



Actual Wellpath Report

Gauge Unit 3H AWP Proj: 18769
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Gauge Unit 3H
Field	Tyler	Wellbore	Gauge Unit 3H AWB
Facility	Rush Fork Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 5.1
North Reference	Grid	User	Delaset
Scale	0.999600	Report Generated	4/24/2019 at 3:42:23 PM
Convergence at slot	0.02' East	Database/Source file	WA_MPL_EasternUS_Defn/Gauge_Unit_3H_AWP_Proj_18769.xml

WELLPATH LOCATION					
Local coordinates			Grid coordinates		
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude
Slot Location	-39.66	-5.63	1648995.34	14313756.43	39°25'01.100"N
Facility Reference Pt			1649000.97	14313796.07	39°25'01.492"N
Field Reference Pt					0°00'00.000"
					85°29'19.301"W

WELLPATH DATUM					
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum			
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level			
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #05)			
MD Reference Pt	H&P 317 (RKB)	Section Origin			
Field Vertical Reference	Mean Sea Level	Section Azimuth			
		160.18°			
		N 0.00, E 0.00 ft			
		25.50ft			
		1011.50ft			
		1011.50ft			

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #05
Gauge Unit 3H	Well
Gauge Unit 3H AWB	Wellbore

WELLPATH DATA (229 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)
0.00	0.00	274.910	25.50	0.00	0.00	0.00	14313756.43	39°25'01.100"N	80°58'10.650"W	0.00	0.00	0.00
25.50	0.000	274.910	25.50	0.00	0.00	0.00	14313756.43	39°25'01.100"N	80°58'10.650"W	0.00	0.00	0.00
110.50	0.320	274.910	110.50	-0.10	0.02	-0.24	14313756.45	39°25'01.100"N	80°58'10.653"W	0.24	274.910	0.38
135.50	0.340	263.380	135.50	-0.15	0.02	-0.38	14313756.44	39°25'01.100"N	80°58'10.655"W	0.38	272.675	0.08
160.50	0.360	270.480	160.50	-0.19	0.01	-0.53	14313756.44	39°25'01.100"N	80°58'10.657"W	0.53	271.069	0.49
185.50	0.340	264.830	185.50	-0.24	0.00	-0.68	14313756.43	39°25'01.100"N	80°58'10.659"W	0.68	270.320	0.16
210.50	0.180	244.960	210.50	-0.25	-0.02	-0.79	14313756.41	39°25'01.100"N	80°58'10.660"W	0.79	268.594	0.73
235.50	0.250	288.900	235.50	-0.02	-0.02	-0.88	14313756.41	39°25'01.100"N	80°58'10.661"W	0.88	268.801	0.69
260.50	0.140	279.580	260.50	-0.33	0.00	-0.96	14313756.43	39°25'01.100"N	80°58'10.662"W	0.96	270.257	0.46
285.50	0.140	290.200	285.50	-0.37	0.02	-1.02	14313756.45	39°25'01.100"N	80°58'10.663"W	1.02	271.118	0.10
310.50	0.070	296.110	310.50	-0.40	0.04	-1.06	14313756.46	39°25'01.100"N	80°58'10.664"W	1.06	272.003	0.28
335.50	0.150	315.920	335.50	-0.44	0.07	-1.10	14313756.49	39°25'01.101"N	80°58'10.664"W	1.10	273.507	0.35
360.50	0.030	186.040	360.50	-0.46	0.08	-1.12	14313756.51	39°25'01.101"N	80°58'10.664"W	1.13	274.297	0.68
372.50	0.140	271.380	372.50	-0.46	0.08	-1.14	14313756.51	39°25'01.101"N	80°58'10.665"W	1.14	274.102	1.17
500.50	1.830	450.050	500.48	-1.55	1.65	0.02	1648995.36	39°25'01.116"N	80°58'10.650"W	1.65	0.697	1.50
594.50	4.890	55.010	594.31	-3.35	5.10	4.27	1648999.61	39°25'01.150"N	80°58'10.596"W	6.65	39.948	3.36
666.50	7.240	57.580	665.78	-5.64	10.45	12.38	1649007.71	39°25'01.203"N	80°58'10.492"W	16.20	49.812	2.57
778.50	8.850	55.970	776.88	-8.64	17.52	23.14	1649018.47	39°25'01.273"N	80°58'10.355"W	29.02	52.859	1.77
871.50	10.820	54.460	868.50	-12.76	26.60	36.17	1649031.49	39°25'01.363"N	80°58'10.189"W	44.90	53.666	2.14
967.50	12.150	53.760	962.58	-18.06	37.81	51.65	1649046.97	39°25'01.474"N	80°58'09.992"W	64.01	53.792	1.39
1062.50	11.850	50.910	1055.51	-24.11	49.87	67.28	1649062.60	39°25'01.593"N	80°58'09.792"W	83.75	53.453	0.70
1157.50	12.750	49.980	1148.32	-30.94	62.77	82.88	1649078.19	39°25'01.720"N	80°58'09.594"W	103.97	52.865	0.97
1252.50	13.660	55.070	1240.81	-37.49	75.93	100.11	1649095.41	39°25'01.850"N	80°58'09.374"W	125.65	52.821	1.55
1347.50	13.350	59.830	1332.57	-42.82	89.08	120.87	1649116.16	39°25'01.980"N	80°58'09.110"W	150.15	53.612	3.11
1442.50	18.190	60.080	1423.28	-47.82	103.19	145.29	1649140.57	39°25'02.119"N	80°58'08.798"W	178.20	54.615	1.94
1537.50	19.660	60.820	1513.15	-53.02	118.38	172.09	1649167.36	39°25'02.269"N	80°58'08.457"W	208.88	55.476	1.57
1631.50	19.680	60.500	1601.66	-58.25	133.89	199.67	1649194.93	39°25'02.423"N	80°58'08.105"W	240.40	56.157	0.12
1726.50	18.070	58.620	1691.55	-63.89	149.44	226.18	1649221.42	39°25'02.576"N	80°58'07.767"W	271.08	56.547	1.81
1821.50	16.840	53.510	1782.18	-70.80	165.29	249.82	1649245.06	39°25'02.733"N	80°58'07.466"W	299.55	56.510	2.07
1916.50	17.950	56.390	1872.83	-78.23	181.58	273.08	1649268.31	39°25'02.894"N	80°58'07.170"W	327.94	56.378	1.48

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Wellbore
Gauge Unit 3H	Gauge Unit 3H AWP
Slot #05	

MD	Inclination	TD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	DLS	Build Rate	Turn Rate	Comments		
2010.50	18.730	58.830	1962.06	-84.66	197.41	298.05	1649293.27	14313953.76	39.2503.03.050N	80.5806.851W	357.50	56.482	1.16	0.83	2.60	
2105.50	17.640	59.090	2052.34	-90.41	212.66	323.39	1649318.60	14313969.00	39.2503.03.201N	80.5806.529W	387.04	56.671	1.26	-1.25	0.27	
2200.50	15.360	55.380	2143.45	-96.38	227.16	346.03	1649341.23	14313983.50	39.2503.03.344N	80.5806.240W	413.93	56.716	2.55	-2.29	-3.91	
2295.50	15.120	53.170	2235.11	-103.22	241.74	366.30	1649361.49	14313998.07	39.2503.03.488N	80.5805.982W	438.87	56.577	0.66	-0.25	-2.33	
2390.50	16.080	56.970	2326.61	-109.65	256.34	387.25	1649382.43	14314012.66	39.2503.03.632N	80.5805.715W	464.40	56.498	1.48	1.01	4.00	
2444.50	15.180	56.380	2417.13	-115.76	270.25	408.41	1649403.58	14314026.56	39.2503.03.770N	80.5805.445W	489.73	56.507	0.97	-0.96	-0.63	
2564.50	15.120	54.640	2494.35	-121.05	282.08	425.64	1649420.81	14314038.40	39.2503.03.887N	80.5805.225W	510.63	56.466	0.57	-0.08	-2.18	
2660.50	16.090	57.730	2586.81	-127.28	296.43	447.10	1649442.26	14314052.74	39.2504.028N	80.5804.952W	536.44	56.455	1.33	1.01	3.22	WFT EM <8-3/4" > (2554)(2650-6007)
2755.50	17.500	56.570	2677.76	-133.48	311.33	470.15	1649465.30	14314067.63	39.2504.175N	80.5804.658W	563.89	56.488	1.53	1.48	-1.22	
2850.50	18.970	56.220	2767.99	-140.56	327.79	494.91	1649490.05	14314084.08	39.2504.338N	80.5804.343W	593.62	56.483	1.55	1.55	-0.37	
2945.50	18.530	55.330	2857.95	-148.16	344.96	520.16	1649515.29	14314101.25	39.2504.508N	80.5804.021W	624.15	56.448	0.55	-0.46	-0.94	
3045.50	17.950	53.620	2952.92	-156.62	363.14	545.63	1649540.75	14314119.42	39.2504.667N	80.5803.696W	655.43	56.355	0.79	-0.58	-1.71	
3140.50	17.800	53.610	3043.34	-164.93	380.44	569.11	1649564.22	14314136.71	39.2504.868N	80.5803.397W	684.56	56.238	0.16	-0.16	-0.01	
3235.50	17.680	55.840	3133.82	-172.65	397.15	592.73	1649587.84	14314153.42	39.2505.023N	80.5803.096W	713.49	56.177	0.73	-0.13	2.35	
3330.50	17.980	57.090	3314.51	-185.99	429.09	642.02	1649637.10	14314185.35	39.2505.339N	80.5802.468W	772.21	56.243	0.47	0.43	-0.57	
3425.50	18.390	57.990	3314.51	-185.99	429.09	642.02	1649637.10	14314185.35	39.2505.339N	80.5802.468W	772.21	56.243	0.47	0.43	-0.57	
3425.50	17.980	57.090	3314.51	-179.41	413.10	617.06	1649612.15	14314169.36	39.2505.181N	80.5802.786W	742.57	56.199	0.66	1.88	1.10	
3425.50	17.400	55.440	3404.92	-193.00	445.29	666.30	1649661.37	14314201.54	39.2505.499N	80.5802.158W	801.40	56.245	1.17	-1.04	-1.74	
3615.50	17.350	57.320	3495.58	-199.76	461.00	689.92	1649684.98	14314217.24	39.2505.654N	80.5801.857W	829.77	56.249	0.59	-0.05	1.98	
3709.50	18.140	58.350	3585.11	-205.88	476.25	714.18	1649709.23	14314232.48	39.2505.805N	80.5801.548W	858.40	56.303	0.90	0.84	1.10	
3804.50	18.860	55.290	3675.20	-212.86	492.75	739.39	1649734.43	14314248.98	39.2505.968N	80.5801.227W	888.54	56.319	1.27	0.76	-3.22	
3899.50	17.820	51.380	3765.38	-221.49	510.57	763.37	1649758.40	14314266.79	39.2506.144N	80.5800.921W	918.37	56.224	1.70	-1.09	-4.12	
3994.50	18.080	51.340	3855.75	-230.94	528.85	786.24	1649781.26	14314285.06	39.2506.324N	80.5800.630W	947.55	56.074	0.27	-0.17	-0.04	
4089.50	17.920	51.330	3946.10	-240.42	547.19	809.16	1649804.17	14314303.40	39.2506.505N	80.5800.337W	976.81	55.932	0.17	-0.17	-0.01	
4184.50	16.250	54.270	4036.91	-248.78	564.09	831.66	1649826.37	14314320.29	39.2506.672N	80.5800.054W	1004.67	55.843	1.98	-1.76	3.09	
4279.50	16.530	55.370	4128.05	-255.88	579.53	853.27	1649848.27	14314335.72	39.2506.825N	80.5759.775W	1031.47	55.816	0.44	0.29	1.16	
4373.50	16.680	55.480	4218.13	-262.72	594.77	875.39	1649870.38	14314350.96	39.2506.975N	80.5759.493W	1058.33	55.806	0.16	0.16	0.72	
4468.50	17.150	56.120	4309.02	-269.59	610.31	898.25	1649893.23	14314366.49	39.2507.129N	80.5759.202W	1085.97	55.834	0.53	0.49	0.67	
4563.50	18.110	57.620	4399.56	-276.20	626.02	922.35	1649917.32	14314382.20	39.2507.284N	80.5758.995W	1114.73	55.834	1.12	1.01	1.58	
4658.50	18.570	55.540	4489.73	-283.23	642.49	947.29	1649942.25	14314398.66	39.2507.447N	80.5758.577W	1144.62	55.853	0.84	0.48	-2.19	
4753.50	18.240	56.700	4579.87	-290.52	659.21	972.19	1649967.14	14314415.37	39.2507.612N	80.5758.260W	1174.61	55.860	0.52	-0.35	1.22	

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Area				Tyler County, WV
Field				Tyler
Facility				Rush Fork Pad
Slot				Slot #05
Well				Gauge Unit 3H
Wellbore				Gauge Unit 3H AWB

REFERENCE Wellpath IDENTIFICATION

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
4848.50	18.150	55.760	4670.12	-297.67	675.70	996.85	1649991.79	14314431.85	39°25'07.775"N	80°57'57.945"W	1204.28	55.889	0.32	-0.09	-0.99	
4943.50	18.380	56.400	4760.34	-304.93	692.31	1021.56	1650016.49	14314448.46	39°25'07.939"N	80°57'57.630"W	1234.05	55.874	0.32	0.24	0.67	
5037.50	18.840	57.280	4849.42	-311.84	708.72	1046.67	1650041.59	14314464.86	39°25'08.404"N	80°57'57.310"W	1264.04	55.897	0.57	0.49	0.94	
5132.50	18.790	58.490	4939.35	-318.37	725.01	1072.62	1650067.53	14314481.14	39°25'08.262"N	80°57'56.980"W	1294.66	55.944	0.41	-0.05	1.27	
5227.50	19.660	56.720	5029.18	-325.10	741.56	1098.70	1650093.59	14314497.69	39°25'08.425"N	80°57'56.647"W	1325.53	55.983	0.72	0.39	-1.86	
5322.50	18.910	57.060	5118.99	-332.22	758.48	1124.65	1650119.54	14314514.60	39°25'08.592"N	80°57'56.316"W	1356.51	56.004	0.29	-0.26	0.36	
5417.50	17.690	55.570	5209.18	-339.36	775.01	1149.47	1650144.35	14314531.13	39°25'08.756"N	80°57'56.000"W	1386.34	56.011	1.38	-1.28	-1.57	
5512.50	17.750	55.560	5299.68	-346.65	791.36	1173.32	1650168.19	14314547.47	39°25'08.917"N	80°57'55.696"W	1415.25	56.006	0.06	-0.01	-0.01	
5607.50	16.930	55.780	5390.36	-353.75	807.33	1196.70	1650191.56	14314563.44	39°25'09.075"N	80°57'55.398"W	1443.57	55.995	0.87	-0.86	0.23	
5701.50	16.100	56.920	5480.48	-359.47	821.56	1219.30	1650214.15	14314577.66	39°25'09.216"N	80°57'55.110"W	1470.26	56.028	1.53	-0.88	4.40	
5733.50	15.850	67.430	5511.25	-360.47	825.47	1227.18	1650222.02	14314581.56	39°25'09.254"N	80°57'54.908"W	1478.97	56.073	6.50	-0.78	23.47	
5765.50	14.790	77.440	5542.12	-360.17	828.03	1235.20	1650230.04	14314584.12	39°25'09.279"N	80°57'54.908"W	1487.06	56.164	8.89	-3.31	31.28	
5796.50	14.030	89.480	5572.15	-358.42	828.93	1242.82	1650237.66	14314585.02	39°25'09.288"N	80°57'54.610"W	1493.89	56.298	9.95	-2.45	38.84	
5828.50	13.880	103.210	5603.21	-355.05	828.08	1250.44	1650245.28	14314584.18	39°25'09.280"N	80°57'54.713"W	1499.77	56.466	10.33	-0.47	42.91	
5860.50	15.110	115.620	5634.20	-349.98	825.40	1257.94	1650252.77	14314581.50	39°25'09.253"N	80°57'54.618"W	1504.56	56.729	10.42	3.84	38.78	
5891.50	17.250	125.370	5663.98	-343.33	820.99	1265.33	1650260.16	14314577.09	39°25'09.210"N	80°57'54.524"W	1508.34	57.023	11.13	6.90	31.45	
5923.50	19.720	131.160	5694.33	-334.71	814.69	1273.27	1650268.09	14314570.79	39°25'09.147"N	80°57'54.423"W	1511.60	57.387	9.61	7.72	18.09	
5954.50	22.190	135.770	5723.28	-324.80	807.05	1281.29	1650276.11	14314563.16	39°25'09.072"N	80°57'54.320"W	1514.28	57.794	7.97	14.87		
5986.50	24.310	139.360	5752.68	-313.14	797.72	1289.80	1650284.62	14314553.83	39°25'08.980"N	80°57'54.102"W	1518.58	58.763	8.05	7.97	2.65	
6017.50	26.780	140.180	5780.65	-300.61	787.52	1298.43	1650293.24	14314543.63	39°25'08.879"N	80°57'54.102"W	1518.58	58.763	8.05	7.97	2.65	
6087.00	30.860	142.220	5841.53	-268.93	761.39	1319.38	1650314.19	14314517.51	39°25'08.620"N	80°57'53.835"W	1523.31	60.012	6.04	5.87	2.94	BH AT Curve <-8-1/2">(6017.5)(6087.18744)
6168.00	35.270	142.260	5909.53	-227.14	726.70	1346.39	1650341.19	14314482.84	39°25'08.278"N	80°57'53.491"W	1529.99	61.642	6.25	8.63	1.90	
6216.00	39.410	143.170	5947.69	-199.37	703.54	1364.01	1650358.80	14314459.68	39°25'08.049"N	80°57'53.267"W	1534.76	62.716	8.70	8.63	1.90	
6263.00	43.730	143.820	5982.84	-169.50	678.47	1382.56	1650377.34	14314434.63	39°25'07.801"N	80°57'53.031"W	1540.06	63.861	9.24	9.19	1.38	
6312.00	47.840	143.380	6017.01	-135.85	650.21	1403.40	1650398.17	14314406.38	39°25'07.521"N	80°57'52.765"W	1546.71	65.141	8.41	8.39	-0.90	
6369.00	51.460	143.030	6047.43	-101.60	621.54	1424.85	1650419.61	14314377.71	39°25'07.238"N	80°57'52.492"W	1554.51	66.433	7.72	7.70	-0.74	
6407.00	55.120	143.880	6076.12	-64.75	590.63	1447.75	1650442.51	14314346.81	39°25'06.932"N	80°57'52.200"W	1563.59	67.806	7.76	7.62	1.77	
6454.00	59.140	145.750	6101.62	-26.70	558.36	1470.48	1650465.23	14314314.56	39°25'06.613"N	80°57'51.911"W	1572.92	69.208	9.18	8.56	3.96	Middlesex: 6411 MD

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Actual Wellpath Report

Gauge Unit 3H AWP Proj: 18769
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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #05
Gauge Unit	Gauge Unit 3H
Well	Wellbore
Gauge Unit	Gauge Unit 3H AWB

REFERENCE WELLPATH IDENTIFICATION

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
6502.00	14.03	6125.01	147.340	523.39	1493.57	1650488.31	14314279.61	39.2506.268°N	80°57'51.617"W	1582.63	70.688	7.65	7.08	3.31		
6549.00	65.470	148.650	6145.61	55.32	487.57	1515.96	1650510.69	39.2505.913°N	80°57'51.332"W	1592.43	72.171	6.72	6.23	2.79		
6597.00	68.280	151.740	6164.46	98.79	449.27	1537.88	14314205.52	39.2505.535°N	80°57'51.053"W	1602.16	73.715	8.33	5.85	6.44		
6616.00	69.790	153.294	6171.26	116.37	433.53	1546.07	1650540.79	39.2505.379°N	80°57'50.948"W	1605.70	74.336	7.95	7.95	8.18		
6644.00	72.040	155.530	6180.41	142.69	409.67	1557.49	1650552.20	39.2505.143°N	80°57'50.803"W	1610.47	75.263	11.02	8.03	7.99		
6679.00	74.457	157.559	6190.50	176.14	378.92	1570.83	1650565.53	39.2504.839°N	80°57'50.633"W	1615.88	76.438	8.86	6.91	5.80		fully: 6679° MD
6692.00	75.360	158.300	6193.89	188.68	367.29	1575.54	1650570.25	39.2504.724°N	80°57'50.573"W	1617.79	76.878	8.86	6.94	5.70		
6705.00	76.139	159.115	6197.09	201.27	355.55	1580.12	1650574.82	39.2504.608°N	80°57'50.515"W	1619.63	77.319	8.53	6.00	6.27		Marcellus FOE: 6705° MD
6739.00	78.190	161.220	6204.64	234.42	324.42	1591.36	1650586.06	39.2504.300°N	80°57'50.372"W	1624.08	78.479	8.53	6.03	6.19		
6787.00	80.440	162.480	6213.54	281.56	279.55	1606.05	1650600.74	39.2503.857°N	80°57'50.185"W	1630.20	80.126	5.35	4.69	2.62		
6834.00	84.360	162.500	6219.76	328.10	235.13	1620.06	1650614.75	39.2503.418°N	80°57'50.007"W	1637.04	81.742	8.34	8.34	0.04		
6882.00	86.800	162.870	6223.45	375.91	189.45	1634.31	1650628.99	39.2502.966°N	80°57'49.825"W	1645.25	83.388	5.14	5.08	0.77		
6929.00	88.090	162.860	6225.55	422.81	144.58	1648.14	1650642.82	39.2502.523°N	80°57'49.649"W	1654.47	84.987	2.74	-0.02	-0.50		
6977.00	88.030	162.620	6227.77	470.74	98.77	1662.37	1650667.05	39.2502.070°N	80°57'49.468"W	1665.31	86.600	0.52	-0.13	-0.50		
7022.00	88.490	163.960	6230.06	555.55	7.82	1689.68	1650684.34	39.2501.171°N	80°57'49.121"W	1689.69	89.735	1.49	0.48	1.41		
7167.00	89.570	166.780	6231.67	660.14	-84.07	1713.66	1650708.31	39.2500.263°N	80°57'48.816"W	1715.72	92.809	3.18	1.14	2.97		
7261.00	88.030	164.460	6233.64	753.68	-175.10	1737.00	1650731.64	39.2459.363°N	80°57'48.519"W	1745.80	95.756	2.96	-1.64	-2.47		
7356.00	88.000	161.430	6236.83	848.51	-265.86	1764.84	1650759.47	39.2458.466°N	80°57'48.164"W	1784.76	98.567	3.19	-0.03	-3.19		
7451.00	88.060	159.790	6240.19	943.44	-355.41	1796.36	1650790.98	39.2457.581°N	80°57'47.763"W	1831.18	101.191	1.73	0.06	-1.73		
7451.00	88.060	158.800	6243.41	1038.38	-444.22	1829.93	1650824.54	39.2456.703°N	80°57'47.336"W	1883.08	103.645	1.04	0.00	-1.04		
7642.00	88.150	157.720	6246.58	1134.27	-533.35	1865.47	1650860.06	39.2455.822°N	80°57'46.884"W	1940.21	105.955	1.13	0.09	-1.13		
7736.00	88.030	156.460	6249.72	1228.08	-619.88	1902.04	14313136.80	39.2454.966°N	80°57'46.418"W	2000.50	108.051	1.35	-0.13	-1.34		
7831.00	89.050	157.680	6252.14	1322.90	-707.34	1939.04	1650933.60	39.2454.102°N	80°57'45.947"W	2064.03	110.041	1.67	1.07	1.28		
8021.00	89.290	159.350	6255.09	1512.77	-863.84	2009.30	1651003.84	39.2452.357°N	80°57'45.053"W	2195.10	113.743	1.37	0.25	1.35		
8210.00	89.600	164.060	6258.01	1607.71	-974.01	2039.12	1651033.64	39.2451.466°N	80°57'44.674"W	2259.80	115.532	4.97	0.33	4.96		
8216.00	89.200	168.340	6258.99	1701.16	-1065.27	2061.53	1651056.04	39.2450.564°N	80°57'44.388"W	2320.50	117.327	4.57	-0.43	4.55		
8305.00	88.710	164.930	6258.73	1795.53	-1157.67	2083.48	1651077.99	39.2448.759°N	80°57'44.109"W	2383.51	119.058	3.63	-0.52	-3.59		
8400.00	89.570	158.780	6260.16	1890.43	-1247.69	2113.05	1651107.54	39.2447.894°N	80°57'43.733"W	2454.02	120.564	6.54	0.91	-6.47		
8495.00	89.480	155.300	6260.94	1985.27	-1335.35	2150.10	1651144.58	39.2447.212	80°57'43.261"W	2531.03	121.843	3.66	-0.09	-3.66		

WELLPATH DATA (229 stations) † = Interpolated/extrapolated station

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #05
Well	Gauge Unit 3H
Wellbore	Gauge Unit 3H AWP

REFERENCE WELLPATH IDENTIFICATION

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
8590.00	151.210	6261.91	2079.55	-1420.16	2192.84	14312336.84	392447.056N	805742.717W	2612.55	122.928	4.31	-0.14	-4.31	-0.14	-2.54	-2.54
8685.00	148.800	6262.91	2173.05	-1502.43	2240.33	14312254.60	392446.242N	805742.113W	2697.47	123.847	2.54	0.11	-2.54	0.11	0.42	2.61
8780.00	89.850	6263.49	2266.55	-1584.72	2287.77	14312172.34	392445.429N	805741.509W	2783.03	124.710	2.64	0.42	2.64	0.13	6.07	6.06
8875.00	89.630	6263.92	2360.99	-1670.19	2329.16	14312086.91	392444.584N	805740.982W	2866.09	125.643	6.07	-0.23	6.06	-0.23	1.97	1.97
8969.00	89.630	6264.53	2454.85	-1756.80	2365.69	14312000.34	392443.728N	805740.517W	2946.66	126.598	1.97	0.00	1.97	0.00	0.06	0.06
9064.00	89.690	6265.09	2549.79	-1844.97	2401.04	14311912.20	392443.856N	805740.067W	3028.02	127.539	1.97	0.06	1.97	0.06	0.06	1.97
9159.00	89.630	6265.65	2644.76	-1934.74	2432.08	14311822.47	392441.969N	805739.672W	3107.76	128.503	3.86	-0.06	3.86	-0.06	3.86	3.86
9254.00	89.750	6266.17	2739.56	-2025.97	2458.53	14311731.27	392441.067N	805739.336W	3185.74	129.490	2.26	0.42	2.26	0.42	2.26	2.26
9349.00	89.350	6266.92	2834.24	-2117.69	2483.27	14311639.59	392440.160N	805739.021W	3263.62	130.457	0.42	-0.42	0.01	-0.42	0.01	0.01
9443.00	89.630	6267.75	2927.88	-2208.55	2507.36	14311548.77	392439.262N	805738.714W	3341.34	131.374	0.59	0.30	0.51	0.30	0.51	0.51
9538.00	89.420	6268.54	3022.39	-2300.70	2530.43	14311456.65	392438.351N	805738.421W	3419.98	132.278	1.19	-0.22	1.17	-0.22	1.17	1.17
9633.00	89.420	6269.50	3117.04	-2392.46	2554.97	14311364.93	392437.444N	805738.109W	3500.25	133.119	3.11	0.00	3.11	0.00	3.11	3.11
9728.00	89.380	6270.50	3211.97	-2482.86	2584.10	14311274.56	392436.551N	805737.738W	3583.60	133.855	2.97	-0.04	2.97	-0.04	2.97	2.97
9823.00	89.420	6271.49	3306.96	-2571.98	2617.00	14311185.48	392435.670N	805737.320W	3669.30	134.503	2.08	0.04	2.08	0.04	2.08	2.08
9918.00	89.200	6272.64	3401.90	-2660.26	2652.07	14311097.24	392434.797N	805736.873W	3756.39	135.088	0.90	-0.23	0.87	-0.23	0.87	0.87
10014.00	89.420	6273.79	3497.81	-2749.15	2688.31	14311008.39	392433.918N	805736.412W	3845.11	135.641	0.32	0.23	0.22	0.23	0.22	0.22
10109.00	89.380	6274.79	3592.70	-2836.91	2724.66	14310920.65	392433.051N	805735.950W	3933.43	136.156	0.43	-0.04	0.43	-0.04	0.43	0.43
10204.00	89.380	6275.81	3687.56	-2924.45	2761.56	14310833.16	392432.186N	805735.480W	4022.26	136.641	0.34	0.00	0.34	0.00	0.34	0.34
10299.00	89.230	6276.97	3782.38	-3011.70	2799.12	14310745.94	392431.323N	805735.002W	4111.62	137.095	0.59	-0.16	0.57	-0.16	0.57	0.57
10394.00	88.890	6278.53	3877.20	-3099.01	2836.52	14310658.66	392430.460N	805734.526W	4201.16	137.532	0.87	-0.36	0.79	-0.36	0.79	0.79
10489.00	88.950	6280.32	3972.14	-3187.39	2871.30	14310570.32	392429.586N	805734.083W	4289.97	137.986	2.79	0.06	2.79	0.06	2.79	2.79
10585.00	89.260	6281.82	4068.09	-3278.32	2902.00	14310479.42	392428.687N	805733.693W	4378.24	138.484	3.15	-0.48	3.14	-0.48	3.14	3.14
10680.00	88.800	6283.42	4162.95	-3369.24	2929.50	14310388.54	392427.789N	805733.343W	4464.73	138.994	0.83	0.83	0.67	0.83	0.67	0.67
10775.00	88.830	6285.39	4257.81	-3460.12	2957.11	14310297.70	392426.890N	805732.992W	4551.59	139.482	0.82	0.82	0.82	0.82	0.82	0.82
10870.00	88.980	6287.20	4352.59	-3551.33	2983.57	14310206.52	392425.989N	805732.655W	4638.28	139.965	2.35	0.16	2.35	0.16	2.35	2.35
10965.00	89.140	6288.76	4447.23	-3643.12	3008.03	14310114.77	392425.081N	805732.344W	4724.46	140.454	0.34	0.17	0.29	0.17	0.29	0.29
11061.00	88.960	6290.36	4543.02	-3735.25	3034.91	14310022.67	392424.171N	805732.002W	4812.77	140.906	3.10	-0.20	3.09	-0.20	3.09	3.09
11156.00	89.140	6291.95	4637.67	-3826.89	3059.81	14309931.08	392423.265N	805731.685W	4899.74	141.356	5.37	0.20	5.37	0.20	5.37	5.37
11251.00	89.050	6293.45	4731.76	-3919.82	3079.45	14309838.18	392422.346N	805731.436W	4984.78	141.846	1.51	-0.09	1.51	-0.09	1.51	1.51
11346.00	88.980	6295.08	4826.15	-4012.13	3101.74	14309745.91	392421.434N	805731.152W	5071.29	142.293	4.96	-0.07	4.96	-0.07	4.96	4.96

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Wellbore
Gauge Unit 3H	Gauge Unit 3H AWB
Slot #05	

Actual Wellpath Report
 Gauge Unit 3H AWP Proj: 18769
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MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	DLS	DLS	Build Rate	Turn Rate	Comments
14197.00	89.880	158.850	6324.82	7672.31	-6672.30	4115.00	1653108.68	14307086.80	39°23'55.137"N	80°57'18.261"W	7839.19	148.337	0.88	0.11	0.87	
14102.00	89.780	158.020	6324.54	7577.35	-6583.95	4080.08	1653073.78	14307175.12	39°23'56.011"N	80°57'18.705"W	7745.68	148.213	0.24	0.03	-0.24	
14007.00	89.750	158.250	6324.15	7482.42	-6495.79	4044.70	1653038.41	14307263.25	39°23'56.882"N	80°57'19.155"W	7652.12	148.091	2.17	-0.03	-2.17	
13912.00	89.780	160.310	6323.76	7387.43	-6406.94	4011.09	1653004.82	14307352.06	39°23'57.760"N	80°57'19.583"W	7568.95	147.951	0.75	0.06	0.75	
13817.00	89.720	159.600	6323.34	7292.44	-6317.70	3978.53	1652972.27	14307441.27	39°23'58.643"N	80°57'19.997"W	7466.05	147.800	2.66	0.00	-2.66	
13721.00	89.720	162.150	6322.87	7196.45	-6227.00	3947.08	1652940.83	14307531.93	39°23'59.539"N	80°57'20.397"W	7372.58	147.631	1.40	-0.03	-1.40	
13626.00	89.750	163.480	6322.43	7101.56	-6136.25	3919.01	1652912.78	14307622.65	39°24'00.436"N	80°57'20.754"W	7280.95	147.435	0.13	-0.03	-0.13	
13531.00	89.780	163.600	6322.04	7006.72	-6046.14	3892.09	1652885.87	14307713.72	39°24'01.337"N	80°57'21.096"W	7189.72	147.225	1.56	0.03	1.56	
13436.00	89.750	162.120	6321.66	6911.83	-5954.36	3864.10	1652857.88	14307804.46	39°24'02.234"N	80°57'21.452"W	7098.29	147.018	1.68	-0.23	1.66	
13341.00	89.970	160.540	6321.42	6816.85	-5864.37	3833.69	1652827.49	14307894.42	39°24'03.124"N	80°57'21.839"W	7006.28	146.826	2.14	0.20	2.13	
13246.00	89.780	163.600	6321.04	6721.86	-5775.37	3800.47	1652794.28	14307983.38	39°24'04.004"N	80°57'22.262"W	6913.64	146.653	0.46	0.45	0.05	
13151.00	89.350	158.470	6320.49	6626.91	-5686.99	3765.64	1652759.47	14308071.73	39°24'04.877"N	80°57'22.705"W	6820.69	146.489	0.30	0.13	0.27	
13056.00	89.230	158.210	6319.32	6531.96	-5598.70	3730.58	1652724.42	14308159.98	39°24'05.750"N	80°57'23.151"W	6727.75	146.323	1.02	-0.03	1.02	
12961.00	89.260	157.240	6318.07	6437.06	-5510.80	3694.57	1652688.43	14308247.84	39°24'06.619"N	80°57'23.609"W	6634.66	146.161	0.54	0.13	0.52	
12867.00	89.140	156.750	6316.75	6343.21	-5424.28	3657.84	1652651.71	14308334.32	39°24'07.474"N	80°57'24.076"W	6542.37	146.006	1.85	-0.16	-1.84	
12772.00	89.290	158.500	6315.45	6248.32	-5336.45	3621.68	1652615.57	14308422.12	39°24'08.343"N	80°57'24.537"W	6449.36	145.836	3.13	0.06	-3.13	
12677.00	89.230	161.470	6314.22	6153.34	-5247.20	3589.17	1652583.07	14308511.33	39°24'09.225"N	80°57'24.950"W	6357.30	145.627	0.66	0.06	0.65	
12582.00	89.170	160.850	6312.90	6058.36	-5157.30	3558.50	1652552.41	14308601.20	39°24'10.113"N	80°57'25.340"W	6265.83	145.395	0.37	-0.06	-0.37	
12487.00	89.230	161.200	6311.57	5963.38	-5067.47	3527.61	1652521.53	14308690.99	39°24'11.001"N	80°57'25.733"W	6174.41	145.157	4.84	0.00	-4.84	
12392.00	89.230	165.800	6310.29	5868.58	-4976.42	3500.64	1652494.57	14308782.01	39°24'11.901"N	80°57'26.076"W	6084.34	144.876	1.87	-0.20	1.86	
12297.00	89.420	164.030	6309.17	5773.91	-4884.70	3475.92	1652469.86	14308873.69	39°24'12.808"N	80°57'26.391"W	5995.19	144.665	5.28	0.20	5.27	
12202.00	89.230	159.020	6308.05	5678.97	-4794.63	3445.83	1652439.78	14308963.72	39°24'13.698"N	80°57'27.773"W	5904.42	144.296	1.75	0.13	1.75	
12107.00	89.110	157.360	6306.68	5584.04	-4706.44	3410.54	1652404.50	14309051.87	39°24'14.570"N	80°57'27.223"W	5812.26	144.071	2.58	0.45	2.54	
12012.00	88.680	154.950	6304.85	5489.30	-4619.58	3372.14	1652366.13	14309138.71	39°24'15.429"N	80°57'27.711"W	5719.42	143.872	1.56	-0.52	1.47	
11917.00	89.170	153.550	6303.06	5394.83	-4534.03	3330.88	1652324.88	14309224.22	39°24'16.275"N	80°57'28.236"W	5626.02	143.698	0.60	-0.06	0.60	
11822.00	89.230	152.980	6301.74	5300.53	-4449.19	3288.14	1652282.16	14309309.02	39°24'17.113"N	80°57'28.780"W	5532.38	143.534	0.51	0.00	-0.51	
11727.00	89.230	153.460	6300.46	5206.24	-4364.39	3245.34	1652239.38	14309393.79	39°24'17.952"N	80°57'29.325"W	5438.76	143.366	1.52	0.00	-1.52	
11632.00	89.230	154.900	6299.18	5111.77	-4278.88	3203.97	1652198.02	14309479.26	39°24'18.797"N	80°57'29.851"W	5345.49	143.175	2.65	0.06	-2.65	
11537.00	89.170	157.420	6297.86	5017.02	-4192.00	3165.58	1652159.65	14309566.11	39°24'19.656"N	80°57'30.340"W	5252.98	142.942	2.89	-0.09	-2.89	
11441.00	89.260	160.190	6296.54	4921.07	-4102.52	3130.88	1652124.96	14309655.56	39°24'20.540"N	80°57'30.782"W	5160.72	142.651	4.09	0.29	-4.08	

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Actual Wellpath Report

Gauge Unit 3H AWP Proj: 18769



Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Wellbore
Slot #5	Gauge Unit 3H
Slot #5	Gauge Unit 3H AWB

WELLPATH DATA (229 stations)																		
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Comments							
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(ft)	(ft)								
14292.00	89.820	161.640	6325.07	7767.30	-6761.70	4147.10	1653140.78	14306997.44	39°23'54.263"N	80°57'17.852"W	7932.16	148.478	2.94	-0.06	3.79	0.22	3.78	2.94
14387.00	90.030	165.230	6325.19	7862.13	-6852.75	4174.18	1653167.84	14306906.44	39°23'53.354"N	80°57'17.508"W	8023.96	148.653	3.79	0.22	3.78	0.22	3.78	2.94
14483.00	89.820	165.400	6325.32	7957.75	-6945.61	4198.52	1653192.17	14306813.61	39°23'52.436"N	80°57'17.198"W	8115.98	148.848	3.09	-0.22	3.78	0.22	3.78	2.94
14578.00	89.820	162.460	6325.62	8052.53	-7036.89	4224.81	1653218.45	14306722.37	39°23'51.533"N	80°57'16.864"W	8207.73	149.020	3.09	0.00	-3.05	0.00	-3.05	2.94
14673.00	89.910	161.960	6325.84	8147.47	-7127.34	4253.84	1653247.47	14306631.95	39°23'50.639"N	80°57'16.495"W	8300.25	149.170	0.53	0.09	-0.53	0.09	-0.53	2.94
14768.00	89.880	163.570	6326.01	8242.37	-7218.07	4281.99	1653275.60	14306541.25	39°23'49.742"N	80°57'16.137"W	8392.62	149.322	1.70	-0.03	-1.69	-0.03	-1.69	2.94
14864.00	89.690	163.390	6326.37	8338.21	-7310.11	4309.28	1653302.89	14306449.25	39°23'48.832"N	80°57'15.790"W	8485.73	149.481	0.27	-0.20	-0.19	-0.20	-0.19	2.94
14959.00	89.910	163.070	6326.71	8433.08	-7401.07	4336.69	1653330.29	14306358.33	39°23'47.933"N	80°57'15.441"W	8578.04	149.632	0.41	-0.23	-0.34	-0.23	-0.34	2.94
15054.00	89.880	162.750	6326.88	8527.97	-7491.88	4364.61	1653358.20	14306267.56	39°23'47.036"N	80°57'15.086"W	8670.53	149.776	0.34	-0.03	-0.34	-0.03	-0.34	2.94
15149.00	89.850	162.100	6327.10	8622.89	-7582.44	4393.30	1653386.87	14306177.03	39°23'46.140"N	80°57'14.722"W	8763.24	149.912	0.68	-0.03	-0.68	-0.03	-0.68	2.94
15245.00	89.850	161.660	6327.36	8718.85	-7673.68	4423.15	1653416.71	14306085.83	39°23'45.239"N	80°57'14.342"W	8857.18	150.041	0.46	0.00	-0.46	0.00	-0.46	2.94
15340.00	89.850	161.880	6327.60	8813.81	-7763.91	4452.87	1653446.42	14305995.64	39°23'44.347"N	80°57'13.964"W	8950.22	150.164	0.23	0.00	0.23	0.00	0.23	2.94
15435.00	89.850	159.770	6327.85	8908.80	-7853.63	4484.07	1653477.61	14305905.95	39°23'43.460"N	80°57'13.567"W	9043.59	150.276	2.22	0.00	2.22	0.00	2.22	2.94
15531.00	89.850	158.910	6328.10	9004.79	-7943.46	4517.94	1653511.47	14305816.16	39°23'42.672"N	80°57'13.136"W	9138.40	150.370	0.90	0.00	-0.90	0.00	-0.90	2.94
15626.00	89.880	159.290	6328.33	9099.77	-8032.18	4551.90	1653545.41	14305727.47	39°23'41.695"N	80°57'12.704"W	9232.32	150.459	0.31	0.03	-0.31	0.03	-0.31	2.94
15721.00	89.820	156.700	6328.58	9194.69	-8120.23	4587.56	1653581.06	14305639.46	39°23'40.824"N	80°57'12.251"W	9326.51	150.535	2.63	-0.06	-2.63	-0.06	-2.63	2.94
15816.00	89.820	155.190	6328.88	9289.43	-8206.97	4626.29	1653619.77	14305552.75	39°23'39.967"N	80°57'11.758"W	9421.09	150.590	1.59	0.00	-1.59	0.00	-1.59	2.94
15911.00	89.630	157.610	6329.33	9384.21	-8294.02	4664.32	1653657.78	14305465.74	39°23'39.106"N	80°57'11.274"W	9515.60	150.648	2.56	-0.20	-2.56	-0.20	-2.56	2.94
16006.00	89.820	167.650	6329.79	9479.12	-8381.87	4700.47	1653693.92	14305377.93	39°23'38.238"N	80°57'10.814"W	9609.90	150.717	0.20	0.04	-0.20	0.04	-0.20	2.94
16102.00	90.060	157.390	6329.89	9575.02	-8470.57	4737.18	1653730.61	14305289.26	39°23'37.361"N	80°57'10.347"W	9705.23	150.784	0.37	0.25	-0.27	0.25	-0.27	2.94
16197.00	90.060	156.980	6329.79	9669.89	-8558.14	4774.01	1653767.44	14305201.72	39°23'36.495"N	80°57'09.879"W	9799.64	150.846	0.43	0.00	-0.43	0.00	-0.43	2.94
16292.00	90.090	157.830	6329.66	9764.77	-8645.85	4810.51	1653803.92	14305114.05	39°23'35.628"N	80°57'09.414"W	9894.03	150.909	0.90	0.03	-0.89	0.03	-0.89	2.94
16387.00	90.060	159.650	6329.54	9859.74	-8734.38	4844.96	1653838.35	14305025.56	39°23'34.753"N	80°57'08.976"W	9988.14	150.983	1.92	-0.03	-1.92	-0.03	-1.92	2.94
16482.00	90.060	162.490	6329.44	9954.72	-8824.23	4875.78	1653869.16	14304935.74	39°23'33.865"N	80°57'08.584"W	10081.68	151.077	2.99	0.00	-2.99	0.00	-2.99	2.94
16578.00	90.000	161.960	6329.39	10050.66	-8915.65	4905.08	1653898.45	14304844.36	39°23'32.961"N	80°57'08.211"W	10175.89	151.182	0.56	-0.06	-0.55	-0.06	-0.55	2.94
16673.00	90.030	162.500	6329.36	10145.60	-9006.12	4934.08	1653927.43	14304753.93	39°23'32.067"N	80°57'07.843"W	10269.14	151.283	0.57	0.06	-0.57	0.06	-0.57	2.94
16768.00	90.090	162.900	6329.27	10240.50	-9096.82	4962.33	1653955.67	14304663.26	39°23'31.170"N	80°57'07.484"W	10362.28	151.387	0.43	0.06	-0.42	0.06	-0.42	2.94
16863.00	90.000	162.930	6329.19	10335.40	-9187.63	4990.24	1653983.57	14304572.49	39°23'30.272"N	80°57'07.129"W	10455.36	151.492	0.10	-0.09	0.03	-0.09	0.03	2.94
16958.00	90.120	163.480	6329.09	10430.26	-9278.57	5017.69	1654011.01	14304481.58	39°23'29.373"N	80°57'06.780"W	10548.42	151.596	0.59	0.13	0.58	0.13	0.58	2.94
17053.00	90.090	164.060	6328.92	10525.08	-9369.79	5044.24	1654037.55	14304390.41	39°23'28.472"N	80°57'06.442"W	10641.30	151.704	0.61	-0.03	0.61	-0.03	0.61	2.94

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Gauge Unit 3H AWP Proj: 18769

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #05
Well	Gauge Unit 3H
Wellbore	Gauge Unit 3H AWB

WELLPATH DATA (229 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude (N)	Longitude (W)	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
17149.00	90.060	163.170	6328.79	10620.90	-9461.89	5071.32	1654064.62	14304298.34	39°23'27.56"N	80°57'06.09"W	10735.25	151.810	0.93	-0.03	-0.93	
17243.00	90.310	164.370	6328.49	10714.72	-9552.14	5097.59	1654090.88	14304208.13	39°23'26.66"N	80°57'05.74"W	10827.22	151.913	0.27	0.91	1.28	
17339.00	90.370	163.500	6327.92	10810.51	-9644.39	5124.16	1654117.44	14304115.92	39°23'25.75"N	80°57'05.42"W	10921.13	152.018	0.91	0.06	-0.91	
17434.00	90.430	158.870	6327.25	10905.46	-9734.28	5154.79	1654148.05	14304026.05	39°23'24.86"N	80°57'05.03"W	11014.90	152.097	4.87	0.06	-4.87	
17529.00	90.280	156.550	6326.67	11000.32	-9824.85	5191.58	1654184.83	14303938.52	39°23'24.00"N	80°57'04.56"W	11109.51	152.140	3.50	-0.16	-3.48	
17624.00	90.280	154.470	6326.20	11094.93	-9907.96	5231.71	1654224.95	14303852.45	39°23'23.15"N	80°57'04.05"W	11204.39	152.165	1.14	0.00	-1.14	
17720.00	90.180	154.960	6325.82	11190.49	-9994.76	5272.71	1654265.94	14303765.68	39°23'22.29"N	80°57'03.53"W	11300.30	152.186	0.52	-0.10	0.51	
17815.00	90.310	153.780	6325.41	11285.00	-10080.41	5313.81	1654307.01	14303680.07	39°23'21.44"N	80°57'03.01"W	11395.23	152.204	1.25	0.14	-1.24	
17910.00	90.400	157.260	6324.82	11379.67	-10166.85	5353.17	1654346.35	14303593.66	39°23'20.59"N	80°57'02.51"W	11490.05	152.232	3.66	0.09	3.66	
18006.00	90.340	160.100	6324.20	11475.63	-10256.27	5388.06	1654381.24	14303504.27	39°23'19.70"N	80°57'02.06"W	11585.44	152.285	2.96	-0.06	2.96	
18101.00	90.180	159.270	6323.77	11570.62	-10345.36	5421.05	1654414.21	14303415.22	39°23'18.82"N	80°57'01.65"W	11679.65	152.345	0.89	-0.17	-0.87	
18196.00	90.340	159.660	6323.34	11665.61	-10434.33	5454.37	1654447.52	14303326.30	39°23'17.94"N	80°57'01.22"W	11773.92	152.402	0.44	0.17	0.41	
18291.00	90.180	158.770	6322.91	11760.60	-10523.14	5488.08	1654481.22	14303237.52	39°23'17.07"N	80°57'00.79"W	11868.26	152.457	0.95	-0.17	-0.94	
18386.00	90.220	158.220	6322.58	11855.56	-10611.53	5522.91	1654516.03	14303149.17	39°23'16.19"N	80°57'00.354"W	11962.73	152.505	0.58	0.04	-0.58	
18481.00	90.340	159.990	6322.11	11950.54	-10700.27	5556.79	1654549.89	14303060.45	39°23'15.319"N	80°56'59.923"W	12057.10	152.557	1.87	0.13	1.86	
18575.00	90.250	162.300	6321.63	12044.51	-10789.22	5587.16	1654580.26	14302971.54	39°23'14.440"N	80°56'59.537"W	12150.05	152.623	2.46	-0.10	2.46	
18670.00	90.280	163.660	6321.19	12139.40	-10880.06	5614.97	1654608.05	14302880.74	39°23'13.542"N	80°56'59.183"W	12243.51	152.703	1.43	0.03	1.43	
18769.00	90.310	165.800	6320.81	12238.04	-10951.44	5634.46	1654627.53	14302809.39	39°23'12.836"N	80°56'58.936"W	12315.89	152.774	2.89	0.04	2.89	Projected MD at TD: 18769'

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Actual Wellpath Report

Gauge Unit 3H AWP Proj: 18769



REFERENCE WELLPATH IDENTIFICATION					
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05		
Area	Tyler County, WV	Well	Gauge Unit 3H		
Field	Tyler	Wellbore	Gauge Unit 3H AWP		
Facility	Rush Fork Pad				

HOLE & CASING SECTIONS - Ref Wellbore: Gauge Unit 3H 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	0.00	0.02	-0.21
17.5in Open Hole	105.50	389.50	284.00	105.50	389.50	0.02	-0.21	0.11	-1.15	-1.15
13.375in Casing Surface	25.50	389.50	364.00	25.50	389.50	0.00	0.00	0.11	-1.15	-1.15
12.25in Open Hole	389.50	2640.50	2251.00	389.50	2640.50	0.11	-1.15	293.47	442.46	442.46
9.625in Casing Intermediate	25.50	2640.50	2615.00	25.50	2640.50	0.00	0.00	293.47	442.46	442.46
8.75in Open Hole	2640.50	6089.50	3449.00	2640.50	6089.50	293.47	442.46	760.38	1320.17	1320.17
8.5in Open Hole	6089.50	18769.00	12679.50	6089.50	18769.00	760.38	1320.17	-10975.68	5640.59	5640.59
5.5in Casing Production	25.50	18769.00	18743.50	25.50	18743.50	6320.67	0.00	-10975.68	5640.59	5640.59

TARGETS										
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape		
Gauge Unit 3H - POE - Rev-1	6180.00	406.74	1537.28	1650532.00	14314163.00	39°25'05.114"N	80°57'51.061"W	point		
Gauge Unit 3H - BHL - Rev-2	6214.00	-10993.29	5647.20	1654640.27	14302767.55	39°23'12.423"N	80°56'58.774"W	point		
Gauge Unit 3H - LP - Rev-1	6214.00	210.82	1607.91	1650602.60	14313967.17	39°25'03.178"N	80°57'50.162"W	point		

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Gauge Unit 3H
Field	Tyler	Wellbore	Gauge Unit 3H AWB
Facility	Rush Fork Pad		

WELLPATH COMPOSITION - Ref Wellbore: Gauge Unit 3H AWB			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment
26.50	372.50	Gyrodara standard - Single-shot	01 Gyrodara SS Gyro <17-1/2">(100'-362')
372.50	2564.50	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4">(362'x490'-2554')
2564.50	6017.50	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4">(2554'x2650'-6007')
6017.50	18744.00	BH1 AutoTrak Curve (Short)	04 BH AT Curve <8-1/2">(6017.5'x6087'-18744')
18744.00	18769.00	Blind Drilling (std)	Projection to bit
			Gauge Unit 3H AWB
			Gauge Unit 3H AWB
			Gauge Unit 3H AWB
			Gauge Unit 3H AWB
			Wellbore

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESORCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Gauge Unit 3H
Field	Tyler	Wellbore	Gauge Unit 3H AWP
Facility	Rush Fork Pad		

COMMENTS
Wellpath general comments API: 47-095-02540-0000 BHI Job #: 109757089 Rig: H&P 317 Duration: 04/11/2019-04/13/2019 Gyrodatta SS Gyro <17-1/2">(100'-362') WFT EM <12-1/4">(490'-2554') WFT EM <8-3/4">(2650'-6007') BH AT Curve <8-1/2">(6017.5')(6087'-18744') Middlesex: 6411 MD Burkett: 6616 MD Tully: 6679 MD Marcellus POE: 6705 MD Projected MD at TD: 18769

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