



ANTERO RESOURCES CORPORATION

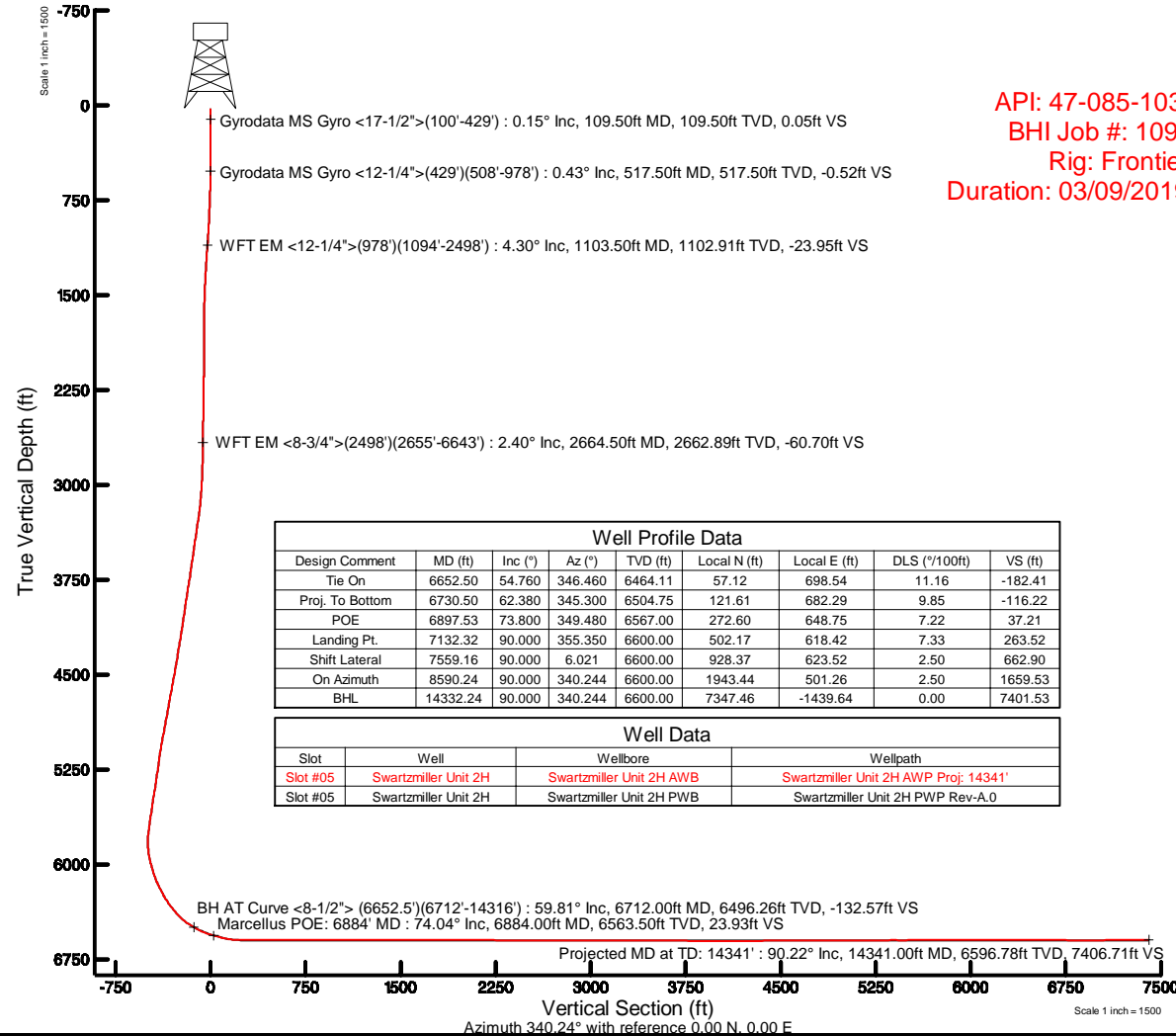
Location: Ritchie County, WV
 Field: Ritchie
 Facility: Weekley Trust Pad

Slot: Slot #05
 Well: Swartzmiller Unit 2H
 Wellbore: Swartzmiller Unit 2H PWB



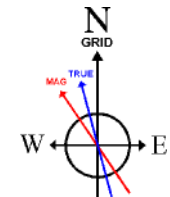
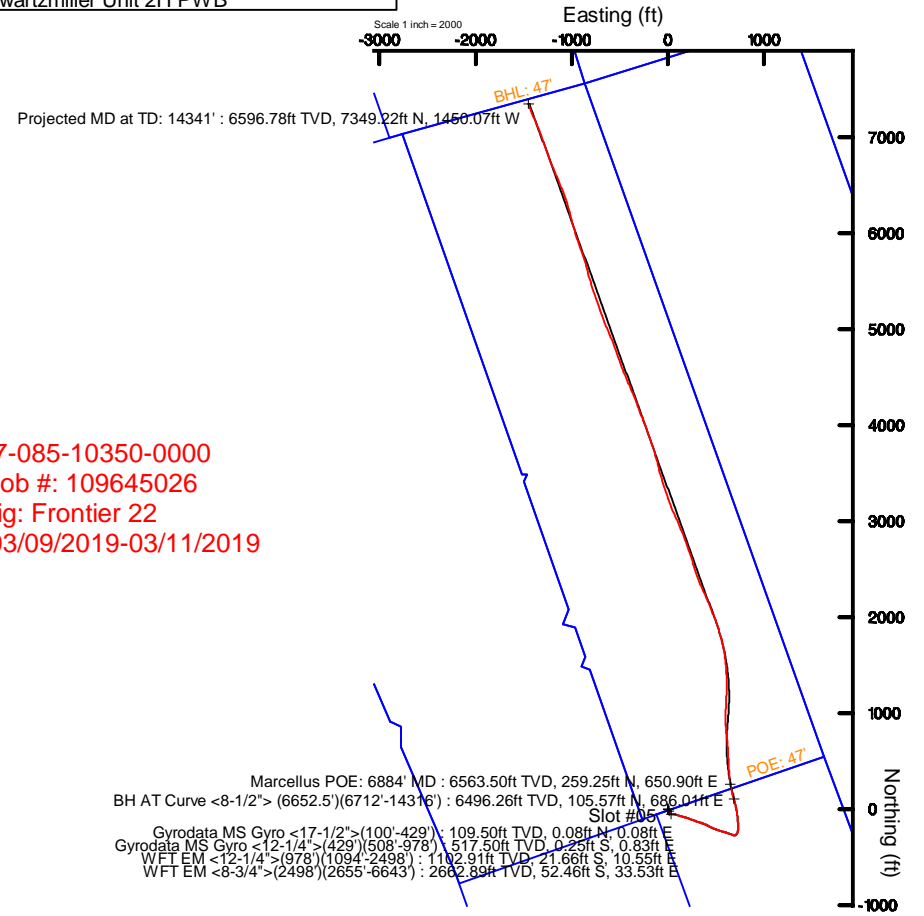
Plot reference wellpath is Swartzmiller Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Frontier 22 (RKB)	North Reference: Grid north
Measured depths are referenced to Frontier 22 (RKB)	Scale: True distance
Frontier 22 (RKB) to Mean Sea Level: 1259.5 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot #05): -1235 feet	Created by: delaset on 2019-03-13
Coordinates are in feet referenced to Slot	Database: WA_MPL_EasternUS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Weekley Trust Pad	1661856.457	14297226.975	39°22'17.590"N	80°55'26.890"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #05	6.10	39.26	1661895.703	14297233.076
			39°22'17.650"N	80°55'26.390"W
Frontier 22 (RKB) to Ground level (At Slot: Slot #05)	24.5ft			
Mean Sea Level to Ground level (At Slot: Slot #05)	-1235ft			
Frontier 22 (RKB) to Mean Sea Level	1259.5ft			



Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6652.50	54.760	346.460	6464.11	57.12	698.54	11.16	-182.41
Proj. To Bottom	6730.50	62.380	345.300	6504.75	121.61	682.29	9.85	-116.22
POE	6897.53	73.800	349.480	6567.00	272.60	648.75	7.22	37.21
Landing Pt.	7132.32	90.000	355.350	6600.00	502.17	618.42	7.33	263.52
Shift Lateral	7559.16	90.000	6.021	6600.00	928.37	623.52	2.50	662.90
On Azimuth	8590.24	90.000	340.244	6600.00	1943.44	501.26	2.50	1659.53
BHL	14332.24	90.000	340.244	6600.00	7347.46	-1439.64	0.00	7401.53

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #05	Swartzmiller Unit 2H	Swartzmiller Unit 2H AWB	Swartzmiller Unit 2H AWP Proj: 14341'
Slot #05	Swartzmiller Unit 2H	Swartzmiller Unit 2H PWB	Swartzmiller Unit 2H PWP Rev-A.0



User specified (HDGM) Dip: 66.46° Field: 51801 nT
 Magnetic North is 7.69 degrees West of True North (at 3/5/2019)
 Grid North is 0.05 degrees East of True North
 To correct azimuth from True to Grid subtract 0.05 degrees
 To correct azimuth from Magnetic to Grid subtract 7.74 degrees



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'

Page 1 of 10



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

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	3/13/2019 at 10:55:26 AM
Convergence at slot	0.05° East	Database/Source file	WA_MPL_EasternUS_Defn/Swartzmiller_Unit_2H_AWP_Proj_14341_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	6.10	39.26	1661895.70	14297233.08	39°22'17.650"N	80°55'26.390"W
Facility Reference Pt			1661856.46	14297226.98	39°22'17.590"N	80°55'26.890"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	24.50ft
Horizontal Reference Pt	Slot	Frontier 22 (RKB) to Mean Sea Level	1259.50ft
Vertical Reference Pt	Frontier 22 (RKB)	Frontier 22 (RKB) to Ground Level at Slot (Slot #05)	24.50ft
MD Reference Pt	Frontier 22 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.24°



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 2 of 10



REFERENCE WELLPATH IDENTIFICATION

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Area	Ritchie County, WV	Well	Swartzmiller Unit 2H
Field	Ritchie	Wellbore	Swartzmiller Unit 2H AWB
Facility	Weekley Trust Pad		

WELLPATH DATA (190 stations) † = interpolated/extrapolated station

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
0.00†	0.000	46.020	0.00	0.00	0.00	0.00	1661895.70	14297233.08	39°22'17.650"N	80°55'26.390"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	46.020	24.50	0.00	0.00	0.00	1661895.70	14297233.08	39°22'17.650"N	80°55'26.390"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.150	46.020	109.50	0.05	0.08	0.08	1661895.78	14297233.15	39°22'17.651"N	80°55'26.389"W	0.11	46.020	0.18	0.18	54.14	Gyrodata MS Gyro <17-1/2">(100'-429')
134.50	0.180	55.740	134.50	0.07	0.12	0.14	1661895.84	14297233.20	39°22'17.651"N	80°55'26.388"W	0.18	48.098	0.16	0.12	38.88	
159.50	0.220	52.370	159.50	0.09	0.17	0.21	1661895.91	14297233.25	39°22'17.652"N	80°55'26.387"W	0.27	49.967	0.17	0.16	-13.48	
184.50	0.220	28.960	184.50	0.14	0.24	0.27	1661895.97	14297233.32	39°22'17.652"N	80°55'26.387"W	0.36	47.567	0.36	0.00	-93.64	
209.50	0.170	103.120	209.50	0.15	0.28	0.33	1661896.03	14297233.35	39°22'17.653"N	80°55'26.386"W	0.43	49.604	0.95	-0.20	296.64	
234.50	0.110	86.390	234.50	0.12	0.27	0.39	1661896.09	14297233.35	39°22'17.653"N	80°55'26.385"W	0.47	54.966	0.29	-0.24	-66.92	
259.50	0.140	80.790	259.50	0.11	0.28	0.44	1661896.14	14297233.35	39°22'17.653"N	80°55'26.384"W	0.52	57.804	0.13	0.12	-22.40	
284.50	0.150	61.210	284.50	0.11	0.30	0.50	1661896.20	14297233.37	39°22'17.653"N	80°55'26.384"W	0.58	59.168	0.20	0.04	-78.32	
309.50	0.130	196.390	309.50	0.09	0.29	0.52	1661896.22	14297233.36	39°22'17.653"N	80°55'26.383"W	0.59	61.137	1.04	-0.08	540.72	
334.50	0.130	142.840	334.50	0.04	0.24	0.53	1661896.23	14297233.31	39°22'17.652"N	80°55'26.383"W	0.58	65.882	0.47	0.00	-214.20	
359.50	0.080	160.550	359.50	0.00	0.20	0.55	1661896.26	14297233.27	39°22'17.652"N	80°55'26.383"W	0.59	70.278	0.24	-0.20	70.84	
384.50	0.030	90.890	384.50	-0.02	0.18	0.57	1661896.27	14297233.26	39°22'17.652"N	80°55'26.383"W	0.59	72.185	0.30	-0.20	-278.64	
409.50	0.100	142.170	409.50	-0.04	0.16	0.59	1661896.29	14297233.24	39°22'17.652"N	80°55'26.383"W	0.61	74.316	0.34	0.28	205.12	
434.50	0.200	119.600	434.50	-0.10	0.13	0.64	1661896.34	14297233.20	39°22'17.651"N	80°55'26.382"W	0.65	78.844	0.46	0.40	-90.28	
438.50	0.180	138.500	438.50	-0.11	0.12	0.65	1661896.35	14297233.19	39°22'17.651"N	80°55'26.382"W	0.66	79.714	1.64	-0.50	472.50	
517.50	0.430	159.670	517.50	-0.52	-0.25	0.83	1661896.53	14297232.82	39°22'17.647"N	80°55'26.379"W	0.87	106.949	0.34	0.32	26.80	Gyrodata MS Gyro <12-1/4">(429')(508'-978')
610.50	1.020	175.950	610.49	-1.67	-1.41	1.01	1661896.71	14297231.67	39°22'17.636"N	80°55'26.377"W	1.73	144.273	0.67	0.63	17.51	
703.50	1.960	170.620	703.46	-4.03	-3.80	1.33	1661897.03	14297229.28	39°22'17.612"N	80°55'26.373"W	4.03	160.725	1.02	1.01	-5.73	
796.50	2.310	165.190	796.39	-7.46	-7.18	2.07	1661897.77	14297225.90	39°22'17.579"N	80°55'26.364"W	7.47	163.940	0.43	0.38	-5.84	
892.50	2.620	150.140	892.30	-11.55	-10.96	3.65	1661899.36	14297222.12	39°22'17.542"N	80°55'26.344"W	11.55	161.552	0.74	0.32	-15.68	
987.50	3.380	147.560	987.17	-16.42	-15.20	6.24	1661901.94	14297217.88	39°22'17.500"N	80°55'26.311"W	16.43	157.690	0.81	0.80	-2.72	
1103.50	4.300	145.200	1102.91	-23.95	-21.66	10.55	1661906.25	14297211.43	39°22'17.436"N	80°55'26.256"W	24.09	154.021	0.80	0.79	-2.03	WFT EM <12-1/4">(978')(1094'-2498')
1198.50	4.590	141.070	1197.63	-30.98	-27.54	14.98	1661910.67	14297205.55	39°22'17.378"N	80°55'26.200"W	31.35	151.465	0.45	0.31	-4.35	
1293.50	3.790	134.410	1292.37	-37.40	-32.70	19.61	1661915.30	14297200.39	39°22'17.327"N	80°55'26.141"W	38.12	149.049	0.98	-0.84	-7.01	
1388.50	2.840	131.930	1387.21	-42.30	-36.47	23.60	1661919.29	14297196.63	39°22'17.289"N	80°55'26.090"W	43.44	147.088	1.01	-1.00	-2.61	
1482.50	2.270	146.500	1481.12	-46.16	-39.57	26.36	1661922.05	14297193.52	39°22'17.259"N	80°55'26.055"W	47.55	146.332	0.91	-0.61	15.50	
1577.50	0.940	178.900	1576.08	-48.72	-41.92	27.41	1661923.11	14297191.17	39°22'17.235"N	80°55'26.041"W	50.09	146.818	1.64	-1.40	34.11	
1672.50	0.650	210.080	1671.07	-49.81	-43.17	27.16	1661922.85	14297189.93	39°22'17.223"N	80°55'26.045"W	51.00	147.824	0.54	-0.31	32.82	



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 3 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Swartzmiller Unit 2H
Field	Ritchie	Wellbore	Swartzmiller Unit 2H AWB
Facility	Weekley Trust 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
1767.50	0.650	223.480	1766.07	-50.40	-44.02	26.52	1661922.21	14297189.07	39°22'17.215"N	80°55'26.053"W	51.39	148.937	0.16	0.00	14.11	
1862.50	0.790	229.070	1861.06	-50.88	-44.84	25.65	1661921.35	14297188.25	39°22'17.207"N	80°55'26.064"W	51.66	150.229	0.16	0.15	5.88	
1957.50	0.890	222.920	1956.05	-51.45	-45.81	24.66	1661920.35	14297187.28	39°22'17.197"N	80°55'26.077"W	52.03	151.712	0.14	0.11	-6.47	
2052.50	0.590	174.420	2051.04	-52.26	-46.84	24.20	1661919.89	14297186.25	39°22'17.187"N	80°55'26.082"W	52.72	152.677	0.70	-0.32	-51.05	
2147.50	0.600	138.240	2146.04	-53.20	-47.70	24.58	1661920.27	14297185.40	39°22'17.178"N	80°55'26.078"W	53.66	152.738	0.39	0.01	-38.08	
2242.50	0.740	146.080	2241.03	-54.26	-48.58	25.25	1661920.95	14297184.52	39°22'17.170"N	80°55'26.069"W	54.75	152.533	0.18	0.15	8.25	
2336.50	0.890	148.860	2335.02	-55.56	-49.71	25.97	1661921.66	14297183.39	39°22'17.158"N	80°55'26.060"W	56.08	152.416	0.16	0.16	2.96	
2431.50	1.050	153.840	2430.01	-57.15	-51.12	26.73	1661922.43	14297181.98	39°22'17.145"N	80°55'26.050"W	57.69	152.392	0.19	0.17	5.24	
2507.50	1.610	101.660	2505.99	-58.40	-51.96	28.09	1661923.78	14297181.14	39°22'17.136"N	80°55'26.033"W	59.07	151.607	1.68	0.74	-68.66	
2664.50	2.400	90.860	2662.89	-60.70	-52.46	33.53	1661929.22	14297180.64	39°22'17.131"N	80°55'25.964"W	62.26	147.410	0.56	0.50	-6.88	WFT EM <8-3/4">(2498')(2655'-6643')
2759.50	2.250	86.110	2757.81	-61.92	-52.36	37.38	1661933.07	14297180.74	39°22'17.132"N	80°55'25.915"W	64.34	144.474	0.26	-0.16	-5.00	
2854.50	3.770	95.560	2852.68	-63.76	-52.54	42.35	1661938.04	14297180.56	39°22'17.130"N	80°55'25.851"W	67.48	141.125	1.68	1.60	9.95	
2949.50	5.880	96.590	2947.34	-67.26	-53.40	50.30	1661945.98	14297179.70	39°22'17.122"N	80°55'25.750"W	73.36	136.713	2.22	2.22	1.08	
3044.50	7.860	97.930	3041.65	-72.44	-54.85	61.57	1661957.24	14297178.25	39°22'17.107"N	80°55'25.607"W	82.46	131.699	2.09	2.08	1.41	
3138.50	9.830	105.690	3134.53	-80.08	-57.91	75.66	1661971.33	14297175.19	39°22'17.077"N	80°55'25.427"W	95.28	127.430	2.45	2.10	8.26	
3233.50	12.290	106.110	3227.76	-90.71	-62.91	93.18	1661988.85	14297170.19	39°22'17.027"N	80°55'25.204"W	112.43	124.024	2.59	2.59	0.44	
3328.50	14.380	107.780	3320.20	-103.82	-69.32	114.13	1662009.79	14297163.79	39°22'16.964"N	80°55'24.937"W	133.53	121.272	2.24	2.20	1.76	
3423.50	14.320	105.910	3412.23	-117.86	-76.14	136.66	1662032.31	14297156.97	39°22'16.896"N	80°55'24.651"W	156.44	119.124	0.49	-0.06	-1.97	
3523.50	13.770	103.210	3509.24	-131.55	-82.25	160.14	1662055.78	14297150.86	39°22'16.836"N	80°55'24.352"W	180.03	117.185	0.86	-0.55	-2.70	
3618.50	13.990	107.160	3601.47	-144.60	-88.22	182.12	1662077.75	14297144.89	39°22'16.777"N	80°55'24.072"W	202.37	115.846	1.02	0.23	4.16	
3712.50	13.800	106.820	3692.72	-158.11	-94.82	203.71	1662099.33	14297138.30	39°22'16.711"N	80°55'23.797"W	224.70	114.960	0.22	-0.20	-0.36	
3807.50	13.650	112.610	3785.01	-172.41	-102.41	224.91	1662120.52	14297130.71	39°22'16.636"N	80°55'23.527"W	247.12	114.481	1.45	-0.16	6.09	
3902.50	13.030	112.100	3877.45	-187.11	-110.75	245.18	1662140.78	14297122.38	39°22'16.553"N	80°55'23.269"W	269.03	114.309	0.66	-0.65	-0.54	
3997.50	12.250	110.660	3970.15	-200.80	-118.33	264.53	1662160.13	14297114.79	39°22'16.478"N	80°55'23.023"W	289.79	114.100	0.89	-0.82	-1.52	
4092.50	13.090	109.230	4062.83	-214.10	-125.43	284.12	1662179.71	14297107.70	39°22'16.408"N	80°55'22.774"W	310.57	113.820	0.94	0.88	-1.51	
4186.50	14.270	108.650	4154.16	-227.99	-132.64	305.15	1662200.73	14297100.49	39°22'16.336"N	80°55'22.506"W	332.73	113.494	1.26	1.26	-0.62	
4281.50	15.110	108.800	4246.06	-242.99	-140.38	327.96	1662223.53	14297092.76	39°22'16.260"N	80°55'22.215"W	356.74	113.172	0.89	0.88	0.16	
4376.50	14.760	107.490	4337.85	-258.03	-148.00	351.22	1662246.79	14297085.13	39°22'16.184"N	80°55'21.919"W	381.13	112.850	0.51	-0.37	-1.38	
4471.50	14.620	110.600	4429.74	-273.12	-155.86	373.99	1662269.54	14297077.28	39°22'16.106"N	80°55'21.630"W	405.17	112.624	0.84	-0.15	3.27	
4565.50	14.630	116.670	4520.70	-289.40	-165.36	395.70	1662291.25	14297067.78	39°22'16.012"N	80°55'21.353"W	428.87	112.680	1.63	0.01	6.46	



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 4 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
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Field	Ritchie	Wellbore	Swartzmiller Unit 2H AWB
Facility	Weekley Trust 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
4660.50	14.400	116.520	4612.67	-306.63	-176.02	416.99	1662312.53	14297057.13	39°22'15.907"N	80°55'21.082"W	452.62	112.885	0.25	-0.24	-0.16	
4755.50	13.860	115.170	4704.80	-323.21	-186.13	437.86	1662333.39	14297047.02	39°22'15.807"N	80°55'20.817"W	475.78	113.030	0.67	-0.57	-1.42	
4850.50	14.610	114.930	4796.88	-339.67	-196.02	459.03	1662354.55	14297037.13	39°22'15.709"N	80°55'20.547"W	499.13	113.125	0.79	0.79	-0.25	
4945.50	15.580	113.610	4888.60	-356.86	-206.18	481.58	1662377.09	14297026.97	39°22'15.608"N	80°55'20.260"W	523.86	113.178	1.08	1.02	-1.39	
5040.50	15.740	110.870	4980.08	-374.01	-215.88	505.31	1662400.81	14297017.28	39°22'15.512"N	80°55'19.958"W	549.50	113.134	0.80	0.17	-2.88	
5134.50	15.220	109.170	5070.67	-390.06	-224.48	528.88	1662424.37	14297008.69	39°22'15.427"N	80°55'19.658"W	574.55	112.998	0.73	-0.55	-1.81	
5229.50	14.340	105.250	5162.52	-404.65	-231.67	552.01	1662447.49	14297001.50	39°22'15.356"N	80°55'19.364"W	598.65	112.767	1.40	-0.93	-4.13	
5324.50	13.650	102.930	5254.70	-417.45	-237.27	574.29	1662469.76	14296995.90	39°22'15.300"N	80°55'19.080"W	621.37	112.448	0.94	-0.73	-2.44	
5419.50	14.110	106.630	5346.93	-430.38	-243.09	596.31	1662491.77	14296990.08	39°22'15.242"N	80°55'18.800"W	643.95	112.179	1.05	0.48	3.89	
5514.50	14.720	111.360	5438.94	-445.19	-250.80	618.64	1662514.10	14296982.37	39°22'15.166"N	80°55'18.515"W	667.55	112.068	1.40	0.64	4.98	
5609.50	12.970	109.160	5531.18	-459.82	-258.70	639.96	1662535.40	14296974.48	39°22'15.088"N	80°55'18.244"W	690.27	112.011	1.92	-1.84	-2.32	
5703.50	12.610	108.910	5622.85	-472.86	-265.49	659.63	1662555.07	14296967.70	39°22'15.020"N	80°55'17.994"W	711.05	111.924	0.39	-0.38	-0.27	
5798.50	12.790	107.520	5715.53	-485.71	-272.01	679.47	1662574.90	14296961.17	39°22'14.956"N	80°55'17.741"W	731.89	111.818	0.37	0.19	-1.46	
5861.50	11.690	94.810	5777.10	-492.59	-274.65	692.48	1662587.90	14296958.54	39°22'14.930"N	80°55'17.575"W	744.96	111.634	4.61	-1.75	-20.17	
5893.50	10.980	79.990	5808.49	-494.45	-274.39	698.71	1662594.13	14296958.80	39°22'14.932"N	80°55'17.496"W	750.66	111.440	9.34	-2.22	-46.31	
5925.50	10.940	62.690	5839.91	-494.57	-272.47	704.41	1662599.83	14296960.72	39°22'14.951"N	80°55'17.423"W	755.27	111.146	10.24	-0.12	-54.06	
5956.50	11.850	49.460	5870.30	-493.06	-269.05	709.45	1662604.86	14296964.14	39°22'14.985"N	80°55'17.359"W	758.75	110.769	8.90	2.94	-42.68	
5988.50	13.180	39.940	5901.55	-490.05	-264.11	714.29	1662609.70	14296969.07	39°22'15.034"N	80°55'17.298"W	761.55	110.292	7.66	4.16	-29.75	
6019.50	14.790	31.860	5931.63	-485.81	-258.04	718.64	1662614.06	14296975.14	39°22'15.094"N	80°55'17.242"W	763.57	109.752	8.15	5.19	-26.06	
6051.50	16.170	22.420	5962.47	-479.97	-250.45	722.50	1662617.91	14296982.72	39°22'15.169"N	80°55'17.193"W	764.68	109.119	8.96	4.31	-29.50	
6083.50	17.310	14.970	5993.12	-472.75	-241.73	725.43	1662620.84	14296991.44	39°22'15.255"N	80°55'17.156"W	764.65	108.430	7.59	3.56	-23.28	
6114.50	18.270	9.130	6022.64	-464.71	-232.48	727.39	1662622.80	14297000.69	39°22'15.346"N	80°55'17.130"W	763.64	107.724	6.53	3.10	-18.84	
6146.50	19.290	6.110	6052.94	-455.56	-222.27	728.75	1662624.16	14297010.89	39°22'15.447"N	80°55'17.113"W	761.89	106.962	4.40	3.19	-9.44	
6178.50	20.860	3.560	6082.99	-445.57	-211.33	729.67	1662625.08	14297021.83	39°22'15.555"N	80°55'17.101"W	759.65	106.152	5.62	4.91	-7.97	
6209.50	22.820	1.870	6111.77	-434.91	-199.81	730.21	1662625.62	14297033.35	39°22'15.669"N	80°55'17.094"W	757.05	105.304	6.64	6.32	-5.45	
6241.50	24.800	0.150	6141.04	-422.83	-186.90	730.43	1662625.84	14297046.26	39°22'15.797"N	80°55'17.091"W	753.96	104.352	6.56	6.19	-5.37	
6272.50	27.050	358.840	6168.92	-410.04	-173.34	730.30	1662625.71	14297059.80	39°22'15.931"N	80°55'17.093"W	750.59	103.353	7.49	7.26	-4.23	
6304.50	28.340	356.980	6197.25	-395.87	-158.48	729.75	1662625.16	14297074.66	39°22'16.077"N	80°55'17.100"W	746.76	102.253	4.85	4.03	-5.81	
6336.50	28.870	355.530	6225.35	-381.14	-143.20	728.75	1662624.16	14297089.94	39°22'16.229"N	80°55'17.112"W	742.69	101.117	2.73	1.66	-4.53	
6367.50	30.460	355.180	6252.28	-366.33	-127.91	727.51	1662622.92	14297105.22	39°22'16.380"N	80°55'17.128"W	738.67	99.971	5.16	5.13	-1.13	



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 5 of 10



REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (190 stations) † = interpolated/extrapolated station

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
6399.50	32.290	355.210	6279.60	-350.24	-111.30	726.11	1662621.52	14297121.82	39°22'16.544"N	80°55'17.145"W	734.59	98.715	5.72	5.72	0.09	
6431.50	34.870	355.380	6306.26	-333.15	-93.67	724.66	1662620.07	14297139.45	39°22'16.718"N	80°55'17.164"W	730.69	97.365	8.07	8.06	0.53	
6462.50	37.470	354.400	6331.28	-315.45	-75.45	723.03	1662618.44	14297157.66	39°22'16.898"N	80°55'17.184"W	726.95	95.957	8.59	8.39	-3.16	
6494.50	40.360	352.420	6356.18	-295.87	-55.48	720.71	1662616.12	14297177.61	39°22'17.096"N	80°55'17.214"W	722.84	94.402	9.83	9.03	-6.19	
6526.50	42.630	350.620	6380.15	-275.08	-34.52	717.58	1662612.99	14297198.57	39°22'17.303"N	80°55'17.253"W	718.41	92.754	8.01	7.09	-5.63	
6557.50	44.780	349.540	6402.56	-253.98	-13.42	713.88	1662609.30	14297219.66	39°22'17.511"N	80°55'17.300"W	714.01	91.077	7.34	6.94	-3.48	
6574.00†	46.263	348.822	6414.12	-242.35	-1.86	711.67	1662607.09	14297231.22	39°22'17.626"N	80°55'17.328"W	711.67	90.150	9.51	8.99	-4.35	Middlesex: 6574' MD
6589.50	47.660	348.180	6424.70	-231.14	9.24	709.41	1662604.83	14297242.32	39°22'17.735"N	80°55'17.357"W	709.47	89.254	9.51	9.01	-4.14	
6620.50	51.230	347.150	6444.85	-207.79	32.25	704.38	1662599.80	14297265.31	39°22'17.963"N	80°55'17.421"W	705.11	87.379	11.79	11.52	-3.32	
6652.50	54.760	346.460	6464.11	-182.41	57.12	698.54	1662593.96	14297290.17	39°22'18.209"N	80°55'17.495"W	700.87	85.325	11.16	11.03	-2.16	
6712.00	59.810	344.580	6496.26	-132.57	105.57	686.01	1662581.43	14297338.60	39°22'18.688"N	80°55'17.654"W	694.08	81.251	8.89	8.49	-3.16	BH AT Curve <8-1/2"> (6652.5')(6712'-14316')
6747.00†	62.085	344.836	6513.25	-102.07	135.08	677.94	1662573.37	14297368.10	39°22'18.979"N	80°55'17.756"W	691.26	78.731	6.53	6.50	0.73	Burkett: 6747' MD
6756.00	62.670	344.900	6517.42	-94.12	142.78	675.86	1662571.29	14297375.80	39°22'19.055"N	80°55'17.783"W	690.77	78.071	6.53	6.50	0.71	
6803.00	67.390	346.960	6537.26	-51.74	184.09	665.52	1662560.95	14297417.10	39°22'19.464"N	80°55'17.914"W	690.51	74.538	10.80	10.04	4.38	
6817.00†	68.754	347.708	6542.49	-38.86	196.77	662.67	1662558.11	14297429.76	39°22'19.589"N	80°55'17.950"W	691.26	73.462	10.93	9.74	5.34	Tully: 6817' MD
6851.00	72.080	349.470	6553.88	-7.17	228.16	656.34	1662551.78	14297461.14	39°22'19.899"N	80°55'18.030"W	694.86	70.831	10.93	9.78	5.18	
6884.00†	74.038	350.669	6563.50	23.93	259.25	650.90	1662546.34	14297492.23	39°22'20.207"N	80°55'18.099"W	700.63	68.282	6.87	5.93	3.63	Marcellus POE: 6884' MD
6898.00	74.870	351.170	6567.25	37.19	272.57	648.77	1662544.21	14297505.54	39°22'20.339"N	80°55'18.126"W	703.70	67.211	6.87	5.95	3.58	
6946.00	76.330	353.180	6579.19	82.67	318.63	642.44	1662537.89	14297551.58	39°22'20.794"N	80°55'18.206"W	717.11	63.620	5.07	3.04	4.19	
6993.00	80.390	355.230	6588.67	127.33	364.41	637.80	1662533.25	14297597.34	39°22'21.246"N	80°55'18.265"W	734.57	60.258	9.64	8.64	4.36	
7041.00	85.070	356.280	6594.74	173.19	411.88	634.28	1662529.73	14297644.79	39°22'21.716"N	80°55'18.309"W	756.28	57.001	9.99	9.75	2.19	
7088.00	88.520	357.550	6597.37	218.14	458.73	631.75	1662527.20	14297691.63	39°22'22.179"N	80°55'18.341"W	780.74	54.016	7.82	7.34	2.70	
7136.00	90.150	357.190	6597.93	264.00	506.68	629.55	1662525.00	14297739.55	39°22'22.652"N	80°55'18.368"W	808.12	51.172	3.48	3.40	-0.75	
7230.00	90.310	356.730	6597.55	354.03	600.55	624.57	1662520.02	14297833.38	39°22'23.580"N	80°55'18.431"W	866.45	46.123	0.52	0.17	-0.49	
7325.00	90.370	355.570	6596.99	445.39	695.33	618.19	1662513.64	14297928.12	39°22'24.517"N	80°55'18.511"W	930.40	41.639	1.22	0.06	-1.22	
7420.00	90.340	353.070	6596.40	537.52	789.85	608.79	1662504.25	14298022.61	39°22'25.451"N	80°55'18.629"W	997.24	37.624	2.63	-0.03	-2.63	
7514.00	89.780	357.230	6596.30	628.34	883.49	600.84	1662496.30	14298116.22	39°22'26.377"N	80°55'18.730"W	1068.44	34.219	4.47	-0.60	4.43	
7608.00	89.880	1.320	6596.58	717.18	977.47	599.65	1662495.11	14298210.15	39°22'27.306"N	80°55'18.744"W	1146.75	31.528	4.35	0.11	4.35	
7703.00	90.120	2.680	6596.58	805.41	1072.41	602.97	1662498.43	14298305.05	39°22'28.244"N	80°55'18.700"W	1230.30	29.347	1.45	0.25	1.43	
7797.00	89.940	2.730	6596.53	892.27	1166.30	607.40	1662502.86	14298398.91	39°22'29.172"N	80°55'18.643"W	1314.99	27.510	0.20	-0.19	0.05	



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 6 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Swartzmiller Unit 2H
Field	Ritchie	Wellbore	Swartzmiller Unit 2H AWB
Facility	Weekley Trust 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
7892.00	89.600	1.150	6596.91	980.54	1261.24	610.62	1662506.08	14298493.81	39°22'30.110"N	80°55'18.601"W	1401.28	25.834	1.70	-0.36	-1.66	
7987.00	89.630	358.260	6597.55	1070.10	1356.23	610.13	1662505.59	14298588.76	39°22'31.049"N	80°55'18.606"W	1487.15	24.222	3.04	0.03	-3.04	
8081.00	89.690	356.090	6598.11	1160.01	1450.11	605.50	1662500.96	14298682.60	39°22'31.977"N	80°55'18.664"W	1571.45	22.663	2.31	0.06	-2.31	
8175.00	89.750	353.960	6598.57	1250.90	1543.75	597.35	1662492.81	14298776.20	39°22'32.903"N	80°55'18.767"W	1655.29	21.154	2.27	0.06	-2.27	
8271.00	90.120	350.730	6598.68	1344.75	1638.88	584.56	1662480.03	14298871.30	39°22'33.843"N	80°55'18.929"W	1740.01	19.630	3.39	0.39	-3.36	
8365.00	90.120	346.750	6598.48	1437.70	1731.05	566.21	1662461.69	14298963.43	39°22'34.754"N	80°55'19.161"W	1821.30	18.112	4.23	0.00	-4.23	
8460.00	91.140	343.670	6597.44	1532.32	1822.89	541.96	1662437.45	14299055.23	39°22'35.662"N	80°55'19.469"W	1901.75	16.558	3.42	1.07	-3.24	
8554.00	90.310	341.140	6596.25	1626.24	1912.47	513.55	1662409.05	14299144.78	39°22'36.548"N	80°55'19.830"W	1980.22	15.031	2.83	-0.88	-2.69	
8649.00	89.940	339.000	6596.04	1721.23	2001.78	481.17	1662376.68	14299234.05	39°22'37.431"N	80°55'20.241"W	2058.80	13.516	2.29	-0.39	-2.25	
8744.00	89.750	337.750	6596.30	1816.18	2090.09	446.16	1662341.69	14299322.33	39°22'38.304"N	80°55'20.686"W	2137.18	12.050	1.33	-0.20	-1.32	
8839.00	90.150	336.450	6596.38	1911.03	2177.60	409.20	1662304.74	14299409.80	39°22'39.169"N	80°55'21.156"W	2215.71	10.642	1.43	0.42	-1.37	
8933.00	89.290	335.620	6596.84	2004.78	2263.49	371.02	1662266.57	14299495.66	39°22'40.018"N	80°55'21.641"W	2293.70	9.309	1.27	-0.91	-0.88	
9028.00	89.420	337.030	6597.91	2099.55	2350.49	332.87	1662228.44	14299582.62	39°22'40.878"N	80°55'22.126"W	2373.94	8.061	1.49	0.14	1.48	
9123.00	89.540	340.450	6598.77	2194.50	2439.01	298.43	1662194.02	14299671.11	39°22'41.754"N	80°55'22.563"W	2457.20	6.976	3.60	0.13	3.60	
9218.00	89.660	344.260	6599.43	2289.41	2529.52	269.64	1662165.24	14299761.58	39°22'42.648"N	80°55'22.929"W	2543.85	6.085	4.01	0.13	4.01	
9311.00	90.120	343.090	6599.61	2382.24	2618.77	243.50	1662139.11	14299850.79	39°22'43.531"N	80°55'23.261"W	2630.07	5.312	1.35	0.49	-1.26	
9405.00	89.660	340.150	6599.79	2476.21	2707.96	213.87	1662109.48	14299939.95	39°22'44.413"N	80°55'23.637"W	2716.40	4.516	3.17	-0.49	-3.13	
9499.00	89.820	338.880	6600.22	2570.20	2796.02	180.97	1662076.60	14300027.97	39°22'45.283"N	80°55'24.055"W	2801.87	3.703	1.36	0.17	-1.35	
9593.00	89.880	338.740	6600.46	2664.17	2883.66	146.99	1662042.64	14300115.58	39°22'46.150"N	80°55'24.487"W	2887.40	2.918	0.16	0.06	-0.15	
9688.00	89.970	336.520	6600.59	2759.06	2971.51	110.84	1662006.50	14300203.39	39°22'47.018"N	80°55'24.947"W	2973.57	2.136	2.34	0.09	-2.34	
9783.00	89.880	335.740	6600.71	2853.82	3058.38	72.40	1661968.07	14300290.23	39°22'47.877"N	80°55'25.435"W	3059.24	1.356	0.83	-0.09	-0.82	
9879.00	89.450	337.380	6601.27	2949.61	3146.45	34.21	1661929.90	14300378.27	39°22'48.748"N	80°55'25.921"W	3146.64	0.623	1.77	-0.45	1.71	
9974.00	89.750	340.590	6601.94	3044.58	3235.12	0.15	1661895.85	14300466.90	39°22'49.625"N	80°55'26.353"W	3235.12	0.003	3.39	0.32	3.38	
10068.00	90.120	343.410	6602.04	3138.52	3324.51	-28.90	1661866.82	14300556.25	39°22'50.508"N	80°55'26.722"W	3324.64	359.502	3.03	0.39	3.00	
10164.00	89.780	342.300	6602.13	3234.42	3416.24	-57.19	1661838.53	14300647.95	39°22'51.415"N	80°55'27.082"W	3416.72	359.041	1.21	-0.35	-1.16	
10258.00	89.630	344.530	6602.61	3328.27	3506.32	-84.02	1661811.71	14300737.99	39°22'52.306"N	80°55'27.422"W	3507.33	358.627	2.38	-0.16	2.37	
10353.00	90.030	346.760	6602.89	3422.84	3598.35	-107.58	1661788.17	14300829.98	39°22'53.215"N	80°55'27.721"W	3599.96	358.288	2.38	0.42	2.35	
10447.00	89.820	343.720	6603.02	3516.47	3689.24	-131.52	1661764.23	14300920.83	39°22'54.114"N	80°55'28.025"W	3691.58	357.958	3.24	-0.22	-3.23	
10543.00	89.780	341.550	6603.35	3612.38	3780.86	-160.17	1661735.60	14301012.42	39°22'55.020"N	80°55'28.389"W	3784.25	357.574	2.26	-0.04	-2.26	
10638.00	89.690	340.970	6603.79	3707.36	3870.82	-190.69	1661705.09	14301102.34	39°22'55.909"N	80°55'28.777"W	3875.51	357.180	0.62	-0.09	-0.61	



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 7 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Swartzmiller Unit 2H
Field	Ritchie	Wellbore	Swartzmiller Unit 2H AWB
Facility	Weekley Trust 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
10733.00	89.660	339.160	6604.33	3802.36	3960.12	-223.08	1661672.71	14301191.61	39°22'56.792"N	80°55'29.189"W	3966.40	356.776	1.91	-0.03	-1.91	
10828.00	89.850	339.080	6604.74	3897.34	4048.88	-256.94	1661638.87	14301280.33	39°22'57.670"N	80°55'29.619"W	4057.03	356.369	0.22	0.20	-0.08	
10923.00	89.660	340.090	6605.14	3992.33	4137.91	-290.08	1661605.74	14301369.33	39°22'58.550"N	80°55'30.040"W	4148.07	355.990	1.08	-0.20	1.06	
11018.00	89.720	339.510	6605.66	4087.33	4227.07	-322.88	1661572.95	14301458.45	39°22'59.431"N	80°55'30.457"W	4239.38	355.632	0.61	0.06	-0.61	
11112.00	90.520	337.080	6605.46	4181.26	4314.40	-357.64	1661538.21	14301545.74	39°23'00.295"N	80°55'30.898"W	4329.20	355.261	2.72	0.85	-2.59	
11207.00	90.400	335.930	6604.70	4276.06	4401.52	-395.51	1661500.35	14301632.83	39°23'01.156"N	80°55'31.380"W	4419.25	354.865	1.22	-0.13	-1.21	
11302.00	90.340	337.490	6604.08	4370.87	4488.77	-433.07	1661462.81	14301720.05	39°23'02.019"N	80°55'31.857"W	4509.61	354.489	1.64	-0.06	1.64	
11398.00	90.400	338.400	6603.46	4466.79	4577.74	-469.12	1661426.77	14301808.98	39°23'02.898"N	80°55'32.315"W	4601.72	354.149	0.95	0.06	0.95	
11493.00	90.430	340.320	6602.78	4561.77	4666.64	-502.60	1661393.30	14301897.84	39°23'03.777"N	80°55'32.741"W	4693.63	353.853	2.02	0.03	2.02	
11588.00	90.370	341.350	6602.11	4656.77	4756.37	-533.79	1661362.13	14301987.54	39°23'04.664"N	80°55'33.137"W	4786.23	353.597	1.09	-0.06	1.08	
11683.00	90.460	339.040	6601.42	4751.76	4845.74	-565.97	1661329.96	14302076.87	39°23'05.548"N	80°55'33.546"W	4878.68	353.338	2.43	0.09	-2.43	
11776.00	90.860	337.170	6600.35	4844.68	4932.03	-600.65	1661295.29	14302163.12	39°23'06.401"N	80°55'33.987"W	4968.47	353.056	2.06	0.43	-2.01	
11870.00	89.420	336.530	6600.12	4938.51	5018.45	-637.60	1661258.36	14302249.51	39°23'07.255"N	80°55'34.457"W	5058.80	352.759	1.68	-1.53	-0.68	
11965.00	90.030	338.920	6600.58	5033.41	5106.36	-673.61	1661222.36	14302337.38	39°23'08.125"N	80°55'34.914"W	5150.59	352.485	2.60	0.64	2.52	
12059.00	90.370	341.210	6600.25	5127.41	5194.72	-705.66	1661190.33	14302425.71	39°23'08.998"N	80°55'35.322"W	5242.43	352.264	2.46	0.36	2.44	
12154.00	90.090	342.010	6599.87	5222.38	5284.86	-735.63	1661160.37	14302515.82	39°23'09.889"N	80°55'35.702"W	5335.82	352.076	0.89	-0.29	0.84	
12248.00	90.460	340.190	6599.42	5316.36	5373.79	-766.07	1661129.94	14302604.71	39°23'10.768"N	80°55'36.089"W	5428.12	351.887	1.98	0.39	-1.94	
12343.00	89.880	342.790	6599.14	5411.33	5463.87	-796.23	1661099.79	14302694.75	39°23'11.659"N	80°55'36.472"W	5521.58	351.709	2.80	-0.61	2.74	
12438.00	90.120	344.390	6599.14	5506.16	5555.00	-823.07	1661072.96	14302785.84	39°23'12.560"N	80°55'36.813"W	5615.64	351.572	1.70	0.25	1.68	
12532.00	90.370	345.530	6598.74	5599.84	5645.77	-847.46	1661048.58	14302876.58	39°23'13.457"N	80°55'37.123"W	5709.02	351.463	1.24	0.27	1.21	
12627.00	90.280	343.400	6598.20	5694.58	5737.30	-872.90	1661023.15	14302968.07	39°23'14.362"N	80°55'37.446"W	5803.32	351.349	2.24	-0.09	-2.24	
12722.00	90.400	339.980	6597.63	5789.53	5827.47	-902.74	1660993.32	14303058.21	39°23'15.254"N	80°55'37.825"W	5896.98	351.194	3.60	0.13	-3.60	
12818.00	89.780	340.670	6597.48	5885.53	5917.87	-935.06	1660961.01	14303148.57	39°23'16.147"N	80°55'38.236"W	5991.28	351.021	0.97	-0.65	0.72	
12912.00	89.750	342.150	6597.87	5979.51	6006.96	-965.03	1660931.06	14303237.62	39°23'17.028"N	80°55'38.617"W	6083.98	350.873	1.57	-0.03	1.57	
13006.00	89.690	345.490	6598.33	6073.31	6097.22	-991.22	1660904.88	14303327.85	39°23'17.920"N	80°55'38.949"W	6177.27	350.766	3.55	-0.06	3.55	
13101.00	90.090	345.580	6598.51	6167.90	6189.21	-1014.95	1660881.16	14303419.80	39°23'18.830"N	80°55'39.250"W	6271.88	350.687	0.43	0.42	0.09	
13196.00	90.030	343.450	6598.41	6262.63	6280.75	-1040.31	1660855.81	14303511.31	39°23'19.735"N	80°55'39.573"W	6366.33	350.595	2.24	-0.06	-2.24	
13290.00	89.690	341.100	6598.64	6356.57	6370.29	-1068.93	1660827.21	14303600.80	39°23'20.620"N	80°55'39.936"W	6459.35	350.475	2.53	-0.36	-2.50	
13385.00	90.220	338.590	6598.71	6451.56	6459.46	-1101.66	1660794.49	14303689.94	39°23'21.501"N	80°55'40.352"W	6552.73	350.321	2.70	0.56	-2.64	
13480.00	89.880	337.420	6598.63	6546.48	6547.54	-1137.24	1660758.92	14303777.99	39°23'22.372"N	80°55'40.804"W	6645.57	350.147	1.28	-0.36	-1.23	



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 8 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Swartzmiller Unit 2H
Field	Ritchie	Wellbore	Swartzmiller Unit 2H AWB
Facility	Weekley Trust 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
13575.00	90.060	335.670	6598.68	6641.28	6634.69	-1175.05	1660721.13	14303865.10	39°23'23.234"N	80°55'41.285"W	6737.94	349.957	1.85	0.19	-1.84	
13670.00	89.600	337.140	6598.96	6736.07	6721.75	-1213.07	1660683.12	14303952.12	39°23'24.095"N	80°55'41.768"W	6830.33	349.770	1.62	-0.48	1.55	
13765.00	89.510	340.500	6599.70	6831.02	6810.31	-1247.39	1660648.81	14304040.66	39°23'24.970"N	80°55'42.205"W	6923.61	349.621	3.54	-0.09	3.54	
13860.00	89.970	341.870	6600.13	6926.00	6900.23	-1278.03	1660618.19	14304130.54	39°23'25.859"N	80°55'42.594"W	7017.59	349.507	1.52	0.48	1.44	
13956.00	90.620	340.540	6599.64	7021.99	6991.11	-1308.96	1660587.27	14304221.38	39°23'26.758"N	80°55'42.987"W	7112.59	349.395	1.54	0.68	-1.39	
14051.00	90.620	337.820	6598.61	7116.96	7079.89	-1342.72	1660553.53	14304310.13	39°23'27.635"N	80°55'43.416"W	7206.09	349.261	2.86	0.00	-2.86	
14145.00	90.400	336.840	6597.77	7210.83	7166.63	-1378.94	1660517.31	14304396.83	39°23'28.493"N	80°55'43.877"W	7298.08	349.109	1.07	-0.23	-1.04	
14240.00	90.280	338.380	6597.21	7305.73	7254.46	-1415.13	1660481.14	14304484.63	39°23'29.361"N	80°55'44.337"W	7391.20	348.962	1.63	-0.13	1.62	
14316.00	90.220	340.590	6596.88	7381.71	7325.64	-1441.76	1660454.52	14304555.77	39°23'30.065"N	80°55'44.675"W	7466.17	348.866	2.91	-0.08	2.91	
14341.00	90.220	340.590	6596.78	7406.71	7349.22	-1450.07	1660446.22	14304579.34	39°23'30.298"N	80°55'44.781"W	7490.91	348.838	0.00	0.00	0.00	Projected MD at TD: 14341'

HOLE & CASING SECTIONS - Ref Wellbore: Swartzmiller Unit 2H AWB Ref Wellpath: Swartzmiller Unit 2H AWP Proj: 14341'

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	0.07	0.07
17.5in Open Hole	104.50	474.50	370.00	104.50	474.50	0.07	0.07	-0.01	0.73
13.375in Casing Surface	24.50	474.50	450.00	24.50	474.50	0.00	0.00	-0.01	0.73
12.25in Open Hole	474.50	2589.50	2115.00	474.50	2587.95	-0.01	0.73	-52.32	30.65
9.625in Casing Intermediate	24.50	2589.50	2565.00	24.50	2587.95	0.00	0.00	-52.32	30.65
8.75in Open Hole	2589.50	6730.50	4141.00	2587.95	6505.39	-52.32	30.65	121.08	681.75
8.5in Open Hole	6730.50	14341.00	7610.50	6505.39	6596.78	121.08	681.75	7349.22	-1450.07
5.5in Casing Production	24.50	14341.00	14316.50	24.50	6596.78	0.00	0.00	7349.22	-1450.07



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 9 of 10



REFERENCE WELLPATH IDENTIFICATION

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

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Swartzmiller Unit 2H - POE - Rev-2	6567.00	272.60	648.75	1662544.19	14297505.56	39°22'20.339"N	80°55'18.126"W	point
Swartzmiller Unit 2H - BHL - Rev-3	6600.00	7347.46	-1439.64	1660456.64	14304577.59	39°23'30.281"N	80°55'44.648"W	point
Swartzmiller Unit 2H - LP - Rev-2	6600.00	502.17	618.42	1662513.87	14297735.04	39°22'22.608"N	80°55'18.510"W	point

WELLPATH COMPOSITION - Ref Wellbore: Swartzmiller Unit 2H AWB Ref Wellpath: Swartzmiller Unit 2H AWP Proj: 14341'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	438.50	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <17-1/2">(100'-429')	Swartzmiller Unit 2H AWB
438.50	987.50	Gyrodata standard - Drop gyro or Multi-shot	02_Gyrodata MS Gyro <12-1/4">(429')(508'-978')	Swartzmiller Unit 2H AWB
987.50	2507.50	ISCWSA MWD, Rev. 4 (Standard)	03_WFT EM <12-1/4">(978')(1094'-2498')	Swartzmiller Unit 2H AWB
2507.50	6652.50	ISCWSA MWD, Rev. 4 (Standard)	04_WFT EM <8-3/4">(2498')(2655'-6643')	Swartzmiller Unit 2H AWB
6652.50	14316.00	BHI AutoTrak Curve (Short)	05_BH AT Curve <8-1/2">(6652.5')(6712'-14316')	Swartzmiller Unit 2H AWB
14316.00	14341.00	Blind Drilling (std)	Projection to bit	Swartzmiller Unit 2H AWB



Actual Wellpath Report

Swartzmiller Unit 2H AWP Proj: 14341'
Page 10 of 10



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

COMMENTS
<p>Wellpath general comments API: 47-085-10350-0000 BHI Job #: 109645026 Rig: Frontier 22 Duration: 03/09/2019-03/11/2019 Gyrodata MS Gyro <17-1/2">(100'-429') Gyrodata MS Gyro <12-1/4">(429')(508'-978') WFT EM <12-1/4">(978')(1094'-2498') WFT EM <8-3/4">(2498')(2655'-6643') BH AT Curve <8-1/2"> (6652.5')(6712'-14316') Middlesex: 6574' MD Burkett: 6747' MD Tully: 6817' MD Marcellus POE: 6884' MD</p>