

ANTERO RESOURCES CORPORATION
 Location: Ritchie County, WV
 Field: Ritchie
 Facility: Mulway Pad
 Slot: Slot #06
 Well: Stronsnider Unit 1H
 Wellbore: Stronsnider_Unit_1H_PWB



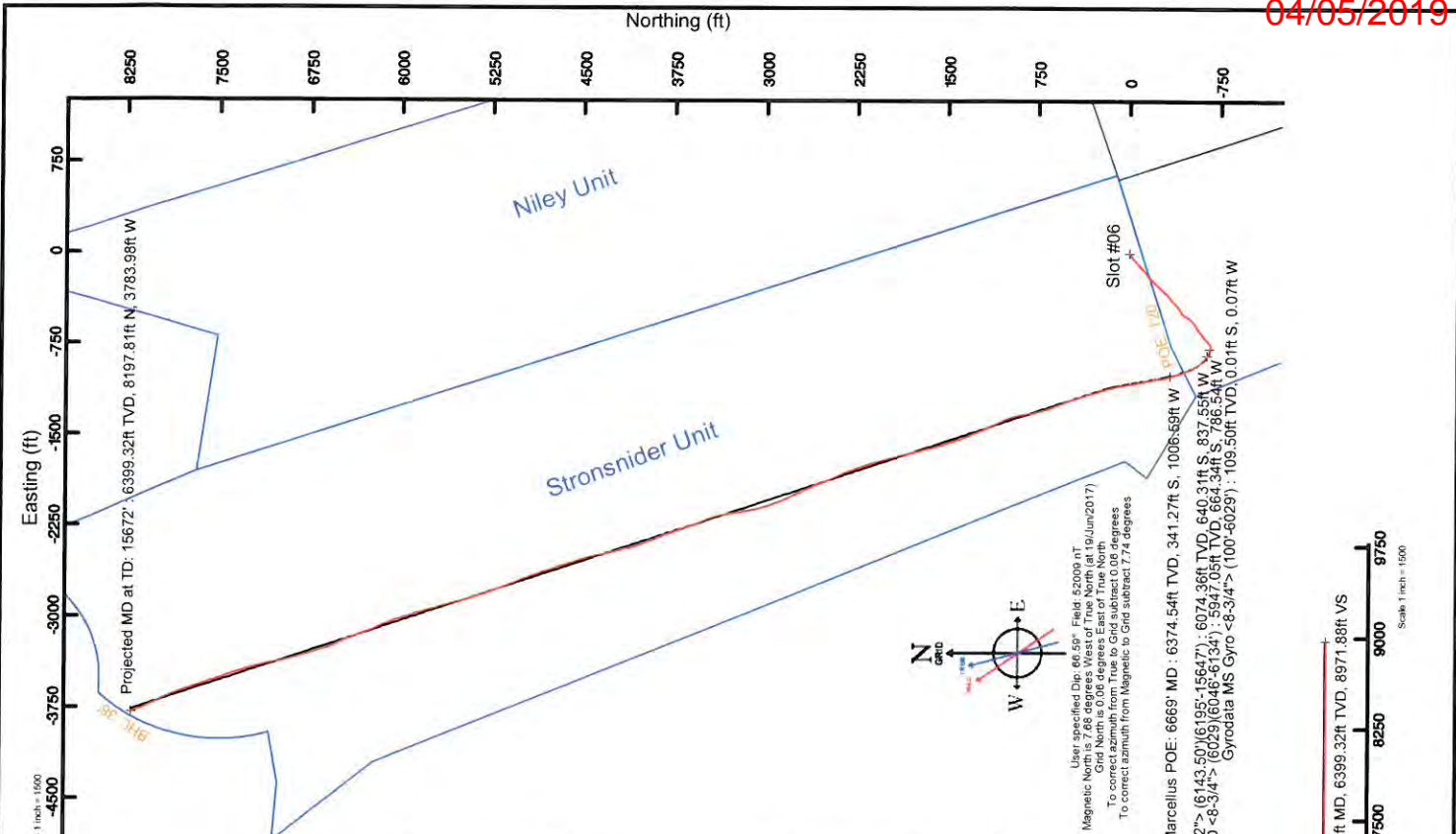
API: 47-085-10201-0000
 BHI Job #: 8616511
 Rig: Frontier 22
 Duration: 06/20/2017-06/22/2017

Wellbore	Stronsnider_Unit_1H_PWB_Rev-A.0	Grid System	NAD27 / UTM Zone 17 North, US feet
Well Path	Stronsnider_Unit_1H_AWB	Well Path	Well path was transformed from a different geoid datum
Frontier 22 (RKB) to Mean Sea Level	-1053.2 feet	North Reference	Grid north
Mean Sea Level to Mud line (At Slot: Slot #06)	-1029 feet	Scale	True distance
Coordinates are in feet referenced to Slot		Depths are in feet	
Created by	delbas on 2017-06-29	Database	WA, MPL, EasternUS, Defn

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Mulway Pad	1668944.745	14279379.196	80°53'56.850"W
Slot	Local N (ft)	Local E (ft)	Latitude
Slot #06	0.00	1668944.745	39°19'21.050"N
Comment	Stronsnider Unit 1H	14279379.196	80°53'56.850"W
Frontier 22 (RKB) to Mud line (At Slot: Slot #06)		24.5ft	
Mean Sea Level to Mud line (At Slot: Slot #06)		-1029ft	
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	6143.50	25.660	294.220	6028.55	-651.94
Proj to Bottom	6229.50	31.020	303.910	6104.26	-631.91
POE	6663.02	72.500	347.249	6374.00	-348.19
Landing Pt	6814.80	90.000	347.249	6397.00	-202.44
Work Back to Line	6965.56	90.000	351.772	6397.00	-54.24
On Azimuth	7302.40	90.000	341.667	6397.00	273.17
BHL	15651.86	90.000	341.667	6397.00	8198.83
					-3765.24
					0.00
					8966.96

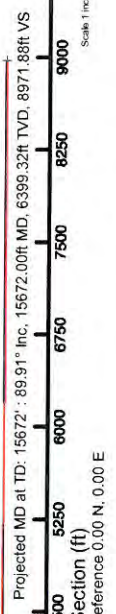
Well Data	
Well	Wellpath
Stronsnider Unit 1H	Stronsnider_Unit_1H_AWB
Stronsnider Unit 1H	Stronsnider_Unit_1H_PWB
Stronsnider Unit 1H	Stronsnider_Unit_1H_PWB_Rev-A.0



User specified Dip: 66.59° Field #2009 nt
 Magnetic North is 7.68 degrees West of True North at 19/Jun/2017
 Grid North is 0.06 degrees East of True North
 To correct azimuth from True to Grid subtract 0.06 degrees
 To correct azimuth from Magnetic to Grid subtract 7.74 degrees

Marcellus POE: 6669° MD: 6374.54ft TVD, 341.27ft S, 1006.58ft W
 BHI AT Curve <-8-1/2"> (6143.50/6195°-15647°): 6074.36ft TVD, 640.31ft S, 837.55ft W
 Directional ONE MWD <-8-3/4"> (6029/6046°-6134°): 5947.05ft TVD, 664.34ft S, 736.54ft W
 Gyrodata MS Gyro <-8-3/4"> (100°-6029°): 109.50ft TVD, 0.01ft S, 0.07ft W

Directional ONE MWD <-8-3/4"> (6029/6046°-6134°): 18.51° Inc, 6055.50ft MD, 5947.05ft TVD, -383.27ft VS
 BHI AT Curve <-8-1/2"> (6143.50/6195°-15647°): 28.83° Inc, 6195.00ft MD, 6074.36ft TVD, -344.42ft VS
 Marcellus POE: 6669° MD: 73.26° Inc, 6669.00ft MD, 6374.54ft TVD, -7.39ft VS





Actual Wellpath Report

Stroonsnider Unit 1H AWP Proj: 15672'

Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Mulvay Pad
Slot	Slot #06
Well	Stroonsnider Unit 1H
Wellbore	Stroonsnider Unit 1H 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 11:34
Database/Source file	WA_MPL_EasternUS_Defn/Stroonsnider_Unit_1H_AWP_Proj_15672_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1668944.75	14279379.20	39°19'21.050"N	80°53'56.850"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 #06)
	Section Origin
	Section Azimuth
	24.50ft
	1053.50ft
	24.50ft
	N 0.00, E 0.00 ft
	341.67°



Actual Wellpath Report

Stromsider Unit 1H AWP Proj: 15672'

Page 2 of 9



04/05/2019

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Ritchie County, WV	Well	Stromsider Unit 1H
Field	Ritchie	Wellbore	Stromsider Unit 1H AWB
Facility	Mulway Pad		

WELLPATH DATA (178 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
0.00	0.00	260.830	0.00	0.00	0.00	0.00	1668944.74	14279379.20	39°19'21.050"N	80°53'56.850"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	260.830	24.50	0.00	0.00	0.00	1668944.74	14279379.20	39°19'21.050"N	80°53'56.850"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.100	260.830	109.50	0.01	-0.01	-0.07	1668944.67	14279379.18	39°19'21.050"N	80°53'56.851"W	0.07	260.830	0.12	0.12	-116.67	Syrodata MS Gyro <8-3/4"> (100'-6029')
209.50	0.120	208.830	209.50	-0.05	-0.12	-0.21	1668944.53	14279379.08	39°19'21.049"N	80°53'56.853"W	0.24	240.784	0.10	0.02	-52.00	
309.50	0.220	170.120	309.50	-0.31	-0.40	-0.23	1668944.52	14279378.80	39°19'21.046"N	80°53'56.853"W	0.46	209.724	0.15	0.10	-38.71	
409.50	0.270	167.180	409.50	-0.73	-0.82	-0.14	1668944.60	14279378.38	39°19'21.042"N	80°53'56.852"W	0.83	189.871	0.05	0.05	-2.94	
509.50	0.260	166.590	509.50	-1.19	-1.27	-0.04	1668944.71	14279377.93	39°19'21.037"N	80°53'56.850"W	1.27	181.686	0.01	-0.01	-0.59	
609.50	0.400	209.410	609.50	-1.65	-1.79	-0.16	1668944.59	14279377.40	39°19'21.032"N	80°53'56.850"W	1.80	184.977	0.27	0.14	42.82	
709.50	2.250	232.160	709.47	-2.54	-3.30	-1.88	1668942.87	14279375.90	39°19'21.017"N	80°53'56.874"W	3.80	209.636	1.89	1.85	22.75	
809.50	3.400	237.600	809.34	-3.92	-6.09	-5.93	1668938.82	14279373.10	39°19'20.990"N	80°53'56.826"W	8.50	224.228	1.18	1.15	5.44	
909.50	4.240	239.770	909.12	-5.40	-9.54	-11.63	1668933.12	14279369.66	39°19'20.956"N	80°53'56.998"W	15.04	230.625	0.85	0.84	2.17	
1009.50	6.070	233.160	1008.71	-7.84	-14.58	-19.06	1668925.70	14279364.63	39°19'20.906"N	80°53'57.093"W	23.99	232.587	1.92	1.83	-6.61	
1109.50	7.740	230.010	1107.98	-12.01	-22.07	-28.45	1668916.31	14279357.13	39°19'20.832"N	80°53'57.212"W	36.01	232.190	1.71	1.67	-3.15	
1209.50	9.020	229.940	1206.91	-17.40	-31.45	-39.61	1668905.15	14279347.76	39°19'20.740"N	80°53'57.354"W	50.57	231.551	1.28	1.28	-0.07	
1309.50	9.190	229.900	1305.65	-23.26	-41.64	-51.71	1668893.05	14279337.58	39°19'20.639"N	80°53'57.509"W	66.39	231.162	0.17	0.17	-0.04	
1409.50	10.650	229.520	1404.16	-29.71	-52.78	-64.85	1668879.92	14279326.44	39°19'20.529"N	80°53'57.676"W	83.61	230.860	1.46	1.46	-0.38	
1509.50	12.340	227.820	1502.15	-37.51	-65.95	-79.80	1668864.98	14279313.27	39°19'20.399"N	80°53'57.866"W	103.53	230.427	1.72	1.69	-1.70	
1609.50	11.780	223.410	1599.94	-46.66	-80.54	-94.73	1668850.05	14279298.68	39°19'20.255"N	80°53'58.057"W	124.35	229.628	1.08	-0.56	-4.41	
1709.50	11.910	223.030	1697.81	-56.44	-95.50	-108.79	1668836.00	14279283.73	39°19'20.107"N	80°53'58.236"W	144.76	228.721	0.15	0.13	-0.38	
1809.50	12.010	230.550	1795.65	-65.14	-109.66	-123.87	1668820.93	14279269.58	39°19'19.968"N	80°53'58.428"W	165.43	228.482	1.56	0.10	7.52	
1909.50	12.270	232.220	1893.41	-72.43	-122.78	-140.34	1668804.50	14279256.47	39°19'19.838"N	80°53'58.637"W	186.44	228.810	0.44	0.26	1.67	
2009.50	15.050	232.000	1990.57	-80.34	-137.29	-158.94	1668785.87	14279241.96	39°19'19.695"N	80°53'58.874"W	210.02	229.180	2.79	2.79	-0.22	
2109.50	15.380	231.580	2087.06	-89.27	-153.53	-179.57	1668765.25	14279225.73	39°19'19.535"N	80°53'59.137"W	236.25	229.470	0.34	0.32	-0.42	
2209.50	13.200	227.120	2183.97	-98.57	-169.54	-198.32	1668746.50	14279209.72	39°19'19.376"N	80°53'59.376"W	260.92	229.474	2.44	-2.18	-4.46	
2309.50	12.900	225.140	2281.38	-108.30	-185.18	-214.60	1668730.23	14279194.09	39°19'19.222"N	80°53'59.583"W	283.46	229.209	0.54	-0.30	-1.98	
2409.50	13.030	224.820	2378.83	-118.37	-201.05	-230.46	1668714.38	14279178.22	39°19'19.065"N	80°53'59.785"W	305.84	228.899	0.15	0.13	-0.32	
2509.50	12.560	223.430	2476.35	-128.61	-216.95	-245.88	1668698.96	14279162.34	39°19'18.908"N	80°53'59.982"W	327.91	228.578	0.56	-0.47	-1.39	
2609.50	11.830	220.680	2574.09	-139.03	-232.62	-260.04	1668684.81	14279146.67	39°19'18.754"N	80°54'00.162"W	348.90	228.186	0.93	-0.73	-2.75	
2709.50	10.670	227.130	2672.18	-148.16	-246.69	-273.51	1668667.135	14279132.61	39°19'18.615"N	80°54'00.334"W	368.32	227.951	1.71	-1.16	6.45	
2809.50	10.380	223.050	2770.48	-156.32	-269.57	-286.44	1668658.42	14279119.73	39°19'18.488"N	80°54'00.498"W	386.56	227.817	0.80	-0.29	-4.08	



Actual Wellpath Report

Stronsnider Unit 1H AWP Proj: 15672'

Page 3 of 9



04/05/2019

REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Mulvay Pad
Slot	Slot #06
Well	Stronsnider Unit 1H
Wellbore	Stronsnider Unit 1H AWB

MD Inclin (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
2909.50	9.710	221.460	2868.96	-164.88	-272.47	-298.18	1668646.69	14279106.83	39°19'18.360"N	80°54'00.648"W	403.92	227.579	0.73	-0.67	-1.59	
3009.50	10.030	224.630	2967.48	-173.08	-284.99	-309.88	1668634.99	14279094.32	39°19'18.237"N	80°54'00.797"W	421.00	227.395	0.63	0.32	3.17	
3109.50	10.840	224.700	3065.83	-181.30	-297.87	-322.61	1668622.26	14279081.44	39°19'18.109"N	80°54'00.959"W	439.10	227.283	0.81	0.81	0.07	
3209.50	11.730	226.980	3163.89	-189.81	-311.49	-336.66	1668608.22	14279067.83	39°19'17.975"N	80°54'01.138"W	458.66	227.223	1.00	0.89	2.28	
3309.50	11.710	230.640	3261.81	-197.70	-324.86	-351.93	1668592.95	14279054.46	39°19'17.843"N	80°54'01.333"W	478.95	227.290	1.00	-0.02	3.66	
3409.50	11.820	229.070	3359.71	-205.28	-338.01	-367.52	1668577.37	14279041.32	39°19'17.713"N	80°54'01.531"W	499.32	227.395	0.34	0.11	-1.57	
3509.50	13.350	226.720	3457.30	-214.08	-352.83	-383.66	1668561.24	14279026.70	39°19'17.569"N	80°54'01.947"W	521.10	227.413	1.61	1.53	-2.35	
3609.50	12.870	226.350	3554.70	-223.72	-368.24	-400.12	1668544.78	14279011.11	39°19'17.415"N	80°54'01.152"W	543.78	227.376	0.49	-0.48	-0.37	
3709.50	13.000	226.150	3652.16	-233.33	-383.72	-416.29	1668528.62	14278995.63	39°19'17.262"N	80°54'02.152"W	566.16	227.332	0.14	0.13	-0.20	
3809.50	13.960	229.500	3749.40	-242.73	-399.35	-433.59	1668511.33	14278980.00	39°19'17.108"N	80°54'02.373"W	589.48	227.354	1.25	0.98	3.35	
3909.50	12.770	237.760	3846.70	-249.95	-413.10	-452.13	1668492.80	14278966.27	39°19'16.972"N	80°54'02.609"W	612.43	227.583	2.26	-1.21	8.26	
4009.50	10.530	242.890	3944.63	-254.00	-423.16	-469.61	1668475.32	14278956.21	39°19'16.873"N	80°54'02.831"W	632.14	227.979	2.47	-2.24	5.13	
4109.50	8.060	232.340	4043.32	-257.72	-431.61	-483.30	1668461.64	14278947.76	39°19'16.789"N	80°54'03.006"W	647.97	228.234	2.99	-2.47	-10.55	
4209.50	9.340	220.050	4142.17	-264.29	-442.10	-494.07	1668450.87	14278937.27	39°19'16.686"N	80°54'03.143"W	662.99	228.177	2.25	1.28	-12.29	
4309.50	9.840	216.860	4240.78	-273.42	-455.15	-504.42	1668440.53	14278924.23	39°19'16.557"N	80°54'03.275"W	679.41	227.939	0.73	0.50	-3.19	
4409.50	10.370	212.370	4339.23	-284.00	-469.59	-514.36	1668430.59	14278909.79	39°19'16.414"N	80°54'03.402"W	696.48	227.605	0.95	0.53	-4.49	
4509.50	12.180	210.580	4437.29	-296.64	-486.28	-524.55	1668420.41	14278893.12	39°19'16.250"N	80°54'03.531"W	715.27	227.168	1.84	1.81	-1.79	
4609.50	14.710	226.410	4534.58	-308.99	-504.12	-539.12	1668405.84	14278875.28	39°19'16.073"N	80°54'03.717"W	738.10	226.921	4.44	2.53	15.83	
4709.50	14.720	225.990	4631.30	-319.92	-521.70	-557.45	1668387.52	14278857.70	39°19'15.900"N	80°54'03.951"W	763.50	226.897	0.11	0.01	-0.42	
4809.50	13.440	238.790	4728.32	-328.02	-536.55	-576.53	1668368.44	14278842.86	39°19'15.763"N	80°54'04.194"W	787.58	227.057	3.36	-1.28	12.80	
4909.50	12.920	237.310	4825.68	-333.38	-548.61	-595.88	1668349.10	14278830.80	39°19'15.634"N	80°54'04.440"W	809.97	227.365	0.62	-0.52	-1.48	
5009.50	12.300	233.200	4923.27	-339.53	-561.03	-613.82	1668331.17	14278818.39	39°19'15.512"N	80°54'04.688"W	831.59	227.573	1.09	-0.62	-4.11	
5109.50	13.480	236.580	5020.75	-345.94	-573.83	-632.08	1668312.92	14278805.59	39°19'15.385"N	80°54'04.901"W	853.70	227.765	1.40	1.18	3.38	
5209.50	12.960	229.910	5118.11	-353.13	-587.48	-650.39	1668294.62	14278791.96	39°19'15.251"N	80°54'05.134"W	876.43	227.909	1.61	-0.52	-6.67	
5309.50	12.130	231.530	5215.72	-360.90	-601.23	-667.19	1668277.82	14278778.20	39°19'15.115"N	80°54'05.348"W	898.12	227.977	0.90	-0.83	1.62	
5409.50	10.950	231.760	5313.70	-367.75	-613.65	-682.88	1668262.14	14278765.79	39°19'14.992"N	80°54'05.548"W	918.09	228.056	1.18	-1.18	0.23	
5509.50	10.750	227.330	5411.91	-374.83	-625.85	-697.20	1668247.83	14278753.60	39°19'14.872"N	80°54'05.730"W	936.89	228.087	0.86	-0.20	-4.43	
5609.50	11.260	228.890	5510.07	-382.46	-638.59	-711.41	1668233.62	14278740.86	39°19'14.746"N	80°54'05.911"W	955.98	228.088	0.59	0.51	1.56	
5709.50	12.490	227.570	5607.93	-390.65	-652.30	-726.75	1668218.29	14278727.15	39°19'14.611"N	80°54'06.106"W	976.56	228.090	1.26	1.23	-1.32	
5809.50	10.520	230.610	5705.92	-398.35	-665.39	-741.79	1668203.26	14278714.07	39°19'14.482"N	80°54'06.298"W	996.49	228.107	2.06	-1.97	3.04	



Actual Wellpath Report

Stroonsnider Unit 1H AWP Proj: 15672'
Page 4 of 9



04/05/2019

REFERENCE WELLPATH IDENTIFICATION		Slot #06
Operator	ANTERO RESOURCES CORPORATION	Stroonsnider Unit 1H
Area	Ritchie County, WV	Stroonsnider Unit 1H AWB
Field	Ritchie	
Wellbore		
Facility	Mulvay Pad	

WELLPATH DATA (178 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
5909.50	8.060	269.300	5804.69	-399.51	-671.28	-755.87	1668189.18	14278708.19	39°19'14.424"N	80°54'06.477"W	1010.92	228.392	6.56	-2.46	38.69	
6009.50	13.880	287.150	5902.85	-390.41	-667.83	-774.36	1668170.70	14278711.64	39°19'14.458"N	80°54'06.712"W	1022.56	229.225	6.67	5.82	17.85	
6038.50	16.390	285.130	5930.84	-386.14	-665.73	-781.63	1668163.43	14278713.73	39°19'14.479"N	80°54'06.805"W	1026.72	229.578	8.84	8.66	-6.97	
6055.50	18.510	286.470	5947.05	-383.27	-664.34	-786.54	1668158.52	14278715.12	39°19'14.492"N	80°54'06.867"W	1029.56	229.814	12.69	12.47	7.88	Directional ONE MWVD <-8-3/4"> (6029)(6046'-6134')
6099.50	22.080	293.180	5988.32	-373.80	-659.10	-800.84	1668144.22	14278720.36	39°19'14.544"N	80°54'07.049"W	1037.19	230.545	9.67	8.11	15.25	
6143.50	25.660	294.220	6028.55	-361.88	-651.94	-817.14	1668127.93	14278727.52	39°19'14.615"N	80°54'07.257"W	1045.34	231.416	8.19	8.14	2.36	
6195.00	28.830	304.580	6074.36	-344.42	-640.31	-837.55	1668107.53	14278739.15	39°19'14.731"N	80°54'07.516"W	1054.27	232.602	11.06	6.16	20.12	BH/AT Curve <-8-1/2"> (6143.50)(6195'-15647')
6243.00	32.650	308.930	6115.61	-324.28	-625.59	-857.16	1668087.93	14278753.85	39°19'14.876"N	80°54'07.765"W	1061.17	233.876	9.20	7.96	9.06	
6292.00	36.330	314.750	6156.00	-300.21	-607.06	-877.76	1668067.34	14278772.38	39°19'15.060"N	80°54'08.027"W	1067.23	235.332	10.07	7.51	11.88	
6339.00	39.910	319.850	6192.98	-273.78	-585.72	-897.38	1668047.72	14278793.71	39°19'15.271"N	80°54'08.277"W	1071.62	236.868	10.14	7.62	10.85	
6353.00†	41.303	321.563	6203.61	-265.27	-578.67	-903.15	1668041.96	14278800.76	39°19'15.340"N	80°54'08.350"W	1072.63	237.351	12.74	9.95	12.23	Middlesex: 6353' MD
6387.00	44.780	325.350	6228.46	-243.24	-560.02	-916.94	1668028.17	14278819.40	39°19'15.525"N	80°54'08.525"W	1074.43	238.586	12.74	10.23	11.14	
6434.00	48.940	330.420	6260.60	-209.94	-530.97	-935.11	1668010.01	14278848.44	39°19'15.812"N	80°54'08.756"W	1075.34	240.412	11.84	8.85	10.79	
6482.00	53.350	334.020	6290.71	-173.09	-497.90	-952.49	1667992.63	14278881.50	39°19'16.139"N	80°54'08.977"W	1074.78	242.403	10.88	9.19	7.50	
6519.00†	57.257	336.251	6311.77	-142.87	-470.30	-965.27	1667979.86	14278909.09	39°19'16.412"N	80°54'09.139"W	1073.74	244.024	11.67	10.56	6.03	Burket 6519' MD
6529.00	58.320	336.820	6317.10	-134.44	-462.54	-968.64	1667976.50	14278916.84	39°19'16.489"N	80°54'09.182"W	1073.41	244.475	11.67	10.63	5.69	
6576.00	63.190	341.030	6340.07	-93.51	-424.28	-983.34	1667961.80	14278955.08	39°19'16.867"N	80°54'09.368"W	1070.97	246.661	12.98	10.36	8.96	
6590.00†	64.691	342.167	6346.22	-80.93	-412.35	-987.31	1667957.83	14278967.01	39°19'16.985"N	80°54'09.419"W	1069.96	247.332	12.96	10.72	8.12	Tully: 6590' MD
6623.00	68.260	344.740	6359.39	-50.70	-383.35	-995.92	1667949.23	14278996.00	39°19'17.272"N	80°54'09.528"W	1067.15	248.947	12.96	10.82	7.80	
6669.00†	73.263	346.772	6374.54	-7.39	-341.27	-1006.59	1667938.56	14279038.06	39°19'17.688"N	80°54'09.663"W	1062.86	251.272	11.65	10.88	4.42	Marcellus POE: 6669' MD
6672.00	73.590	346.900	6375.40	-4.53	-338.47	-1007.24	1667937.91	14279040.86	39°19'17.716"N	80°54'09.671"W	1062.59	251.426	11.65	10.90	4.28	
6719.00	79.170	347.390	6386.46	40.92	-293.95	-1017.40	1667927.75	14279085.36	39°19'18.156"N	80°54'09.800"W	1059.01	253.865	11.92	11.87	1.04	
6766.00	85.160	347.900	6392.86	87.21	-248.49	-1027.35	1667917.80	14279130.81	39°19'18.605"N	80°54'09.926"W	1056.98	256.403	12.79	12.74	1.09	
6861.00	89.880	349.250	6396.97	181.40	-155.49	-1046.15	1667899.02	14279223.77	39°19'19.525"N	80°54'10.164"W	1057.64	261.546	5.17	4.97	1.42	
6955.00	89.910	349.990	6397.15	274.50	-63.03	-1063.08	1667882.09	14279316.19	39°19'20.439"N	80°54'10.378"W	1064.95	266.607	0.79	0.03	0.79	
7050.00	89.780	349.270	6397.40	368.58	30.42	-1080.18	1667864.99	14279409.60	39°19'21.362"N	80°54'10.594"W	1080.61	271.613	0.77	-0.14	-0.76	
7144.00	90.030	346.220	6397.56	462.04	122.27	-1100.13	1667845.05	14279501.41	39°19'22.270"N	80°54'10.847"W	1106.91	276.342	3.26	0.27	-3.24	
7239.00	89.720	344.150	6397.77	556.86	214.10	-1124.42	1667820.77	14279593.21	39°19'23.178"N	80°54'11.155"W	1144.63	280.781	2.20	-0.33	-2.18	
7334.00	89.820	342.460	6398.15	651.82	305.10	-1151.71	1667793.49	14279684.17	39°19'24.078"N	80°54'11.501"W	1191.44	284.837	1.78	0.11	-1.78	
7429.00	89.630	341.600	6398.60	746.81	395.46	-1181.02	1667764.20	14279774.50	39°19'24.971"N	80°54'11.872"W	1245.47	288.513	0.93	-0.20	-0.91	



Actual Wellpath Report

Stronsneider Unit 1H AWP Proj: 15672'

Page 5 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Ritchie County, WV	Well	Stronsneider Unit 1H
Field	Ritchie	Wellbore	Stronsneider Unit 1H AWB
Facility	Mulvay Pad		

WELLPATH DATA (178 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
7524.00	90.030	340.900	6398.89	841.81	485.42	-1211.56	1667733.67	14279864.42	39°19'25.861"N	80°54'12.260"W	1305.18	291.834	0.85	0.42	-0.74	
7619.00	90.280	339.100	6398.63	936.76	574.68	-1244.05	1667701.19	14279953.65	39°19'26.743"N	80°54'12.672"W	1370.37	294.794	1.91	0.26	-1.89	
7714.00	90.430	338.950	6398.04	1031.66	663.39	-1278.06	1667667.20	14280042.32	39°19'27.620"N	80°54'13.104"W	1439.97	297.432	0.22	0.16	-0.16	
7809.00	91.510	346.500	6396.43	1126.56	754.02	-1306.24	1667639.03	14280132.91	39°19'28.517"N	80°54'13.461"W	1508.25	299.995	8.03	1.14	7.95	
7904.00	91.540	351.420	6396.90	1220.73	847.20	-1324.42	1667620.85	14280226.06	39°19'29.438"N	80°54'13.691"W	1572.21	302.606	5.18	0.03	5.18	
7999.00	91.260	344.800	6391.58	1315.05	940.08	-1343.98	1667601.30	14280318.90	39°19'30.356"N	80°54'13.939"W	1640.13	304.972	6.97	-0.29	-6.97	
8095.00	90.890	336.920	6389.77	1410.95	1030.69	-1375.43	1667569.87	14280409.47	39°19'31.252"N	80°54'14.338"W	1718.75	306.846	8.22	-0.39	-8.21	
8189.00	91.420	334.480	6387.88	1504.41	1116.34	-1414.10	1667531.22	14280495.08	39°19'32.099"N	80°54'14.829"W	1801.63	308.289	2.66	0.58	-2.60	
8285.00	90.770	336.780	6386.04	1599.86	1203.76	-1453.70	1667491.63	14280582.47	39°19'32.963"N	80°54'15.331"W	1887.40	309.627	2.49	-0.68	2.40	
8380.00	90.370	338.360	6385.10	1694.60	1291.57	-1489.94	1667455.40	14280670.24	39°19'33.831"N	80°54'15.791"W	1971.82	310.921	1.72	-0.42	1.66	
8475.00	89.540	339.280	6385.17	1789.49	1380.15	-1524.27	1667421.09	14280758.79	39°19'34.707"N	80°54'16.227"W	2056.26	312.159	1.30	-0.87	0.97	
8570.00	89.780	342.890	6385.74	1884.46	1470.00	-1555.06	1667390.31	14280848.61	39°19'35.596"N	80°54'16.617"W	2139.88	313.389	3.81	0.25	3.80	
8665.00	89.660	344.290	6386.20	1979.41	1561.13	-1581.89	1667363.49	14280939.70	39°19'36.497"N	80°54'16.958"W	2222.50	314.621	1.48	-0.13	1.47	
8760.00	89.690	344.970	6386.74	2074.28	1652.73	-1607.07	1667338.32	14281031.26	39°19'37.402"N	80°54'17.277"W	2305.25	315.802	0.72	0.03	0.72	
8854.00	89.690	345.220	6387.25	2168.11	1743.56	-1631.25	1667314.15	14281122.06	39°19'38.300"N	80°54'17.583"W	2387.67	316.906	0.27	0.00	0.27	
8949.00	89.780	347.040	6387.69	2262.82	1836.79	-1654.02	1667291.39	14281214.25	39°19'39.212"N	80°54'17.872"W	2471.01	317.982	1.92	0.09	1.92	
9044.00	89.850	345.970	6387.99	2357.48	1928.16	-1676.19	1667269.23	14281306.59	39°19'40.125"N	80°54'18.153"W	2554.88	318.999	1.13	0.07	-1.13	
9139.00	89.820	343.880	6388.27	2452.32	2019.89	-1700.90	1667244.53	14281398.28	39°19'41.032"N	80°54'18.466"W	2640.64	319.900	2.20	-0.03	-2.20	
9234.00	89.660	343.680	6388.70	2547.25	2111.11	-1727.43	1667218.00	14281489.46	39°19'41.934"N	80°54'18.802"W	2727.78	320.708	0.27	-0.17	-0.21	
9328.00	89.600	341.090	6389.31	2641.23	2200.69	-1755.88	1667189.57	14281579.00	39°19'42.820"N	80°54'19.163"W	2815.34	321.414	2.76	-0.06	-2.76	
9423.00	89.570	339.960	6389.99	2736.21	2290.25	-1787.55	1667157.91	14281668.53	39°19'43.705"N	80°54'19.565"W	2905.27	322.028	1.19	-0.03	-1.19	
9518.00	89.720	335.370	6390.58	2830.95	2378.10	-1823.64	1667121.84	14281756.34	39°19'44.574"N	80°54'20.023"W	2996.83	322.517	4.83	0.16	-4.83	
9613.00	90.180	337.260	6390.67	2925.53	2465.09	-1861.80	1667083.69	14281843.30	39°19'45.434"N	80°54'20.508"W	3089.17	322.937	2.05	0.48	1.99	
9708.00	90.310	339.130	6390.26	3020.35	2553.29	-1897.09	1667048.42	14281931.46	39°19'46.306"N	80°54'20.956"W	3180.92	323.388	1.97	0.14	1.97	
9802.00	90.430	336.210	6389.65	3114.11	2640.23	-1932.80	1667012.72	14282018.37	39°19'47.166"N	80°54'21.409"W	3272.08	323.794	3.11	0.13	-3.11	
9898.00	90.460	334.960	6388.91	3209.57	2727.64	-1972.47	1666973.06	14282105.74	39°19'48.030"N	80°54'21.913"W	3366.11	324.128	1.30	0.03	-1.30	
9992.00	90.340	335.230	6388.25	3302.94	2812.90	-2012.06	1666933.49	14282190.97	39°19'48.873"N	80°54'22.415"W	3458.43	324.424	0.31	-0.13	0.29	
10087.00	90.000	338.050	6387.97	3397.57	2900.10	-2049.72	1666895.84	14282278.13	39°19'49.735"N	80°54'22.893"W	3551.33	324.748	2.99	-0.36	2.97	
10182.00	90.150	341.770	6387.84	3492.51	2989.31	-2082.35	1666863.23	14282367.30	39°19'50.617"N	80°54'23.307"W	3643.09	325.139	3.92	0.16	3.92	
10277.00	90.180	347.190	6387.57	3587.36	3080.81	-2107.76	1666837.83	14282458.77	39°19'51.522"N	80°54'23.630"W	3732.83	325.622	5.71	0.03	5.71	



Actual Wellpath Report

Stronsnider Unit 1H AWP Proj: 15672'

Page 6 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Ritchie County, WV	Well	Stronsnider Unit 1H
Field	Ritchie	Wellbore	Stronsnider Unit 1H AWB
Facility	Mulvay Pad		

WELLPATH DATA (178 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
10371.00	90.060	351.290	6387.37	3680.52	3173.13	-2125.30	1666820.29	14282551.06	39°19'52.435"N	80°54'23.852"W	3819.12	326.187	4.36	-0.13	4.36	
10466.00	90.120	350.890	6387.22	3774.26	3266.96	-2140.18	1666805.42	14282644.85	39°19'53.362"N	80°54'24.040"W	3905.56	326.771	0.63	0.06	-0.63	
10560.00	90.060	348.280	6387.08	3867.38	3359.38	-2157.34	1666788.27	14282737.22	39°19'54.276"N	80°54'24.257"W	3992.43	327.292	2.56	-0.06	-2.56	
10656.00	90.120	338.970	6386.93	3963.22	3451.38	-2184.37	1666761.25	14282829.19	39°19'55.185"N	80°54'24.600"W	4084.54	327.670	9.70	0.06	-9.70	
10751.00	90.030	338.670	6386.80	4058.10	3539.96	-2218.69	1666726.94	14282917.74	39°19'56.061"N	80°54'25.035"W	4177.79	327.922	0.33	-0.09	-0.32	
10846.00	90.060	340.400	6386.73	4153.03	3628.96	-2251.91	1666693.74	14283006.70	39°19'56.941"N	80°54'25.457"W	4270.89	328.179	1.82	0.03	1.82	
10939.00	90.000	340.420	6386.68	4246.01	3716.58	-2283.09	1666662.57	14283094.29	39°19'57.808"N	80°54'25.852"W	4361.82	328.438	0.07	-0.06	0.02	
11034.00	90.060	340.840	6386.63	4341.00	3806.20	-2314.60	1666631.08	14283183.87	39°19'58.694"N	80°54'26.252"W	4454.72	328.696	0.45	0.06	0.44	
11128.00	88.800	339.010	6387.56	4434.94	3894.48	-2346.86	1666598.83	14283272.12	39°19'59.587"N	80°54'26.662"W	4546.95	328.926	2.36	-1.34	-1.95	
11222.00	89.750	337.380	6388.75	4528.76	3981.75	-2381.77	1666563.93	14283359.34	39°20'00.429"N	80°54'27.105"W	4639.73	329.113	2.01	1.01	-1.73	
11317.00	89.720	343.060	6389.19	4623.69	4071.10	-2413.91	1666531.81	14283448.67	39°20'01.313"N	80°54'27.513"W	4732.95	329.335	5.98	-0.03	5.98	
11412.00	89.660	346.260	6389.71	4718.54	4162.71	-2439.03	1666506.69	14283540.23	39°20'02.218"N	80°54'27.831"W	4824.62	329.633	3.37	-0.06	3.37	
11507.00	89.630	345.900	6390.30	4813.26	4254.91	-2461.89	1666483.84	14283632.40	39°20'03.130"N	80°54'28.121"W	4915.81	329.946	0.38	-0.03	-0.38	
11603.00	89.690	346.780	6390.86	4908.94	4348.20	-2484.56	1666461.18	14283725.65	39°20'04.052"N	80°54'28.408"W	5007.98	330.256	0.92	0.06	0.92	
11698.00	89.600	347.060	6391.45	5003.54	4440.73	-2506.06	1666439.69	14283818.14	39°20'04.967"N	80°54'28.681"W	5099.06	330.562	0.31	-0.09	0.29	
11793.00	89.940	342.640	6391.84	5098.37	4532.40	-2530.88	1666414.88	14283909.78	39°20'05.873"N	80°54'28.995"W	5191.15	330.821	4.67	0.36	-4.65	
11888.00	89.630	341.310	6392.19	5193.36	4622.74	-2560.27	1666385.50	14284000.08	39°20'06.766"N	80°54'29.368"W	5284.38	331.020	1.44	-0.33	-1.40	
11983.00	89.630	341.670	6392.81	5288.36	4712.82	-2590.43	1666355.35	14284090.13	39°20'07.657"N	80°54'29.751"W	5377.83	331.204	0.38	0.00	0.38	
12078.00	89.720	341.180	6393.34	5383.36	4802.87	-2620.69	1666325.10	14284180.14	39°20'08.547"N	80°54'30.135"W	5471.34	331.381	0.52	0.09	-0.52	
12173.00	89.820	338.960	6393.73	5478.32	4892.18	-2653.08	1666292.73	14284269.41	39°20'09.430"N	80°54'30.546"W	5565.27	331.529	2.34	0.11	-2.34	
12268.00	89.720	338.670	6394.11	5573.20	4980.75	-2687.41	1666258.42	14284357.95	39°20'10.306"N	80°54'30.982"W	5659.51	331.651	0.32	-0.11	-0.31	
12363.00	89.690	339.160	6394.60	5668.08	5069.39	-2721.58	1666224.25	14284446.56	39°20'11.183"N	80°54'31.415"W	5753.76	331.770	0.52	-0.03	0.52	
12458.00	89.660	339.710	6395.13	5763.01	5158.34	-2754.95	1666190.90	14284535.46	39°20'12.062"N	80°54'31.839"W	5847.92	331.894	0.58	-0.03	0.58	
12553.00	89.720	340.210	6395.65	5857.97	5247.58	-2787.51	1666158.36	14284624.67	39°20'12.945"N	80°54'32.252"W	5942.00	332.023	0.53	0.06	0.53	
12648.00	89.750	341.660	6396.09	5952.96	5337.42	-2818.38	1666127.50	14284714.48	39°20'13.833"N	80°54'32.644"W	6035.84	332.164	1.74	0.03	1.74	
12743.00	89.630	342.840	6396.60	6047.95	5427.95	-2847.18	1666098.70	14284804.97	39°20'14.728"N	80°54'33.009"W	6129.36	332.321	1.04	-0.13	1.03	
12838.00	89.780	344.160	6397.09	6142.90	5519.03	-2874.16	1666071.74	14284896.02	39°20'15.628"N	80°54'33.352"W	6222.58	332.491	1.40	0.16	1.39	
12933.00	89.820	344.680	6397.42	6237.79	5610.54	-2899.68	1666046.23	14284987.49	39°20'16.533"N	80°54'33.675"W	6315.56	332.669	0.55	0.04	0.55	
13028.00	89.780	344.120	6397.75	6332.68	5702.04	-2925.22	1666020.69	14285078.95	39°20'17.438"N	80°54'33.999"W	6408.60	332.842	0.59	-0.04	-0.59	
13123.00	89.600	344.160	6398.27	6427.59	5793.42	-2951.19	1665994.74	14285170.30	39°20'18.341"N	80°54'34.328"W	6501.79	333.006	0.19	-0.19	0.04	



Actual Wellpath Report

Stronsnider Unit 1H AWP Proj: 15672'

Page 7 of 9



04/05/2019

REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #06
Area	Ritchie County, WV	Stronsnider Unit 1H
Field	Ritchie	Stronsnider Unit 1H AWB
Facility	Mulway Pad	

WELLPATH DATA (178 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
13218.00	89.690	343.350	6398.86	6522.52	5884.63	-2977.76	1665968.18	14285261.46	39°20'19.243"N	80°54'34.666"W	6595.14	333.160	0.86	0.09	-0.85	
13313.00	89.750	342.180	6399.32	6617.50	5975.36	-3005.91	1665940.04	14285352.16	39°20'20.140"N	80°54'35.023"W	6688.83	333.295	1.23	0.06	-1.23	
13408.00	89.880	340.280	6399.63	6712.49	6065.30	-3036.48	1665909.49	14285442.07	39°20'21.029"N	80°54'35.410"W	6782.92	333.406	2.00	0.14	-2.00	
13502.00	89.510	335.350	6400.13	6806.25	6152.31	-3071.96	1665874.02	14285529.04	39°20'21.889"N	80°54'35.861"W	6876.62	333.466	5.26	-0.39	-5.24	
13597.00	89.720	337.210	6400.77	6900.82	6239.28	-3110.17	1665838.82	14285615.98	39°20'22.748"N	80°54'36.346"W	6971.50	333.505	1.97	0.22	1.96	
13692.00	90.250	340.510	6400.79	6995.70	6327.88	-3144.43	1665801.58	14285704.54	39°20'23.625"N	80°54'36.781"W	7066.08	333.576	3.52	0.56	3.47	
13787.00	90.060	339.210	6400.54	7090.65	6417.07	-3177.14	1665768.88	14285793.69	39°20'24.507"N	80°54'37.196"W	7160.51	333.660	1.38	-0.20	-1.37	
13881.00	90.030	334.650	6400.46	7184.30	6503.53	-3213.96	1665732.07	14285880.11	39°20'25.382"N	80°54'37.664"W	7254.34	333.702	4.85	-0.03	-4.85	
13977.00	90.060	339.570	6400.39	7279.97	6591.94	-3251.29	1665694.76	14285968.49	39°20'26.236"N	80°54'38.138"W	7350.14	333.746	5.13	0.03	5.13	
14071.00	90.250	343.570	6400.13	7373.95	6681.10	-3281.00	1665665.06	14286057.62	39°20'27.118"N	80°54'38.615"W	7443.26	333.845	4.26	0.20	4.26	
14166.00	90.180	343.300	6399.77	7468.90	6772.16	-3308.09	1665637.99	14286148.64	39°20'28.018"N	80°54'38.859"W	7536.94	333.965	0.29	-0.07	-0.28	
14261.00	90.250	344.740	6399.42	7563.82	6863.48	-3334.24	1665611.84	14286239.93	39°20'28.921"N	80°54'39.190"W	7630.50	334.090	1.52	0.07	1.52	
14357.00	89.970	346.630	6399.23	7659.58	6956.50	-3357.97	1665588.12	14286332.90	39°20'29.840"N	80°54'39.491"W	7724.56	334.233	1.99	-0.29	1.97	
14452.00	90.310	346.930	6399.00	7754.20	7048.98	-3379.70	1665566.40	14286425.35	39°20'30.755"N	80°54'39.767"W	7817.32	334.384	0.48	0.36	0.32	
14547.00	90.120	345.410	6398.65	7848.90	7141.22	-3402.41	1665543.70	14286517.55	39°20'31.667"N	80°54'40.054"W	7910.34	334.525	1.61	-0.20	-1.60	
14641.00	90.030	345.070	6398.52	7942.72	7232.12	-3426.36	1665519.76	14286608.41	39°20'32.565"N	80°54'40.358"W	8002.72	334.650	0.37	-0.10	-0.36	
14736.00	89.970	343.290	6398.52	8037.63	7323.52	-3452.25	1665493.88	14286699.78	39°20'33.469"N	80°54'40.687"W	8096.42	334.761	1.87	-0.06	-1.87	
14831.00	89.860	340.870	6398.65	8132.62	7413.90	-3481.48	1665464.66	14286790.12	39°20'34.362"N	80°54'41.057"W	8190.64	334.846	2.55	-0.09	-2.55	
14927.00	90.120	340.410	6398.65	8228.60	7504.47	-3513.31	1665432.85	14286880.66	39°20'35.258"N	80°54'41.461"W	8286.16	334.913	0.54	0.25	-0.48	
15021.00	90.060	341.220	6398.90	8322.58	7593.25	-3544.20	1665401.97	14286969.40	39°20'36.136"N	80°54'41.893"W	8379.67	334.979	0.86	-0.06	0.86	
15116.00	89.880	340.930	6398.55	8417.58	7683.12	-3575.01	1665371.17	14287059.23	39°20'37.024"N	80°54'42.245"W	8474.13	335.047	0.36	-0.19	-0.31	
15211.00	90.000	340.690	6398.65	8512.57	7772.84	-3606.23	1665339.96	14287148.92	39°20'37.911"N	80°54'42.641"W	8568.66	335.111	0.28	0.13	-0.25	
15306.00	89.940	338.850	6398.70	8607.52	7861.97	-3639.08	1665307.12	14287238.02	39°20'38.793"N	80°54'43.058"W	8663.34	335.162	1.94	-0.06	-1.94	
15401.00	90.030	333.990	6398.72	8702.09	7949.01	-3677.07	1665269.15	14287325.02	39°20'39.653"N	80°54'43.540"W	8758.29	335.176	5.12	0.09	-5.12	
15495.00	89.820	334.580	6398.85	8795.31	8033.70	-3717.86	1665228.38	14287409.68	39°20'40.491"N	80°54'44.058"W	8852.28	335.166	0.67	-0.22	0.63	
15590.00	89.820	339.050	6399.14	8889.94	8121.01	-3755.25	1665191.00	14287496.95	39°20'41.354"N	80°54'44.533"W	8947.22	335.184	4.71	0.00	4.71	
15647.00	89.910	339.730	6399.28	8946.90	8174.36	-3775.32	1665170.94	14287580.28	39°20'41.881"N	80°54'44.788"W	9004.06	335.210	1.20	0.16	1.19	
15672.00	89.910	339.730	6399.32	8971.88	8197.81	-3783.98	1665162.29	14287573.72	39°20'42.113"N	80°54'44.898"W	9028.99	335.223	0.00	0.00	0.00	Projected MD at TD: 15672'



Actual Wellpath Report

Stroonsider Unit 1H AWP Proj: 15672'

Page 8 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #06
ANTERO RESOURCES CORPORATION	Well	Stroonsider Unit 1H
Ritchie County, WV	Wellbore	Stroonsider Unit 1H AWB
Ritchie		
Facility		

HOLE & CASING SECTIONS - Ref Wellbore: Stroonsider Unit 1H AWB Ref Wellpath: Stroonsider Unit 1H AWP Proj: 15672'

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	-0.01	-0.06
17.5in Open Hole	104.50	565.50	461.00	104.50	565.50	-0.01	-0.06	-1.54	-0.05
13.375in Casing Surface	24.50	565.50	541.00	24.50	565.50	0.00	0.00	-1.54	-0.05
12.25in Open Hole	565.50	2533.50	1968.00	565.50	2499.78	-1.54	-0.05	-220.73	-249.43
9.625in Casing Intermediate	24.50	2533.50	2509.00	24.50	2499.78	0.00	0.00	-220.73	-249.43
8.75in Open Hole	2533.50	6229.50	3696.00	2499.78	6104.18	-220.73	-249.43	-630.05	-851.53
8.5in Open Hole	6229.50	15672.00	9442.50	6104.18	6399.32	-630.05	-851.53	8197.81	-3783.98
5.5in Casing Production	24.50	15672.00	15647.50	24.50	6399.32	0.00	0.00	8197.81	-3783.98

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Stroonsider Unit 1H POE - Rev-1	6374.00	-348.19	-1001.26	1667943.89	14279031.15	39°19'17.619"N	80°54'09.595"W	point
Stroonsider Unit 1H BHL - Rev-2	6397.00	8198.83	-3765.24	1665181.01	14287574.74	39°20'42.123"N	80°54'44.660"W	point
Stroonsider Unit 1H LP - Rev-1	6397.00	-202.44	-1034.23	1667910.93	14279176.84	39°19'19.060"N	80°54'10.013"W	point

WELLPATH COMPOSITION - Ref Wellbore: Stroonsider Unit 1H AWB Ref Wellpath: Stroonsider Unit 1H AWP Proj: 15672'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
24.50	6038.50	Gyrodata standard - Drop gyro or Multi-shot	
6038.50	6143.50	ISWISA MWD, Rev. 4 (Standard)	Stroonsider Unit 1H AWB
6143.50	15647.00	BHI AutoTrak Curve (Short)	Stroonsider Unit 1H AWB
15647.00	15672.00	Blind Drilling (std)	Stroonsider Unit 1H AWB



Actual Wellpath Report

Stronsnider Unit 1H AWP Proj: 15672'
Page 9 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Ritchie County, WV	Well	Stronsnider Unit 1H
Field	Ritchie	Wellbore	Stronsnider Unit 1H AWB
Facility	Mulvay Pad		

COMMENTS
<p>Wellpath general comments API: 47-085-10201-0000 BHI Job #: 8616511 Rig: Frontier 22 Duration: 06/20/2017-06/22/2017 Gyrodata MS Gyro <8-3/4"> (100'-6029') Directional ONE MWD <8-3/4"> (6029)(6046'-6134') BHI AT Curve <8-1/2"> (6143.50')(6195'-15647') Middlesex: 6353' MD Burket: 6519' MD Tully: 6590' MD Marcellus POE: 6669' MD Projected MD at TD: 15672'</p>