N	80°54'36.805"W	9010.95	339.565	0.95	-0.13	-0.95	
15616.00	90.030	342.790	6406.84	9030.49	8467.79	-3153.46	1665790.18	14287852.69	39°20'44.865"N	80°54'36.899"W	9035.91	339.574	0.00	0.00	0.00	Projected MD at TD: 15616'





# Actual Wellpath Report

Stroonsider Unit 2H AWP Proj: 15616'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #05
Area	Ritchie County, WV	Stroonsider Unit 2H
Field	Ritchie	Stroonsider Unit 2H AWB
Facility	Mulvay Pad	

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	24.50	104.50	80.00	24.50	104.50	0.00	0.00	-0.09	0.23
17.5in Open Hole	104.50	562.10	457.60	104.50	562.08	-0.09	0.23	-2.49	3.21
13.375in Casing Surface	24.50	562.10	537.60	24.50	562.08	0.00	0.00	-2.49	3.21
12.25in Open Hole	562.10	2618.20	2056.10	562.08	2615.86	-2.49	3.21	-11.71	-52.41
9.625in Casing Intermediate	24.50	2618.20	2593.70	24.50	2615.86	0.00	0.00	-11.71	-52.41
8.75in Open Hole	2618.20	6356.50	3738.30	2615.86	6241.00	-11.71	-52.41	-263.37	-249.23
8.5in Open Hole	6356.50	15616.00	9259.50	6241.00	8406.84	-263.37	-249.23	8467.79	-3153.46
5.5in Casing Production	24.50	15616.00	15591.50	24.50	8406.84	0.00	0.00	8467.79	-3153.46

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Stroonsider Unit 2H POE - Rev-1	6381.00	-46.17	-317.83	1668624.68	14279342.14	39°19'20.687"N	80°54'00.925"W	point
Stroonsider Unit 2H BHL - Rev-2	6404.00	8465.61	-3168.23	1665775.42	14287850.51	39°20'44.844"N	80°54'37.087"W	point
Stroonsider Unit 2H LP - Rev-1	6404.00	100.94	-365.12	1668577.41	14279489.19	39°19'22.142"N	80°54'01.525"W	point

## WELLPATH COMPOSITION - Ref Wellbore: Stroonsider Unit 2H AWB

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	6170.50	Gyrodata standard - Drop gyro or Multi-shot	05 Gyrodata MS Gyro <8-3/4"> (100-6161')	Stroonsider Unit 2H AWB
6170.50	6270.50	ISCVSA MWD, Rev. 4 (Standard)	04 Directional ONE MWD <8-3/4"> (6161')(6217'-6261')	Stroonsider Unit 2H AWB
6270.50	15591.00	BHI AutoTrak Curve (Short)	06 BHI AT Curve <8-1/2"> (6270.50')(6325'-15591')	Stroonsider Unit 2H AWB
15591.00	15616.00	Blind Drilling (std)	Projection to bit	Stroonsider Unit 2H AWB

04/05/2019



# Actual Wellpath Report

Stroonsider Unit 2H AWP Proj: 15616'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Stroonsider Unit 2H
Field	Ritchie	Wellbore	Stroonsider Unit 2H AWB
Facility	Mulvay Pad		

## COMMENTS

### Wellpath general comments

API: 47-085-10202-0000  
 BHI Job #: 8609865  
 Rig: Frontier 22  
 Duration: 06/15/2017-06/17/2017  
 Gyrodatta MS Gyro <8-3/4"> (100'-6161')  
 Directional ONE MWD <8-3/4"> (6161)(6217'-6261')  
 BHI AT Curve <8-1/2"> (6270.50')(6325'-15591')  
 Middlesex: 6317' MD  
 Burket: 6485' MD  
 Tully: 6561' MD  
 Marcellus POE: 6640' MD  
 Projected MD at TD: 15616'