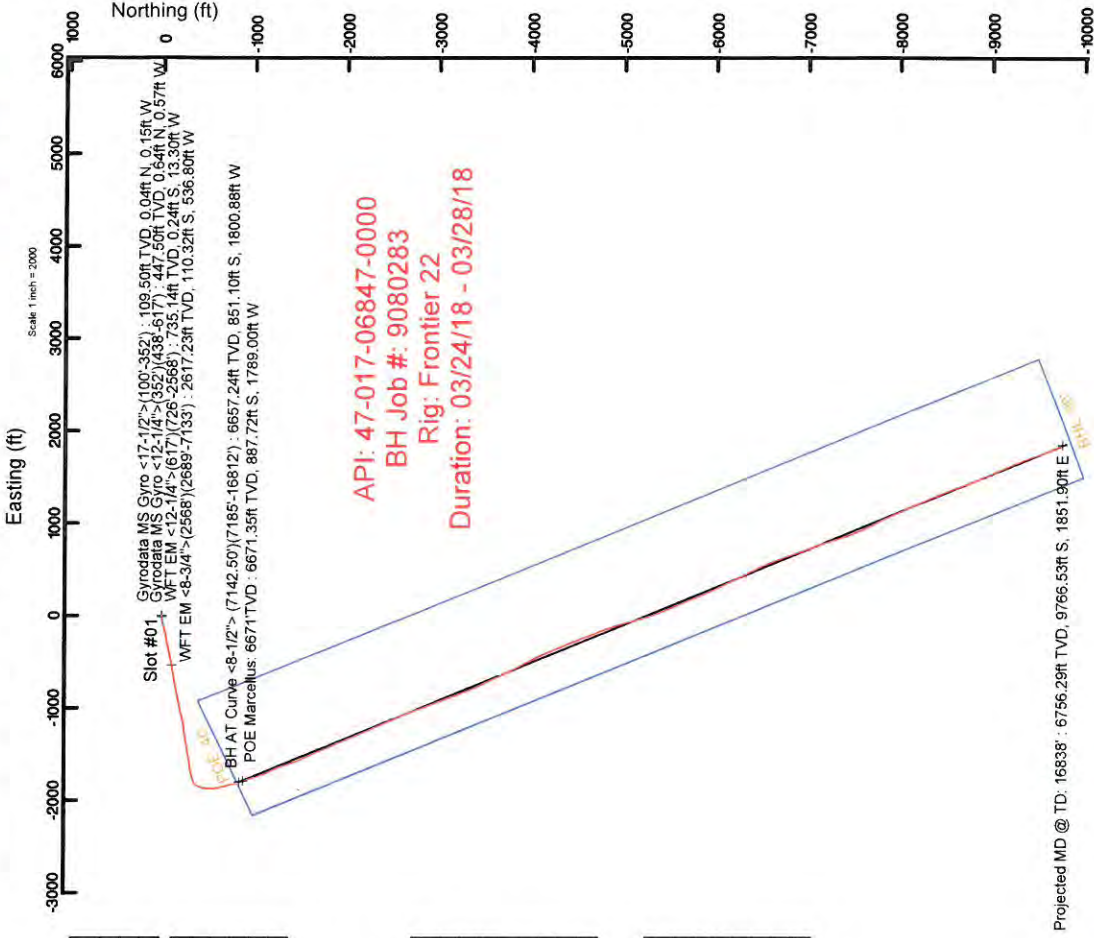




ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Strickling Pad

Slot: Slot #01
 Well: Buffett Unit 1H
 Wellbore: Buffett Unit 1H PWB



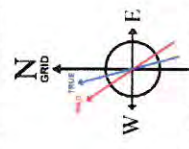
API: 47-017-06847-0000
 BH Job #: 9080283
 Rig: Frontier 22
 Duration: 03/24/18 - 03/28/18

Well Data	
Slot	Well
Slot #01	Buffett Unit 1H
Wellbore	Buffett Unit 1H PWB
Wellpath	Buffett Unit 1H AMP Pm, 16838
Slot #01	Buffett Unit 1H AWB
Wellbore	Buffett Unit 1H PWB
Wellpath	Buffett Unit 1H PWB Rev-A.0
Plot reference wellpath is Buffett Unit 1H PWB Rev-A.0 True vertical depths are referenced to Frontier 22 (RKB) Grid System: NAD27 UTM Zone 17 North, US feet North Reference: Grid north Scale: True distance Measured depths are referenced to Frontier 22 (RKB) Frontier 22 (RKB) to Mean Sea Level: 1089.5 feet Mean Sea Level to Ground level (At Slot: Slot #01): -1065 feet Coordinates are in feet referenced to Slot Database: WA_MPL_EASTERNUS_Dbth	

Gyrodatta MS Gyro <17-1/2'> (100-352) : 0.21° Inc, 109.50ft MD, 109.50ft TVD, -0.09ft VS
 Gyrodatta MS Gyro <12-1/4'> (352)(438-617) : 0.50° Inc, 447.50ft MD, 447.50ft TVD, -0.81ft VS
 WFT EM <12-1/4'> (617)(726-2568) : 4.86° Inc, 735.50ft MD, 735.14ft TVD, 4.81ft VS

Location Information			
Facility Name	Grid East (US ft)	Latitude	Longitude
Strickling Pad	1701583.170	39°19'55.890"N	80°47'01.270"W
Slot	Grid East (US ft)	Latitude	Longitude
Slot #01	-13.37	39°19'55.760"N	80°47'02.400"W
Comment	1701494.447	14282346.689	
Frontier 22 (RKB) to Ground level (At Slot: Slot #01)		24.5ft	
Mean Sea Level to Ground level (At Slot: Slot #01)		-1065ft	
Frontier 22 (RKB) to Mean Sea Level		1089.5ft	

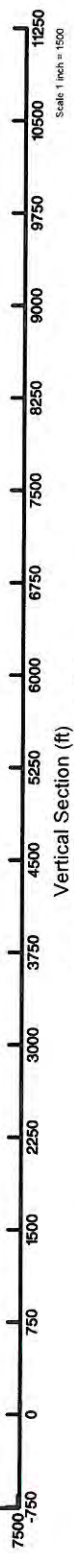
Well Profile Data					
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	VS (ft)
Tile On	7142.50	64.240	162.160	6640.31	-814.04
Proj. To Bottom	7214.50	72.390	158.020	6666.90	-876.85
Landing Pt.	7516.83	90.000	158.020	6713.00	-1152.81
End of 30 Arc	7589.28	90.000	156.573	6713.00	-1219.64
On Azimuth	7648.34	90.000	157.755	6713.00	-1274.08
BHL	16862.69	90.000	157.755	6713.00	-9802.60
				1860.50	0.00
				9777.53	



User specified Dip: 66.57° Field: 52060 nT
 Magnetic North is 7.68 degrees West of True North (at 3/22/2018)
 Grid North is 0.14 degrees West of True North
 To correct azimuth from True to Grid subtract 0.14 degrees
 To correct azimuth from Magnetic to Grid subtract 7.79 degrees

BH AT Curve <8-1/2'> (7142.50)(7185-16812) : 68.81° Inc, 7185.00ft MD, 6657.24ft TVD, 106.18ft VS
 POE Marcellus: 6671.1ft TVD, 70.92° Inc, 7226.00ft MD, 6671.35ft TVD, 144.56ft VS
 Projected MD @ TD: 16838 : 91.45° Inc, 16838.00ft MD, 6756.29ft TVD, 9740.88ft VS

02/15/2019



Vertical Section (ft)
 Azimuth 157.76° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Buffett Unit 1H
Field	Doddridge	Wellbore	Buffett Unit 1H AWB
Facility	Strickling Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 5.1
North Reference	Grid	User	Mccrerib
Scale	0.999604	Report Generated	5/15/2018 at 1:34:51 PM
Convergence at slot	0.14° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Buffer Unit_1H_AWP_Proj_16838_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-13.37	-88.76	1701494.45	14282946.70	39°19'55.760"N	80°47'02.400"W
Facility Reference Pt			1701583.17	14282960.06	39°19'55.890"N	80°47'01.270"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature		24.50ft
Horizontal Reference Pt	Slot	Frontier 22 (RKB) to Facility Vertical Datum	1089.50ft
Vertical Reference Pt	Frontier 22 (RKB)	Frontier 22 (RKB) to Mean Sea Level	24.50ft
MD Reference Pt	Frontier 22 (RKB)	Frontier 22 (RKB) to Ground Level at Slot (Slot #01)	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Origin	157.76°
		Section Azimuth	

02/15/2019



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #01
Operator	ANTERO RESOURCES CORPORATION	Well	Buffett Unit 1H
Area	Doddridge Co., WV	Wellbore	Buffett Unit 1H AWB
Field	Doddridge		
Facility	Strickling Pad		

WELLPATH DATA (214 stations) † = interpolated/extrapolated station																
MD Inclin (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
0.00H	0.000	285.200	0.00	0.00	0.00	0.00	1701494.45	14282946.70	39°19'55.760"N	80°47'02.400"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	285.200	24.50	0.00	0.00	0.00	1701494.45	14282946.70	39°19'55.760"N	80°47'02.400"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.210	285.200	109.50	-0.09	0.04	-0.15	1701494.30	14282946.74	39°19'55.760"N	80°47'02.402"W	0.16	285.200	0.25	0.25	-88.00	Gyrodatta MS Gyro <17-1/2">(100-352)
134.50	0.150	95.660	134.50	-0.11	0.05	-0.16	1701494.28	14282946.75	39°19'55.760"N	80°47'02.402"W	0.17	287.035	1.44	-0.24	681.84	
159.50	0.170	17.740	159.50	-0.12	0.08	-0.12	1701494.33	14282946.78	39°19'55.761"N	80°47'02.402"W	0.14	304.682	0.81	0.08	-311.68	
184.50	0.030	233.500	184.50	-0.15	0.11	-0.11	1701494.33	14282946.81	39°19'55.761"N	80°47'02.401"W	0.16	315.278	0.78	-0.56	-576.96	
209.50	0.060	59.150	209.50	-0.15	0.12	-0.11	1701494.36	14282946.81	39°19'55.761"N	80°47'02.401"W	0.16	317.550	0.36	0.12	-697.40	
234.50	0.100	8.610	234.50	-0.17	0.14	-0.09	1701494.36	14282946.84	39°19'55.761"N	80°47'02.401"W	0.17	327.591	0.31	0.16	-202.16	
259.50	0.110	321.770	259.50	-0.21	0.18	-0.10	1701494.34	14282946.88	39°19'55.762"N	80°47'02.401"W	0.21	330.811	0.34	0.04	-187.36	
284.50	0.130	326.750	284.50	-0.26	0.23	-0.13	1701494.31	14282946.93	39°19'55.762"N	80°47'02.402"W	0.26	329.555	0.09	0.08	19.92	
309.50	0.110	326.230	309.50	-0.31	0.27	-0.16	1701494.28	14282946.97	39°19'55.763"N	80°47'02.402"W	0.32	329.051	0.08	-0.08	-2.08	
334.50	0.090	341.110	334.50	-0.36	0.31	-0.18	1701494.26	14282947.01	39°19'55.763"N	80°47'02.402"W	0.36	329.517	0.13	-0.08	59.52	
359.50	0.120	311.210	359.50	-0.40	0.35	-0.21	1701494.24	14282947.04	39°19'55.763"N	80°47'02.403"W	0.40	328.909	0.25	0.12	-119.60	
361.50	0.130	327.460	361.50	-0.40	0.35	-0.21	1701494.24	14282947.05	39°19'55.763"N	80°47'02.403"W	0.41	328.811	1.83	0.50	812.50	
447.50	0.500	304.650	447.50	-0.81	0.64	-0.57	1701493.87	14282947.34	39°19'55.766"N	80°47'02.407"W	0.86	318.387	0.45	0.43	-26.52	Gyrodatta MS Gyro <12-1/4">(352)(438-617)
536.50	1.650	277.580	536.48	-1.78	1.03	-2.16	1701492.29	14282947.73	39°19'55.770"N	80°47'02.427"W	2.40	295.561	1.38	1.29	-30.42	
626.50	3.090	264.980	626.40	-3.14	0.99	-5.86	1701488.59	14282947.69	39°19'55.770"N	80°47'02.475"W	5.95	279.610	1.69	1.60	-14.00	
735.50	4.860	257.760	735.14	-4.81	-0.24	-13.30	1701481.15	14282946.46	39°19'55.758"N	80°47'02.569"W	13.30	268.952	1.68	1.62	-6.62	WFT EM <12-1/4">(617)(726-2568)
825.50	5.920	258.690	824.74	-6.35	-1.96	-21.58	1701472.88	14282944.74	39°19'55.741"N	80°47'02.675"W	21.67	264.805	1.18	1.18	1.03	
920.50	7.480	258.660	919.09	-8.45	-4.14	-32.45	1701462.01	14282942.56	39°19'55.720"N	80°47'02.813"W	32.71	262.731	1.64	1.64	-0.03	
1014.50	9.060	259.050	1012.11	-11.06	-6.75	-45.71	1701448.75	14282939.95	39°19'55.694"N	80°47'02.982"W	46.21	261.603	1.68	1.68	0.41	
1109.50	11.150	258.970	1105.63	-14.31	-9.93	-62.07	1701432.40	14282936.78	39°19'55.663"N	80°47'03.190"W	62.86	260.915	2.20	2.20	-0.08	
1204.50	12.720	257.870	1198.57	-17.93	-13.88	-81.32	1701413.16	14282932.82	39°19'55.625"N	80°47'03.435"W	82.49	260.312	1.67	1.65	-1.16	
1299.50	14.800	256.140	1290.84	-21.53	-18.99	-103.33	1701391.16	14282927.72	39°19'55.575"N	80°47'03.716"W	105.06	259.588	2.23	2.19	-1.82	
1394.50	16.440	255.030	1382.33	-25.00	-25.37	-128.09	1701366.40	14282921.34	39°19'55.512"N	80°47'04.031"W	130.58	258.789	1.75	1.73	-1.17	
1488.50	17.440	255.370	1472.25	-28.55	-32.36	-154.57	1701339.93	14282914.35	39°19'55.444"N	80°47'04.368"W	157.93	258.176	1.07	1.06	0.36	
1583.50	19.450	256.930	1562.36	-32.96	-39.53	-183.76	1701310.76	14282907.18	39°19'55.374"N	80°47'04.740"W	187.96	257.859	2.18	2.12	1.64	
1677.50	20.200	260.350	1650.79	-38.99	-45.79	-215.00	1701279.53	14282900.92	39°19'55.312"N	80°47'05.138"W	219.83	257.976	1.47	0.80	3.64	
1771.50	20.490	261.090	1738.93	-46.32	-51.06	-247.26	1701247.29	14282895.66	39°19'55.261"N	80°47'05.548"W	252.48	258.332	0.41	0.31	0.79	
1866.50	20.630	259.930	1827.88	-53.68	-56.56	-280.16	1701214.40	14282890.16	39°19'55.208"N	80°47'05.967"W	285.82	258.586	0.45	0.15	-1.22	



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Buffett Unit 1H
Field	Doddridge	Wellbore	Buffett Unit 1H AWB
Facility	Strickling Pad		

WELLPATH DATA (214 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (JUS ft)	Grid North (JUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
1960.50	19.450	257.120	1916.19	-59.72	-62.95	-311.72	1701182.85	14282883.78	39°19'55.145"N	80°47'06.369"W	318.02	258.584	1.62	-1.26	-2.99	
2054.50	18.910	255.030	2004.97	-64.19	-70.37	-341.70	1701152.89	14282876.36	39°19'55.073"N	80°47'06.751"W	348.87	258.363	0.93	-0.57	-2.22	
2149.50	20.330	257.750	2094.46	-69.00	-77.85	-372.70	1701121.90	14282868.88	39°19'54.999"N	80°47'07.145"W	380.74	258.202	1.78	1.49	2.86	
2244.50	19.180	261.530	2183.87	-75.58	-83.65	-404.26	1701090.35	14282863.08	39°19'54.943"N	80°47'07.547"W	412.83	258.309	1.81	-1.21	3.98	
2338.50	17.380	259.800	2273.12	-82.19	-88.41	-433.36	1701061.26	14282858.32	39°19'54.896"N	80°47'07.918"W	442.28	258.469	2.00	-1.91	-1.84	
2433.50	17.090	256.410	2363.86	-87.24	-94.20	-460.89	1701033.74	14282852.53	39°19'54.840"N	80°47'08.268"W	470.42	258.448	1.10	-0.31	-3.57	
2527.50	17.620	256.850	2453.58	-91.57	-100.69	-488.17	1701006.47	14282846.05	39°19'54.776"N	80°47'08.616"W	498.44	258.346	0.58	0.56	0.47	
2627.50	16.920	257.760	2501.32	-94.03	-103.95	-502.65	1700992.00	14282842.79	39°19'54.744"N	80°47'08.800"W	513.28	258.316	1.10	-1.40	1.82	
2698.50	16.460	261.170	2617.23	-101.06	-110.32	-536.80	1700957.86	14282836.43	39°19'54.682"N	80°47'09.235"W	548.01	258.387	0.89	-0.38	2.82	MFT EM <8-3/4">(2568)(2689-7133)
2792.50	17.960	260.530	2707.02	-107.35	-114.74	-564.25	1700930.42	14282832.00	39°19'54.639"N	80°47'09.584"W	575.80	258.505	1.61	1.60	-0.68	
2887.50	19.620	260.410	2796.95	-114.08	-119.81	-594.43	1700900.26	14282826.94	39°19'54.590"N	80°47'09.968"W	606.38	258.604	1.75	1.75	-0.13	
2982.50	21.790	260.770	2885.81	-121.55	-125.30	-627.56	1700867.13	14282821.45	39°19'54.536"N	80°47'10.390"W	639.95	258.709	2.29	2.28	0.38	
3076.50	22.320	260.210	2972.93	-129.32	-131.13	-662.37	1700832.34	14282815.62	39°19'54.480"N	80°47'10.833"W	675.23	258.802	0.61	0.56	-0.60	
3171.50	22.520	260.100	3060.75	-137.10	-137.33	-698.07	1700796.65	14282809.43	39°19'54.419"N	80°47'11.288"W	711.45	258.871	0.22	0.21	-0.12	
3265.50	22.440	260.270	3147.61	-144.83	-143.45	-733.49	1700761.25	14282803.30	39°19'54.359"N	80°47'11.739"W	747.38	258.934	0.11	-0.09	0.18	
3360.50	21.950	259.150	3235.57	-152.27	-149.86	-768.80	1700725.96	14282796.90	39°19'54.297"N	80°47'12.188"W	783.27	258.970	0.68	-0.52	-1.18	
3455.50	21.600	257.370	3323.79	-158.69	-157.03	-803.30	1700691.47	14282789.74	39°19'54.227"N	80°47'12.628"W	818.50	258.940	0.79	-0.37	-1.87	
3555.50	21.210	255.820	3416.89	-164.30	-165.48	-838.80	1700655.98	14282781.28	39°19'54.144"N	80°47'13.080"W	854.96	258.840	0.69	-0.39	-1.55	
3649.50	21.460	259.380	3504.46	-170.15	-172.82	-872.19	1700622.61	14282773.95	39°19'54.072"N	80°47'13.505"W	889.14	258.792	1.40	0.27	3.79	
3744.50	22.030	259.090	3592.69	-177.15	-179.39	-906.76	1700588.05	14282767.38	39°19'54.008"N	80°47'13.945"W	924.34	258.809	0.61	0.60	-0.31	
3839.50	22.340	258.010	3680.66	-183.86	-186.51	-941.92	1700552.90	14282760.26	39°19'53.939"N	80°47'14.393"W	960.21	258.799	0.54	0.33	-1.14	
3933.50	21.720	259.300	3767.90	-190.52	-193.45	-976.48	1700518.35	14282753.32	39°19'53.871"N	80°47'14.833"W	995.46	258.794	0.84	-0.66	1.37	
4028.50	21.360	258.160	3856.16	-197.16	-200.27	-1010.69	1700484.16	14282746.51	39°19'53.804"N	80°47'15.268"W	1030.34	258.792	0.58	-0.38	-1.20	
4122.50	21.020	255.920	3943.81	-202.65	-207.88	-1043.80	1700451.07	14282738.90	39°19'53.730"N	80°47'15.690"W	1064.30	258.736	0.93	-0.36	-2.38	
4216.50	20.810	253.800	4031.92	-206.80	-216.64	-1076.16	1700418.69	14282730.14	39°19'53.644"N	80°47'16.102"W	1097.77	258.618	0.84	-0.22	-2.26	
4311.50	19.440	254.670	4120.92	-210.47	-225.53	-1107.64	1700387.25	14282721.26	39°19'53.557"N	80°47'16.503"W	1130.36	258.491	1.48	-1.44	0.92	
4405.50	19.270	259.040	4209.51	-215.39	-232.62	-1137.95	1700356.95	14282714.18	39°19'53.488"N	80°47'16.889"W	1161.48	258.447	1.55	-0.18	4.65	
4500.50	18.980	258.510	4299.26	-221.34	-238.67	-1168.48	1700326.43	14282708.12	39°19'53.428"N	80°47'17.277"W	1192.61	258.456	0.36	-0.31	-0.56	
4594.50	19.410	263.600	4388.04	-228.45	-243.46	-1198.99	1700295.94	14282703.94	39°19'53.382"N	80°47'17.666"W	1223.45	258.522	1.84	0.46	5.41	
4689.50	20.710	264.490	4477.28	-237.60	-246.83	-1231.39	1700263.54	14282699.97	39°19'53.349"N	80°47'18.078"W	1255.89	258.665	1.41	1.37	0.94	



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Buffett Unit 1H
Field	Doddridge	Wellbore	Buffett Unit 1H AWB
Facility	Strickling Pad		

WELLPATH DATA (214 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
4783.50	22.510	262.590	4564.67	-246.99	-250.75	-1265.79	1700229.17	14282696.05	39°19'53.311"N	80°47'18.516"W	1290.38	258.795	2.05	1.91	-2.02	
4878.50	22.900	261.160	4652.31	-255.93	-255.93	-1302.08	1700192.88	14282690.87	39°19'53.281"N	80°47'18.978"W	1327.00	258.880	0.71	0.41	-1.51	
4972.50	22.500	259.530	4739.03	-263.83	-262.01	-1337.84	1700157.14	14282684.79	39°19'53.202"N	80°47'19.433"W	1363.26	258.919	0.79	-0.43	-1.73	
5066.50	22.030	257.840	4826.02	-270.59	-269.00	-1372.76	1700122.23	14282677.81	39°19'53.133"N	80°47'19.878"W	1398.87	258.913	0.84	-0.50	-1.80	
5161.50	21.420	261.520	4914.28	-277.83	-275.31	-1407.34	1700087.31	14282671.50	39°19'53.072"N	80°47'20.318"W	1434.01	258.931	1.57	-0.64	3.87	
5255.50	21.390	261.610	5001.79	-286.02	-280.34	-1441.27	1700053.75	14282666.47	39°19'53.023"N	80°47'20.750"W	1468.29	258.993	0.05	-0.03	0.10	
5349.50	21.420	259.850	5089.29	-293.73	-285.87	-1475.18	1700019.85	14282660.94	39°19'52.969"N	80°47'21.182"W	1502.63	259.033	0.69	0.11	-1.87	
5443.50	21.220	258.390	5176.84	-300.47	-292.33	-1508.79	1699986.25	14282654.48	39°19'52.906"N	80°47'21.610"W	1536.85	259.035	0.63	-0.29	-1.56	
5538.50	21.440	260.170	5265.33	-307.38	-298.76	-1542.74	1699952.32	14282648.06	39°19'52.843"N	80°47'22.042"W	1571.40	259.040	0.72	0.23	1.87	
5632.50	21.860	260.720	5352.70	-314.99	-304.51	-1576.94	1699918.13	14282642.31	39°19'52.787"N	80°47'22.477"W	1606.07	259.071	0.50	0.45	0.59	
5726.50	21.580	262.600	5440.03	-323.34	-309.56	-1611.34	1699883.75	14282636.26	39°19'52.738"N	80°47'22.915"W	1640.81	259.125	0.81	-0.32	2.00	
5820.50	20.580	261.740	5527.75	-331.76	-314.16	-1644.82	1699850.28	14282630.67	39°19'52.693"N	80°47'23.342"W	1674.55	259.187	1.09	-1.04	-0.91	
5914.50	20.920	259.290	5615.65	-339.10	-319.65	-1677.66	1699817.46	14282625.18	39°19'52.640"N	80°47'23.760"W	1707.84	259.213	0.99	0.36	-2.61	
6009.50	20.940	255.320	5704.39	-344.73	-327.10	-1710.75	1699784.38	14282619.73	39°19'52.567"N	80°47'24.181"W	1741.74	259.175	1.49	0.02	-4.18	
6103.50	20.770	254.780	5792.23	-348.97	-335.74	-1743.08	1699752.06	14282611.10	39°19'52.482"N	80°47'24.593"W	1775.12	259.098	0.27	-0.18	-0.57	
6197.50	21.150	253.760	5880.01	-352.78	-344.85	-1775.44	1699719.71	14282601.98	39°19'52.393"N	80°47'25.005"W	1808.62	259.008	0.56	0.40	-1.09	
6292.50	21.430	241.370	5968.57	-352.64	-357.97	-1807.15	1699688.02	14282588.87	39°19'52.284"N	80°47'25.409"W	1842.28	258.796	4.74	0.29	-13.04	
6323.50	21.820	232.740	5997.39	-350.52	-364.17	-1816.70	1699678.46	14282582.67	39°19'52.203"N	80°47'25.830"W	1852.85	258.665	10.33	1.26	-27.84	
6354.50	21.900	223.890	6026.17	-346.69	-371.83	-1825.30	1699669.87	14282575.02	39°19'52.127"N	80°47'25.840"W	1862.79	258.486	10.62	0.26	-28.55	
6386.50	20.960	214.580	6055.97	-341.14	-380.85	-1832.69	1699662.49	14282568.01	39°19'52.039"N	80°47'25.734"W	1871.84	258.261	11.02	-2.94	-29.08	
6417.50	21.090	208.920	6084.91	-334.60	-390.29	-1838.53	1699656.64	14282556.56	39°19'51.945"N	80°47'25.809"W	1879.50	258.015	6.56	0.42	-18.28	
6449.50	21.850	208.960	6114.69	-327.10	-400.64	-1844.02	1699651.16	14282546.22	39°19'51.843"N	80°47'25.879"W	1887.04	257.742	3.27	2.37	-6.13	
6480.50	22.770	205.410	6143.37	-319.29	-411.20	-1849.21	1699645.98	14282535.66	39°19'51.739"N	80°47'25.945"W	1894.37	257.463	3.52	2.97	-5.00	
6512.50	23.750	203.720	6172.77	-310.64	-422.69	-1854.46	1699640.73	14282524.17	39°19'51.625"N	80°47'26.013"W	1902.02	257.160	3.70	3.06	-5.28	
6543.50	24.590	198.600	6201.05	-301.42	-434.52	-1859.03	1699636.16	14282512.35	39°19'51.509"N	80°47'26.071"W	1909.13	256.844	7.28	2.71	-16.52	
6575.50	25.230	193.820	6230.08	-290.87	-447.46	-1862.78	1699632.41	14282499.42	39°19'51.381"N	80°47'26.119"W	1915.77	256.493	6.60	2.00	-14.94	
6606.50	26.160	189.650	6258.01	-279.72	-460.61	-1865.50	1699629.69	14282486.27	39°19'51.251"N	80°47'26.154"W	1921.53	256.130	6.56	3.00	-13.45	
6638.50	27.570	187.230	6286.56	-267.29	-474.91	-1867.62	1699627.57	14282471.97	39°19'51.110"N	80°47'26.182"W	1927.05	255.733	5.58	4.41	-7.58	
6669.50	30.000	186.160	6313.73	-254.22	-489.74	-1869.35	1699625.84	14282457.15	39°19'50.963"N	80°47'26.204"W	1932.44	255.319	8.01	7.84	-3.45	
6701.50	31.990	184.310	6341.16	-239.63	-506.14	-1870.92	1699624.27	14282440.76	39°19'50.801"N	80°47'26.225"W	1938.18	254.882	6.59	6.22	-4.22	



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Buffett Unit 1H
Field	Doddridge	Wellbore	Buffett Unit 1H AWP
Facility	Strickling Pad		

WELLPATH DATA (214 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
8102.00	89.020	158.130	6721.37	1013.83	-1697.28	-1472.11	1700022.92	14281250.10	39°19'39.019"N	80°47'21.185"W	2246.74	220.936	4.76	-0.22	4.76	
8197.00	88.620	156.760	6723.33	1108.81	-1784.99	-1435.68	1700059.34	14281162.42	39°19'38.151"N	80°47'20.724"W	2290.71	218.810	1.50	-0.42	-1.44	
8292.00	88.650	156.890	6725.59	1203.77	-1872.30	-1398.31	1700096.70	14281075.15	39°19'37.288"N	80°47'20.251"W	2336.83	216.754	0.14	0.03	0.14	
8387.00	89.110	157.500	6727.45	1298.75	-1959.85	-1361.49	1700133.50	14280987.62	39°19'36.421"N	80°47'19.855"W	2386.35	214.787	0.80	0.48	0.64	
8483.00	88.580	156.750	6729.39	1394.72	-2048.29	-1324.18	1700170.79	14280899.23	39°19'35.546"N	80°47'19.313"W	2439.04	212.882	0.96	-0.55	-0.78	
8576.00	88.650	157.130	6731.63	1487.68	-2133.83	-1287.77	1700207.19	14280813.72	39°19'34.700"N	80°47'18.852"W	2492.30	211.111	0.42	0.08	0.41	
8670.00	88.830	156.940	6733.70	1581.65	-2220.36	-1251.10	1700243.85	14280727.22	39°19'33.844"N	80°47'18.388"W	2548.58	209.400	0.28	0.19	-0.20	
8766.00	88.740	156.480	6735.74	1677.62	-2308.52	-1213.15	1700281.78	14280639.10	39°19'32.972"N	80°47'17.908"W	2607.87	207.722	0.49	-0.09	-0.48	
8859.00	89.020	156.510	6737.55	1770.58	-2393.78	-1176.07	1700318.85	14280553.87	39°19'32.128"N	80°47'17.438"W	2667.08	206.165	0.30	0.30	0.03	
8953.00	89.570	156.970	6738.71	1864.55	-2480.14	-1138.95	1700355.95	14280467.55	39°19'31.274"N	80°47'16.988"W	2729.15	204.666	0.76	0.59	0.49	
9048.00	89.510	156.420	6739.47	1959.53	-2567.38	-1101.37	1700393.52	14280380.34	39°19'30.411"N	80°47'16.493"W	2793.65	203.219	0.58	-0.06	-0.58	
9143.00	89.380	157.180	6740.39	2054.51	-2654.69	-1063.94	1700430.93	14280293.06	39°19'29.547"N	80°47'16.019"W	2859.96	201.840	0.81	-0.14	0.80	
9236.00	89.600	159.280	6741.22	2147.50	-2741.05	-1029.45	1700465.40	14280206.74	39°19'28.693"N	80°47'15.583"W	2927.99	200.585	2.27	0.24	2.26	
9331.00	89.510	159.660	6741.96	2242.46	-2830.02	-996.14	1700498.70	14280117.81	39°19'27.812"N	80°47'15.162"W	3000.22	199.392	0.41	-0.09	0.40	
9426.00	89.450	159.800	6742.82	2337.40	-2919.13	-963.23	1700531.60	14280028.73	39°19'26.931"N	80°47'14.746"W	3073.94	198.261	0.16	-0.06	0.15	
9520.00	89.510	159.620	6743.67	2431.34	-3007.29	-930.63	1700564.18	14279940.60	39°19'26.059"N	80°47'14.333"W	3148.00	197.195	0.20	0.06	-0.19	
9615.00	89.600	159.200	6744.41	2526.30	-3096.22	-897.22	1700597.58	14279851.71	39°19'25.179"N	80°47'13.911"W	3223.60	196.161	0.45	0.09	-0.44	
9711.00	89.570	159.520	6745.11	2622.26	-3186.06	-863.39	1700631.40	14279761.91	39°19'24.290"N	80°47'13.483"W	3300.97	195.162	0.33	-0.03	0.33	
9806.00	89.570	158.690	6745.82	2717.23	-3274.81	-829.50	1700665.27	14279673.19	39°19'23.412"N	80°47'13.055"W	3378.23	194.214	0.87	0.00	-0.87	
9901.00	89.570	157.430	6746.53	2812.22	-3362.92	-794.01	1700700.75	14279585.11	39°19'22.541"N	80°47'12.606"W	3455.39	193.285	1.33	0.00	-1.33	
9995.00	89.510	155.300	6747.29	2906.18	-3449.03	-756.33	1700738.42	14279499.04	39°19'21.689"N	80°47'12.129"W	3530.98	192.368	2.27	-0.06	-2.27	
10090.00	89.480	154.250	6748.13	3001.05	-3534.97	-715.84	1700778.89	14279413.14	39°19'20.839"N	80°47'11.616"W	3606.72	191.448	1.11	-0.03	-1.11	
10185.00	89.660	155.330	6748.84	3095.92	-3620.91	-675.38	1700819.33	14279327.22	39°19'19.988"N	80°47'11.104"W	3683.36	190.566	1.15	0.19	1.14	
10280.00	89.600	155.310	6749.45	3190.83	-3707.23	-635.72	1700858.98	14279240.94	39°19'19.134"N	80°47'10.602"W	3761.35	189.730	0.07	-0.06	-0.02	
10375.00	89.600	154.410	6750.12	3285.71	-3793.45	-595.36	1700899.33	14279154.98	39°19'18.283"N	80°47'10.091"W	3839.67	188.920	0.95	0.00	-0.95	
10468.00	89.320	152.590	6750.99	3378.44	-3876.45	-553.87	1700940.80	14279071.79	39°19'17.460"N	80°47'09.565"W	3915.82	188.131	1.98	-0.30	-1.96	
10563.00	89.350	151.940	6752.09	3473.00	-3960.53	-509.66	1700984.99	14278987.74	39°19'16.628"N	80°47'09.005"W	3993.19	187.333	0.68	0.03	-0.68	
10658.00	89.570	152.400	6752.99	3567.54	-4044.54	-465.31	1701029.32	14278903.77	39°19'15.796"N	80°47'08.444"W	4071.22	186.563	0.54	0.23	0.48	
10753.00	89.540	156.190	6753.73	3662.35	-4130.12	-424.11	1701070.50	14278818.22	39°19'14.949"N	80°47'07.922"W	4151.84	185.863	3.99	-0.03	3.99	
10848.00	89.480	157.290	6754.54	3757.33	-4217.40	-386.60	1701108.00	14278730.98	39°19'14.086"N	80°47'07.447"W	4235.08	185.238	1.16	-0.06	1.16	



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #01
ANTERO RESOURCES CORPORATION	Well	Buffett Unit 1H
Doddridge Co., WV	Wellbore	Buffett Unit 1H AWB
Doddridge		
Strickling Pad		

WELLPATH DATA (214 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
16622.00	91.380	158.660	6761.64	9525.08	-9568.88	1765.06	1703258.81	14273381.62	39°18'21.142"N	80°46'40.237"W	9730.31	169.549	1.44	0.00	-1.44	
16718.00	91.420	158.430	6759.30	9621.04	-9657.57	1801.72	1703295.45	14273292.97	39°18'20.265"N	80°46'39.773"W	9824.20	169.432	2.32	0.04	-2.32	
16812.00	91.450	154.520	6756.94	9714.93	-9743.06	1840.72	1703334.43	14273207.51	39°18'19.419"N	80°46'39.280"W	9915.42	169.301	2.03	0.03	-2.03	
16838.00	91.450	154.520	6756.29	9740.88	-9766.53	1851.90	1703345.61	14273184.06	39°18'19.187"N	80°46'39.138"W	9940.55	169.263	0.00	0.00	0.00	Projected MD @ TD: 16838'

HOLE & CASING SECTIONS - Ref Wellbore: Buffett Unit 1H AWB Ref Wellpath: Buffett Unit 1H AWP Proj: 16838'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]
20in Conductor	24.50	104.50	80.00	24.50	104.50	0.00	0.04	0.00	-0.13
17.5in Open Hole	104.50	398.30	293.80	104.50	398.30	0.04	0.44	-0.13	-0.30
13.375in Casing Surface	24.50	398.30	373.80	24.50	398.30	0.00	0.44	0.00	-0.30
12.25in Open Hole	398.30	2659.70	2261.40	398.30	2580.03	0.44	-108.51	-0.30	-525.90
9.625in Casing Intermediate	24.50	2659.70	2635.20	24.50	2580.03	0.00	-108.51	0.00	-525.90
8.75in Open Hole	2659.70	7214.50	4554.80	2580.03	6667.53	-108.51	-877.39	-525.90	-1792.33
8.5in Open Hole	7214.50	16838.00	9623.50	6667.53	6756.29	-877.39	-9766.53	-1792.33	1851.90
5.5in Casing Production	24.50	16838.00	16813.50	24.50	6756.29	0.00	-9766.53	0.00	1851.90



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'

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REFERENCE WELLPATH IDENTIFICATION						
Operator	Area	Field	Facility	Slot	Slot #01	Well
ANTERO RESOURCES CORPORATION	Doddridge Co., WV	Doddridge	Strickling Pad	Well	Buffett Unit 1H	Wellbore
				Wellbore	Buffett Unit 1H AWB	

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Buffett Unit 1H BHL - Plat	6712.50	-9802.60	1860.50	1703354.21	14273148.00	39°18'18.830"N	80°46'39.030"W	point
Buffett Unit 1H BHL - Rev-1	6713.00	-9802.60	1860.50	1703354.21	14273148.00	39°18'18.830"N	80°46'39.030"W	point
Buffett Unit 1H LP - Rev-1	6713.00	-1152.81	-1678.71	1699816.40	14281794.35	39°19'44.405"N	80°47'23.798"W	point

WELLPATH COMPOSITION - Ref Wellbore: Buffett Unit 1H AWB			Ref Wellpath: Buffett Unit 1H AWP Proj: 16838'		
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
24.50	361.50	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <17-1/2">(100'-352')	Buffett Unit 1H AWB	
361.50	626.50	Gyrodata standard - Drop gyro or Multi-shot	02_Gyrodata MS Gyro <12-1/4">(352')(438'-617')	Buffett Unit 1H AWB	
626.50	2577.50	ISCWSA MWD, Rev. 4 (Standard)	03_WFT EM <12-1/4">(617')(726'-2568')	Buffett Unit 1H AWB	
2577.50	7142.50	ISCWSA MWD, Rev. 4 (Standard)	04_WFT EM <8-3/4">(2568')(2689'-7133')	Buffett Unit 1H AWB	
7142.50	16812.00	BHI AutoTrak Curve (Short)	05_BH AT Curve <8-1/2">(7142.50')(7185'-16812')	Buffett Unit 1H AWB	
16812.00	16838.00	Blind Drilling (std)	Projection to bit	Buffett Unit 1H AWB	

02/15/2019



Actual Wellpath Report

Buffett Unit 1H AWP Proj: 16838'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Slot	Slot #01	
ANTERO RESOURCES CORPORATION	Well	Buffett Unit 1H	
Doddridge Co., WV	Wellbore	Buffett Unit 1H AWB	
Doddridge			
Strickling Pad			

COMMENTS
<p>Wellpath general comments API: 47-017-06847-0000 BH Job #: 9080283 Rig: Frontier 22 Duration: 03/24/18 - 03/28/18 Gyrodatta MS Gyro <17'-1/2">(100'-352') Gyrodatta MS Gyro <12-1/4">(352')(438'-617') WFT EM <12-1/4">(617')(726'-2568') WFT EM <8-3/4">(2568')(2689'-7133') Burket: 7045'MD / 6591'TVD Tully: 7104'MD / 6622'TVD BH AT Curve <8-1/2">(7142.50')(7185'-16812') Hamilton: 7202'MD / 6663'TVD POE Marcellus: 6671'TVD Projected MD @ TD: 16838'</p>

02/15/2019