



ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Facility: Vera Pad
 Slot: Slot #05
 Well: Ant Unit 2H
 Wellbore: Ant Unit 2H PWB



Plot reference wellpath is Ant Unit 2H PWP Rev-A 0
 True vertical depths are referenced to Frontier 22 (RKB)
 Measured depths are referenced to Frontier 22 (RKB)
 Frontier 22 (RKB) to Mean Sea Level: -1169.5 feet
 Mean Sea Level to Mud line (At Slot #05): -1145 feet
 Coordinates are in feet referenced to Slot

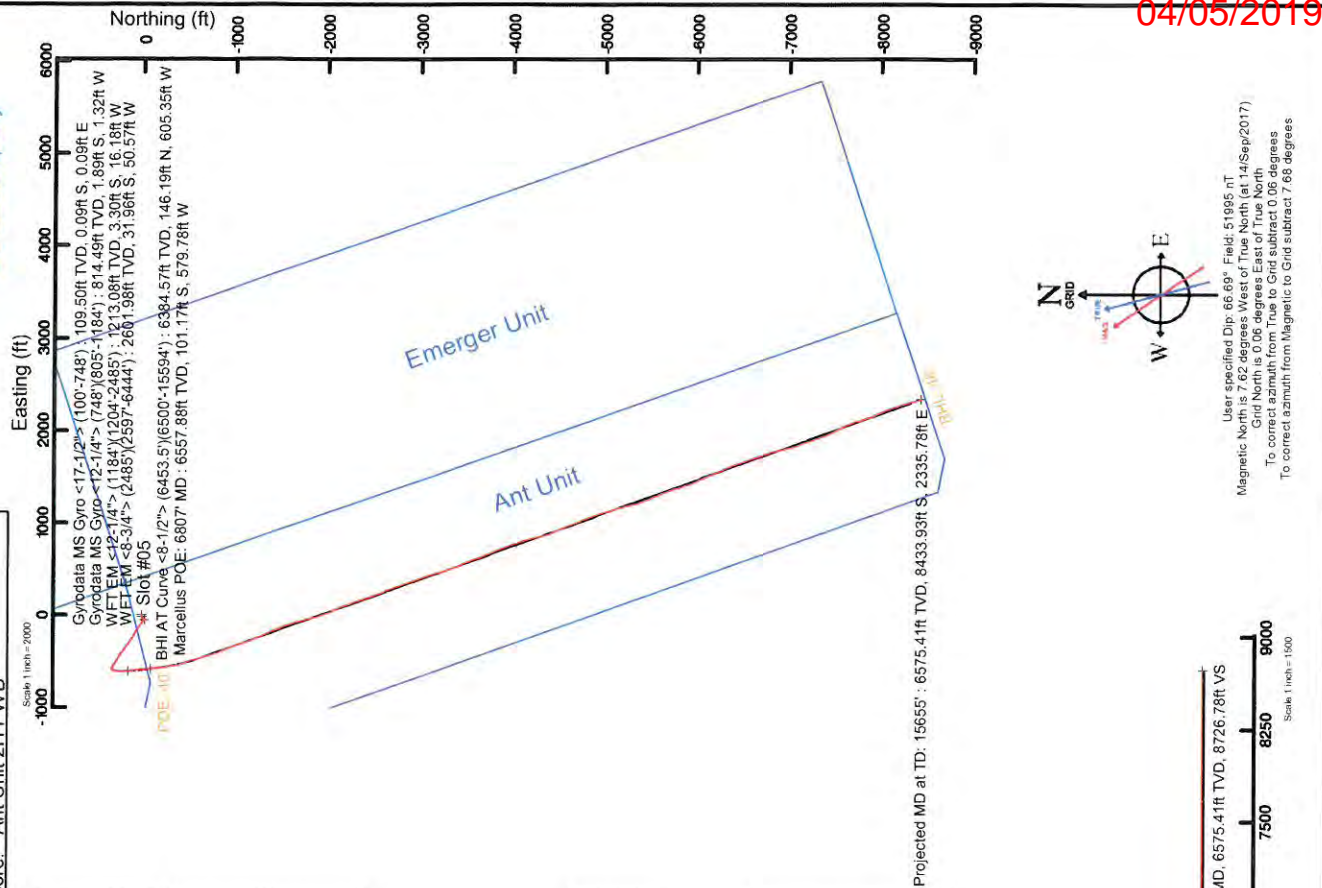
Grid System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid north
Scale	True distance
Depths are in feet	
Created by	delasat on 2017-11-01
Database	WA_MPL_EasternUS_Defn

Location Information			
Facility Name	Grid East (US ft)	Latitude	Longitude
Vera Pad	14316799.487	39°25'31.060"N	80°54'14.600"W
Slot	Local N (ft)	Grid East (US ft)	Longitude
Slot #05	18.21	14316817.685	80°54'14.600"W
Comment	Ant Unit 2H		
Frontier 22 (RKB) to Mud line (At Slot #05)		24.5ft	
Mean Sea Level to Mud line (At Slot #05)		-1145ft	
Frontier 22 (RKB) to Mean Sea Level		1169.5ft	

Slot	Well	Wellbore	Wellpath
Slot #05	Ant Unit 2H	Ant Unit 2H AWB	Ant Unit 2H AWB Proj 15655
Slot #05	Ant Unit 2H	Ant Unit 2H PWB	Ant Unit 2H PWP Rev-A 0

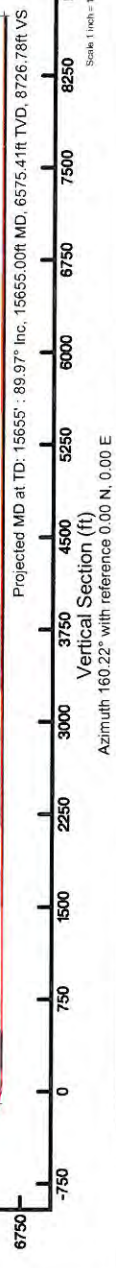
Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6453.50	36.620	177.700	6347.88	-606.83	5.36	-369.75
Proj. To Bottom	6523.50	40.520	177.180	6402.60	-604.88	5.59	-328.07
End of 3D Arc	6680.06	56.876	174.961	6505.59	-596.56	10.50	-215.25
POE	6799.43	70.909	171.750	6588.00	-584.01	12.00	-111.10
Landing Pt	6981.19	90.000	171.750	6588.00	-558.41	10.50	63.71
On Azimuth	7365.39	90.000	160.224	6588.00	-640.67	3.00	445.33
BHL	15632.87	90.000	160.224	6588.00	-8420.54	2331.75	8712.81

API: 47-095-02401-0000
 BHI Job #: 8768154
 Rig: Frontier 22
 Duration: 09/16/2017-09/18/2017



04/05/2019

User specified Dip: 66.69° Field: 51995 nT
 Magnetic North is 7.62 degrees West of True North (at 14Sep2017)
 Grid North is 0.06 degrees East of True North
 To correct azimuth from True to Grid subtract 0.06 degrees
 To correct azimuth from Magnetic to Grid subtract 7.66 degrees





Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Ant Unit 2H
Field	Tyler	Wellbore	Ant Unit 2H AWB
Facility	Vera 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	01/Nov/2017 at 11:02
Convergence at slot	0.06° East	Database/Source file	WA_MPL_EasternUS_Defn/Ant_Unit_2H_AWP_Proj_15655_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	18.21	-6.30	14316817.69	39°25'31.240"N	80°54'14.680"W	
Facility Reference Pt			1667510.60	39°25'31.060"N	80°54'14.600"W	
Field Reference Pt			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	1169.50ft
Vertical Reference Pt	Frontier 22 (RKB)	Frontier 22 (RKB) to Mud Line 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	160.22°



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'
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04/05/2019

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Ant Unit 2H
Field	Tyler	Wellbore	Ant Unit 2H AWB
Facility	Vera Pad		

WELLPATH DATA (189 stations) † = interpolated/extrapolated station																	
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Turn Rate Comments	
0.00†	0.000	136.090	0.00	0.00	0.00	0.00	1667504.30	14316817.68	39°25'31.240"N	80°54'14.680"W	0.00	0.000	0.00	0.00	0.00		
24.50	0.000	136.090	24.50	0.00	0.00	0.00	1667504.30	14316817.68	39°25'31.240"N	80°54'14.680"W	0.00	0.000	0.00	0.00	0.00		
109.50	0.170	136.090	109.50	0.12	-0.09	0.09	1667504.39	14316817.59	39°25'31.239"N	80°54'14.679"W	0.13	136.090	0.20	0.20	160.11	Gyrodata MS Gyro <17-1/2"> (100'-748')	
209.50	0.150	204.490	209.50	0.34	-0.32	0.14	1667504.44	14316817.37	39°25'31.237"N	80°54'14.678"W	0.34	156.758	0.18	-0.02	68.40		
309.50	0.280	231.410	309.50	0.52	-0.59	-0.11	1667504.20	14316817.10	39°25'31.234"N	80°54'14.681"W	0.60	190.511	0.16	0.13	28.14		
409.50	0.290	259.550	409.50	0.55	-0.79	-0.55	1667503.76	14316816.90	39°25'31.232"N	80°54'14.687"W	0.96	214.911	0.14	0.01	28.14		
509.50	0.400	225.150	509.50	0.66	-1.08	-1.05	1667502.26	14316816.61	39°25'31.229"N	80°54'14.693"W	1.50	224.099	0.23	0.11	-34.40		
609.50	0.250	237.560	609.49	0.86	-1.44	-1.48	1667502.83	14316815.92	39°25'31.228"N	80°54'14.693"W	2.06	225.687	0.16	-0.15	12.41		
709.50	0.170	138.950	709.49	1.04	-1.67	-1.56	1667502.74	14316816.01	39°25'31.224"N	80°54'14.700"W	2.29	223.102	0.32	-0.08	-98.61		
757.50	0.200	117.440	757.49	1.17	-1.76	-1.44	1667502.86	14316815.92	39°25'31.223"N	80°54'14.698"W	2.28	219.288	0.16	0.06	-44.81		
814.50	0.180	155.900	814.49	1.33	-1.89	-1.32	1667502.99	14316815.79	39°25'31.221"N	80°54'14.697"W	2.30	214.873	0.22	-0.04	67.47	Gyrodata MS Gyro <12-1/4"> (748')(805'-1184')	
909.50	2.070	269.990	909.49	1.54	-2.25	-1.72	1667502.59	14316815.43	39°25'31.218"N	80°54'14.702"W	2.83	217.320	0.67	0.46	92.56		
1004.50	4.390	260.560	1004.46	1.02	-2.48	-3.90	1667500.41	14316815.21	39°25'31.216"N	80°54'14.730"W	4.62	237.509	1.62	1.53	27.54		
1099.50	3.290	270.490	1099.36	-0.51	-2.46	-8.34	1667495.97	14316815.23	39°25'31.216"N	80°54'14.786"W	8.69	253.575	1.28	1.28	0.53		
1193.50	4.890	259.730	1213.08	-2.37	-3.02	-14.58	1667488.13	14316814.66	39°25'31.210"N	80°54'14.866"W	14.89	258.283	1.36	1.17	-10.56		
1308.50	6.130	254.330	1307.64	-3.40	-5.39	-25.05	1667479.27	14316812.29	39°25'31.187"N	80°54'14.999"W	25.62	257.846	1.41	1.31	-5.68		
1403.50	6.610	246.580	1402.06	-3.42	-8.94	-34.95	1667469.37	14316808.75	39°25'31.152"N	80°54'15.125"W	36.07	255.654	1.04	0.51	-8.16		
1497.50	6.370	232.240	1495.46	-1.46	-14.28	-44.03	1667460.29	14316803.41	39°25'31.099"N	80°54'15.241"W	46.29	252.031	1.74	-0.26	-15.26		
1592.50	5.470	212.630	1589.96	2.93	-21.32	-50.64	1667453.68	14316796.37	39°25'31.030"N	80°54'15.326"W	54.95	247.167	2.32	-0.95	-20.64		
1687.50	4.710	190.760	1684.59	9.05	-28.97	-53.81	1667450.51	14316788.73	39°25'30.954"N	80°54'15.366"W	61.12	241.706	2.18	-0.80	-23.02		
1782.50	3.010	163.400	1779.38	14.90	-35.19	-53.83	1667450.50	14316782.51	39°25'30.893"N	80°54'15.366"W	64.31	236.825	2.59	-1.79	-28.80		
1877.50	2.350	51.850	1874.33	16.78	-36.38	-51.58	1667452.74	14316781.32	39°25'30.881"N	80°54'15.338"W	63.12	234.807	4.68	-0.69	-117.42		
1971.50	4.380	18.510	1968.17	13.35	-31.78	-48.93	1667455.40	14316785.91	39°25'30.926"N	80°54'15.304"W	58.35	236.992	2.91	2.16	-35.47		
2066.50	4.690	333.290	2062.90	6.65	-24.87	-49.52	1667454.80	14316792.82	39°25'30.996"N	80°54'15.311"W	55.42	243.332	3.68	0.33	-47.60		
2160.50	4.690	286.780	2156.62	0.54	-20.33	-54.93	1667449.40	14316797.36	39°25'31.040"N	80°54'15.380"W	58.57	249.691	3.94	0.00	-49.48		
2255.50	2.740	225.560	2251.44	-0.83	-20.80	-60.27	1667444.06	14316796.90	39°25'31.035"N	80°54'15.448"W	63.76	250.962	4.36	-2.05	-64.44		
2349.50	3.020	159.690	2345.35	2.59	-24.69	-61.02	1667443.31	14316793.00	39°25'30.997"N	80°54'15.458"W	65.83	247.967	3.34	0.30	-70.07		
2443.50	2.970	139.540	2439.22	7.34	-28.87	-58.58	1667445.75	14316788.83	39°25'30.955"N	80°54'15.427"W	65.31	243.764	1.12	-0.05	-21.44		
2494.50	2.900	115.440	2490.16	9.49	-30.43	-56.56	1667447.77	14316787.27	39°25'30.940"N	80°54'15.401"W	64.22	241.718	2.41	-0.14	-47.25		



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'

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04/05/2019

REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #05
Operator	ANTERO RESOURCES CORPORATION	Well	Ant Unit 2H
Area	Tyler County, WV	Wellbore	Ant Unit 2H AWB
Field	Tyler		
Facility	Vera Pad		

WELLPATH DATA (189 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dir (ft)	Closure Dist (ft)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
2606.50	3.520	95.320	2601.98	12.96	-31.96	-50.57	1667453.75	14316785.73	39°25'30.925"N	80°54'15.325"W	59.83	237.705	1.14	0.55	-17.96	MFT EM <8.3/4> (2485)(2597-6444)
2701.50	1.410	25.420	2696.91	13.38	-31.18	-47.17	1667457.16	14316786.52	39°25'30.932"N	80°54'15.281"W	56.54	236.534	3.49	-2.22	-73.58	
2795.50	4.210	316.500	2790.80	9.40	-27.63	-49.05	1667455.28	14316790.07	39°25'30.967"N	80°54'15.305"W	56.29	240.605	4.18	2.98	-73.32	
2889.50	6.180	305.390	2884.41	2.09	-22.20	-55.55	1667448.78	14316795.50	39°25'31.021"N	80°54'15.388"W	59.82	248.218	2.34	2.10	-11.82	
2985.50	7.470	304.140	2979.73	-7.20	-15.70	-64.92	1667439.41	14316801.99	39°25'31.085"N	80°54'15.508"W	66.80	256.404	1.35	1.34	-1.30	
3080.50	8.960	305.870	3073.76	-18.30	-7.90	-76.03	1667428.30	14316809.79	39°25'31.163"N	80°54'15.649"W	76.44	264.067	1.59	1.57	1.82	
3175.50	11.820	306.790	3167.19	-32.53	2.26	-89.82	1667414.52	14316819.95	39°25'31.263"N	80°54'15.825"W	89.85	271.443	3.02	3.01	0.97	
3269.50	11.990	307.760	3259.17	-48.80	14.01	-105.25	1667399.10	14316831.69	39°25'31.380"N	80°54'16.021"W	106.18	277.583	0.28	0.18	1.05	
3364.50	11.630	307.070	3352.15	-65.15	25.83	-120.89	1667383.67	14316843.50	39°25'31.497"N	80°54'16.218"W	123.42	282.079	0.41	-0.38	-0.75	
3458.50	11.130	305.810	3444.31	-80.56	36.85	-135.61	1667368.75	14316854.52	39°25'31.606"N	80°54'16.408"W	140.52	285.202	0.59	-0.53	-1.34	
3553.50	12.140	304.450	3537.35	-96.23	47.86	-151.28	1667353.09	14316865.53	39°25'31.715"N	80°54'16.607"W	158.67	287.557	1.10	1.06	-1.43	
3648.50	12.150	301.440	3630.23	-112.13	58.73	-168.05	1667336.33	14316876.39	39°25'31.822"N	80°54'16.821"W	178.01	289.264	0.67	0.01	-3.17	
3743.50	11.310	298.570	3723.24	-126.89	68.40	-184.76	1667319.62	14316886.06	39°25'31.918"N	80°54'17.033"W	197.01	290.315	1.08	-0.88	-3.02	
3838.50	11.740	300.500	3816.33	-141.28	77.76	-201.27	1667303.12	14316895.41	39°25'32.011"N	80°54'17.244"W	215.77	291.124	0.61	0.45	2.03	
3932.50	12.570	302.680	3908.22	-156.75	88.14	-218.12	1667286.28	14316905.79	39°25'32.113"N	80°54'17.458"W	235.25	292.003	1.01	0.88	2.32	
4027.50	11.940	302.110	4001.06	-172.68	98.94	-235.14	1667269.26	14316916.59	39°25'32.220"N	80°54'17.675"W	255.11	292.820	0.68	-0.66	-0.60	
4122.50	10.960	299.630	4094.16	-187.27	108.63	-251.32	1667253.09	14316926.27	39°25'32.316"N	80°54'17.881"W	273.79	293.376	1.15	-1.03	-2.61	
4216.50	11.860	304.090	4186.31	-201.86	118.46	-267.08	1667237.33	14316936.10	39°25'32.414"N	80°54'18.082"W	292.18	293.919	1.34	0.96	4.74	
4311.50	11.420	305.120	4279.35	-217.44	129.35	-282.86	1667221.56	14316946.98	39°25'32.521"N	80°54'18.283"W	311.03	294.573	0.51	-0.46	1.08	
4405.50	10.590	302.620	4371.63	-231.89	139.36	-297.75	1667206.68	14316956.98	39°25'32.620"N	80°54'18.472"W	328.75	295.081	1.02	-0.88	-2.66	
4499.50	11.620	304.880	4463.86	-246.46	149.43	-312.79	1667191.64	14316967.05	39°25'32.720"N	80°54'18.664"W	346.65	295.535	1.19	1.10	2.40	
4594.50	12.600	306.510	4556.75	-262.88	161.06	-328.97	1667175.47	14316978.68	39°25'32.835"N	80°54'18.870"W	366.28	296.086	1.09	1.03	1.72	
4688.50	12.460	307.450	4648.51	-279.94	173.33	-345.26	1667159.19	14316990.94	39°25'32.957"N	80°54'19.077"W	386.32	296.658	0.26	-0.15	1.00	
4782.50	11.910	306.510	4740.39	-296.54	185.27	-361.10	1667143.34	14317002.88	39°25'33.075"N	80°54'19.279"W	405.86	297.160	0.62	-0.59	-1.00	
4877.50	12.040	306.520	4833.33	-312.93	196.99	-376.95	1667127.51	14317014.60	39°25'33.191"N	80°54'19.481"W	425.32	297.592	0.14	0.14	0.01	
4972.50	11.710	306.470	4926.29	-329.19	208.62	-392.66	1667111.80	14317026.22	39°25'33.306"N	80°54'19.681"W	444.64	297.982	0.35	-0.35	-0.05	
5066.50	11.440	304.370	5018.38	-344.88	219.55	-408.03	1667096.44	14317037.15	39°25'33.414"N	80°54'19.877"W	463.35	298.284	0.53	-0.29	-2.23	
5161.50	11.220	305.110	5111.53	-359.88	230.19	-423.36	1667081.11	14317047.78	39°25'33.519"N	80°54'20.072"W	481.90	298.533	0.28	-0.23	0.78	
5255.50	12.410	301.810	5203.54	-373.27	240.77	-439.43	1667065.05	14317058.36	39°25'33.624"N	80°54'20.277"W	501.07	298.719	1.46	1.27	-3.51	
5350.50	13.360	301.890	5296.14	-391.88	251.95	-457.42	1667047.06	14317069.54	39°25'33.735"N	80°54'20.506"W	522.22	298.846	1.00	1.00	0.08	



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Ant Unit 2H
Field	Tyler	Wellbore	Ant Unit 2H AWB
Facility	Vera Pad		

WELLPATH DATA (189 stations) † = interpolated/extrapolated station

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	ft	°	°	ft	°	ft/100ft	ft/100ft	ft/100ft	
5444.50	13.630	301.520	5387.55	-409.05	263.48	-476.09	1667028.41	14317081.06	39°25'33.849"N	80°54'20.743"W	544.13	298.961	0.30	0.29	-0.39	
5539.50	13.050	299.940	5479.99	-429.96	274.68	-494.92	1667009.58	14317092.26	39°25'33.960"N	80°54'20.983"W	566.04	299.030	0.72	-0.61	-1.66	
5634.50	12.500	303.230	5572.63	-442.36	285.67	-512.82	1666991.69	14317103.24	39°25'34.069"N	80°54'21.211"W	587.02	299.121	0.96	-0.58	3.46	
5729.50	10.930	304.690	5665.85	-457.90	296.43	-528.82	1666975.69	14317114.00	39°25'34.175"N	80°54'21.415"W	606.24	299.273	1.68	-1.65	1.54	
5823.50	11.350	306.040	5757.88	-472.81	306.95	-543.63	1666960.89	14317124.51	39°25'34.279"N	80°54'21.603"W	624.30	299.450	0.53	0.45	1.44	
5918.50	12.180	303.880	5850.89	-488.61	318.03	-559.51	1666945.02	14317135.59	39°25'34.389"N	80°54'21.806"W	643.58	299.614	0.99	0.87	-2.27	
5949.50	11.830	298.570	5881.21	-493.55	321.28	-565.07	1666939.46	14317138.63	39°25'34.421"N	80°54'21.876"W	650.02	299.621	5.03	-1.13	-23.58	
6012.50	10.440	279.630	5943.04	-500.53	324.55	-576.63	1666927.91	14317142.10	39°25'34.454"N	80°54'22.024"W	661.69	299.372	7.45	-2.00	-38.58	
6043.50	9.900	254.640	5973.56	-501.86	324.02	-582.00	1666922.54	14317141.57	39°25'34.448"N	80°54'22.092"W	666.12	299.106	10.90	-1.74	-61.26	
6075.50	10.900	232.880	6005.04	-501.17	321.46	-587.07	1666917.47	14317139.02	39°25'34.423"N	80°54'22.157"W	689.32	298.704	12.58	3.13	-68.00	
6106.50	12.370	214.050	6035.42	-498.33	316.94	-591.27	1666913.28	14317134.50	39°25'34.379"N	80°54'22.210"W	670.86	298.193	13.06	4.74	-60.74	
6138.50	14.950	203.010	6066.51	-493.28	310.30	-594.80	1666909.74	14317127.86	39°25'34.313"N	80°54'22.255"W	670.88	297.551	11.43	8.06	-34.50	
6169.50	16.970	196.770	6096.32	-486.71	302.29	-597.67	1666906.88	14317119.85	39°25'34.234"N	80°54'22.292"W	669.77	296.829	8.54	6.52	-20.13	
6201.50	18.730	193.110	6126.78	-478.64	292.81	-600.18	1666904.36	14317110.38	39°25'34.140"N	80°54'22.324"W	667.80	296.006	6.52	5.50	-11.44	
6232.50	21.320	191.660	6155.90	-469.85	282.44	-602.45	1666902.10	14317100.01	39°25'34.038"N	80°54'22.353"W	665.37	295.118	8.51	8.35	-4.68	
6264.50	23.940	189.480	6185.44	-458.97	270.32	-604.58	1666899.96	14317087.90	39°25'33.918"N	80°54'22.381"W	662.26	294.090	9.03	8.19	-9.94	
6295.50	26.080	185.900	6213.53	-447.29	257.32	-606.21	1666898.34	14317074.90	39°25'33.790"N	80°54'22.402"W	658.56	293.000	7.75	6.90	-8.32	
6327.50	28.240	183.510	6242.00	-433.99	242.76	-607.40	1666897.15	14317060.35	39°25'33.646"N	80°54'22.417"W	654.12	291.786	7.56	6.75	-7.47	
6358.50	30.480	180.610	6269.02	-419.88	227.58	-607.93	1666896.62	14317045.17	39°25'33.498"N	80°54'22.424"W	649.13	290.523	8.56	7.23	-9.35	
6390.50	33.040	178.890	6296.23	-404.01	210.74	-607.85	1666896.70	14317028.34	39°25'33.329"N	80°54'22.423"W	643.34	289.121	8.48	8.00	-5.38	
6421.50	34.970	178.510	6321.92	-387.56	193.41	-607.45	1666897.09	14317011.01	39°25'33.158"N	80°54'22.418"W	637.50	287.661	6.28	6.23	-1.23	
6453.50	36.620	177.700	6347.88	-369.75	174.70	-606.83	1666897.72	14316992.32	39°25'32.973"N	80°54'22.411"W	631.48	286.061	5.36	5.16	-2.53	
6500.00	39.160	176.390	6384.57	-342.42	146.19	-605.35	1666899.20	14316963.81	39°25'32.691"N	80°54'22.392"W	622.75	283.576	5.73	5.46	-2.82	BHI AT Curve <8-1/2"> (6453.5)-(6500'-15594')
6532.00†	42.484	175.398	6408.79	-322.29	125.33	-603.85	1666900.70	14316942.97	39°25'32.485"N	80°54'22.373"W	616.72	281.726	10.49	10.30	-3.10	Middlesex: 6532' MD
6583.00	47.720	174.050	6444.79	-287.33	89.38	-600.51	1666904.04	14316907.03	39°25'32.130"N	80°54'22.331"W	607.12	278.466	10.49	10.32	-2.64	
6630.00	53.160	173.650	6474.71	-252.13	53.37	-596.62	1666907.92	14316871.03	39°25'31.774"N	80°54'22.282"W	599.01	275.112	11.59	11.57	-0.85	
6675.00†	57.388	173.349	6500.34	-216.14	16.63	-592.44	1666912.11	14316834.31	39°25'31.411"N	80°54'22.229"W	592.67	271.608	9.41	9.40	-0.67	Burkett: 6675' MD
6678.00	57.670	173.330	6501.96	-213.67	14.12	-592.14	1666912.40	14316831.80	39°25'31.386"N	80°54'22.226"W	592.31	271.366	9.41	9.40	-0.63	
6725.00	62.840	174.090	6525.26	-174.01	-26.43	-587.68	1666916.86	14316781.27	39°25'30.985"N	80°54'22.169"W	588.27	267.425	11.09	11.00	1.62	



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'
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04/05/2019

REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #05
Operator	ANTERO RESOURCES CORPORATION	Well	Ant Unit 2H
Area	Tyler County, WV	Wellbore	Ant Unit 2H AWB
Field	Tyler		
Facility	Vera Pad		

WELLPATH DATA (189 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
6731.00	63.350	174.084	6527.97	-168.81	-31.75	-587.13	1666917.41	14316785.95	39°25'30.932"N	80°54'22.162"W	587.99	266.905	8.50	8.50	-0.11	Tully: 6731' MD
6773.00	66.920	174.040	6545.63	-131.82	-89.65	-583.19	1666921.35	14316748.07	39°25'30.558"N	80°54'22.113"W	587.33	263.190	8.50	8.50	-0.10	
6807.00	70.841	173.631	6557.88	-101.00	-101.17	-579.78	1666924.76	14316716.55	39°25'30.246"N	80°54'22.070"W	588.54	260.101	11.59	11.53	-1.20	Marcellus POE: 6807' MD
6820.00	72.340	173.480	6561.99	-89.00	-113.43	-578.39	1666926.14	14316704.30	39°25'30.125"N	80°54'22.052"W	589.41	258.904	11.59	11.53	-1.16	
6868.00	77.060	174.000	6574.65	-43.99	-159.44	-573.35	1666931.18	14316668.31	39°25'29.670"N	80°54'21.988"W	595.11	254.460	9.89	9.83	-1.08	
6915.00	82.970	173.290	6582.79	1.01	-205.42	-568.22	1666936.31	14316612.35	39°25'29.216"N	80°54'21.924"W	604.21	250.124	12.66	12.57	-1.53	
6963.00	88.340	173.430	6586.43	47.60	-252.95	-562.69	1666941.84	14316564.94	39°25'28.746"N	80°54'21.854"W	616.93	245.795	11.19	11.19	0.31	
7058.00	90.310	169.640	6587.55	140.73	-346.88	-548.71	1666955.82	14316470.94	39°25'27.817"N	80°54'21.677"W	649.16	237.700	4.50	2.07	-3.99	
7152.00	90.650	164.200	6586.76	234.05	-438.41	-527.44	1666977.08	14316379.46	39°25'26.913"N	80°54'21.407"W	685.85	230.267	5.80	0.36	-5.79	
7247.00	90.430	161.140	6585.87	328.95	-529.08	-499.15	1667005.36	14316288.82	39°25'26.016"N	80°54'21.048"W	727.37	223.333	3.23	-0.23	-3.22	
7342.00	89.080	162.210	6586.27	423.91	-619.28	-469.28	1667035.21	14316198.68	39°25'25.124"N	80°54'20.668"W	776.98	217.155	1.81	-1.42	1.13	
7437.00	89.420	164.360	6587.52	518.76	-710.23	-441.96	1667062.52	14316107.74	39°25'24.225"N	80°54'20.321"W	836.51	211.893	2.29	0.36	2.26	
7532.00	89.600	160.340	6588.33	613.67	-800.73	-413.16	1667091.31	14316017.27	39°25'23.330"N	80°54'19.956"W	901.04	207.293	4.24	0.19	-4.23	
7627.00	89.510	157.780	6589.07	708.64	-889.45	-379.22	1667125.24	14315928.59	39°25'22.453"N	80°54'19.524"W	966.92	203.091	2.70	-0.09	-2.69	
7722.00	89.050	158.970	6590.26	803.58	-977.76	-344.21	1667160.23	14315840.32	39°25'21.580"N	80°54'19.079"W	1036.57	199.394	1.34	-0.48	1.25	
7817.00	90.280	162.980	6590.82	898.55	-1067.54	-313.25	1667191.18	14315750.57	39°25'20.692"N	80°54'18.666"W	1112.55	196.353	4.42	1.29	4.22	
7913.00	90.800	162.210	6589.91	994.46	-1159.14	-284.53	1667219.89	14315659.01	39°25'19.787"N	80°54'18.321"W	1193.56	193.792	0.97	0.54	-0.80	
8008.00	90.090	156.610	6589.17	1089.41	-1248.04	-251.14	1667253.27	14315570.15	39°25'18.908"N	80°54'17.897"W	1273.05	191.378	5.94	-0.75	-5.89	
8102.00	90.090	155.500	6589.02	1183.16	-1333.95	-212.99	1667291.40	14315484.27	39°25'18.058"N	80°54'17.412"W	1350.84	189.072	1.18	0.00	-1.18	
8197.00	90.400	156.500	6588.62	1277.90	-1420.73	-174.35	1667330.03	14315397.52	39°25'17.200"N	80°54'16.921"W	1431.39	186.996	1.10	0.33	1.05	
8291.00	90.340	157.690	6588.01	1371.76	-1507.31	-137.77	1667366.59	14315310.97	39°25'16.344"N	80°54'16.456"W	1513.60	185.222	1.27	-0.06	1.27	
8384.00	90.370	160.720	6587.43	1464.73	-1594.24	-104.75	1667399.59	14315224.08	39°25'15.484"N	80°54'16.036"W	1597.68	183.759	3.26	0.03	3.26	
8480.00	90.400	163.280	6586.79	1560.68	-1685.54	-75.09	1667429.24	14315132.82	39°25'14.582"N	80°54'15.660"W	1687.21	182.551	2.67	0.03	2.67	
8575.00	90.460	164.750	6586.08	1655.46	-1776.86	-48.93	1667455.39	14315041.54	39°25'13.679"N	80°54'15.328"W	1777.53	181.577	1.55	0.06	1.55	
8670.00	90.800	166.180	6585.03	1750.06	-1868.81	-25.09	1667479.23	14314949.63	39°25'12.770"N	80°54'15.025"W	1868.98	180.769	1.55	0.36	1.51	
8765.00	90.520	161.900	6583.94	1844.82	-1960.12	1.02	1667505.33	14314858.35	39°25'11.867"N	80°54'14.694"W	1960.12	179.970	4.51	-0.29	-4.51	
8860.00	90.220	155.260	6583.32	1939.72	-2048.51	35.70	1667539.99	14314770.00	39°25'10.993"N	80°54'14.253"W	2048.82	179.002	7.00	-0.32	-6.99	
8955.00	90.220	156.040	6582.96	2034.42	-2135.05	74.87	1667579.14	14314683.49	39°25'10.137"N	80°54'13.755"W	2136.37	177.992	0.82	0.00	0.82	
9049.00	90.400	160.570	6582.45	2128.34	-2222.37	109.61	1667613.87	14314596.20	39°25'09.274"N	80°54'13.314"W	2225.07	177.176	4.82	0.19	4.82	
9143.00	90.340	162.010	6581.84	2222.32	-2311.40	139.76	1667644.01	14314507.21	39°25'08.394"N	80°54'12.931"W	2315.62	176.540	1.53	-0.06	1.53	



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Vera Pad
Slot	Slot #05
Well	Ant Unit 2H
Wellbore	Ant Unit 2H AWB

WELLPATH DATA (189 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
9238.00	90.280	159.340	6581.33	2317.31	-2401.04	171.19	1667675.43	14314417.61	39°25'07.508"N	80°54'12.531"W	2407.13	175.922	2.81	-0.06	-2.81	
9332.00	90.180	159.160	6580.95	2411.29	-2488.94	204.50	1667708.72	14314329.74	39°25'06.638"N	80°54'12.108"W	2497.33	175.303	0.22	-0.11	-0.19	
9427.00	90.180	159.470	6580.65	2506.28	-2577.82	238.05	1667742.26	14314240.90	39°25'05.760"N	80°54'11.682"W	2588.78	174.724	0.33	0.00	0.33	
9522.00	90.220	158.240	6580.32	2601.25	-2666.42	272.32	1667776.52	14314152.34	39°25'04.884"N	80°54'11.246"W	2680.29	174.169	1.30	0.04	-1.29	
9617.00	90.150	158.970	6580.01	2696.21	-2754.87	306.98	1667811.16	14314063.92	39°25'04.009"N	80°54'10.806"W	2771.92	173.642	0.77	-0.07	0.77	
9712.00	90.090	161.550	6579.82	2791.20	-2844.28	339.06	1667843.23	14313974.55	39°25'03.125"N	80°54'10.398"W	2864.42	173.202	2.72	-0.06	2.72	
9807.00	90.220	160.890	6579.56	2886.19	-2934.22	369.64	1667873.80	14313884.64	39°25'02.236"N	80°54'10.010"W	2957.41	172.820	0.71	0.14	-0.69	
9903.00	90.000	160.150	6579.37	2982.19	-3024.72	401.66	1667905.50	14313794.17	39°25'01.341"N	80°54'09.603"W	3051.28	172.436	0.80	-0.23	-0.77	
9998.00	90.090	160.880	6579.30	3077.19	-3114.28	433.34	1667937.48	14313704.65	39°25'00.455"N	80°54'09.201"W	3144.29	172.078	0.77	0.09	0.77	
10093.00	90.950	164.820	6578.44	3172.06	-3205.04	461.35	1667965.47	14313613.93	39°24'59.558"N	80°54'08.845"W	3238.07	171.809	4.24	0.91	4.15	
10188.00	90.490	161.890	6577.24	3266.90	-3296.04	488.56	1667992.67	14313522.97	39°24'58.658"N	80°54'08.500"W	3332.05	171.569	3.12	-0.48	-3.08	
10283.00	90.150	158.490	6576.71	3361.89	-3385.40	520.75	1668024.84	14313433.64	39°24'57.775"N	80°54'08.091"W	3425.22	171.255	3.60	-0.36	-3.58	
10378.00	90.400	157.400	6576.26	3456.81	-3473.45	556.42	1668060.50	14313345.63	39°24'56.904"N	80°54'07.637"W	3517.73	170.899	1.18	0.26	-1.15	
10472.00	90.090	159.210	6575.85	3550.75	-3560.78	591.17	1668095.23	14313258.33	39°24'56.041"N	80°54'07.196"W	3609.52	170.574	1.95	-0.33	1.93	
10567.00	90.180	159.970	6575.63	3645.74	-3649.82	624.30	1668128.35	14313169.33	39°24'55.160"N	80°54'06.775"W	3702.83	170.294	0.81	0.09	0.80	
10661.00	90.150	157.790	6575.36	3739.71	-3737.50	658.16	1668162.20	14313081.68	39°24'54.293"N	80°54'06.345"W	3795.01	170.013	2.32	-0.03	-2.32	
10755.00	90.090	157.030	6575.16	3833.60	-3824.29	694.27	1668198.30	14312994.93	39°24'53.435"N	80°54'05.986"W	3886.80	169.710	0.81	-0.06	-0.81	
10850.00	89.880	158.250	6575.19	3928.50	-3912.14	730.41	1668234.42	14312907.11	39°24'52.567"N	80°54'05.627"W	3979.74	169.424	1.30	-0.22	1.28	
10945.00	90.060	160.950	6575.24	4023.49	-4001.16	763.52	1668267.52	14312818.11	39°24'51.686"N	80°54'05.006"W	4073.37	169.136	2.85	0.19	2.84	
11039.00	90.180	162.150	6575.04	4117.46	-4090.34	793.27	1668297.26	14312728.88	39°24'50.805"N	80°54'04.628"W	4166.56	169.024	1.28	0.13	1.28	
11135.00	90.120	164.580	6574.79	4213.31	-4182.32	820.75	1668324.73	14312637.04	39°24'49.895"N	80°54'04.279"W	4262.09	168.897	2.53	-0.06	2.53	
11229.00	90.150	166.860	6574.57	4306.87	-4273.41	843.94	1668347.90	14312545.99	39°24'48.995"N	80°54'03.985"W	4355.94	168.829	2.43	0.03	2.43	
11324.00	90.830	161.720	6573.75	4401.59	-4364.82	869.65	1668373.60	14312454.61	39°24'48.091"N	80°54'03.659"W	4450.62	168.732	5.46	0.72	-5.41	
11419.00	90.310	157.110	6572.81	4496.55	-4453.73	903.04	1668406.98	14312365.74	39°24'47.212"N	80°54'03.235"W	4544.36	168.538	4.88	-0.55	-4.85	
11513.00	89.570	158.320	6572.91	4590.46	-4540.71	938.69	1668442.61	14312278.80	39°24'46.352"N	80°54'02.782"W	4636.72	168.320	1.51	-0.79	1.29	
11608.00	90.060	159.930	6573.21	4685.44	-4629.47	972.54	1668476.45	14312190.08	39°24'45.474"N	80°54'02.352"W	4730.52	168.136	1.77	0.52	1.69	
11703.00	89.820	156.180	6573.31	4780.35	-4717.57	1008.03	1668511.93	14312102.01	39°24'44.603"N	80°54'01.901"W	4824.06	167.939	3.96	-0.25	-3.95	
11797.00	89.570	156.460	6573.81	4874.13	-4803.65	1045.78	1668549.67	14312015.96	39°24'43.752"N	80°54'01.421"W	4916.17	167.718	0.40	-0.27	0.30	
11892.00	89.940	162.860	6574.22	4969.08	-4892.68	1078.79	1668582.66	14311926.97	39°24'42.872"N	80°54'01.002"W	5010.20	167.566	6.75	0.39	6.74	
11987.00	90.000	163.670	6574.27	5063.94	-4983.66	1106.14	1668610.00	14311836.03	39°24'41.972"N	80°54'00.655"W	5104.94	167.486	0.85	0.06	0.85	



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Vera Pad
Slot	Slot #05
Well	Ant Unit 2H
Wellbore	Ant Unit 2H AWB

WELLPATH DATA (189 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
12081.00	89.880	162.440	6574.37	5157.83	-5073.57	1133.54	1668637.39	14311746.15	39°24'41.083"N	80°54'00.307"W	5198.66	167.406	1.31	-0.13	-1.31	
12175.00	90.430	165.030	6574.11	5251.64	-5163.80	1159.86	1668863.70	14311655.95	39°24'40.191"N	80°53'59.973"W	5292.46	167.341	2.82	0.59	2.76	
12270.00	90.120	165.730	6573.66	5346.26	-5255.73	1183.84	1668687.67	14311566.07	39°24'39.282"N	80°53'59.668"W	5387.40	167.306	0.81	-0.33	0.74	
12365.00	90.490	164.210	6573.15	5440.92	-5347.47	1208.48	1668712.30	14311472.36	39°24'38.375"N	80°53'59.356"W	5482.32	167.266	1.65	0.39	-1.60	
12459.00	91.450	158.800	6571.56	5534.85	-5436.57	1238.28	1668742.09	14311383.30	39°24'37.494"N	80°53'58.977"W	5575.81	167.169	5.84	1.02	-5.76	
12553.00	89.320	155.450	6570.93	5628.69	-5523.16	1274.81	1668778.60	14311296.74	39°24'36.638"N	80°53'58.513"W	5668.37	167.003	4.22	-2.27	-3.56	
12648.00	89.690	159.270	6571.75	5723.55	-5610.82	1311.37	1668815.15	14311209.12	39°24'35.771"N	80°53'58.049"W	5762.03	166.845	4.04	0.39	4.02	
12743.00	89.970	160.890	6572.03	5818.55	-5700.13	1343.74	1668847.50	14311119.84	39°24'34.888"N	80°53'57.247"W	5856.37	166.735	1.73	0.29	1.71	
12838.00	89.910	161.330	6572.13	5913.54	-5790.01	1374.49	1668878.25	14311029.99	39°24'34.000"N	80°53'57.247"W	5950.92	166.646	0.47	-0.06	0.46	
12932.00	90.090	163.120	6572.13	6007.48	-5879.52	1403.19	1668906.93	14310940.52	39°24'33.115"N	80°53'56.883"W	6044.64	166.577	1.91	0.19	1.90	
13027.00	90.280	158.530	6571.82	6102.45	-5969.23	1434.38	1668938.11	14310850.85	39°24'32.228"N	80°53'56.487"W	6139.15	166.488	4.84	0.20	-4.83	
13122.00	89.880	154.780	6571.69	6197.24	-6056.43	1472.02	1668975.74	14310763.68	39°24'31.365"N	80°53'56.008"W	6232.76	166.339	3.97	-0.42	-3.95	
13217.00	90.030	156.240	6571.77	6291.92	-6142.88	1511.40	1669015.10	14310677.26	39°24'30.510"N	80°53'55.508"W	6326.09	166.177	1.54	0.16	1.54	
13313.00	89.970	157.690	6571.77	6387.76	-6231.23	1548.97	1669052.65	14310588.96	39°24'29.637"N	80°53'55.031"W	6420.86	166.040	1.51	-0.06	1.51	
13408.00	89.880	157.550	6571.89	6482.67	-6319.07	1585.14	1669088.81	14310501.15	39°24'28.768"N	80°53'54.571"W	6514.85	165.918	0.18	-0.09	-0.15	
13502.00	89.820	158.490	6572.14	6576.60	-6406.24	1620.32	1669123.97	14310414.02	39°24'27.906"N	80°53'54.124"W	6607.97	165.806	1.00	-0.06	1.00	
13597.00	89.880	161.910	6572.39	6671.58	-6495.61	1652.49	1669156.14	14310324.68	39°24'27.023"N	80°53'53.715"W	6702.51	165.727	3.60	0.06	3.60	
13692.00	90.000	161.940	6572.48	6766.54	-6585.92	1681.97	1669185.60	14310234.41	39°24'26.130"N	80°53'53.341"W	6797.31	165.674	0.13	0.13	0.03	
13787.00	89.850	159.570	6572.61	6861.53	-6675.61	1713.28	1669216.90	14310144.76	39°24'25.243"N	80°53'52.944"W	6891.95	165.606	2.50	-0.16	-2.49	
13882.00	89.910	160.940	6572.81	6956.55	-6765.02	1745.37	1669248.98	14310055.38	39°24'24.359"N	80°53'52.538"W	6986.54	165.533	1.44	0.06	1.44	
13978.00	89.720	164.650	6573.12	7052.41	-6856.01	1773.76	1669277.36	14309963.73	39°24'23.453"N	80°53'52.176"W	7082.42	165.496	3.87	-0.20	3.86	
14074.00	89.970	166.820	6573.38	7147.96	-6949.74	1797.42	1669301.00	14309870.73	39°24'22.533"N	80°53'51.876"W	7178.41	165.499	2.28	0.26	2.26	
14168.00	90.060	162.940	6573.35	7241.63	-7040.47	1821.93	1669325.51	14309780.04	39°24'21.636"N	80°53'51.565"W	7272.39	165.491	4.13	0.10	-4.13	
14263.00	89.910	159.540	6573.38	7336.60	-7130.41	1852.48	1669356.04	14309690.14	39°24'20.746"N	80°53'51.177"W	7367.12	165.437	3.58	-0.16	-3.58	
14358.00	89.880	161.110	6573.55	7431.60	-7219.86	1884.48	1669388.01	14309600.72	39°24'19.862"N	80°53'50.771"W	7461.74	165.372	1.65	-0.03	1.65	
14454.00	89.910	161.340	6573.73	7527.58	-7310.75	1915.36	1669418.90	14309509.87	39°24'18.963"N	80°53'50.378"W	7557.49	165.319	0.24	0.03	0.24	
14550.00	90.180	157.990	6573.65	7623.57	-7400.75	1948.72	1669452.24	14309419.90	39°24'18.073"N	80°53'49.955"W	7653.02	165.248	3.50	0.28	-3.49	
14644.00	89.910	153.200	6573.58	7717.23	-7486.33	1987.55	1669491.05	14309334.36	39°24'17.227"N	80°53'49.461"W	7745.67	165.132	5.10	-0.29	-5.10	
14739.00	89.880	154.550	6573.75	7811.65	-7571.62	2029.38	1669532.87	14309249.10	39°24'16.384"N	80°53'48.930"W	7838.87	164.996	1.42	-0.03	1.42	
14834.00	89.850	159.990	6573.98	7906.48	-7659.21	2066.07	1669569.54	14309161.55	39°24'15.518"N	80°53'48.463"W	7932.98	164.904	5.73	-0.03	5.73	



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #05
ANTERO RESOURCES CORPORATION	Well	Ant Unit 2H
Tyler County, WV	Wellbore	Ant Unit 2H AWB
Tyler		
Vera Pad		

WELLPATH DATA (189 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
14928.00	89.850	162.070	6574.22	8000.47	-7748.10	2096.62	1669600.09	14309072.69	39°24'14.639"N	80°53'48.076"W	8026.76	164.858	2.21	0.00	2.21	
15023.00	90.090	161.600	6574.27	8095.43	-7838.37	2126.24	1669629.69	14309982.46	39°24'13.746"N	80°53'47.700"W	8121.63	164.823	0.56	0.25	-0.49	
15119.00	90.000	156.960	6574.20	8191.39	-7928.13	2160.20	1669663.63	14308892.73	39°24'12.859"N	80°53'47.268"W	8217.16	164.758	4.83	-0.09	-4.83	
15214.00	89.820	156.720	6574.35	8286.23	-8015.48	2197.56	1669700.98	14308805.42	39°24'11.995"N	80°53'46.794"W	8311.26	164.668	0.32	-0.19	-0.25	
15309.00	89.780	159.780	6574.68	8381.16	-8103.70	2232.76	1669736.17	14308717.23	39°24'11.123"N	80°53'46.346"W	8405.66	164.596	3.22	-0.04	3.22	
15404.00	89.820	162.380	6575.01	8476.14	-8193.56	2263.56	1669766.96	14308627.41	39°24'10.234"N	80°53'45.955"W	8500.48	164.557	2.74	0.04	2.74	
15499.00	89.880	164.210	6575.26	8571.00	-8284.55	2290.86	1669794.25	14308536.46	39°24'09.335"N	80°53'45.609"W	8595.45	164.543	1.93	0.06	1.93	
15594.00	89.970	162.850	6575.38	8665.84	-8375.65	2317.80	1669821.17	14308445.40	39°24'08.434"N	80°53'45.267"W	8690.43	164.532	1.43	0.09	-1.43	
15655.00	89.970	162.850	6575.41	8726.78	-8433.93	2335.78	1669839.15	14308387.13	39°24'07.858"N	80°53'45.039"W	8751.41	164.520	0.00	0.00	0.00	Projected MD at TD: 15665'

HOLE & CASING SECTIONS - Ref Wellbore: Ant Unit 2H AWB Ref Wellpath: Ant Unit 2H AWP Proj: 15655'

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	-0.08	0.08
17.5in Open Hole	104.50	771.70	667.20	104.50	771.69	-0.08	0.08	-1.79	-1.40
13.375in Casing Surface	24.50	771.70	747.20	24.50	771.69	0.00	0.00	-1.79	-1.40
12.25in Open Hole	771.70	2576.60	1804.90	771.69	2572.14	-1.79	-1.40	-31.73	-52.34
9.625in Casing Intermediate	24.50	2576.60	2552.10	24.50	2572.14	0.00	0.00	-31.73	-52.34
8.75in Open Hole	2576.60	6523.50	3946.90	2572.14	6402.48	-31.73	-52.34	131.00	-604.29
8.5in Open Hole	6523.50	15655.00	9131.50	6402.48	6575.41	131.00	-604.29	-8433.93	2335.78
5.5in Casing Production	24.50	15655.00	15630.50	24.50	6575.41	0.00	0.00	-8433.93	2335.78



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #05
ANTERO RESOURCES CORPORATION	Well	Ant Unit 2H
Area	Wellbore	Ant Unit 2H AWB
Field		
Facility		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Ant Unit 2H POE Rev-3	6588.00	-91.96	-584.01	1666920.53	14316725.76	39°25'30.337"N	80°54'22.123"W	point
Ant Unit 2H BHL Rev-3	6588.00	-8420.54	2331.75	1669835.12	14308400.52	39°24'07.990"N	80°53'45.090"W	point
Ant Unit 2H LP Rev-3	6588.00	-268.52	-558.41	1666946.12	14316549.27	39°25'28.592"N	80°54'21.799"W	point

WELLPATH COMPOSITION - Ref Wellbore: Ant Unit 2H AWB Ref Wellpath: Ant Unit 2H AWP Proj: 15655'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	757.50	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <17-1/2">(100'-748')	Ant Unit 2H AWB
757.50	1193.50	Gyrodata standard - Drop gyro or Multi-shot	02_Gyrodata MS Gyro <12-1/4">(748')(805'-1184')	Ant Unit 2H AWB
1193.50	2494.50	ISCWSA MWD, Rev. 4 (Standard)	03_WFT EM <12-1/4">(1184')(1204'-2485')	Ant Unit 2H AWB
2494.50	6453.50	ISCWSA MWD, Rev. 4 (Standard)	04_WFT EM <8-3/4">(2485')(2597'-6444')	Ant Unit 2H AWB
6453.50	15594.00	BHI AutoTrak Curve (Short)	05_BHI AT Curve <8-1/2">(6453.50')(6500'-15594')	Ant Unit 2H AWB
15594.00	15655.00	Blind Drilling (std)	Projection to bit	Ant Unit 2H AWB

04/05/2019



Actual Wellpath Report

Ant Unit 2H AWP Proj: 15655'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Ant Unit 2H
Field	Tyler	Wellbore	Ant Unit 2H AWB
Facility	Vera Pad		

COMMENTS

Wellpath general comments

API: 47-095-02401-0000
 BHI Job #: 8768154
 Rig: Frontier 22
 Duration: 09/16/2017-09/18/2017
 Gyrodatta MS Gyro <17-1/2"> (100'-748')
 Gyrodatta MS Gyro <12-1/4"> (748')(805'-1184')
 WFT EM <12-1/4"> (1184')(1204'-2485')
 WFT EM <8-3/4"> (2485')(2597'-6444')
 BHI AT Curve <8-1/2"> (6453.5')(6500'-15594')
 Middlesex: 6532 MD
 Burkett: 6675 MD
 Tully: 6731 MD
 Marcellus POE: 6807 MD
 Projected MD at TD: 15655'