



Actual Wellpath Report

Gauge Unit 1H AWP Proj: 18751
Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad

Slot	Slot #07
Well	Gauge Unit 1H
Wellbore	Gauge Unit 1H AWB

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999600
Converge at slot	0.02° East
Software System	WellArchitect@ 5.1
User	
Report Generated	5/6/2019 at 1:25:03 PM
Database/Source file	WA_MPL_EasternUS_Defm/Gauge_Unit_1H_AWP_Proj_18751.xml

WELLPATH LOCATION

Local coordinates		Grid coordinates		Geographic coordinates	
North [ft]	East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
-58.88	-8.77	1648992.21	14313737.21	39°25'00.910"N	80°58'10.690"W
Field Reference Pt	Facility Reference Pt	1649000.97	14313796.07	39°25'01.492"N	80°58'10.578"W
Field Reference Pt		0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1011.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1011.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #07)	25.50ft
M/D Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.18°

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WV Department of
Environmental Protection



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Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Gauge Unit 1H
Wellbore	Gauge Unit 1H AWB
Slot	Slot #07

WELLPATH DATA (228 stations) † = interpolated/extrapolated station												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
0.00	0.00	181.220	0.00	0.00	0.00	0.00	164892.21	14313737.21	39°25'00.910"N	80°58'10.690"W	0.00	0.00
0.00	0.00	181.220	25.50	0.00	0.00	0.00	164892.21	14313737.21	39°25'00.910"N	80°58'10.690"W	0.00	0.00
25.50	0.00	181.220	25.50	0.00	0.00	0.00	164892.21	14313737.21	39°25'00.910"N	80°58'10.690"W	0.00	0.00
25.50	0.00	181.220	25.50	0.00	0.00	0.00	164892.21	14313737.21	39°25'00.910"N	80°58'10.690"W	0.00	0.00
60.50	0.350	181.220	60.50	0.10	-0.11	0.00	164892.21	14313737.10	39°25'00.909"N	80°58'10.690"W	0.11	181.220
60.50	0.350	181.220	60.50	0.10	-0.11	0.00	164892.21	14313737.10	39°25'00.909"N	80°58'10.690"W	0.11	181.220
60.50	0.350	181.220	60.50	0.10	-0.11	0.00	164892.21	14313737.10	39°25'00.909"N	80°58'10.690"W	0.11	181.220
85.50	0.320	183.910	85.50	0.23	-0.25	-0.01	164892.20	14313736.96	39°25'00.908"N	80°58'10.690"W	0.25	181.962
85.50	0.320	183.910	85.50	0.23	-0.25	-0.01	164892.20	14313736.96	39°25'00.908"N	80°58'10.690"W	0.25	181.962
85.50	0.320	183.910	85.50	0.23	-0.25	-0.01	164892.20	14313736.96	39°25'00.908"N	80°58'10.690"W	0.25	181.962
110.50	0.310	164.610	110.50	0.37	-0.39	0.00	164892.21	14313736.82	39°25'00.906"N	80°58'10.690"W	0.39	179.331
110.50	0.310	164.610	110.50	0.37	-0.39	0.00	164892.21	14313736.82	39°25'00.906"N	80°58'10.690"W	0.39	179.331
110.50	0.310	164.610	110.50	0.37	-0.39	0.00	164892.21	14313736.82	39°25'00.906"N	80°58'10.690"W	0.39	179.331
135.50	0.330	159.070	135.50	0.51	-0.52	0.05	164892.26	14313736.69	39°25'00.905"N	80°58'10.689"W	0.52	174.707
135.50	0.330	159.070	135.50	0.51	-0.52	0.05	164892.26	14313736.69	39°25'00.905"N	80°58'10.689"W	0.52	174.707
135.50	0.330	159.070	135.50	0.51	-0.52	0.05	164892.26	14313736.69	39°25'00.905"N	80°58'10.689"W	0.52	174.707
160.50	0.450	159.110	160.50	0.68	-0.68	0.11	164892.32	14313736.53	39°25'00.903"N	80°58'10.689"W	0.69	170.889
160.50	0.450	159.110	160.50	0.68	-0.68	0.11	164892.32	14313736.53	39°25'00.903"N	80°58'10.689"W	0.69	170.889
160.50	0.450	159.110	160.50	0.68	-0.68	0.11	164892.32	14313736.53	39°25'00.903"N	80°58'10.689"W	0.69	170.889
185.50	0.430	174.800	185.50	0.86	-0.86	0.15	164892.36	14313736.35	39°25'00.901"N	80°58'10.688"W	0.88	169.998
185.50	0.430	174.800	185.50	0.86	-0.86	0.15	164892.36	14313736.35	39°25'00.901"N	80°58'10.688"W	0.88	169.998
185.50	0.430	174.800	185.50	0.86	-0.86	0.15	164892.36	14313736.35	39°25'00.901"N	80°58'10.688"W	0.88	169.998
210.50	0.440	159.640	210.50	1.05	-1.05	0.19	164892.40	14313736.16	39°25'00.900"N	80°58'10.688"W	1.07	169.492
210.50	0.440	159.640	210.50	1.05	-1.05	0.19	164892.40	14313736.16	39°25'00.900"N	80°58'10.688"W	1.07	169.492
210.50	0.440	159.640	210.50	1.05	-1.05	0.19	164892.40	14313736.16	39°25'00.900"N	80°58'10.688"W	1.07	169.492
235.50	0.500	153.720	235.50	1.26	-1.24	0.28	164892.48	14313735.97	39°25'00.898"N	80°58'10.686"W	1.27	167.407
235.50	0.500	153.720	235.50	1.26	-1.24	0.28	164892.48	14313735.97	39°25'00.898"N	80°58'10.686"W	1.27	167.407
235.50	0.500	153.720	235.50	1.26	-1.24	0.28	164892.48	14313735.97	39°25'00.898"N	80°58'10.686"W	1.27	167.407
260.50	0.640	156.910	260.49	1.50	-1.46	0.38	164892.59	14313735.75	39°25'00.896"N	80°58'10.685"W	1.51	165.462
260.50	0.640	156.910	260.49	1.50	-1.46	0.38	164892.59	14313735.75	39°25'00.896"N	80°58'10.685"W	1.51	165.462
260.50	0.640	156.910	260.49	1.50	-1.46	0.38	164892.59	14313735.75	39°25'00.896"N	80°58'10.685"W	1.51	165.462
285.50	0.730	154.190	285.49	1.80	-1.73	0.50	164892.71	14313735.45	39°25'00.893"N	80°58'10.684"W	1.81	163.815
285.50	0.730	154.190	285.49	1.80	-1.73	0.50	164892.71	14313735.45	39°25'00.893"N	80°58'10.684"W	1.81	163.815
285.50	0.730	154.190	285.49	1.80	-1.73	0.50	164892.71	14313735.45	39°25'00.893"N	80°58'10.684"W	1.81	163.815
310.50	0.830	150.080	310.49	2.14	-2.03	0.66	164892.87	14313735.18	39°25'00.890"N	80°58'10.682"W	2.14	161.950
310.50	0.830	150.080	310.49	2.14	-2.03	0.66	164892.87	14313735.18	39°25'00.890"N	80°58'10.682"W	2.14	161.950
310.50	0.830	150.080	310.49	2.14	-2.03	0.66	164892.87	14313735.18	39°25'00.890"N	80°58'10.682"W	2.14	161.950
338.50	1.010	150.730	338.49	2.58	-2.42	0.88	164892.99	14313734.79	39°25'00.886"N	80°58'10.679"W	2.58	159.957
338.50	1.010	150.730	338.49	2.58	-2.42	0.88	164892.99	14313734.79	39°25'00.886"N	80°58'10.679"W	2.58	159.957
338.50	1.010	150.730	338.49	2.58	-2.42	0.88	164892.99	14313734.79	39°25'00.886"N	80°58'10.679"W	2.58	159.957
440.50	0.390	145.750	440.48	3.80	-3.50	1.52	164892.73	14313733.71	39°25'00.875"N	80°58'10.671"W	3.81	156.508
440.50	0.390	145.750	440.48	3.80	-3.50	1.52	164892.73	14313733.71	39°25'00.875"N	80°58'10.671"W	3.81	156.508
440.50	0.390	145.750	440.48	3.80	-3.50	1.52	164892.73	14313733.71	39°25'00.875"N	80°58'10.671"W	3.81	156.508
534.50	0.310	166.470	534.48	4.37	-3.99	1.80	164892.01	14313733.22	39°25'00.871"N	80°58'10.667"W	4.38	155.725
534.50	0.310	166.470	534.48	4.37	-3.99	1.80	164892.01	14313733.22	39°25'00.871"N	80°58'10.667"W	4.38	155.725
534.50	0.310	166.470	534.48	4.37	-3.99	1.80	164892.01	14313733.22	39°25'00.871"N	80°58'10.667"W	4.38	155.725
628.50	0.430	181.700	628.48	4.92	-4.57	1.83	164892.04	14313732.64	39°25'00.865"N	80°58'10.667"W	4.93	158.174
628.50	0.430	181.700	628.48	4.92	-4.57	1.83	164892.04	14313732.64	39°25'00.865"N	80°58'10.667"W	4.93	158.174
628.50	0.430	181.700	628.48	4.92	-4.57	1.83	164892.04	14313732.64	39°25'00.865"N	80°58'10.667"W	4.93	158.174
722.50	0.660	191.020	722.47	5.69	-5.45	1.66	164892.86	14313731.76	39°25'00.856"N	80°58'10.669"W	5.70	163.095
722.50	0.660	191.020	722.47	5.69	-5.45	1.66	164892.86	14313731.76	39°25'00.856"N	80°58'10.669"W	5.70	163.095
722.50	0.660	191.020	722.47	5.69	-5.45	1.66	164892.86	14313731.76	39°25'00.856"N	80°58'10.669"W	5.70	163.095
814.50	0.530	209.750	814.47	6.42	-6.34	1.34	164892.55	14313730.87	39°25'00.847"N	80°58'10.673"W	6.48	168.031
814.50	0.530	209.750	814.47	6.42	-6.34	1.34	164892.55	14313730.87	39°25'00.847"N	80°58'10.673"W	6.48	168.031
814.50	0.530	209.750	814.47	6.42	-6.34	1.34	164892.55	14313730.87	39°25'00.847"N	80°58'10.673"W	6.48	168.031
910.50	0.600	212.210	910.46	7.02	-7.15	0.86	164892.06	14313730.06	39°25'00.839"N	80°58'10.679"W	7.20	173.177
910.50	0.600	212.210	910.46	7.02	-7.15	0.86	164892.06	14313730.06	39°25'00.839"N	80°58'10.679"W	7.20	173.177
910.50	0.600	212.210	910.46	7.02	-7.15	0.86	164892.06	14313730.06	39°25'00.839"N	80°58'10.679"W	7.20	173.177
1005.50	0.470	221.310	1005.46	7.51	-7.86	0.33	164892.54	14313729.35	39°25'00.832"N	80°58'10.686"W	7.87	177.574
1005.50	0.470	221.310	1005.46	7.51	-7.86	0.33	164892.54	14313729.35	39°25'00.832"N	80°58'10.686"W	7.87	177.574
1005.50	0.470	221.310	1005.46	7.51	-7.86	0.33	164892.54	14313729.35	39°25'00.832"N	80°58'10.686"W	7.87	177.574
1100.50	0.840	228.490	1100.45	7.96	-8.62	-0.45	164892.76	14313728.60	39°25'00.825"N	80°58'10.696"W	8.63	182.960
1100.50	0.840	228.490	1100.45	7.96	-8.62	-0.45	164892.76	14313728.60	39°25'00.825"N	80°58'10.696"W	8.63	182.960
1100.50	0.840	228.490	1100.45	7.96	-8.62	-0.45	164892.76	14313728.60	39°25'00.825"N	80°58'10.696"W	8.63	182.960
1194.50	1.080	225.820	1194.44	8.58	-9.69	-1.60	164892.61	14313727.52	39°25'00.814"N	80°58'10.710"W	9.82	189.357
1194.50	1.080	225.820	1194.44	8.58	-9.69	-1.60	164892.61	14313727.52	39°25'00.814"N	80°58'10.710"W	9.82	189.357
1194.50	1.080	225.820	1194.44	8.58	-9.69							



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Wellbore
Slot	Slot #07
Gauge Unit 1H	Gauge Unit 1H AWB

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
1952.50	2.390	351.430	1952.24	3.67	-8.99	-14.11	1648978.10	14313728.22	39°25'00.821"N	80°58'10.870"W	16.73	237.497	1.28	9.26		
2048.50	1.640	2.740	2048.18	0.44	-5.64	-14.34	1648977.87	14313731.57	39°25'00.854"N	80°58'10.873"W	15.41	248.539	0.88	-0.78	11.78	
2142.50	0.840	163.660	2142.17	-0.11	-4.96	-14.08	1648978.13	14313732.26	39°25'00.861"N	80°58'10.869"W	14.93	250.614	2.61	-0.85	171.19	
2237.50	1.250	168.720	2237.15	1.61	-6.64	-13.69	1648978.53	14313730.57	39°25'00.844"N	80°58'10.864"W	15.21	244.117	0.44	0.43	5.33	
2331.50	0.960	178.000	2331.14	3.37	-8.43	-13.46	1648978.75	14313728.78	39°25'00.827"N	80°58'10.862"W	15.85	237.931	0.36	-0.31	9.98	
2426.50	0.610	184.910	2426.13	4.59	-9.73	-13.48	1648978.74	14313727.48	39°25'00.814"N	80°58'10.862"W	16.62	234.164	0.38	-0.37	7.17	
2506.50	0.340	147.760	2506.13	5.21	-10.36	-13.39	1648978.83	14313726.66	39°25'00.808"N	80°58'10.861"W	16.93	232.269	0.50	-0.34	-46.44	
2665.50	0.450	144.410	2665.12	6.29	-11.32	-12.86	1648979.35	14313725.69	39°25'00.798"N	80°58'10.854"W	17.14	228.656	0.07	0.07	4.18	WFT EM <8-3/4">(2496)(2655-5852)
2728.50	1.770	352.680	2728.11	5.58	-10.58	-12.88	1648979.33	14313726.64	39°25'00.805"N	80°58'10.854"W	16.67	230.610	3.49	2.10	-256.71	
2823.50	3.350	334.480	2823.02	1.39	-6.62	-14.26	1648977.95	14313730.59	39°25'00.845"N	80°58'10.872"W	15.72	245.114	1.85	1.66	-19.16	
2918.50	5.100	336.880	2917.76	-5.59	-0.23	-17.12	1648975.10	14313736.98	39°25'00.908"N	80°58'10.908"W	17.12	269.235	1.85	1.84	2.53	
3012.50	6.690	340.900	3011.26	8.79	-15.24	-20.55	1648971.67	14313745.99	39°25'00.997"N	80°58'10.962"W	22.35	293.153	1.75	1.69	4.28	
3112.50	8.520	342.160	3110.37	-28.46	21.35	-24.73	1648967.49	14313758.55	39°25'01.121"N	80°58'11.005"W	32.67	310.802	1.84	1.83	1.26	
3207.50	8.930	331.160	3204.28	-42.78	34.50	-30.44	1648961.78	14313717.70	39°25'01.251"N	80°58'11.078"W	46.01	318.581	1.81	0.43	-11.58	
3302.50	9.550	338.340	3298.05	-32.98	48.29	-36.91	1648955.32	14313785.48	39°25'01.387"N	80°58'11.160"W	60.78	322.610	1.38	0.65	7.56	
3397.50	11.240	341.080	3391.49	-75.08	64.37	-42.82	1648949.41	14313801.66	39°25'01.546"N	80°58'11.235"W	77.31	326.370	1.85	1.78	2.88	
3491.50	13.260	339.000	3483.34	-95.02	83.10	-49.65	1648942.58	14313820.28	39°25'01.722"N	80°58'11.322"W	96.81	329.143	2.20	2.15	-2.21	
3586.50	13.160	337.330	3575.83	-116.71	103.26	-57.72	1648934.51	14313840.42	39°25'01.931"N	80°58'11.425"W	118.29	330.793	0.42	-0.11	-1.76	
3681.50	12.480	334.840	3668.46	-137.73	122.52	-66.26	1648925.98	14313859.68	39°25'02.121"N	80°58'11.534"W	139.29	331.597	0.92	-0.72	-2.62	
3776.50	11.630	337.250	3761.37	-157.52	140.65	-74.32	1648917.91	14313877.80	39°25'02.300"N	80°58'11.636"W	159.08	332.146	1.04	-0.89	2.54	
3870.50	10.810	334.940	3853.57	-175.76	157.37	-81.72	1648910.52	14313894.52	39°25'02.466"N	80°58'11.731"W	177.32	332.557	0.99	-0.87	-2.46	
3965.50	10.630	340.800	3946.91	-193.39	173.72	-88.38	1648903.87	14313910.85	39°25'02.627"N	80°58'11.815"W	194.90	333.035	1.16	-0.19	6.17	
4060.50	11.900	338.760	4040.08	-211.94	191.12	-94.81	1648897.44	14313928.25	39°25'02.799"N	80°58'11.897"W	213.34	333.616	1.40	1.34	-2.15	
4155.50	11.820	335.500	4133.05	-231.43	209.10	-102.39	1648889.86	14313946.23	39°25'02.977"N	80°58'11.994"W	232.83	333.911	0.71	-0.08	-3.43	
4250.50	12.240	335.750	4225.97	-251.17	227.14	-110.56	1648881.69	14313964.26	39°25'03.155"N	80°58'12.098"W	252.62	334.045	0.45	0.44	0.26	
4345.50	11.880	334.310	4318.87	-270.94	246.13	-118.94	1648873.32	14313982.24	39°25'03.333"N	80°58'12.204"W	272.46	334.118	0.49	-0.38	-1.52	
4439.50	12.450	336.990	4410.76	-290.68	263.18	-127.09	1648865.17	14314000.28	39°25'03.512"N	80°58'12.308"W	292.26	334.224	0.85	0.61	2.85	
4534.50	12.100	335.800	4503.69	-310.83	281.69	-135.18	1648857.09	14314018.78	39°25'03.694"N	80°58'12.411"W	312.44	334.364	0.45	-0.37	-1.25	
4629.50	12.190	334.530	4596.46	-330.74	299.82	-143.57	1648848.69	14314036.91	39°25'03.874"N	80°58'12.518"W	332.43	334.412	0.30	0.09	-1.34	
4724.50	12.040	333.700	4689.35	-350.57	317.76	-152.27	1648839.99	14314054.84	39°25'04.051"N	80°58'12.629"W	352.36	334.396	0.24	-0.16	-0.87	

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Actual Wellpath Report
Gauge Unit 1H AWP Proj: 18751



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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Gauge Unit 1H
Wellbore	Gauge Unit 1H AWB
Slot	Slot #07

REFERENCE WELLPATH IDENTIFICATION

MD	Inclination	Azimuth	TVD	Vert Sect	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
4819.50	336.210	4782.28	-370.21	336.63	-160.63	1648831.65	14314072.70	39°25'04.228"N	80°58'12.735"W	372.08	334.425	0.56	-0.12	2.64	
4914.50	337.030	4875.22	-389.84	353.68	-168.43	1648823.85	14314090.75	39°25'04.406"N	80°58'12.835"W	391.74	334.535	0.18	0.04	0.86	
5009.50	338.770	4968.30	-408.82	371.28	-175.59	1648816.69	14314108.34	39°25'04.580"N	80°58'12.926"W	410.70	334.689	0.99	-0.92	1.83	
5104.50	339.510	5061.52	-427.12	388.38	-182.11	1648810.18	14314125.44	39°25'04.749"N	80°58'13.009"W	428.96	334.879	0.15	0.02	0.78	
5198.50	336.860	5153.80	-444.99	404.99	-188.75	1648803.54	14314142.03	39°25'04.913"N	80°58'13.093"W	446.81	335.012	0.62	-0.32	2.82	
5293.50	332.660	5247.13	-462.65	421.03	-196.30	1648795.98	14314158.07	39°25'05.072"N	80°58'13.189"W	464.54	335.003	0.83	-0.12	4.42	
5388.50	332.040	5340.58	-479.57	436.16	-204.23	1648788.06	14314173.20	39°25'05.221"N	80°58'13.290"W	481.61	334.909	0.75	-0.74	-0.65	
5420.50	327.690	5372.21	-484.34	440.37	-206.64	1648785.65	14314177.40	39°25'05.263"N	80°58'13.321"W	486.44	334.862	8.36	-13.91	-8.09	
5451.50	313.970	5403.03	-487.45	442.95	-208.64	1648783.65	14314179.99	39°25'05.289"N	80°58'13.347"W	489.62	334.778	9.73	-8.61	-43.94	
5483.50	281.200	5434.97	-489.04	444.02	-210.36	1648781.93	14314181.05	39°25'05.299"N	80°58'13.368"W	491.33	334.650	8.84	-6.06	-102.41	
5515.50	228.020	5466.93	-489.14	443.63	-211.73	1648780.56	14314180.66	39°25'05.295"N	80°58'13.386"W	491.57	334.486	8.00	0.31	-166.19	
5578.50	190.400	5529.65	-484.89	438.33	-213.90	1648778.39	14314175.37	39°25'05.243"N	80°58'13.414"W	487.74	333.988	8.92	7.53	-43.03	
5609.50	181.410	5560.28	-480.63	433.65	-214.34	1648777.95	14314170.68	39°25'05.197"N	80°58'13.419"W	483.73	333.698	8.10	6.81	-29.00	
5641.50	178.880	5591.72	-474.99	427.69	-214.23	1648778.06	14314164.73	39°25'05.188"N	80°58'13.418"W	478.36	333.394	6.28	5.72	-14.16	
5673.50	173.740	5622.95	-468.27	420.75	-213.65	1648778.65	14314157.79	39°25'05.069"N	80°58'13.410"W	471.89	333.080	6.16	5.78	-9.81	
5704.50	166.430	5652.96	-460.59	413.09	-212.27	1648780.02	14314150.13	39°25'04.993"N	80°58'13.393"W	464.43	332.803	9.14	6.97	-23.58	
5736.50	168.480	5683.64	-451.57	404.21	-210.30	1648781.99	14314141.26	39°25'04.906"N	80°58'13.368"W	455.65	332.513	5.61	5.31	6.41	
5769.50	166.560	5743.19	-431.23	384.17	-205.90	1648786.39	14314121.22	39°25'04.708"N	80°58'13.312"W	436.87	331.810	4.93	4.74	-3.94	
5831.50	165.160	5772.91	-419.42	372.67	-203.00	1648789.29	14314109.73	39°25'04.594"N	80°58'13.275"W	424.37	331.422	7.64	7.47	-4.41	
5862.50	164.870	5801.18	-406.75	360.39	-199.71	1648792.58	14314097.45	39°25'04.473"N	80°58'13.233"W	412.02	331.007	8.17	8.16	-0.90	
5917.00	162.580	5849.45	-381.53	336.14	-192.59	1648799.69	14314073.22	39°25'04.233"N	80°58'13.143"W	387.41	330.189	8.14	7.91	-4.20	BH AT Curve <-8-1/2">[5862.5%]5917'-18439'
5964.00	159.910	5889.66	-357.21	313.12	-184.75	1648807.53	14314050.20	39°25'04.005"N	80°58'13.043"W	363.56	329.458	6.60	5.91	-5.68	
6012.00	158.090	5929.30	-330.16	287.86	-175.04	1648817.24	14314024.96	39°25'03.756"N	80°58'12.919"W	336.90	328.698	7.60	7.29	-3.79	
6059.00	156.660	5966.23	-301.13	261.00	-163.95	1648828.32	14313998.11	39°25'03.490"N	80°58'12.778"W	308.23	327.864	9.15	9.06	-2.09	
6107.00	156.980	6001.88	-268.84	231.22	-151.34	1648840.93	14313968.34	39°25'03.196"N	80°58'12.617"W	276.34	326.795	8.52	8.52	-0.27	
6154.00	155.860	6034.00	-234.78	199.84	-137.86	1648854.30	14313936.97	39°25'02.886"N	80°58'12.447"W	242.84	325.380	9.04	9.04	-0.26	
6192.00†	156.548	6058.31	-205.64	173.03	-126.42	1648865.84	14313910.17	39°25'02.621"N	80°58'12.300"W	214.29	323.848	8.15	8.12	-0.82	Middlesex: 6192' MD
6202.00	156.470	6064.45	-197.76	165.78	-123.27	1648868.99	14313902.93	39°25'02.549"N	80°58'12.260"W	206.59	323.367	8.15	8.13	-0.78	

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #07
Gauge Unit 1H	Well
Gauge Unit 1H AWB	Wellbore

WELLPATH DATA (228 stations) † = Interpolated/extrapolated station												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
6249.00	157.280	6091.45	-159.37	-108.17	130.42	-108.17	1648884.08	14313867.58	39°25'02.199"N	80°58'12.068"W	169.44	320.327
6297.00	158.520	6116.09	-118.22	92.26	92.26	-92.69	1648899.56	14313829.43	39°25'01.822"N	80°58'11.871"W	130.77	314.867
6344.00	159.990	6137.34	-76.32	53.06	53.06	-77.85	1648914.39	14313790.25	39°25'01.435"N	80°58'11.682"W	94.22	304.278
6379.00	160.790	6151.33	-44.24	22.84	22.84	-67.09	1648925.15	14313760.04	39°25'01.136"N	80°58'11.545"W	70.87	288.802
6392.00	161.080	6156.17	-32.17	11.44	-63.15	-63.15	1648929.09	14313748.64	39°25'01.023"N	80°58'11.495"W	64.17	280.268
6430.00	162.250	6169.04	3.56	-22.50	-51.90	-51.90	1648940.32	14313714.72	39°25'00.688"N	80°58'11.351"W	56.57	246.568
6439.00	162.520	6171.79	12.13	-30.66	-49.31	-49.31	1648942.92	14313706.56	39°25'00.607"N	80°58'11.318"W	58.07	238.126
6454.00	162.922	6176.12	26.47	-44.38	-45.05	-45.05	1648947.18	14313692.85	39°25'00.472"N	80°58'11.264"W	63.23	225.429
6487.00	163.790	6184.51	58.34	-74.95	-35.91	-35.91	1648956.32	14313662.29	39°25'00.169"N	80°58'11.148"W	83.11	205.598
6534.00	164.360	6194.43	104.17	-119.13	-23.30	-23.30	1648968.91	14313618.13	39°24'59.733"N	80°58'10.987"W	121.08	191.069
6581.00	166.520	6201.97	150.35	-164.02	-11.65	-11.65	1648980.56	14313573.26	39°24'59.289"N	80°58'10.839"W	164.43	184.062
6628.00	167.010	6208.95	196.78	-209.51	-0.95	-0.95	1648991.26	14313527.78	39°24'58.839"N	80°58'10.703"W	209.51	180.260
6676.00	168.380	6209.19	244.30	-256.34	9.27	9.27	1649001.47	14313480.97	39°24'58.376"N	80°58'10.573"W	256.51	177.929
6722.00	169.080	6210.48	339.67	-349.72	31.47	31.47	1649023.67	14313387.63	39°24'57.453"N	80°58'10.291"W	351.13	174.858
6866.00	165.830	6211.24	433.28	-440.66	55.24	55.24	1649047.42	14313296.73	39°24'56.555"N	80°58'09.988"W	444.11	172.855
6861.00	162.250	6212.36	528.04	-531.97	81.35	81.35	1649073.53	14313205.45	39°24'55.652"N	80°58'09.666"W	538.16	171.306
7056.00	162.630	6214.63	622.98	-621.04	114.23	114.23	1649106.40	14313116.42	39°24'54.772"N	80°58'09.237"W	631.46	169.577
7151.00	168.200	6216.77	717.87	-708.92	150.26	150.26	1649142.41	14313028.58	39°24'53.903"N	80°58'08.779"W	724.66	168.033
7246.00	168.860	6218.71	812.80	-797.16	185.39	185.39	1649177.53	14312940.37	39°24'53.031"N	80°58'08.331"W	818.43	166.908
7341.00	158.980	6218.62	907.76	-885.65	219.93	219.93	1649212.05	14312851.92	39°24'52.156"N	80°58'07.892"W	912.55	166.054
7341.00	157.300	6218.77	1002.68	-973.81	255.30	255.30	1649247.40	14312763.79	39°24'51.285"N	80°58'07.441"W	1006.72	165.310
7436.00	158.550	6218.07	1097.57	-1061.74	291.17	291.17	1649283.26	14312675.89	39°24'50.415"N	80°58'06.985"W	1100.94	164.664
7531.00	158.310	6221.07	1191.51	-1149.12	325.79	325.79	1649317.86	14312588.55	39°24'49.552"N	80°58'06.544"W	1194.41	164.171
7531.00	157.060	6223.04	1286.42	-1237.05	361.73	361.73	1649353.80	14312500.65	39°24'48.682"N	80°58'06.066"W	1288.86	163.700
7715.00	154.420	6223.93	1381.12	-1323.65	400.76	400.76	1649392.81	14312414.09	39°24'47.826"N	80°58'05.590"W	1382.99	163.155
7815.00	155.680	6225.56	1475.73	-1409.77	440.83	440.83	1649432.86	14312328.01	39°24'46.975"N	80°58'05.080"W	1477.08	162.636
7910.00	156.440	6226.43	1570.48	-1496.59	479.37	479.37	1649471.39	14312241.22	39°24'46.117"N	80°58'04.589"W	1571.49	162.239
8005.00	155.560	6227.94	1665.21	-1583.37	518.01	518.01	1649510.01	14312154.48	39°24'45.259"N	80°58'04.097"W	1665.95	161.884
8100.00	155.960	6230.09	1759.90	-1669.96	557.01	557.01	1649548.99	14312067.92	39°24'44.403"N	80°58'03.600"W	1760.41	161.554
8195.00	155.590	6231.13	1854.61	-1756.59	595.99	595.99	1649587.96	14311981.33	39°24'43.547"N	80°58'03.104"W	1854.94	161.258

Comments

Turn Rate

Build Rate

DLS

Closure Dir

Closure Dist

Longitude

Latitude

Grid North

Grid East

East

North

Vert Sect

TVD

Azimuth

Inclination

MD

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Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Wellbore
Slot #07	Gauge Unit 1H
	Gauge Unit 1H AWB

WELLPATH DATA (228 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
8385.00	88.370	156.770	6232.53	1949.37	-1843.48	634.35	1649626.31	14311894.47	39°24'42.68"N	80°58'02.61"W	1949.57	161.01	2.07	-1.65	1.24	
8480.00	88.400	162.590	6235.21	2044.28	-1932.50	667.32	1649659.28	14311805.49	39°24'41.80"N	80°58'02.19"W	2044.47	160.950	6.12	0.03	6.13	
8575.00	88.800	166.180	6237.53	2138.99	-2023.95	692.88	1649684.81	14311714.08	39°24'40.90"N	80°58'01.87"W	2139.26	161.102	3.80	0.42	3.78	
8669.00	88.650	165.350	6239.63	2232.51	-2115.04	715.98	1649707.91	14311623.02	39°24'40.00"N	80°58'01.57"W	2232.94	161.298	0.90	-0.16	-0.88	
8764.00	88.920	164.640	6241.64	2327.16	-2206.78	740.58	1649732.49	14311531.62	39°24'39.09"N	80°58'01.26"W	2327.73	161.449	0.80	0.28	-0.75	
8859.00	89.570	165.120	6242.89	2421.83	-2298.48	765.35	1649757.25	14311439.65	39°24'38.19"N	80°58'00.94"W	2422.56	161.583	0.85	0.68	0.51	
8954.00	89.380	164.990	6243.76	2516.48	-2390.26	789.85	1649781.74	14311347.91	39°24'37.28"N	80°58'00.63"W	2517.38	161.714	0.24	-0.20	-0.14	
9049.00	89.350	164.310	6244.82	2611.19	-2481.87	815.00	1649806.88	14311256.34	39°24'36.37"N	80°58'00.31"W	2612.26	161.821	0.72	-0.03	-0.72	
9144.00	89.380	164.690	6245.87	2705.91	-2573.41	840.38	1649832.25	14311164.84	39°24'35.47"N	80°57'59.99"W	2707.15	161.915	0.40	0.03	0.40	
9238.00	89.660	164.030	6246.66	2799.66	-2663.92	865.72	1649857.58	14311074.36	39°24'34.57"N	80°57'59.67"W	2807.06	161.997	0.76	0.30	-0.70	
9333.00	89.540	161.990	6247.32	2894.53	-2754.77	893.48	1649885.33	14310983.55	39°24'33.68"N	80°57'59.31"W	2896.04	162.030	2.15	-0.13	-2.15	
9428.00	89.380	158.760	6248.22	2989.52	-2845.23	925.38	1649917.22	14310894.12	39°24'32.79"N	80°57'58.91"W	2990.99	161.978	3.40	-0.17	-3.40	
9523.00	89.510	159.820	6249.14	3084.50	-2933.09	958.98	1649950.80	14310805.30	39°24'31.91"N	80°57'58.48"W	3085.88	161.895	1.12	0.14	1.12	
9618.00	89.540	160.700	6249.92	3179.49	-3022.50	991.06	1649982.87	14310715.92	39°24'31.03"N	80°57'58.07"W	3180.84	161.846	0.93	0.03	0.93	
9713.00	89.630	160.760	6250.61	3274.49	-3112.18	1022.41	1650014.21	14310626.28	39°24'30.14"N	80°57'57.67"W	3275.82	161.814	0.11	0.08	0.06	
9808.00	89.850	160.860	6251.04	3369.48	-3201.62	1054.42	1650046.20	14310536.87	39°24'29.26"N	80°57'57.27"W	3370.78	161.771	0.98	0.23	-0.95	
9903.00	89.630	155.820	6251.47	3464.38	-3289.52	1090.40	1650082.17	14310449.01	39°24'28.39"N	80°57'56.81"W	3465.53	161.661	4.47	-0.23	-4.46	
9997.00	89.540	154.470	6252.15	3557.99	-3374.74	1130.06	1650121.81	14310363.82	39°24'27.52"N	80°57'56.30"W	3558.92	161.487	1.23	-0.10	-1.22	
10092.00	89.420	155.340	6253.02	3652.59	-3460.77	1170.35	1650162.08	14310277.83	39°24'26.70"N	80°57'55.79"W	3653.31	161.316	0.92	-0.13	0.92	
10187.00	89.290	157.090	6254.09	3747.35	-3547.69	1208.66	1650200.38	14310190.94	39°24'25.84"N	80°57'55.30"W	3747.93	161.187	1.85	-0.14	1.84	
10282.00	89.230	158.630	6255.31	3842.26	-3635.68	1244.45	1650236.16	14310102.99	39°24'24.97"N	80°57'54.85"W	3842.76	161.104	1.62	-0.06	1.62	
10377.00	89.380	158.420	6256.47	3937.22	-3724.08	1279.23	1650270.92	14310014.63	39°24'24.09"N	80°57'54.40"W	3937.66	161.042	0.27	-0.16	-0.22	
10472.00	89.320	159.970	6257.54	4032.19	-3812.87	1312.97	1650304.65	14309925.87	39°24'23.22"N	80°57'53.98"W	4032.60	160.999	1.63	-0.06	1.63	
10567.00	89.290	159.500	6258.70	4127.18	-3901.99	1345.87	1650337.54	14309836.79	39°24'22.34"N	80°57'53.56"W	4127.57	160.970	0.50	-0.03	-0.49	
10661.00	89.420	158.790	6259.75	4221.16	-3989.82	1379.33	1650370.99	14309748.99	39°24'21.47"N	80°57'53.13"W	4221.52	160.929	0.77	-0.14	-0.76	
10756.00	88.920	158.230	6261.13	4316.04	-4077.58	1415.67	1650407.31	14309661.27	39°24'20.60"N	80°57'52.67"W	4316.34	160.854	2.75	-0.53	-2.69	
10851.00	88.860	155.320	6262.97	4410.74	-4164.20	1454.64	1650446.26	14309574.69	39°24'19.748"N	80°57'52.17"W	4410.95	160.745	0.96	-0.06	-0.96	
10946.00	88.920	155.880	6264.81	4505.40	-4250.59	1494.10	1650485.71	14309488.33	39°24'18.894"N	80°57'51.67"W	4505.54	160.633	0.28	0.06	0.27	
11041.00	88.980	156.690	6266.55	4600.14	-4337.45	1532.53	1650524.12	14309401.50	39°24'18.035"N	80°57'51.18"W	4600.23	160.540	1.17	0.06	1.17	
11136.00	89.050	157.870	6268.19	4695.01	-4425.07	1569.22	1650560.79	14309313.92	39°24'17.169"N	80°57'50.71"W	4695.07	160.474	1.24	0.07	1.24	

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Actual Wellpath Report

Gauge Unit 1H AWP Proj: 18751

REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Gauge Unit 1H
Wellbore	Gauge Unit 1H AWB
Slot	Slot #07

WELLPATH DATA (228 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (LUS ft)	Grid North (LUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
11200.00	88.830	159.860	6269.92	4788.96	-4512.73	1603.10	1650594.67	14309226.30	39°24'16.303"N	80°57'50.287"W	4789.01	160.443	2.13	-0.23	2.12	
11325.00	88.960	163.000	6271.76	4883.91	-4602.75	1633.35	1650624.90	14309136.31	39°24'15.413"N	80°57'49.902"W	4883.97	160.462	3.31	0.13	3.31	
11420.00	88.980	168.660	6273.48	4978.39	-4694.81	1656.59	1650648.13	14309044.29	39°24'14.503"N	80°57'49.606"W	4978.51	160.564	5.96	0.03	5.96	
11515.00	88.860	169.760	6275.27	5072.20	-4788.11	1674.37	1650665.91	14308951.02	39°24'13.581"N	80°57'49.380"W	5072.43	160.726	1.16	-0.13	1.16	
11610.00	89.750	169.150	6276.43	5165.95	-4881.50	1691.76	1650683.28	14308857.67	39°24'12.657"N	80°57'49.159"W	5166.34	160.885	1.14	0.94	-0.64	
11705.00	89.260	167.290	6277.25	5260.01	-4974.49	1711.15	1650702.67	14308764.72	39°24'11.738"N	80°57'48.913"W	5260.57	161.018	2.02	-0.52	-1.96	
11800.00	89.200	165.350	6278.52	5354.45	-5066.78	1733.61	1650725.12	14308672.46	39°24'10.826"N	80°57'48.627"W	5355.16	161.111	2.04	-0.06	-2.04	
11895.00	89.320	164.730	6279.75	5449.10	-5158.55	1758.13	1650749.64	14308580.73	39°24'09.919"N	80°57'48.315"W	5449.93	161.180	0.66	0.13	-0.65	
11990.00	89.630	163.090	6280.62	5543.89	-5249.82	1784.46	1650775.95	14308489.49	39°24'09.017"N	80°57'47.980"W	5544.81	161.227	1.76	0.33	-1.73	
12084.00	89.290	165.810	6281.51	5637.81	-5337.78	1817.43	1650808.91	14308401.57	39°24'08.147"N	80°57'47.561"W	5638.70	161.197	2.75	-0.36	-7.74	
12179.00	89.290	152.140	6282.69	5732.23	-5423.13	1859.11	1650850.57	14308316.26	39°24'07.304"N	80°57'47.030"W	5732.94	161.078	3.86	0.00	-3.86	
12274.00	89.320	152.040	6283.84	5826.28	-5507.07	1903.57	1650895.01	14308232.35	39°24'06.474"N	80°57'46.464"W	5826.78	160.932	0.11	0.03	-0.11	
12369.00	89.170	154.150	6285.09	5920.54	-5591.77	1946.55	1650937.98	14308147.68	39°24'05.636"N	80°57'45.917"W	5920.90	160.806	2.23	-0.16	2.22	
12464.00	88.830	158.900	6286.75	6015.31	-5678.87	1984.38	1650975.79	14308060.62	39°24'04.775"N	80°57'45.436"W	6015.59	160.739	5.01	-0.36	5.00	
12559.00	89.080	163.840	6288.48	6110.24	-5768.85	2014.71	1651006.11	14307970.68	39°24'03.886"N	80°57'45.050"W	6110.54	160.749	5.21	0.26	5.20	
12654.00	89.230	167.290	6290.01	6204.80	-5860.83	2038.39	1651029.78	14307878.74	39°24'02.977"N	80°57'44.749"W	6205.19	160.822	3.63	0.00	3.63	
12749.00	89.230	168.980	6291.41	6298.87	-5953.78	2057.92	1651049.30	14307785.82	39°24'02.058"N	80°57'44.500"W	6299.41	160.932	1.79	0.16	1.78	
12844.00	89.880	168.400	6292.15	6392.82	-6048.94	2076.55	1651067.92	14307692.70	39°24'01.137"N	80°57'44.264"W	6393.55	161.047	0.92	0.66	-0.61	
12939.00	91.420	159.360	6291.07	6487.51	-6138.10	2102.90	1651094.26	14307601.58	39°24'00.236"N	80°57'43.929"W	6488.33	161.089	9.65	1.62	-9.52	
13033.00	89.630	162.900	6290.21	6581.48	-6225.80	2136.71	1651128.06	14307513.92	39°23'59.369"N	80°57'43.498"W	6582.25	161.058	2.13	-1.90	-0.95	
13128.00	89.600	154.350	6290.84	6676.25	-6312.84	2174.72	1651166.05	14307426.91	39°23'58.509"N	80°57'43.015"W	6676.92	160.992	4.34	-0.03	-4.34	
13223.00	89.480	152.360	6291.61	6770.57	-6397.74	2217.32	1651208.64	14307342.04	39°23'57.669"N	80°57'42.472"W	6771.08	160.885	2.10	-0.13	-2.09	
13318.00	89.600	155.050	6292.98	6864.91	-6482.70	2259.80	1651251.10	14307257.11	39°23'56.830"N	80°57'41.932"W	6865.29	160.782	2.27	0.16	2.26	
13413.00	89.600	155.050	6292.98	6959.48	-6568.65	2300.28	1651291.56	14307171.20	39°23'55.980"N	80°57'41.417"W	6959.77	160.700	0.57	-0.03	0.57	
13508.00	89.540	155.210	6293.70	7054.11	-6654.84	2340.21	1651331.47	14307085.04	39°23'55.128"N	80°57'40.908"W	7054.33	160.626	0.21	-0.06	0.20	
13603.00	89.510	155.190	6294.48	7148.75	-6741.09	2380.03	1651371.28	14306998.83	39°23'54.275"N	80°57'40.402"W	7148.91	160.554	0.06	-0.03	-0.05	
13698.00	89.540	162.950	6295.27	7243.62	-6828.83	2416.37	1651407.61	14306911.12	39°23'53.408"N	80°57'39.939"W	7243.74	160.514	4.86	0.03	4.86	
13792.00	89.690	163.970	6295.90	7337.56	-6918.15	2445.59	1651436.81	14306821.84	39°23'52.525"N	80°57'39.567"W	7337.69	160.531	4.43	0.16	4.43	
13887.00	89.720	164.430	6296.39	7432.32	-7009.56	2471.45	1651462.67	14306730.46	39°23'51.621"N	80°57'39.238"W	7432.50	160.578	0.49	0.03	0.48	
13982.00	89.290	161.570	6297.21	7527.19	-7100.40	2499.22	1651490.43	14306639.66	39°23'50.724"N	80°57'38.885"W	7527.40	160.609	3.04	-0.45	-3.01	

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #07
Gauge Unit 1H	Well
Gauge Unit 1H AWB	Wellbore

WELLPATH DATA (228 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)	(ft)	(US ft)	(US ft)	(N)	(W)	(ft)	(°)	(ft/100ft)	(%/100ft)	(%/100ft)	
14077.00	6298.42	7622.14	-7190.68	2528.78	1651519.97	14306549.42	39°23'49.83"N	80°57'38.50"W	7622.37	160.625	0.64	-0.03	0.64			
14172.00	6299.59	7717.03	-7281.42	2556.87	1651548.05	14306458.72	39°23'48.934"N	80°57'38.152"W	7717.30	160.651	1.31	0.06	1.31			
14266.00	6300.68	7810.90	-7371.38	2584.11	1651575.28	14306368.79	39°23'48.045"N	80°57'37.805"W	7811.20	160.681	0.58	0.03	0.57			
14361.00	6301.84	7905.84	-7461.71	2613.49	1651604.65	14306278.50	39°23'47.152"N	80°57'37.432"W	7906.17	160.697	1.89	-0.09	-1.88			
14456.00	6303.09	8000.83	-7551.16	2645.45	1651636.60	14306189.08	39°23'46.268"N	80°57'37.025"W	8001.15	160.693	1.59	-0.03	-1.59			
14551.00	6304.29	8095.76	-7639.33	2680.79	1651671.92	14306100.95	39°23'45.396"N	80°57'36.575"W	8096.04	160.663	2.99	0.09	-2.99			
14646.00	6305.37	8190.44	-7725.83	2720.02	1651711.14	14306014.48	39°23'44.541"N	80°57'36.076"W	8190.67	160.604	2.39	0.06	-2.39			
14741.00	6306.52	8285.12	-7812.33	2759.27	1651750.37	14305928.02	39°23'43.686"N	80°57'35.577"W	8285.29	160.547	2.37	-0.16	-2.37			
14836.00	6307.71	8379.06	-7899.68	2793.94	1651785.03	14305840.70	39°23'42.823"N	80°57'35.136"W	8379.20	160.522	3.47	0.10	-3.47			
14930.00	6308.25	8474.05	-7989.32	2825.38	1651816.46	14305751.10	39°23'41.936"N	80°57'34.736"W	8474.20	160.524	1.63	0.75	-1.45			
15025.00	6308.25	8569.02	-8078.31	2858.61	1651849.67	14305662.15	39°23'41.057"N	80°57'34.313"W	8569.17	160.513	3.86	-0.06	-3.86			
15120.00	6308.27	8663.81	-8165.33	2896.69	1651887.73	14305575.16	39°23'40.197"N	80°57'33.828"W	8663.92	160.468	2.78	0.03	-2.78			
15215.00	6308.37	8758.42	-8251.42	2936.86	1651927.89	14305489.11	39°23'39.345"N	80°57'33.317"W	8758.48	160.408	0.19	-0.13	-0.15			
15310.00	6308.85	8853.19	-8338.44	2974.93	1651965.94	14305402.12	39°23'38.485"N	80°57'32.833"W	8853.24	160.365	3.10	-0.36	-3.03			
15405.00	6309.52	8948.16	-8427.83	3007.01	1651998.01	14305312.77	39°23'37.602"N	80°57'32.425"W	8948.21	160.364	5.09	0.13	5.08			
15500.00	6309.92	9043.05	-8518.67	3034.83	1652025.82	14305221.97	39°23'36.704"N	80°57'32.071"W	9043.11	160.391	0.67	0.20	0.64			
15594.00	6310.17	9136.84	-8609.00	3060.80	1652051.78	14305131.67	39°23'35.811"N	80°57'31.741"W	9136.93	160.428	1.45	0.00	1.45			
15689.00	6310.32	9231.40	-8701.06	3084.26	1652075.23	14305039.65	39°23'34.901"N	80°57'31.442"W	9231.52	160.482	2.25	0.13	2.24			
15784.00	6310.44	9325.88	-8793.29	3107.02	1652097.98	14304947.46	39°23'33.989"N	80°57'31.153"W	9326.06	160.540	1.34	-0.09	-1.34			
15879.00	6310.69	9420.32	-8885.62	3129.38	1652120.33	14304855.17	39°23'33.077"N	80°57'30.869"W	9420.57	160.599	1.87	-0.06	-1.87			
15974.00	6310.79	9514.20	-8978.84	3147.60	1652138.54	14304761.98	39°23'32.165"N	80°57'30.637"W	9514.56	160.682	3.50	0.25	3.49			
16069.00	6310.59	9608.15	-9071.95	3166.32	1652157.26	14304668.90	39°23'31.235"N	80°57'30.399"W	9608.64	160.760	4.15	0.13	-4.16			
16164.00	6310.88	9707.49	-9164.07	3189.55	1652207.07	14304485.67	39°23'29.423"N	80°57'29.766"W	9798.13	160.838	2.83	-0.75	-2.73			
16259.00	6310.14	9891.41	-9342.92	3242.91	1652240.81	14304398.04	39°23'28.556"N	80°57'29.336"W	9892.02	160.820	7.48	-0.85	-7.44			
16353.00	6309.94	9985.61	-9427.46	3293.18	1652284.06	14304313.54	39°23'27.720"N	80°57'28.786"W	9986.09	160.745	5.38	0.09	-5.38			
16448.00	6310.14	10079.43	-9510.68	3338.99	1652329.86	14304230.35	39°23'26.898"N	80°57'28.203"W	10079.78	160.655	1.74	-0.06	-1.74			
16543.00	6310.55	10173.84	-9595.97	3380.80	1652371.65	14304145.10	39°23'26.065"N	80°57'27.671"W	10174.10	160.592	3.99	-0.20	3.99			
16638.00	6310.65	10268.54	-9682.49	3420.02	1652410.86	14304058.61	39°23'25.199"N	80°57'27.171"W	10268.75	160.546	0.68	0.59	-0.35			
16733.00	6310.20	10363.20	-9768.82	3459.67	1652450.49	14303972.31	39°23'24.346"N	80°57'26.667"W	10363.36	160.498	0.43	-0.36	-0.24			

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Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Well
Slot #07	Gauge Unit 1H AWP

WELLPATH DATA (228 stations)													
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(ft)	(ft)	(ft)	(ft)	(ft)
16923.00	89.880	159.890	6310.76	10458.07	-9556.60	3495.93	1652486.73	14303884.57	39°23'23.478"N	80°57'26.206"W	10458.21	160.471	4.92
17017.00	89.940	159.770	6310.91	10552.07	-9544.84	3528.34	1652519.13	14303796.37	39°23'22.606"N	80°57'25.793"W	10552.20	160.466	0.14
17112.00	89.910	158.130	6311.04	10647.05	-10033.49	3562.46	1652553.24	14303707.75	39°23'21.729"N	80°57'26.369"W	10647.17	160.452	-1.73
17207.00	89.720	158.070	6311.34	10741.98	-10121.64	3597.90	1652588.66	14303619.64	39°23'20.858"N	80°57'24.909"W	10742.09	160.431	-0.06
17302.00	89.850	160.090	6311.70	10836.96	-10210.37	3631.81	1652622.56	14303530.94	39°23'19.981"N	80°57'24.477"W	10837.05	160.420	2.13
17397.00	90.000	162.570	6311.82	10931.93	-10300.36	3662.22	1652652.96	14303440.99	39°23'19.091"N	80°57'24.090"W	10932.03	160.428	2.61
17492.00	89.850	162.780	6311.95	11026.84	-10391.05	3690.51	1652681.24	14303350.33	39°23'18.195"N	80°57'23.731"W	11026.96	160.447	0.22
17586.00	89.850	162.340	6312.19	11120.76	-10480.73	3718.69	1652709.40	14303260.69	39°23'17.308"N	80°57'23.372"W	11120.90	160.466	-0.47
17681.00	90.120	162.550	6312.22	11215.69	-10571.31	3747.34	1652738.04	14303170.15	39°23'16.413"N	80°57'23.008"W	11215.84	160.481	0.36
17761.00	90.150	163.670	6313.99	11310.56	-10662.21	3774.94	1652766.63	14303079.29	39°23'15.514"N	80°57'22.657"W	11310.74	160.504	1.18
17871.00	90.250	166.300	6314.66	11405.22	-10753.96	3799.55	1652790.23	14302987.58	39°23'14.608"N	80°57'22.344"W	11405.44	160.541	2.77
17966.00	90.220	163.920	6314.27	11499.86	-10845.76	3823.96	1652814.63	14302895.81	39°23'13.700"N	80°57'22.034"W	11500.14	160.579	2.51
18061.00	90.250	161.830	6310.88	11594.75	-10936.54	3851.93	1652842.59	14302805.06	39°23'12.803"N	80°57'21.678"W	11595.05	160.597	2.20
18155.00	90.310	162.650	6310.42	11688.68	-11026.06	3880.60	1652871.25	14302715.58	39°23'11.918"N	80°57'21.314"W	11689.01	160.611	0.87
18250.00	90.180	164.060	6310.02	11783.54	-11117.08	3907.81	1652898.45	14302624.60	39°23'11.018"N	80°57'20.968"W	11783.90	160.633	1.48
18345.00	90.180	164.120	6309.72	11878.31	-11208.44	3933.86	1652924.48	14302533.28	39°23'10.115"N	80°57'20.636"W	11878.73	160.660	0.06
18439.00	90.180	164.310	6309.42	11972.08	-11298.89	3959.43	1652950.04	14302442.86	39°23'09.221"N	80°57'20.311"W	11972.55	160.688	0.20
18751.00	90.180	164.310	6308.44	12283.27	-11599.26	4043.80	1653034.38	14302124.61	39°23'06.252"N	80°57'19.239"W	12283.94	160.780	0.00

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Projected MD at TD: 18751'



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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Wellbore
Slot #07	Gauge Unit 1H AWP

HOLE & CASING SECTIONS - Ref Wellbore: Gauge Unit 1H AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start EW [ft]	End N/S [ft]	End EW [ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	-0.36	0.00
17.5in Open Hole	105.50	389.50	284.00	105.50	389.48	-0.36	0.00	-3.08	1.26
13.375in Casing Surface	25.50	389.50	364.00	25.50	389.48	0.00	0.00	-3.08	1.26
12.25in Open Hole	389.50	2588.60	2199.10	389.48	2588.22	-3.08	1.26	-10.81	-13.12
9.625in Casing Intermediate	25.50	2588.60	2563.10	25.50	2588.22	0.00	0.00	-10.81	-13.12
8.75in Open Hole	2588.60	6934.50	3345.90	2588.22	5864.56	-10.81	327.74	-189.87	-189.87
8.5in Open Hole	5934.50	18751.00	12816.50	5864.56	6308.44	327.74	-189.87	-1599.26	4043.80
5.5in Casing Production	25.50	18751.00	18725.50	25.50	6308.44	0.00	0.00	-1599.26	4043.80

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Gauge Unit 1H - POE - Rev-2	6168.00	-17.20	-62.52	1648929.71	14313720.01	39°26'00.740"N	80°58'11.487"W	point
Gauge Unit 1H - BHL - Rev-1	6205.00	-11629.88	4123.45	1653114.00	14302112.00	39°23'05.949"N	80°57'18.224"W	point
Gauge Unit 1H - LP - Rev-2	6205.00	-224.41	12.17	1649004.37	14313512.89	39°24'58.692"N	80°58'10.536"W	point

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Gauge Unit 1H
Field	Tyler	Wellbore	Gauge Unit 1H AWP
Facility	Rush Fork Pad		

WELLPATH COMPOSITION - Ref Wellbore: Gauge Unit 1H AWP Proj: 18751			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
25.50	338.50	Gyrodatta standard - Drop gyro or Multi-shot	01 Gyrodatta MS Gyro <17-1/2"><100'-328'
338.50	2508.50	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4"><328'\430'-2496'
2508.50	5862.50	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4"><2496'\2655'-5852'
5862.50	18439.00	BH1 AutoTrak Curve (Short)	04 BH AT Curve <8-1/2">(5862.5'\6917'-18439')
18439.00	18751.00	Blind Drilling (std)	Projection to bit
			Gauge Unit 1H AWP
			Gauge Unit 1H AWP
			Gauge Unit 1H AWP
			Gauge Unit 1H AWP
			Wellbore

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Actual Wellpath Report

Gauge Unit 1H AWP Proj: 18751



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Gauge Unit 1H
Field	Tyler	Wellbore	Gauge Unit 1H AWB
Facility	Rush Fork Pad		

COMMENTS
Wellpath general comments API: 47-095-02538-0000 BHI Job #: 109770853 Rig: H&P 317 Duration: 04/22/2019-04/25/2019 Gyrodatta MS Gyro <17-1/2">(100'-328') WFT EM <12-1/4">(328')(430'-2496') WFT EM <8-3/4">(2496')(2655'-5852') BH AT Curve <8-1/2">(5862.5')(5917'-18439') Middlesex: 6192' MD Burkett: 6379' MD Tully: 6430' MD Marcellus POE: 6454' MD Projected MD at TD: 18751'

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