



# ANTERO RESOURCES CORPORATION

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

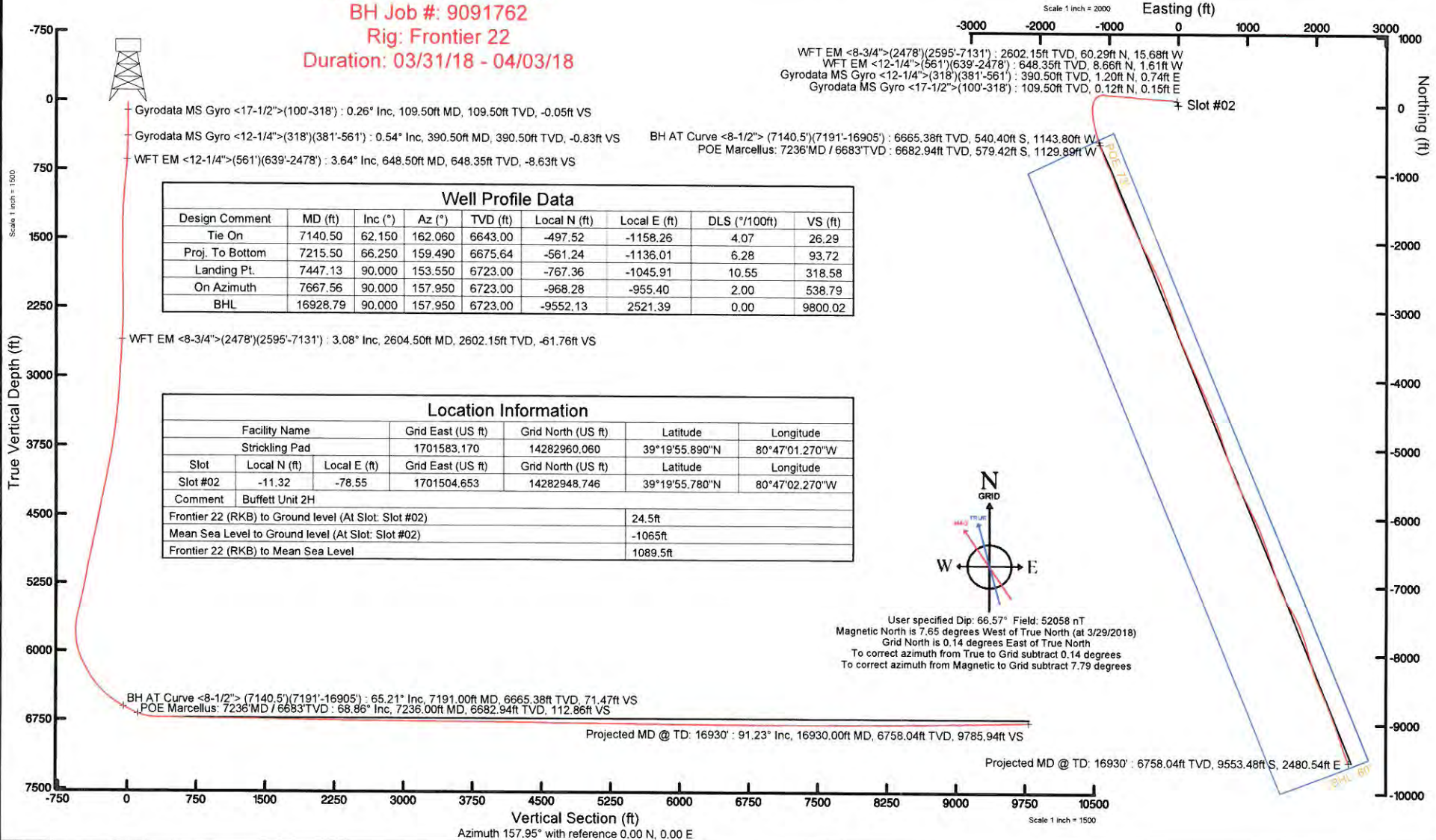
Slot: Slot #02  
 Well: Buffett Unit 2H  
 Wellbore: Buffett Unit 2H PWB



Well Data			
Slot	Well	Wellbore	Wellpath
Slot #02	Buffett Unit 2H	Buffett Unit 2H AWB	Buffett Unit 2H AWP Proj. 16930'
Slot #02	Buffett Unit 2H	Buffett Unit 2H PWB	Buffett Unit 2H PWP Rev-A.0

Plot reference wellpath is Buffett Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Frontier 22 (RKB)	North Reference: Grid north
Measured depths are referenced to Frontier 22 (RKB)	Scale: True distance
Frontier 22 (RKB) to Mean Sea Level: 1089.5 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #02): -1065 feet	Created by: mccreir on 2018-05-21
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Defn

API: 47-017-06848-0000  
 BH Job #: 9091762  
 Rig: Frontier 22  
 Duration: 03/31/18 - 04/03/18



Gyrodatta MS Gyro <17-1/2">(100'-318') : 0.26° Inc, 109.50ft MD, 109.50ft TVD, -0.05ft VS  
 Gyrodatta MS Gyro <12-1/4">(318')(381'-561') : 0.54° Inc, 390.50ft MD, 390.50ft TVD, -0.83ft VS  
 WFT EM <12-1/4">(561')(639'-2478') : 3.64° Inc, 648.50ft MD, 648.35ft TVD, -8.63ft VS

WFT EM <8-3/4">(2478')(2595'-7131') : 2602.15ft TVD, 60.29ft N, 15.68ft W  
 WFT EM <12-1/4">(561')(639'-2478') : 648.35ft TVD, 8.66ft N, 1.61ft W  
 Gyrodatta MS Gyro <12-1/4">(318')(381'-561') : 390.50ft TVD, 1.20ft N, 0.74ft E  
 Gyrodatta MS Gyro <17-1/2">(100'-318') : 109.50ft TVD, 0.12ft N, 0.15ft E

BH AT Curve <8-1/2"> (7140.5')(7191'-16905') : 6665.38ft TVD, 540.40ft S, 1143.80ft W  
 POE Marcellus: 7236'MD / 6683'TVD : 6682.94ft TVD, 579.42ft S, 1129.89ft W

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7140.50	62.150	162.060	6643.00	-497.52	-1158.26	4.07	26.29
Proj. To Bottom	7215.50	66.250	159.490	6675.64	-561.24	-1136.01	6.28	93.72
Landing Pt.	7447.13	90.000	153.550	6723.00	-767.36	-1045.91	10.55	318.58
On Azimuth	7667.56	90.000	157.950	6723.00	-968.28	-955.40	2.00	538.79
BHL	16928.79	90.000	157.950	6723.00	-9552.13	2521.39	0.00	9800.02

WFT EM <8-3/4">(2478')(2595'-7131') : 3.08° Inc, 2604.50ft MD, 2602.15ft TVD, -61.76ft VS

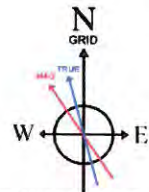
Location Information						
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Strickling Pad		1701583.170	14282960.060	39°19'55.890"N	80°47'01.270"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #02	-11.32	-78.55	1701504.653	14282948.746	39°19'55.780"N	80°47'02.270"W
Comment		Buffett Unit 2H				
Frontier 22 (RKB) to Ground level (At Slot: Slot #02)					24.5ft	
Mean Sea Level to Ground level (At Slot: Slot #02)					-1065ft	
Frontier 22 (RKB) to Mean Sea Level					1089.5ft	

BH AT Curve <8-1/2"> (7140.5')(7191'-16905') : 65.21° Inc, 7191.00ft MD, 6665.38ft TVD, 71.47ft VS  
 POE Marcellus: 7236'MD / 6683'TVD : 68.86° Inc, 7236.00ft MD, 6682.94ft TVD, 112.86ft VS

Projected MD @ TD: 16930' : 91.23° Inc, 16930.00ft MD, 6758.04ft TVD, 9785.94ft VS

Projected MD @ TD: 16930' : 6758.04ft TVD, 9553.48ft S, 2480.54ft E

Vertical Section (ft)  
 Azimuth 157.95° with reference 0.00 N, 0.00 E



User specified Dip: 66.57° Field: 52058 nT  
 Magnetic North is 7.65 degrees West of True North (at 3/29/2018)  
 Grid North is 0.14 degrees East 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

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# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H 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	5/21/2018 at 2:26:18 PM
Convergence at slot	0.14° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Bufnett_Unit_2H_AWP_Proj__16930_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-11.32	-78.55	1701504.65	14282948.75	39°19'55.780"N	80°47'02.270"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	Frontier 22 (RKB) to Facility Vertical Datum	24.50ft
Horizontal Reference Pt	Slot	Frontier 22 (RKB) to Mean Sea Level	1089.50ft
Vertical Reference Pt	Frontier 22 (RKB)	Frontier 22 (RKB) to Ground Level at Slot (Slot #02)	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	157.95°





# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #02
Area	Doddridge Co., WV		Well	Buffett Unit 2H
Field	Doddridge		Wellbore	Buffett Unit 2H AWB
Facility	Strickling Pad			

WELLPATH DATA (218 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
0.00†	0.000	53.080	0.00	0.00	0.00	0.00	1701504.65	14282948.75	39°19'55.780"N	80°47'02.270"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	53.080	24.50	0.00	0.00	0.00	1701504.65	14282948.75	39°19'55.780"N	80°47'02.270"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.260	53.080	109.50	-0.05	0.12	0.15	1701504.81	14282948.86	39°19'55.781"N	80°47'02.268"W	0.19	53.080	0.31	0.31	62.45	Gyrodata MS Gyro <17-1/2">(100'-318')
209.50	0.170	45.370	209.50	-0.16	0.36	0.44	1701505.09	14282949.10	39°19'55.784"N	80°47'02.264"W	0.57	51.069	0.09	-0.09	-7.71	
309.50	0.300	41.060	309.50	-0.34	0.66	0.72	1701505.37	14282949.40	39°19'55.786"N	80°47'02.261"W	0.97	47.525	0.13	0.13	-4.31	
327.50	0.320	15.510	327.50	-0.40	0.74	0.76	1701505.42	14282949.49	39°19'55.787"N	80°47'02.260"W	1.06	45.804	0.77	0.11	-141.94	
390.50	0.540	346.900	390.50	-0.83	1.20	0.74	1701505.40	14282949.95	39°19'55.792"N	80°47'02.261"W	1.41	31.746	0.48	0.35	-45.41	Gyrodata MS Gyro <12-1/4">(318')(381'-561')
480.50	1.110	335.670	480.49	-2.12	2.41	0.29	1701504.94	14282951.15	39°19'55.804"N	80°47'02.266"W	2.43	6.810	0.66	0.63	-12.48	
570.50	2.190	340.760	570.45	-4.71	4.83	-0.64	1701504.02	14282953.57	39°19'55.828"N	80°47'02.278"W	4.87	352.466	1.21	1.20	5.66	
648.50	3.640	348.910	648.35	-8.63	8.66	-1.61	1701503.05	14282957.41	39°19'55.866"N	80°47'02.290"W	8.81	349.500	1.93	1.86	10.45	WFT EM <12-1/4">(561')(639'-2478')
738.50	4.760	351.130	738.10	-15.07	15.16	-2.73	1701501.92	14282963.90	39°19'55.930"N	80°47'02.304"W	15.40	349.785	1.26	1.24	2.47	
828.50	5.350	348.650	827.75	-22.83	22.96	-4.13	1701500.52	14282971.70	39°19'56.007"N	80°47'02.322"W	23.33	349.796	0.70	0.66	-2.76	
923.50	5.630	346.810	922.32	-31.79	31.84	-6.07	1701498.59	14282980.57	39°19'56.095"N	80°47'02.346"W	32.41	349.211	0.35	0.29	-1.94	
1018.50	4.620	347.320	1016.93	-40.17	40.11	-7.97	1701496.69	14282988.84	39°19'56.177"N	80°47'02.370"W	40.89	348.760	1.06	-1.06	0.54	
1112.50	3.840	346.670	1110.68	-47.01	46.87	-9.53	1701495.13	14282995.59	39°19'56.243"N	80°47'02.390"W	47.82	348.509	0.83	-0.83	-0.69	
1207.50	2.830	354.470	1205.52	-52.41	52.30	-10.49	1701494.17	14283001.02	39°19'56.297"N	80°47'02.402"W	53.34	348.661	1.16	-1.06	8.21	
1302.50	1.210	7.110	1300.45	-55.53	55.62	-10.59	1701494.07	14283004.35	39°19'56.330"N	80°47'02.403"W	56.62	349.222	1.76	-1.71	13.31	
1396.50	0.500	30.170	1394.44	-56.65	56.96	-10.26	1701494.40	14283005.69	39°19'56.343"N	80°47'02.399"W	57.88	349.790	0.82	-0.76	24.53	
1491.50	0.120	87.100	1489.44	-56.87	57.33	-9.95	1701494.71	14283006.05	39°19'56.347"N	80°47'02.395"W	58.19	350.152	0.47	-0.40	59.93	
1585.50	0.050	151.070	1583.44	-56.80	57.30	-9.83	1701494.82	14283006.02	39°19'56.347"N	80°47'02.393"W	58.13	350.261	0.11	-0.07	68.05	
1680.50	0.090	134.550	1678.44	-56.69	57.21	-9.76	1701494.90	14283005.93	39°19'56.346"N	80°47'02.392"W	58.03	350.318	0.05	0.04	-17.39	
1774.50	0.420	157.190	1772.44	-56.28	56.84	-9.57	1701495.08	14283005.56	39°19'56.342"N	80°47'02.390"W	57.64	350.438	0.36	0.35	24.09	
1869.50	0.740	150.140	1867.44	-55.32	55.99	-9.13	1701495.52	14283004.71	39°19'56.334"N	80°47'02.385"W	56.73	350.734	0.34	0.34	-7.42	
1963.50	1.140	149.770	1961.42	-53.79	54.65	-8.36	1701496.30	14283003.38	39°19'56.320"N	80°47'02.375"W	55.29	351.302	0.43	0.43	-0.39	
2058.50	0.780	175.650	2056.41	-52.24	53.19	-7.84	1701496.82	14283001.92	39°19'56.306"N	80°47'02.368"W	53.76	351.619	0.58	-0.38	27.24	
2153.50	0.500	194.560	2151.40	-51.29	52.14	-7.89	1701496.76	14283000.87	39°19'56.296"N	80°47'02.369"W	52.74	351.394	0.37	-0.29	19.91	
2247.50	0.280	179.150	2245.40	-50.75	51.52	-7.99	1701496.67	14283000.24	39°19'56.289"N	80°47'02.370"W	52.13	351.183	0.26	-0.23	-16.39	
2341.50	1.000	307.620	2339.40	-51.24	51.79	-8.64	1701496.02	14283000.51	39°19'56.292"N	80°47'02.378"W	52.50	350.531	1.27	0.77	136.67	
2436.50	2.420	317.280	2434.35	-53.84	53.77	-10.65	1701494.00	14283002.49	39°19'56.312"N	80°47'02.404"W	54.81	348.791	1.52	1.49	10.17	
2487.50	2.740	322.590	2485.30	-56.02	55.53	-12.13	1701492.53	14283004.25	39°19'56.329"N	80°47'02.423"W	56.84	347.681	0.78	0.63	10.41	

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# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (218 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
2604.50	3.080	323.830	2602.15	-61.76	60.29	-15.68	1701488.98	14283009.01	39°19'56.376"N	80°47'02.468"W	62.29	345.421	0.30	0.29	1.06	WF1 EM <8-3/4">(2478)(2595-7131)
2698.50	4.150	308.090	2695.96	-67.16	64.42	-19.85	1701484.81	14283013.14	39°19'56.417"N	80°47'02.521"W	67.41	342.877	1.54	1.14	-16.74	
2793.50	5.470	293.960	2790.63	-73.40	68.38	-26.69	1701477.97	14283017.10	39°19'56.457"N	80°47'02.608"W	73.41	338.678	1.86	1.39	-14.87	
2888.50	5.940	279.500	2885.17	-79.23	71.03	-35.68	1701468.99	14283019.75	39°19'56.483"N	80°47'02.722"W	79.49	333.331	1.59	0.49	-15.22	
2982.50	5.960	274.940	2978.66	-83.99	72.26	-45.34	1701459.33	14283020.97	39°19'56.495"N	80°47'02.845"W	85.30	327.894	0.50	0.02	-4.85	
3077.50	7.290	275.280	3073.02	-89.00	73.24	-56.25	1701448.42	14283021.95	39°19'56.505"N	80°47'02.984"W	92.35	322.472	1.40	1.40	0.36	
3172.50	9.160	273.770	3167.04	-95.06	74.29	-69.80	1701434.88	14283023.00	39°19'56.516"N	80°47'03.156"W	101.94	316.783	1.98	1.97	-1.59	
3266.50	11.260	273.240	3259.55	-102.24	75.30	-86.43	1701418.26	14283024.01	39°19'56.526"N	80°47'03.368"W	114.63	311.062	2.24	2.23	-0.56	
3361.50	13.070	274.140	3352.41	-110.94	76.60	-106.41	1701398.29	14283025.31	39°19'56.540"N	80°47'03.622"W	131.11	305.749	1.92	1.91	0.95	
3460.50	15.320	274.420	3448.38	-121.71	78.41	-130.61	1701374.09	14283027.13	39°19'56.558"N	80°47'03.930"W	152.34	300.979	2.27	2.27	0.28	
3555.50	17.030	273.530	3539.62	-133.32	80.24	-157.01	1701347.70	14283028.95	39°19'56.577"N	80°47'04.266"W	176.33	297.068	1.82	1.80	-0.94	
3649.50	19.090	273.030	3628.98	-145.78	81.90	-186.11	1701318.62	14283030.61	39°19'56.594"N	80°47'04.636"W	203.33	293.753	2.20	2.19	-0.53	
3744.50	21.020	273.590	3718.22	-159.73	83.79	-218.63	1701286.11	14283032.50	39°19'56.613"N	80°47'05.050"W	234.13	290.969	2.04	2.03	0.59	
3839.50	22.560	273.760	3806.43	-175.04	86.05	-253.82	1701250.94	14283034.76	39°19'56.636"N	80°47'05.498"W	268.01	288.728	1.62	1.62	0.18	
3933.50	24.270	273.660	3892.68	-191.27	88.46	-291.09	1701213.68	14283037.18	39°19'56.661"N	80°47'05.972"W	304.24	286.904	1.82	1.82	-0.11	
4028.50	24.690	273.010	3979.14	-208.15	90.75	-330.39	1701174.39	14283039.46	39°19'56.685"N	80°47'06.472"W	342.63	285.359	0.53	0.44	-0.68	
4122.50	24.950	271.950	4064.46	-224.53	92.46	-369.81	1701134.99	14283041.17	39°19'56.703"N	80°47'06.973"W	381.19	284.037	0.55	0.28	-1.13	
4216.50	24.950	274.530	4149.69	-241.46	94.70	-409.39	1701095.43	14283043.41	39°19'56.726"N	80°47'07.477"W	420.20	283.024	1.16	0.00	2.74	
4310.50	25.260	274.930	4234.81	-259.43	97.99	-449.14	1701055.70	14283046.70	39°19'56.759"N	80°47'07.983"W	459.70	282.307	0.38	0.33	0.43	
4405.50	23.920	275.560	4321.19	-277.56	101.60	-488.50	1701016.35	14283050.30	39°19'56.796"N	80°47'08.484"W	498.95	281.749	1.44	-1.41	0.66	
4499.50	23.860	274.940	4407.14	-295.02	105.08	-526.41	1700978.45	14283053.78	39°19'56.831"N	80°47'08.966"W	536.80	281.289	0.27	-0.06	-0.66	
4594.50	23.980	273.840	4493.98	-312.17	108.03	-564.81	1700940.06	14283056.73	39°19'56.861"N	80°47'09.455"W	575.05	280.828	0.49	0.13	-1.16	
4688.50	23.920	276.370	4579.89	-329.58	111.42	-602.81	1700902.08	14283060.12	39°19'56.895"N	80°47'09.938"W	613.02	280.472	1.09	-0.06	2.69	
4783.50	24.280	277.150	4666.61	-348.27	115.99	-641.33	1700863.57	14283064.69	39°19'56.941"N	80°47'10.428"W	651.74	280.251	0.51	0.38	0.82	
4877.50	24.370	276.300	4752.26	-366.91	120.52	-679.79	1700825.14	14283069.22	39°19'56.987"N	80°47'10.917"W	690.39	280.054	0.38	0.10	-0.90	
4971.50	24.550	275.490	4837.83	-385.15	124.52	-718.50	1700786.44	14283073.22	39°19'57.028"N	80°47'11.410"W	729.21	279.832	0.40	0.19	-0.86	
5066.50	24.540	274.510	4924.24	-403.09	127.96	-757.81	1700747.14	14283076.65	39°19'57.062"N	80°47'11.910"W	768.54	279.584	0.43	-0.01	-1.03	
5160.50	24.970	273.460	5009.61	-420.37	130.69	-797.08	1700707.89	14283079.39	39°19'57.090"N	80°47'12.410"W	807.72	279.312	0.65	0.46	-1.12	
5254.50	23.830	272.720	5095.21	-436.87	132.79	-835.85	1700669.13	14283081.48	39°19'57.112"N	80°47'12.903"W	846.33	279.027	1.26	-1.21	-0.79	
5348.50	23.570	271.370	5181.28	-452.29	134.14	-873.61	1700631.39	14283082.83	39°19'57.126"N	80°47'13.384"W	883.85	278.729	0.64	-0.28	-1.44	

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# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H AWP
Facility	Strickling Pad		

WELLPATH DATA (218 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
6635.50	38.980	175.510	6334.21	-360.90	-112.61	-1239.36	1700265.79	14282836.18	39°19'54.696"N	80°47'18.046"W	1244.46	264.808	8.78	8.68	-2.16	
6666.50	40.730	174.010	6358.01	-341.88	-132.39	-1237.54	1700267.61	14282816.40	39°19'54.500"N	80°47'18.023"W	1244.60	263.894	6.44	5.65	-4.84	
6698.50	42.200	173.340	6381.99	-321.48	-153.45	-1235.20	1700269.94	14282795.35	39°19'54.292"N	80°47'17.994"W	1244.70	262.918	4.80	4.59	-2.09	
6729.50	43.500	172.750	6404.71	-301.13	-174.38	-1232.65	1700272.50	14282774.44	39°19'54.085"N	80°47'17.962"W	1244.92	261.948	4.39	4.19	-1.90	
6761.50	44.410	171.940	6427.75	-279.62	-196.39	-1229.69	1700275.45	14282752.43	39°19'53.868"N	80°47'17.925"W	1245.27	260.926	3.34	2.84	-2.53	
6792.50	46.060	170.920	6449.58	-258.21	-218.16	-1226.40	1700278.74	14282730.68	39°19'53.653"N	80°47'17.884"W	1245.66	259.914	5.81	5.32	-3.29	
6824.50	48.150	169.750	6471.36	-235.32	-241.26	-1222.47	1700282.67	14282707.58	39°19'53.424"N	80°47'17.834"W	1246.05	258.836	7.06	6.53	-3.66	
6856.50	50.450	168.570	6492.23	-211.52	-265.09	-1217.90	1700287.24	14282683.76	39°19'53.188"N	80°47'17.777"W	1246.41	257.721	7.71	7.19	-3.69	
6887.50	52.570	167.460	6511.52	-187.63	-288.82	-1212.86	1700292.28	14282660.04	39°19'52.954"N	80°47'17.714"W	1246.77	256.606	7.39	6.84	-3.58	
6919.50	54.680	166.640	6530.50	-162.19	-313.93	-1207.08	1700298.05	14282634.94	39°19'52.705"N	80°47'17.641"W	1247.24	255.422	6.91	6.59	-2.56	
6951.50	56.460	166.700	6548.59	-136.10	-339.61	-1201.00	1700304.13	14282609.27	39°19'52.452"N	80°47'17.564"W	1248.09	254.211	5.56	5.56	0.19	
6982.50	57.750	166.360	6565.42	-110.37	-364.92	-1194.93	1700310.20	14282583.97	39°19'52.201"N	80°47'17.488"W	1249.41	253.018	4.26	4.16	-1.10	
7014.50	59.290	166.050	6582.13	-83.36	-391.42	-1188.43	1700316.70	14282557.48	39°19'51.939"N	80°47'17.406"W	1251.23	251.770	4.88	4.81	-0.97	
7045.50	60.930	165.270	6597.58	-56.73	-417.46	-1181.77	1700323.36	14282531.45	39°19'51.682"N	80°47'17.322"W	1253.33	250.544	5.72	5.29	-2.52	
7059.00†	61.068	164.685	6604.13	-45.01	-428.87	-1178.71	1700326.42	14282520.05	39°19'51.569"N	80°47'17.283"W	1254.30	250.006	3.92	1.02	-4.33	Burket: 7059'MD / 6604'TVD
7076.50	61.250	163.930	6612.57	-29.77	-443.62	-1174.56	1700330.56	14282505.30	39°19'51.423"N	80°47'17.231"W	1255.55	249.309	3.92	1.04	-4.32	
7108.50	61.530	163.360	6627.89	-1.82	-470.58	-1166.65	1700338.47	14282478.35	39°19'51.156"N	80°47'17.131"W	1257.98	248.033	1.79	0.87	-1.78	
7126.00†	61.868	162.647	6636.19	13.53	-485.31	-1162.15	1700342.97	14282463.63	39°19'51.011"N	80°47'17.074"W	1259.41	247.335	4.07	1.93	-4.07	Tully: 7126'MD / 6636'TVD
7140.50	62.150	162.060	6643.00	26.29	-497.52	-1158.26	1700346.85	14282451.43	39°19'50.890"N	80°47'16.842"W	1260.59	246.755	4.07	1.95	-4.05	
7191.00	65.210	160.670	6665.38	71.47	-540.40	-1143.80	1700361.31	14282408.56	39°19'50.466"N	80°47'16.842"W	1265.03	244.711	6.54	6.06	-2.75	BH AT Curve <8-1/2"> (7140.5)/(7191-16905)
7212.00†	66.915	160.407	6673.90	90.65	-558.49	-1137.40	1700367.70	14282390.47	39°19'50.287"N	80°47'16.761"W	1267.12	243.848	8.20	8.12	-1.25	Hamilton: 7212'MD / 6674'TVD
7236.00†	68.864	160.115	6682.94	112.86	-579.42	-1129.89	1700375.21	14282369.55	39°19'50.080"N	80°47'16.666"W	1269.80	242.851	8.20	8.12	-1.22	POE Marcellus: 7236'MD / 6683'TVD
7249.00	69.920	159.960	6687.51	125.02	-590.86	-1125.74	1700379.36	14282358.12	39°19'49.967"N	80°47'16.614"W	1271.38	242.307	8.20	8.12	-1.19	
7298.00	74.270	160.360	6702.57	171.60	-634.71	-1109.92	1700395.18	14282314.29	39°19'49.533"N	80°47'16.414"W	1278.58	240.237	8.91	8.88	0.82	
7346.00	79.070	161.100	6713.64	218.24	-678.79	-1094.51	1700410.58	14282270.23	39°19'49.097"N	80°47'16.219"W	1287.91	238.194	10.11	10.00	1.54	
7393.00	84.480	159.560	6720.36	264.70	-722.57	-1078.86	1700426.23	14282226.46	39°19'48.664"N	80°47'16.021"W	1298.47	236.188	11.96	11.51	-3.28	
7441.00	90.030	158.570	6722.66	312.61	-767.33	-1061.73	1700443.34	14282181.72	39°19'48.221"N	80°47'15.805"W	1309.99	234.144	11.74	11.56	-2.06	
7535.00	89.140	154.540	6723.34	406.56	-853.55	-1024.34	1700480.72	14282095.54	39°19'47.368"N	80°47'15.331"W	1333.35	230.197	4.39	-0.95	-4.29	
7630.00	88.890	154.930	6724.97	501.40	-939.45	-983.80	1700521.24	14282009.67	39°19'46.518"N	80°47'14.818"W	1360.30	226.321	0.49	-0.26	0.41	
7726.00	89.140	159.710	6726.62	597.35	-1027.99	-946.80	1700558.23	14281921.17	39°19'45.642"N	80°47'14.350"W	1397.56	222.646	4.99	0.26	4.98	

02/15/2019





# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (218 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
7821.00	89.540	160.790	6727.72	692.27	-1117.39	-914.70	1700590.32	14281831.80	39°19'44.758"N	80°47'13.944"W	1444.04	219.304	1.21	0.42	1.14	
7915.00	89.290	158.300	6728.68	786.22	-1205.45	-881.86	1700623.15	14281743.77	39°19'43.886"N	80°47'13.529"W	1493.58	216.188	2.66	-0.27	-2.65	
8009.00	89.260	157.550	6729.87	880.21	-1292.55	-846.53	1700658.46	14281656.71	39°19'43.025"N	80°47'13.082"W	1545.09	213.222	0.80	-0.03	-0.80	
8104.00	89.600	157.660	6730.81	975.20	-1380.38	-810.34	1700694.64	14281568.91	39°19'42.156"N	80°47'12.624"W	1600.66	210.415	0.38	0.36	0.12	
8198.00	89.320	157.840	6731.70	1069.20	-1467.38	-774.75	1700730.21	14281481.95	39°19'41.295"N	80°47'12.174"W	1659.35	207.833	0.35	-0.30	0.19	
8294.00	89.350	156.270	6732.81	1165.18	-1555.78	-737.33	1700767.62	14281393.59	39°19'40.421"N	80°47'11.700"W	1721.65	205.358	1.64	0.03	-1.64	
8389.00	89.850	157.400	6733.48	1260.16	-1643.11	-699.96	1700804.97	14281306.29	39°19'39.557"N	80°47'11.227"W	1785.99	203.074	1.30	0.53	1.19	
8484.00	89.480	156.100	6734.03	1355.13	-1730.40	-662.46	1700842.46	14281219.04	39°19'38.693"N	80°47'10.753"W	1852.87	200.949	1.42	-0.39	-1.37	
8578.00	89.110	155.250	6735.19	1449.05	-1816.04	-623.74	1700881.16	14281133.43	39°19'37.846"N	80°47'10.262"W	1920.17	198.956	0.99	-0.39	-0.90	
8672.00	89.110	155.550	6736.65	1542.94	-1901.50	-584.62	1700920.27	14281048.00	39°19'37.000"N	80°47'09.767"W	1989.34	197.090	0.32	0.00	0.32	
8767.00	89.020	154.270	6738.20	1637.80	-1987.52	-544.34	1700960.53	14280962.01	39°19'36.149"N	80°47'09.257"W	2060.72	195.316	1.35	-0.09	-1.35	
8861.00	89.230	152.820	6739.63	1731.51	-2071.67	-502.47	1701002.39	14280877.90	39°19'35.316"N	80°47'08.727"W	2131.73	193.633	1.56	0.22	-1.54	
8955.00	88.430	151.790	6741.55	1825.03	-2154.88	-458.79	1701046.05	14280794.72	39°19'34.493"N	80°47'08.174"W	2203.18	192.019	1.39	-0.85	-1.10	
9050.00	89.110	152.920	6743.59	1919.55	-2239.01	-414.72	1701090.10	14280710.62	39°19'33.660"N	80°47'07.615"W	2277.10	190.494	1.39	0.72	1.19	
9145.00	89.200	155.950	6744.99	2014.35	-2324.69	-373.73	1701131.07	14280624.98	39°19'32.812"N	80°47'07.096"W	2354.54	189.133	3.19	0.09	3.19	
9238.00	89.200	154.540	6746.29	2107.24	-2409.14	-334.80	1701169.99	14280540.57	39°19'31.977"N	80°47'06.604"W	2432.29	187.912	1.52	0.00	-1.52	
9333.00	89.350	154.000	6747.49	2202.03	-2494.71	-293.56	1701211.21	14280455.03	39°19'31.130"N	80°47'06.081"W	2511.92	186.711	0.59	0.16	-0.57	
9427.00	89.320	157.480	6748.59	2295.94	-2580.39	-254.94	1701249.81	14280369.38	39°19'30.282"N	80°47'05.593"W	2592.95	185.643	3.70	-0.03	3.70	
9521.00	89.540	159.190	6749.52	2389.93	-2667.74	-220.24	1701284.50	14280282.06	39°19'29.418"N	80°47'05.154"W	2676.82	184.720	1.83	0.23	1.82	
9617.00	89.290	160.450	6750.50	2485.87	-2757.84	-187.13	1701317.60	14280192.00	39°19'28.527"N	80°47'04.735"W	2764.18	183.882	1.34	-0.26	1.31	
9712.00	89.260	160.680	6751.70	2580.77	-2847.42	-155.52	1701349.19	14280102.46	39°19'27.641"N	80°47'04.336"W	2851.67	183.126	0.24	-0.03	0.24	
9807.00	89.630	161.110	6752.62	2675.64	-2937.18	-124.43	1701380.27	14280012.73	39°19'26.753"N	80°47'03.943"W	2939.82	182.426	0.60	0.39	0.45	
9903.00	89.320	162.190	6753.50	2771.43	-3028.30	-94.21	1701410.48	14279921.65	39°19'25.852"N	80°47'03.561"W	3029.76	181.782	1.17	-0.32	1.13	
9997.00	89.540	161.890	6754.44	2865.19	-3117.71	-65.23	1701439.45	14279832.27	39°19'24.967"N	80°47'03.195"W	3118.40	181.199	0.40	0.23	-0.32	
10092.00	89.230	161.390	6755.46	2959.98	-3207.87	-35.30	1701469.36	14279742.15	39°19'24.075"N	80°47'02.817"W	3208.07	180.631	0.62	-0.33	-0.53	
10187.00	89.780	159.030	6756.28	3054.90	-3297.25	-3.14	1701501.51	14279652.81	39°19'23.191"N	80°47'02.410"W	3297.25	180.055	2.55	0.58	-2.48	
10282.00	89.510	159.060	6756.87	3149.88	-3385.97	30.83	1701535.47	14279564.13	39°19'22.314"N	80°47'01.981"W	3386.11	179.478	0.29	-0.28	0.03	
10377.00	89.660	156.950	6757.56	3244.87	-3474.04	66.41	1701571.04	14279476.08	39°19'21.442"N	80°47'01.531"W	3474.68	178.905	2.23	0.16	-2.22	
10470.00	89.630	156.280	6758.13	3337.84	-3559.40	103.32	1701607.93	14279390.76	39°19'20.598"N	80°47'01.064"W	3560.90	178.337	0.72	-0.03	-0.72	
10565.00	89.970	157.310	6758.46	3432.82	-3646.72	140.75	1701645.35	14279303.48	39°19'19.734"N	80°47'00.590"W	3649.43	177.790	1.14	0.36	1.08	

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# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #02
Area	Doddridge Co., WV		Well	Buffett Unit 2H
Field	Doddridge		Wellbore	Buffett Unit 2H AWB
Facility	Strickling Pad			

WELLPATH DATA (218 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
10659.00	89.720	156.740	6758.72	3526.81	-3733.26	177.44	1701682.03	14279216.97	39°19'18.878"N	80°47'00.126"W	3737.47	177.279	0.66	-0.27	-0.61	
10755.00	89.450	156.000	6759.41	3622.77	-3821.21	215.92	1701720.49	14279129.06	39°19'18.008"N	80°46'59.639"W	3827.30	176.766	0.82	-0.28	-0.77	
10849.00	90.460	155.870	6759.49	3716.71	-3907.03	254.25	1701758.80	14279043.27	39°19'17.158"N	80°46'59.154"W	3915.30	176.277	1.08	1.07	-0.14	
10944.00	89.600	154.950	6759.44	3811.62	-3993.42	293.78	1701798.32	14278956.92	39°19'16.304"N	80°46'58.653"W	4004.21	175.793	1.33	-0.91	-0.97	
11039.00	89.350	155.640	6760.31	3906.51	-4079.72	333.48	1701838.01	14278870.65	39°19'15.450"N	80°46'58.151"W	4093.33	175.327	0.77	-0.26	0.73	
11133.00	89.290	156.760	6761.42	4000.46	-4165.72	371.41	1701875.92	14278784.69	39°19'14.599"N	80°46'57.671"W	4182.24	174.905	1.19	-0.06	1.19	
11228.00	89.320	157.240	6762.58	4095.44	-4253.16	408.53	1701913.02	14278697.28	39°19'13.734"N	80°46'57.201"W	4272.73	174.513	0.51	0.03	0.51	
11323.00	89.260	157.420	6763.75	4190.42	-4340.81	445.14	1701949.62	14278609.66	39°19'12.866"N	80°46'56.738"W	4363.58	174.145	0.20	-0.06	0.19	
11417.00	89.260	157.230	6764.97	4284.41	-4427.54	481.38	1701985.84	14278522.97	39°19'12.008"N	80°46'56.280"W	4453.63	173.795	0.20	0.00	-0.20	
11513.00	89.290	158.150	6766.18	4380.40	-4516.34	517.82	1702022.27	14278434.20	39°19'11.130"N	80°46'55.819"W	4545.93	173.459	0.96	0.03	0.96	
11608.00	88.980	157.800	6767.62	4475.39	-4604.40	553.44	1702057.87	14278346.18	39°19'10.259"N	80°46'55.368"W	4637.54	173.146	0.49	-0.33	-0.37	
11702.00	89.200	159.530	6769.11	4569.37	-4691.94	587.63	1702092.05	14278258.67	39°19'09.393"N	80°46'54.936"W	4728.60	172.861	1.86	0.23	1.84	
11797.00	89.450	162.370	6770.23	4664.22	-4781.73	618.64	1702123.04	14278168.92	39°19'08.504"N	80°46'54.544"W	4821.58	172.628	3.00	0.26	2.99	
11892.00	89.540	162.650	6771.07	4758.92	-4872.33	647.19	1702151.58	14278078.35	39°19'07.608"N	80°46'54.184"W	4915.13	172.434	0.31	0.09	0.29	
11987.00	89.630	162.110	6771.75	4853.63	-4962.87	675.94	1702180.33	14277987.85	39°19'06.713"N	80°46'53.820"W	5008.69	172.244	0.58	0.09	-0.57	
12082.00	89.570	161.620	6772.42	4948.40	-5053.15	705.51	1702209.88	14277897.61	39°19'05.820"N	80°46'53.447"W	5102.16	172.052	0.52	-0.06	-0.52	
12176.00	89.630	160.480	6773.07	5042.26	-5142.05	736.03	1702240.39	14277808.74	39°19'04.940"N	80°46'53.061"W	5194.46	171.854	1.21	0.06	-1.21	
12268.00	89.230	159.060	6773.99	5134.21	-5228.37	767.84	1702272.19	14277722.46	39°19'04.086"N	80°46'52.659"W	5284.45	171.645	1.60	-0.43	-1.54	
12364.00	89.940	160.410	6774.68	5230.16	-5318.42	801.09	1702305.43	14277632.44	39°19'03.196"N	80°46'52.239"W	5378.42	171.434	1.59	0.74	1.41	
12458.00	89.380	157.440	6775.24	5324.13	-5406.12	834.89	1702339.21	14277544.77	39°19'02.328"N	80°46'51.812"W	5470.21	171.221	3.22	-0.60	-3.16	
12553.00	89.450	156.120	6776.21	5419.10	-5493.42	872.34	1702376.65	14277457.51	39°19'01.464"N	80°46'51.338"W	5562.25	170.977	1.39	0.07	-1.39	
12649.00	89.540	154.870	6777.06	5515.01	-5580.77	912.16	1702416.45	14277370.20	39°19'00.600"N	80°46'50.834"W	5654.82	170.717	1.31	0.09	-1.30	
12742.00	89.510	154.100	6777.83	5607.84	-5664.70	952.22	1702456.49	14277286.30	39°18'59.770"N	80°46'50.327"W	5744.17	170.458	0.83	-0.03	-0.83	
12837.00	89.450	153.530	6778.69	5702.59	-5749.94	994.13	1702498.39	14277201.09	39°18'58.926"N	80°46'49.796"W	5835.25	170.191	0.60	-0.06	-0.60	
12932.00	89.450	153.910	6779.60	5797.32	-5835.12	1036.19	1702540.44	14277115.95	39°18'58.083"N	80°46'49.264"W	5926.41	169.930	0.40	0.00	0.40	
13027.00	89.380	154.590	6780.57	5892.12	-5920.68	1077.46	1702581.69	14277030.42	39°18'57.236"N	80°46'48.741"W	6017.92	169.686	0.72	-0.07	0.72	
13121.00	89.480	154.450	6781.51	5985.95	-6005.53	1117.90	1702622.11	14276945.60	39°18'56.397"N	80°46'48.229"W	6108.69	169.455	0.18	0.11	-0.15	
13216.00	89.510	154.940	6782.34	6080.79	-6091.41	1158.51	1702662.70	14276859.75	39°18'55.547"N	80°46'47.715"W	6200.60	169.232	0.52	0.03	0.52	
13311.00	89.350	158.880	6783.29	6175.75	-6178.78	1195.75	1702699.93	14276772.42	39°18'54.683"N	80°46'47.244"W	6293.42	169.047	4.15	-0.17	4.15	
13404.00	89.600	159.670	6784.14	6268.72	-6265.76	1228.66	1702732.83	14276685.48	39°18'53.822"N	80°46'46.828"W	6385.09	168.906	0.89	0.27	0.85	

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# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (218 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
13499.00	89.200	159.570	6785.14	6363.67	-6354.81	1261.74	1702765.90	14276596.47	39°18'52.941"N	80°46'46.410"W	6478.86	168.770	0.43	-0.42	-0.11	
13594.00	89.510	161.690	6786.21	6458.56	-6444.42	1293.25	1702797.39	14276506.89	39°18'52.055"N	80°46'46.012"W	6572.90	168.653	2.26	0.33	2.23	
13689.00	89.970	161.870	6786.64	6553.35	-6534.66	1322.95	1702827.08	14276416.69	39°18'51.162"N	80°46'45.637"W	6667.23	168.555	0.52	0.48	0.19	
13784.00	90.090	160.890	6786.59	6648.17	-6624.68	1353.28	1702857.40	14276326.70	39°18'50.272"N	80°46'45.254"W	6761.49	168.455	1.04	0.13	-1.03	
13880.00	90.220	162.300	6786.33	6743.98	-6715.77	1383.59	1702887.70	14276235.65	39°18'49.371"N	80°46'44.871"W	6856.81	168.359	1.47	0.14	1.47	
13974.00	90.030	163.000	6786.12	6837.66	-6805.49	1411.62	1702915.72	14276145.96	39°18'48.483"N	80°46'44.517"W	6950.35	168.282	0.77	-0.20	0.74	
14070.00	90.370	162.980	6785.79	6933.29	-6897.29	1439.71	1702943.79	14276054.20	39°18'47.575"N	80°46'44.163"W	7045.95	168.210	0.35	0.35	-0.02	
14164.00	90.120	159.190	6785.39	7027.13	-6986.20	1470.17	1702974.24	14275965.33	39°18'46.696"N	80°46'43.778"W	7139.21	168.116	4.04	-0.27	-4.03	
14259.00	90.120	154.640	6785.19	7122.09	-7073.57	1507.41	1703011.47	14275877.99	39°18'45.831"N	80°46'43.307"W	7232.40	167.970	4.79	0.00	-4.79	
14354.00	90.030	153.250	6785.06	7216.85	-7158.91	1549.14	1703053.18	14275792.68	39°18'44.987"N	80°46'42.779"W	7324.60	167.790	1.47	-0.09	-1.46	
14448.00	89.970	148.930	6785.06	7310.16	-7241.18	1594.57	1703098.59	14275710.45	39°18'44.173"N	80°46'42.203"W	7414.67	167.581	4.60	-0.06	-4.60	
14542.00	90.090	150.020	6785.01	7403.13	-7322.15	1642.31	1703146.31	14275629.51	39°18'43.371"N	80°46'41.598"W	7504.07	167.358	1.17	0.13	1.16	
14638.00	90.030	151.580	6784.91	7498.38	-7405.95	1689.15	1703193.13	14275545.75	39°18'42.542"N	80°46'41.005"W	7596.13	167.152	1.63	-0.06	1.63	
14732.00	90.180	153.510	6784.74	7591.96	-7489.35	1732.48	1703236.45	14275462.37	39°18'41.716"N	80°46'40.456"W	7687.13	166.975	2.06	0.16	2.05	
14826.00	90.310	157.420	6784.34	7685.85	-7574.85	1771.51	1703275.46	14275376.91	39°18'40.870"N	80°46'39.962"W	7779.24	166.837	4.16	0.14	4.16	
14921.00	90.340	160.110	6783.80	7780.83	-7663.39	1805.91	1703309.85	14275288.40	39°18'39.995"N	80°46'39.527"W	7873.30	166.740	2.83	0.03	2.83	
15016.00	90.280	161.610	6783.29	7875.71	-7753.13	1837.06	1703340.98	14275198.70	39°18'39.107"N	80°46'39.134"W	7967.80	166.670	1.58	-0.06	1.58	
15110.00	90.400	163.500	6782.73	7969.40	-7842.80	1865.24	1703369.15	14275109.06	39°18'38.220"N	80°46'38.778"W	8061.56	166.622	2.01	0.13	2.01	
15205.00	90.220	165.770	6782.21	8063.74	-7934.40	1890.41	1703394.31	14275017.50	39°18'37.314"N	80°46'38.461"W	8156.49	166.599	2.40	-0.19	2.39	
15300.00	90.280	163.930	6781.80	8158.05	-8026.10	1915.24	1703419.13	14274925.84	39°18'36.407"N	80°46'38.148"W	8251.44	166.579	1.94	0.06	-1.94	
15394.00	90.310	164.310	6781.32	8251.50	-8116.51	1940.96	1703444.84	14274835.47	39°18'35.513"N	80°46'37.824"W	8345.36	166.551	0.41	0.03	0.40	
15488.00	90.280	162.040	6780.83	8345.11	-8206.48	1968.16	1703472.03	14274745.53	39°18'34.623"N	80°46'37.480"W	8439.19	166.513	2.42	-0.03	-2.41	
15582.00	90.800	160.100	6779.95	8438.96	-8295.38	1998.65	1703502.51	14274656.66	39°18'33.743"N	80°46'37.095"W	8532.76	166.454	2.14	0.55	-2.06	
15677.00	90.740	156.710	6778.67	8533.93	-8383.69	2033.61	1703537.46	14274568.39	39°18'32.870"N	80°46'36.653"W	8626.81	166.365	3.57	-0.06	-3.57	
15773.00	90.680	156.470	6777.48	8629.90	-8471.79	2071.75	1703575.58	14274480.33	39°18'31.998"N	80°46'36.171"W	8721.43	166.258	0.26	-0.06	-0.25	
15867.00	90.740	156.830	6776.31	8723.87	-8558.08	2109.00	1703612.82	14274394.07	39°18'31.144"N	80°46'35.700"W	8814.12	166.156	0.39	0.06	0.38	
15962.00	90.710	157.940	6775.11	8818.85	-8645.77	2145.53	1703649.33	14274306.42	39°18'30.277"N	80°46'35.238"W	8908.01	166.063	1.17	-0.03	1.17	
16056.00	90.680	158.830	6773.97	8912.84	-8733.15	2180.15	1703683.94	14274219.07	39°18'29.412"N	80°46'34.800"W	9001.17	165.983	0.95	-0.03	0.95	
16151.00	90.710	158.170	6772.82	9007.83	-8821.53	2214.97	1703718.74	14274130.72	39°18'28.538"N	80°46'34.360"W	9095.36	165.905	0.70	0.03	-0.69	
16245.00	90.710	158.630	6771.65	9101.82	-8908.92	2249.57	1703753.33	14274043.36	39°18'27.673"N	80°46'33.922"W	9188.55	165.829	0.49	0.00	0.49	

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# Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (218 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
16339.00	90.740	160.070	6770.46	9195.78	-8996.88	2282.72	1703786.46	14273955.45	39°18'26.803"N	80°46'33.503"W	9281.95	165.763	1.53	0.03	1.53	
16435.00	91.260	161.410	6768.79	9291.65	-9087.49	2314.38	1703818.11	14273864.87	39°18'25.907"N	80°46'33.104"W	9377.57	165.712	1.50	0.54	1.40	
16529.00	91.200	161.710	6766.77	9385.44	-9176.64	2344.10	1703847.82	14273775.76	39°18'25.025"N	80°46'32.728"W	9471.30	165.671	0.33	-0.06	0.32	
16624.00	91.350	161.430	6764.66	9480.23	-9266.74	2374.13	1703877.84	14273685.69	39°18'24.134"N	80°46'32.349"W	9566.04	165.630	0.33	0.16	-0.29	
16719.00	91.230	160.830	6762.52	9575.06	-9356.62	2404.85	1703908.54	14273595.85	39°18'23.245"N	80°46'31.961"W	9660.72	165.586	0.64	-0.13	-0.63	
16814.00	91.200	159.130	6760.50	9669.97	-9445.85	2437.36	1703941.05	14273506.65	39°18'22.362"N	80°46'31.550"W	9755.25	165.531	1.79	-0.03	-1.79	
16905.00	91.230	157.500	6758.57	9760.95	-9530.39	2470.98	1703974.65	14273422.15	39°18'21.526"N	80°46'31.125"W	9845.51	165.465	1.79	0.03	-1.79	
16930.00	91.230	157.500	6758.04	9785.94	-9553.48	2480.54	1703984.21	14273399.06	39°18'21.297"N	80°46'31.004"W	9870.26	165.445	0.00	0.00	0.00	Projected MD @ TD: 16930'

HOLE & CASING SECTIONS - Ref Wellbore: Buffett Unit 2H AWB Ref Wellpath: Buffett Unit 2H AWP Proj: 16930'									
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	0.10	0.14
17.5in Open Hole	104.50	371.60	267.10	104.50	371.60	0.10	0.14	1.04	0.77
13.375in Casing Surface	24.50	371.60	347.10	24.50	371.60	0.00	0.00	1.04	0.77
12.25in Open Hole	371.60	2569.90	2198.30	371.60	2567.60	1.04	0.77	58.81	-14.60
9.625in Casing Intermediate	24.50	2569.90	2545.40	24.50	2567.60	0.00	0.00	58.81	-14.60
8.75in Open Hole	2569.90	7215.50	4645.60	2567.60	6675.27	58.81	-14.60	-561.53	-1136.32
8.5in Open Hole	7215.50	16930.00	9714.50	6675.27	6758.04	-561.53	-1136.32	-9553.48	2480.54
5.5in Casing Production	24.50	16930.00	16905.50	24.50	6758.04	0.00	0.00	-9553.48	2480.54





# Actual Wellpath Report

**Buffett Unit 2H AWP Proj: 16930'**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H AWB
Facility	Strickling Pad		

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Buffett Unit 2H BHL - Rev-2	6723.00	-9552.13	2521.39	1704025.04	14273400.42	39°18'21.309"N	80°46'30.485"W	point	
Buffett Unit 2H LP - Rev-1	6723.00	-767.36	-1045.91	1700459.16	14282181.69	39°19'48.220"N	80°47'15.603"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Buffett Unit 2H AWB    Ref Wellpath: Buffett Unit 2H AWP Proj: 16930'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	327.50	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(100'-318')	Buffett Unit 2H AWB
327.50	570.50	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(318')(381'-561')	Buffett Unit 2H AWB
570.50	2487.50	ISCWSA MWD, Rev. 4 (Standard)	03 WFT EM <12-1/4">(561')(639'-2478')	Buffett Unit 2H AWB
2487.50	7140.50	ISCWSA MWD, Rev. 4 (Standard)	04 WFT EM <8-3/4">(2478')(2595'-7131')	Buffett Unit 2H AWB
7140.50	16905.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2"> (7140.5')(7191'-16905')	Buffett Unit 2H AWB
16905.00	16930.00	Blind Drilling (std)	Projection to bit	Buffett Unit 2H AWB





## Actual Wellpath Report

Buffett Unit 2H AWP Proj: 16930'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Buffett Unit 2H
Field	Doddridge	Wellbore	Buffett Unit 2H AWP
Facility	Strickling Pad		

### COMMENTS

#### Wellpath general comments

API: 47-017-06848-0000  
 BH Job #: 9091762  
 Rig: Frontier 22  
 Duration: 03/31/18 - 04/03/18  
 Gyrodata MS Gyro <17-1/2">(100'-318')  
 Gyrodata MS Gyro <12-1/4">(318')(381'-561')  
 WFT EM <12-1/4">(561')(639'-2478')  
 WFT EM <8-3/4">(2478')(2595'-7131')  
 Burket: 7059'MD / 6604'TVD  
 Tully: 7126'MD / 6636'TVD  
 BH AT Curve <8-1/2"> (7140.5')(7191'-16905')  
 Hamilton: 7212'MD / 6674'TVD  
 POE Marcellus: 7236'MD / 6683'TVD  
 Projected MD @ TD: 16930'

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