



ANTERO RESOURCES CORPORATION



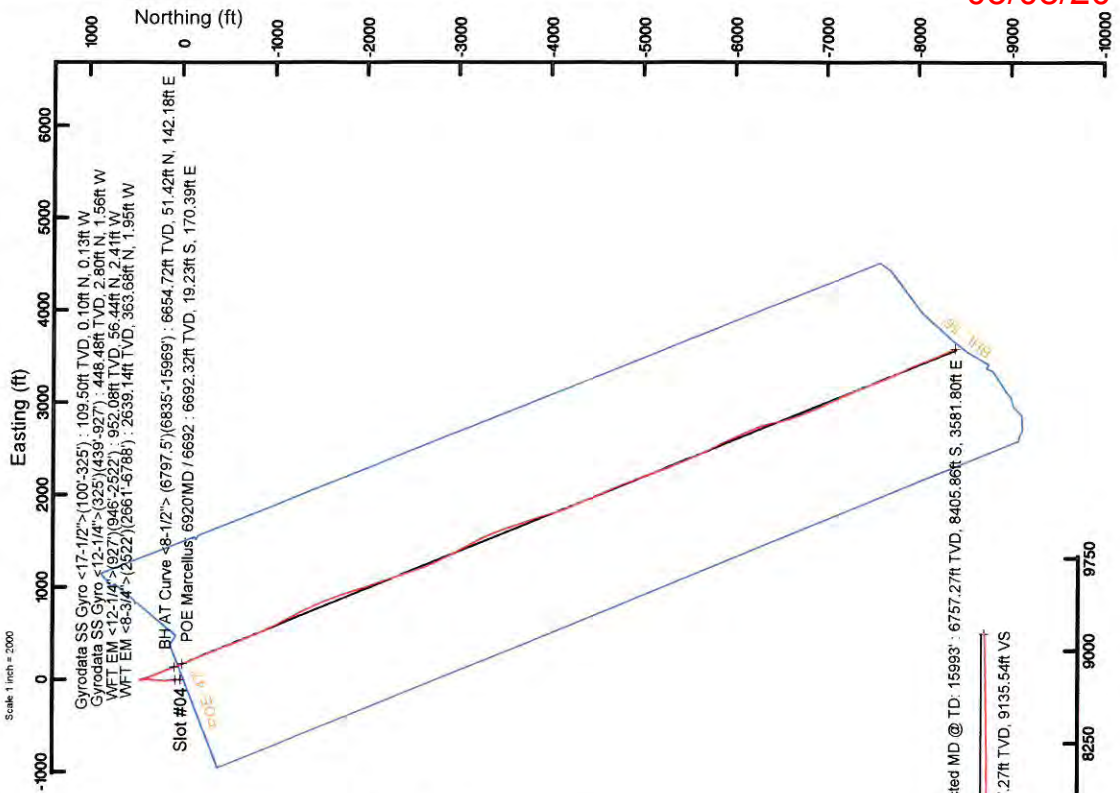
Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Strickling Pad

Slot: Slot #04
 Well: Jimmy Unit 2H
 Wellbore: Jimmy Unit 2H PWB

Plot reference wellpath is Jimmy Unit 2H PWB 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 #04): -1065 feet	Created by: mcrrebr on 2018-05-21
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Dept

Well Data	
Slot	Well
Slot #04	Jimmy Unit 2H
Slot #04	Jimmy Unit 2H
	Wellbore
	Jimmy Unit 2H AWP
	Jimmy Unit 2H PWB
	Jimmy Unit 2H PWB Rev-A.0

API: 47-017-06790-0000
 BH Job #: 9106620
 Rig: Frontier 22
 Duration: 04/12/18 - 04/15/18



Gyrodata SS Gyro <17-1/2>(100-325) : 0.22° Inc, 109.50ft MD, 109.50ft TVD, -0.14ft VS
 Gyrodata SS Gyro <12-1/4>(927)(946-2522) : 1.20° Inc, 448.50ft MD, 448.48ft TVD, -3.18ft VS
 WFT EM <12-1/4>(927)(946-2522) : 10.29° Inc, 955.50ft MD, 952.08ft TVD, -53.23ft VS
 WFT EM <8-3/4>(2522)(2661-6788) : 10.67° Inc, 2670.50ft MD, 2639.14ft TVD, -337.92ft VS

User specified Dip: 66.56° Field: 52054 nT
 Magnetic North is 7.65 degrees West of True North (at 4/11/2018)
 To correct azimuth from True to Grid subtract 0.14 degrees
 To correct azimuth from Magnetic to Grid subtract 7.78 degrees

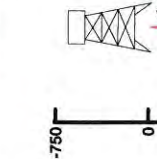
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local E (ft)	Local N (ft)	DLS (°/100ft)	VS (ft)
Tie On	6797.50	55.030	158.700	6634.21	80.71	130.93	2.71	-25.79
Proj. To Bottom	6871.50	60.080	157.680	6673.89	22.76	154.13	6.92	36.64
POE	6915.53	65.560	157.000	6694.00	-13.37	169.22	12.52	75.79
Landing PL	7110.71	90.000	157.000	6735.00	-187.63	243.19	12.52	265.07
End of 3D Arc	7150.39	90.000	156.207	6735.00	-224.05	258.95	2.00	304.74
On Azimuth	7240.01	90.000	158.002	6735.00	-305.61	293.82	2.00	394.35
BHL	15982.56	90.000	158.002	6735.00	-8412.67	3568.59	0.00	9136.90

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 #04	-58.91	1701524.280	39°19'55.810"N	80°47'02.020"W
Comment				
Jimmy Unit 2H				
Frontier 22 (RKB) to Ground level (At Slot: Slot #04)			24.5ft	
Frontier 22 (RKB) to Mean Sea Level			-1065ft	
Frontier 22 (RKB) to Mean Sea Level			1089.5ft	

BHAT Curve <8-1/2>(6797.5)(6835-15969) : 58.63° Inc, 6895.00ft MD, 6654.72ft TVD, 5.56ft VS
 Mean Sea Level to Ground level (At Slot: Slot #04)
 POE Marcellus: 6920MD / 6892 : 68.65° Inc, 6920.00ft MD, 6692.32ft TVD, 81.06ft VS
 Projected MD @ TD: 15993 : 91.38° Inc, 15993.00ft MD, 6757.27ft TVD, 9135.54ft VS



Projected MD @ TD: 15993 : 91.38° Inc, 15993.00ft MD, 6757.27ft TVD, 9135.54ft VS
 Azimuth 158.00° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'

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REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Slot #04
Area	Doddridge Co., WV	Jimmy Unit 2H
Field	Doddridge	Jimmy Unit 2H AWB
Facility	Strickling Pad	

REPORT SETUP INFORMATION		
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System
North Reference	Grid	User
Scale	0.999604	Report Generated
Convergence at slot	0.14° East	Database/Source file

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-8.23	-58.91	1701524.28	14282951.83	39°19'55.810"N	80°47'02.020"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
Horizontal Reference Pt	Slot	24.50ft
Vertical Reference Pt	Frontier 22 (RKB)	1089.50ft
MD Reference Pt	Frontier 22 (RKB)	24.50ft
Field Vertical Reference	Mean Sea Level	N 0.00, E 0.00 ft
		158.00°

03/08/2019



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Jimmy Unit 2H
Field	Doddridge	Wellbore	Jimmy Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (198 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00H	0.000	307.900	0.00	0.00	0.00	0.00	1701524.28	14282951.83	39°19'55.810"N	80°47'02.020"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	307.900	24.50	0.00	0.00	0.00	1701524.28	14282951.83	39°19'55.810"N	80°47'02.020"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.230	307.900	109.50	-0.14	0.10	-0.13	1701524.15	14282951.93	39°19'55.811"N	80°47'02.022"W	0.16	307.900	0.26	0.26	-61.29	Gyrodata SS Gyro <17-1/2">(100'-325')
209.50	0.330	336.210	209.50	-0.60	0.48	-0.40	1701523.88	14282952.31	39°19'55.815"N	80°47'02.025"W	0.62	320.546	0.17	0.11	28.31	
309.50	0.580	316.670	309.50	-1.35	1.11	-0.86	1701523.42	14282952.94	39°19'55.821"N	80°47'02.031"W	1.41	322.319	0.29	0.25	-19.54	
334.50	0.480	316.790	334.49	-1.57	1.28	-1.02	1701523.26	14282953.11	39°19'55.823"N	80°47'02.033"W	1.64	321.530	0.40	-0.40	0.48	
448.50	1.200	349.770	448.48	-3.18	2.80	-1.77	1701522.72	14282954.63	39°19'55.838"N	80°47'02.040"W	3.21	330.956	0.74	0.63	28.93	Gyrodata SS Gyro <12-1/4">(325'-(439'-927'))
539.50	2.980	358.940	539.42	-6.33	6.11	-1.51	1701522.51	14282957.94	39°19'55.870"N	80°47'02.042"W	6.36	343.835	1.98	1.96	10.08	
629.50	5.100	1.370	629.19	-12.18	12.45	-1.72	1701522.56	14282964.27	39°19'55.933"N	80°47'02.042"W	12.56	352.141	2.36	2.36	2.70	
719.50	6.550	1.250	718.72	-20.57	21.58	-1.51	1701522.71	14282973.40	39°19'56.023"N	80°47'02.039"W	21.63	355.996	1.61	1.61	-0.13	
809.50	8.040	0.630	807.99	-31.10	33.00	-1.33	1701522.95	14282984.82	39°19'56.136"N	80°47'02.036"W	33.03	357.694	1.66	1.66	-0.69	
936.50	10.180	355.470	933.38	-50.00	53.08	-2.12	1701522.16	14283004.88	39°19'56.335"N	80°47'02.045"W	53.12	357.715	1.80	1.69	-4.06	
955.50	10.290	354.580	952.08	-53.23	56.44	-2.41	1701521.87	14283008.25	39°19'56.368"N	80°47'02.049"W	56.49	357.554	1.01	0.58	-4.68	WFT EM <12-1/4">(927'-(946'-2522'))
1050.50	9.930	353.410	1045.61	-69.26	73.02	-4.15	1701520.13	14283024.82	39°19'56.532"N	80°47'02.071"W	73.14	356.745	0.44	-0.38	-1.23	
1144.50	9.830	355.620	1138.21	-84.72	89.07	-5.70	1701518.59	14283040.87	39°19'56.691"N	80°47'02.090"W	89.26	356.341	0.42	-0.11	2.36	
1239.50	9.980	358.200	1231.80	-100.18	105.39	-6.57	1701517.71	14283057.18	39°19'56.852"N	80°47'02.100"W	105.59	356.431	0.49	0.16	2.72	
1333.50	10.710	357.410	1324.27	-116.06	122.26	-7.22	1701517.06	14283074.04	39°19'57.019"N	80°47'02.108"W	122.47	356.618	0.79	0.78	-0.84	
1428.50	10.150	353.030	1417.70	-132.47	139.38	-8.64	1701515.64	14283091.16	39°19'57.188"N	80°47'02.126"W	139.65	356.453	1.02	-0.59	-4.61	
1523.50	9.800	352.970	1511.26	-148.36	155.72	-10.64	1701513.64	14283107.48	39°19'57.349"N	80°47'02.151"W	156.08	356.090	0.37	-0.37	-0.06	
1617.50	10.500	1.790	1603.80	-163.94	172.22	-11.36	1701512.92	14283123.98	39°19'57.512"N	80°47'02.159"W	172.59	356.225	1.80	0.74	9.32	
1711.50	10.360	6.470	1696.25	-179.21	189.18	-10.15	1701514.13	14283140.93	39°19'57.680"N	80°47'02.143"W	189.45	356.928	0.92	-0.15	5.04	
1806.50	11.330	6.700	1789.55	-194.90	206.93	-8.10	1701516.18	14283158.68	39°19'57.855"N	80°47'02.117"W	207.09	357.758	1.02	1.02	0.24	
1900.50	10.570	1.500	1881.84	-210.91	224.72	-6.80	1701517.48	14283176.46	39°19'58.031"N	80°47'02.100"W	224.83	358.267	1.33	-0.81	-5.53	
1995.50	10.960	357.550	1975.17	-227.41	242.46	-6.96	1701517.33	14283194.19	39°19'58.207"N	80°47'02.101"W	242.56	358.356	0.88	0.41	-4.16	
2090.50	10.850	1.790	2068.45	-244.10	260.42	-7.06	1701517.22	14283212.14	39°19'58.384"N	80°47'02.102"W	260.51	358.446	0.85	-0.12	4.46	
2185.50	10.180	6.680	2161.86	-259.65	277.69	-5.81	1701518.47	14283229.41	39°19'58.555"N	80°47'02.085"W	277.75	358.802	1.17	-0.71	5.15	
2279.50	9.830	5.080	2254.43	-274.08	293.94	-4.13	1701520.15	14283245.65	39°19'58.715"N	80°47'02.064"W	293.97	359.195	0.48	-0.37	-1.70	
2373.50	9.850	3.870	2347.05	-288.46	309.95	-2.88	1701521.40	14283261.66	39°19'58.874"N	80°47'02.047"W	309.96	359.468	0.22	0.02	-1.29	
2468.50	10.450	2.260	2440.56	-303.63	326.67	-1.99	1701522.29	14283278.37	39°19'59.039"N	80°47'02.035"W	326.67	359.651	0.70	0.63	-1.69	
2531.50	10.520	0.790	2502.51	-314.14	338.13	-1.69	1701522.60	14283288.82	39°19'59.152"N	80°47'02.031"W	338.13	359.714	0.44	0.11	-2.33	



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Jimmy Unit 2H
Field	Doddridge	Wellbore	Jimmy Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (198 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 (P/100ft)	Build Rate (P/100ft)	Turn Rate (P/100ft)	Comments
2670.50	10.670	358.060	2639.14	-337.92	363.68	-1.95	1701522.33	14283315.36	39°19'59.405"N	80°47'02.034"W	363.68	359.693	0.38	0.11	-1.96	WFT EM -8-3/4" > (2522) (2661-6788)
2733.50	10.340	356.030	2701.08	-348.78	375.14	-2.53	1701521.75	14283326.83	39°19'59.518"N	80°47'02.041"W	375.15	359.613	0.79	-0.52	-3.22	
2828.50	8.120	354.480	2794.85	-363.32	390.33	-3.77	1701520.51	14283342.00	39°19'59.668"N	80°47'02.056"W	390.35	359.447	2.35	-2.34	-1.63	
2922.50	6.800	357.950	2888.05	-374.92	402.50	-4.62	1701519.66	14283354.17	39°19'59.788"N	80°47'02.067"W	402.52	359.343	1.48	-1.40	3.59	
3017.50	5.210	3.380	2982.53	-384.11	412.43	-4.57	1701519.71	14283364.09	39°19'59.886"N	80°47'02.066"W	412.45	359.365	1.78	-1.67	5.82	
3111.50	3.980	6.710	3076.22	-390.83	419.93	-3.94	1701520.34	14283371.59	39°19'59.961"N	80°47'02.057"W	419.95	359.462	1.34	-1.31	3.54	
3206.50	2.000	358.400	3171.09	-395.27	424.86	-3.60	1701520.68	14283376.52	39°20'00.009"N	80°47'02.053"W	424.87	359.514	2.13	-2.08	-8.75	
3300.50	0.210	330.400	3265.07	-396.98	426.65	-3.73	1701520.55	14283378.31	39°20'00.027"N	80°47'02.057"W	426.66	359.499	1.93	-1.90	-29.79	
3394.50	0.170	260.080	3359.07	-397.18	426.77	-3.96	1701520.33	14283378.43	39°20'00.028"N	80°47'02.057"W	426.79	359.469	0.24	-0.04	-74.81	
3494.50	0.130	279.580	3459.07	-397.27	426.77	-4.21	1701520.07	14283378.43	39°20'00.031"N	80°47'02.061"W	426.79	359.434	0.06	-0.04	19.50	
3588.50	0.320	331.880	3553.07	-397.59	427.02	-4.44	1701519.84	14283378.68	39°20'00.036"N	80°47'02.064"W	427.04	359.404	0.28	0.20	55.64	
3682.50	0.420	336.730	3647.07	-398.19	427.56	-4.70	1701519.58	14283379.22	39°20'00.036"N	80°47'02.067"W	427.59	359.370	0.11	0.11	5.16	
3776.50	0.350	295.230	3741.06	-398.75	428.00	-5.10	1701519.18	14283379.66	39°20'00.040"N	80°47'02.072"W	428.03	359.317	0.30	-0.07	-44.15	
3870.50	0.610	319.720	3835.06	-399.43	428.51	-5.68	1701518.60	14283380.17	39°20'00.045"N	80°47'02.079"W	428.55	359.240	0.35	0.28	26.05	
3963.50	0.560	324.120	3928.06	-400.35	429.25	-6.27	1701518.01	14283380.91	39°20'00.053"N	80°47'02.087"W	429.30	359.163	0.07	-0.05	4.73	
4058.50	0.660	323.370	4023.05	-401.33	430.07	-6.87	1701517.42	14283381.73	39°20'00.061"N	80°47'02.094"W	430.12	359.085	0.11	0.11	-0.79	
4152.50	0.690	335.240	4117.04	-402.41	431.02	-7.43	1701516.86	14283382.68	39°20'00.070"N	80°47'02.101"W	431.08	359.013	0.15	0.03	12.63	
4246.50	0.770	340.230	4211.04	-403.61	432.13	-7.88	1701516.41	14283383.78	39°20'00.081"N	80°47'02.107"W	432.20	358.956	0.11	0.09	5.31	
4341.50	0.620	343.790	4306.03	-404.76	433.22	-8.24	1701516.05	14283384.88	39°20'00.092"N	80°47'02.112"W	433.30	358.911	0.16	-0.16	3.75	
4435.50	0.650	12.160	4400.02	-405.71	434.23	-8.27	1701516.02	14283385.89	39°20'00.102"N	80°47'02.112"W	434.31	358.909	0.33	0.03	30.18	
4529.50	0.630	10.150	4494.02	-406.59	435.26	-8.06	1701516.22	14283386.92	39°20'00.112"N	80°47'02.109"W	435.33	358.939	0.03	-0.02	-2.14	
4623.50	0.640	36.200	4588.01	-407.30	436.19	-7.66	1701516.62	14283387.85	39°20'00.121"N	80°47'02.104"W	436.26	358.984	0.30	0.01	27.71	
4717.50	0.600	31.380	4682.01	-407.87	437.04	-7.10	1701517.19	14283388.69	39°20'00.130"N	80°47'02.097"W	437.09	359.070	0.07	-0.04	-5.13	
4812.50	0.640	43.650	4777.00	-408.39	437.84	-6.47	1701517.81	14283389.50	39°20'00.138"N	80°47'02.089"W	437.89	359.153	0.15	0.04	12.92	
4907.50	0.700	45.280	4871.99	-408.83	438.64	-5.69	1701518.59	14283390.29	39°20'00.145"N	80°47'02.079"W	438.67	359.257	0.07	0.06	1.72	
5001.50	0.800	53.780	4965.99	-409.21	439.43	-4.75	1701519.53	14283391.08	39°20'00.153"N	80°47'02.067"W	439.45	359.380	0.16	0.11	9.04	
5096.50	0.560	147.220	5060.98	-408.92	439.43	-3.97	1701520.31	14283391.08	39°20'00.153"N	80°47'02.057"W	439.45	359.483	1.06	-0.25	98.36	
5190.50	0.950	161.760	5154.97	-407.69	438.30	-3.48	1701520.81	14283389.96	39°20'00.142"N	80°47'02.051"W	438.32	359.546	0.46	0.41	15.47	
5285.50	0.950	154.810	5249.96	-406.12	436.84	-2.89	1701521.39	14283388.50	39°20'00.128"N	80°47'02.044"W	436.85	359.620	0.12	0.00	-7.32	
5379.50	1.060	143.890	5343.95	-404.50	435.44	-2.05	1701522.23	14283387.09	39°20'00.114"N	80°47'02.033"W	435.44	359.730	0.23	0.12	-11.62	



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #04
Operator	ANTERO RESOURCES CORPORATION	Well	Jimmy Unit 2H
Area	Doddridge Co., WV	Wellbore	Jimmy Unit 2H AWB
Field	Doddridge		
Facility	Strickling Pad		

WELLPATH DATA (198 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
5474.50	1.040	137.770	5438.93	-402.84	434.09	-0.95	1701523.33	14283385.74	39°20'00.100"N	80°47'02.019"W	434.09	359.874	0.12	-0.02	-6.44	
5568.50	0.250	333.130	5532.93	-402.24	433.64	-0.47	1701523.81	14283385.30	39°20'00.096"N	80°47'02.013"W	433.64	359.938	1.36	-0.84	-175.15	
5663.50	0.550	327.210	5627.92	-402.89	434.21	-0.81	1701523.47	14283385.86	39°20'00.102"N	80°47'02.017"W	434.21	359.893	0.32	0.32	-6.23	
5758.50	0.390	340.980	5722.92	-403.66	434.90	-1.16	1701523.12	14283386.55	39°20'00.108"N	80°47'02.022"W	434.90	359.847	0.21	-0.17	14.49	
5852.50	0.440	322.090	5816.92	-404.33	435.48	-1.49	1701522.79	14283387.14	39°20'00.114"N	80°47'02.026"W	435.48	359.804	0.15	0.05	-20.10	
5946.50	0.730	153.900	5910.92	-404.08	435.23	-1.45	1701522.83	14283386.89	39°20'00.112"N	80°47'02.025"W	435.23	359.809	1.24	0.31	-178.93	
6041.50	4.020	158.290	6005.82	-400.15	431.59	0.05	1701524.33	14283383.25	39°20'00.076"N	80°47'02.006"W	431.59	0.007	3.47	3.46	4.62	
6072.50	6.990	160.470	6036.68	-397.17	428.80	1.08	1701525.36	14283380.46	39°20'00.048"N	80°47'01.993"W	428.80	0.145	9.60	9.58	7.03	
6103.50	9.880	163.950	6067.34	-392.64	424.47	2.45	1701526.73	14283376.13	39°20'00.005"N	80°47'01.976"W	424.48	0.330	9.46	9.32	11.23	
6135.50	12.820	162.550	6098.71	-386.37	418.44	4.27	1701528.55	14283370.11	39°19'59.946"N	80°47'01.963"W	418.46	0.585	9.23	9.19	-4.37	
6166.50	15.230	164.170	6128.78	-378.89	411.24	6.41	1701530.69	14283362.91	39°19'59.874"N	80°47'01.926"W	411.29	0.894	7.88	7.77	5.23	
6198.50	17.390	164.510	6159.49	-369.96	402.59	8.84	1701533.12	14283354.26	39°19'59.789"N	80°47'01.895"W	402.69	1.258	6.76	6.75	1.06	
6229.50	19.630	165.410	6188.89	-360.20	393.08	11.39	1701535.66	14283344.76	39°19'59.695"N	80°47'01.863"W	393.25	1.659	7.28	7.23	2.90	
6261.50	21.510	165.630	6218.84	-349.05	382.20	14.20	1701538.47	14283333.88	39°19'59.587"N	80°47'01.828"W	382.46	2.127	5.88	5.87	0.69	
6292.50	23.010	164.880	6247.53	-337.40	370.84	17.19	1701541.46	14283322.53	39°19'59.475"N	80°47'01.790"W	371.24	2.654	4.92	4.84	-2.42	
6324.50	23.820	163.900	6276.90	-324.76	358.60	20.61	1701544.88	14283310.28	39°19'59.354"N	80°47'01.747"W	359.19	3.290	2.81	2.53	-3.06	
6355.50	25.020	162.580	6305.12	-312.00	346.33	24.31	1701548.58	14283298.02	39°19'59.232"N	80°47'01.700"W	347.18	4.015	4.25	3.87	-4.26	
6387.50	27.020	161.180	6333.88	-298.00	332.99	28.68	1701552.95	14283284.69	39°19'59.100"N	80°47'01.645"W	334.22	4.923	6.54	6.25	-4.37	
6418.50	30.230	159.280	6361.09	-283.16	319.02	33.72	1701557.98	14283270.72	39°19'58.962"N	80°47'01.581"W	320.80	6.033	10.76	10.35	-6.13	
6450.50	32.700	157.450	6388.38	-266.46	303.50	39.88	1701564.15	14283255.21	39°19'58.809"N	80°47'01.503"W	306.11	7.486	8.28	7.72	-5.72	
6481.50	34.370	156.250	6414.22	-249.34	287.76	46.62	1701570.88	14283239.47	39°19'58.653"N	80°47'01.418"W	291.51	9.202	5.80	5.39	-3.87	
6513.50	35.820	155.960	6440.40	-230.95	270.94	54.07	1701578.33	14283222.66	39°19'58.487"N	80°47'01.324"W	276.28	11.286	4.56	4.53	-0.91	
6545.50	38.150	156.810	6465.96	-211.71	253.30	61.78	1701586.03	14283205.03	39°19'58.312"N	80°47'01.226"W	260.72	13.707	7.45	7.28	2.66	
6576.50	40.280	157.810	6489.98	-192.11	235.22	69.34	1701593.59	14283186.95	39°19'58.133"N	80°47'01.130"W	245.22	16.424	7.17	6.87	3.23	
6608.50	42.170	158.160	6514.05	-171.03	215.66	77.24	1701601.49	14283167.41	39°19'57.940"N	80°47'01.031"W	229.08	19.705	5.95	5.91	1.09	
6639.50	45.100	158.180	6536.48	-149.64	195.81	85.19	1701609.44	14283147.56	39°19'57.743"N	80°47'00.930"W	213.54	23.513	9.45	9.45	0.06	
6670.50	48.150	158.960	6557.77	-127.11	174.84	93.42	1701617.66	14283126.60	39°19'57.536"N	80°47'00.826"W	198.23	28.117	10.01	9.84	2.52	
6702.50	51.650	158.570	6578.38	-102.64	152.02	102.29	1701626.53	14283103.79	39°19'57.310"N	80°47'00.714"W	183.23	33.934	10.98	10.94	-1.22	
6733.50	54.070	157.920	6597.09	-77.93	129.07	111.45	1701635.68	14283080.85	39°19'57.083"N	80°47'00.598"W	170.53	40.808	7.98	7.81	-2.10	
6765.50	54.560	157.810	6615.76	-51.94	105.00	121.24	1701645.47	14283056.79	39°19'56.845"N	80°47'00.474"W	160.39	49.106	1.56	1.53	-0.34	



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Jimmy Unit 2H
Field	Doddridge	Wellbore	Jimmy Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (198 stations) i = 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)	Comments
6768.00	54.596	157.880	6617.21	-49.90	103.11	122.01	1701646.24	14283054.90	39°19'56.826"N	80°47'00.464"W	159.74	49.798	2.71	1.46	2.80	Burket: 6768MD / 6617TVD
6797.50	55.030	158.700	6634.21	-25.79	80.71	130.93	1701655.15	14283032.51	39°19'56.605"N	80°47'00.351"W	153.81	58.347	2.71	1.47	2.78	
6816.00	56.808	158.982	6644.57	-10.47	66.42	136.46	1701660.68	14283018.23	39°19'56.463"N	80°47'00.281"W	151.76	64.044	9.68	9.60	1.52	Tully: 6816MD / 6644TVD
6835.00	58.630	159.260	6654.72	5.59	51.42	142.18	1701666.40	14283003.23	39°19'56.315"N	80°47'00.209"W	151.19	70.119	9.68	9.60	1.46	BH AT Curve <8-1/2"> (6797.5) \{6835'-15969}
6853.00	60.190	159.090	6663.88	21.08	36.93	147.69	1701671.91	14282988.75	39°19'56.172"N	80°47'00.139"W	152.24	75.960	8.70	8.67	-0.94	
6894.00	65.861	157.721	6682.47	57.60	2.98	161.14	1701685.36	14282954.81	39°19'55.836"N	80°46'59.969"W	161.17	88.941	14.15	13.83	-3.34	Hamilton: 6894MD / 6682TVD
6901.00	66.830	157.500	6685.28	64.02	-2.95	163.58	1701687.80	14282948.88	39°19'55.777"N	80°46'59.938"W	163.61	91.033	14.15	13.85	-3.16	
6920.00	69.663	157.157	6692.32	81.66	-19.23	170.39	1701694.60	14282932.61	39°19'55.616"N	80°46'59.852"W	171.47	96.440	15.00	14.91	-1.81	POE Marcellus: 6920MD / 6692
6947.00	73.690	156.690	6700.81	107.28	-42.81	180.43	1701704.64	14282909.04	39°19'55.383"N	80°46'59.725"W	185.44	103.346	15.00	14.91	-1.73	
6994.00	75.130	156.350	6713.44	152.53	-84.33	198.47	1701722.67	14282867.54	39°19'54.972"N	80°46'59.497"W	215.64	113.020	3.14	3.06	-0.72	
7042.00	78.000	156.790	6724.59	199.20	-127.16	217.03	1701741.22	14282824.72	39°19'54.548"N	80°46'59.262"W	251.54	120.367	6.05	5.98	0.92	
7069.00	83.500	157.360	6732.14	245.57	-169.87	235.09	1701759.28	14282782.03	39°19'54.126"N	80°46'59.033"W	290.04	125.851	11.76	11.70	1.21	
7137.00	89.110	158.070	6735.23	293.45	-214.17	253.25	1701777.43	14282737.74	39°19'53.687"N	80°46'58.804"W	331.67	130.222	11.78	11.69	1.48	
7231.00	89.320	157.480	6736.52	367.44	-301.18	288.80	1701812.96	14282650.77	39°19'52.826"N	80°46'58.354"W	417.27	136.202	0.67	0.22	-0.63	
7326.00	89.540	158.670	6738.59	577.42	-477.29	360.08	1701884.22	14282474.73	39°19'51.084"N	80°46'57.452"W	506.87	140.134	0.39	0.00	0.39	
7421.00	89.310	158.960	6738.72	671.41	-564.93	394.05	1701918.18	14282387.12	39°19'50.217"N	80°46'57.023"W	597.88	142.968	0.89	0.23	0.86	
7515.00	89.570	157.120	6739.53	860.39	-739.58	466.26	1701990.35	14282212.54	39°19'48.489"N	80°46'56.577"W	688.79	145.103	0.88	0.82	0.31	
7704.00	89.570	157.120	6739.53	860.39	-739.58	466.26	1701990.35	14282212.54	39°19'48.489"N	80°46'56.577"W	780.69	146.643	2.19	-0.79	-2.04	
7798.00	89.570	156.570	6740.23	954.37	-826.01	503.22	1702027.30	14282126.15	39°19'47.634"N	80°46'55.641"W	874.29	147.771	0.08	0.00	0.08	
7893.00	89.540	156.630	6740.97	1049.31	-912.86	541.71	1702065.77	14282039.34	39°19'46.775"N	80°46'55.154"W	967.22	148.649	0.59	0.00	-0.59	
7988.00	89.720	154.660	6741.59	1144.19	-999.05	581.64	1702105.69	14281953.17	39°19'45.922"N	80°46'54.649"W	1061.49	149.314	0.99	-0.03	-0.99	
8082.00	89.260	152.920	6742.42	1237.93	-1083.38	623.15	1702147.18	14281868.88	39°19'45.087"N	80°46'54.123"W	1156.03	149.793	1.04	0.19	-1.02	
8177.00	89.380	152.550	6743.55	1332.52	-1167.82	666.67	1702190.68	14281784.47	39°19'44.252"N	80°46'53.572"W	1249.81	150.093	1.91	-0.49	-1.85	
8271.00	89.350	153.210	6744.59	1426.14	-1251.48	708.51	1702233.51	14281700.85	39°19'43.424"N	80°46'53.029"W	1344.71	150.280	0.41	0.13	-0.39	
8366.00	89.380	154.600	6745.64	1520.89	-1336.79	751.30	1702275.28	14281615.57	39°19'42.580"N	80°46'52.500"W	1438.62	150.449	0.70	-0.03	0.70	
8461.00	89.350	155.260	6746.70	1615.75	-1422.83	791.55	1702315.51	14281529.56	39°19'41.728"N	80°46'51.990"W	1533.45	150.663	1.46	0.03	1.46	
8554.00	89.380	156.510	6747.73	1708.68	-1507.71	829.54	1702353.49	14281444.72	39°19'40.889"N	80°46'51.510"W	1628.19	150.912	0.70	-0.03	0.69	
8649.00	89.230	159.470	6748.88	1803.66	-1595.77	865.14	1702389.08	14281356.69	39°19'40.077"N	80°46'51.059"W	1720.85	151.180	1.34	0.03	1.34	
8743.00	89.600	160.430	6749.84	1897.60	-1684.07	897.36	1702421.29	14281268.43	39°19'39.144"N	80°46'50.652"W	1815.20	151.536	3.12	-0.16	3.12	
											1908.23	151.949	1.09	0.39	1.02	



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #04
ANTERO RESOURCES CORPORATION	Well	Jimmy Unit 2H
Area	Wellbore	Jimmy Unit 2H AWB
Field		
Facility		

WELLPATH DATA (198 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
8839.00	89.450	161.810	6750.64	1993.45	-1774.90	928.43	1702452.34	14281177.64	39°19'38.246"N	80°46'50.260"W	2003.06	152.386	1.45	-0.16	1.44	
8934.00	89.480	162.640	6751.52	2088.19	-1865.36	957.43	1702481.33	14281087.21	39°19'37.351"N	80°46'49.893"W	2096.72	152.830	0.87	0.03	0.87	
9029.00	89.280	161.700	6752.97	2182.93	-1955.79	986.51	1702510.40	14280996.82	39°19'36.456"N	80°46'49.526"W	2190.51	153.233	1.02	-0.23	-0.99	
9123.00	89.540	161.350	6753.55	2276.75	-2044.94	1016.30	1702540.18	14280907.70	39°19'35.574"N	80°46'48.150"W	2283.56	153.573	0.48	0.30	-0.37	
9218.00	89.320	160.620	6754.50	2371.61	-2134.75	1047.25	1702571.11	14280817.93	39°19'34.686"N	80°46'46.759"W	2377.79	153.869	0.80	-0.23	-0.77	
9313.00	89.420	161.740	6755.54	2466.46	-2224.66	1077.89	1702601.75	14280728.05	39°19'33.797"N	80°46'48.371"W	2472.04	154.149	1.18	0.11	1.18	
9408.00	89.290	161.910	6756.61	2561.24	-2314.92	1107.52	1702631.20	14280637.83	39°19'32.904"N	80°46'47.997"W	2566.21	154.432	0.23	-0.14	0.18	
9503.00	89.420	161.470	6757.68	2656.04	-2405.10	1137.37	1702661.12	14280547.68	39°19'32.012"N	80°46'47.620"W	2660.47	154.691	0.48	0.14	-0.46	
9598.00	89.380	160.720	6758.68	2750.89	-2494.97	1168.15	1702691.96	14280457.85	39°19'31.123"N	80°46'47.231"W	2754.90	154.911	0.79	-0.04	-0.79	
9693.00	89.420	159.900	6759.67	2845.81	-2584.41	1200.15	1702723.95	14280368.45	39°19'30.238"N	80°46'46.827"W	2849.48	155.091	0.86	0.04	-0.86	
9788.00	89.880	158.790	6760.25	2940.78	-2673.30	1233.66	1702757.45	14280279.59	39°19'29.359"N	80°46'46.403"W	2944.23	155.228	1.26	0.48	-1.17	
9883.00	89.140	154.980	6761.06	3035.74	-2760.66	1270.95	1702794.72	14280192.27	39°19'28.494"N	80°46'45.931"W	3039.17	155.280	4.03	-0.78	-4.01	
9979.00	89.320	155.130	6762.35	3131.61	-2847.69	1311.43	1702835.19	14280105.27	39°19'27.633"N	80°46'45.419"W	3135.16	155.273	0.24	0.19	0.16	
10074.00	89.350	153.330	6763.46	3226.39	-2933.23	1352.73	1702876.47	14280019.76	39°19'26.787"N	80°46'44.896"W	3230.13	155.242	1.89	0.03	-1.89	
10168.00	89.140	151.100	6764.69	3319.90	-3016.38	1396.54	1702920.27	14279936.65	39°19'25.964"N	80°46'44.341"W	3323.99	155.157	2.38	-0.22	-2.37	
10263.00	88.800	149.840	6766.40	3414.04	-3098.95	1443.50	1702967.21	14279854.12	39°19'25.147"N	80°46'43.746"W	3418.65	155.024	1.58	-0.36	-1.54	
10358.00	89.290	151.220	6767.99	3508.19	-3181.56	1490.37	1703014.06	14279771.54	39°19'24.329"N	80°46'43.152"W	3513.34	154.900	1.74	0.52	1.66	
10453.00	89.320	154.320	6768.14	3602.78	-3266.01	1533.83	1703057.50	14279687.50	39°19'23.493"N	80°46'42.602"W	3608.25	154.844	3.26	0.03	3.26	
10548.00	89.290	157.380	6770.29	3697.69	-3352.68	1572.69	1703096.35	14279600.48	39°19'22.636"N	80°46'42.110"W	3703.22	154.869	3.22	-0.03	3.22	
10642.00	89.260	159.340	6771.48	3791.68	-3440.05	1607.35	1703130.99	14279513.15	39°19'21.771"N	80°46'41.672"W	3797.04	154.956	2.09	-0.03	2.09	
10737.00	89.320	161.640	6772.66	3886.58	-3529.58	1639.08	1703162.70	14279423.66	39°19'20.886"N	80°46'41.271"W	3891.59	155.091	2.42	0.06	2.42	
10830.00	88.980	161.090	6774.04	3979.41	-3617.69	1668.79	1703192.41	14279335.58	39°19'20.014"N	80°46'40.896"W	3984.04	155.237	0.70	-0.37	-0.59	
10925.00	89.540	161.490	6775.26	4074.24	-3707.66	1699.26	1703222.86	14279245.64	39°19'19.124"N	80°46'40.511"W	4078.51	155.378	0.72	0.59	0.42	
11020.00	89.380	161.330	6776.16	4169.07	-3797.70	1729.54	1703253.14	14279155.64	39°19'18.234"N	80°46'40.128"W	4172.99	155.515	0.24	-0.17	-0.17	
11115.00	89.570	162.910	6777.03	4263.82	-3888.11	1758.71	1703283.29	14279065.27	39°19'17.339"N	80°46'39.760"W	4267.37	155.661	1.68	0.20	1.66	
11210.00	89.720	163.490	6777.62	4358.42	-3979.05	1786.17	1703309.74	14278974.36	39°19'16.440"N	80°46'39.414"W	4361.56	155.825	0.63	0.16	0.61	
11306.00	90.000	162.410	6777.85	4454.06	-4070.83	1814.31	1703337.87	14278882.62	39°19'15.532"N	80°46'39.058"W	4456.84	155.978	1.16	0.29	-1.12	
11400.00	89.110	157.660	6778.58	4547.97	-4159.15	1846.40	1703369.95	14278794.33	39°19'14.658"N	80°46'38.653"W	4550.58	156.062	5.14	-0.99	-5.05	
11495.00	89.420	157.290	6779.80	4642.96	-4246.90	1882.79	1703406.32	14278706.62	39°19'13.790"N	80°46'38.192"W	4645.54	156.091	0.51	0.33	-0.39	
11590.00	89.290	156.870	6780.87	4737.94	-4334.39	1919.78	1703443.30	14278619.16	39°19'12.924"N	80°46'37.725"W	4740.52	156.111	0.46	-0.14	-0.44	



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Jimmy Unit 2H
Field	Doddridge	Wellbore	Jimmy Unit 2H AWB
Facility	Strickling Pad		

WELLPATH DATA (198 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
11685.00	89.350	156.560	6782.00	4832.91	-4421.65	1957.34	1703480.84	14278531.94	39°19'12.067"N	80°46'37.249"W	4835.51	156.122	0.33	0.06	-0.33	
11780.00	89.450	156.890	6782.99	4927.88	-4508.91	1994.87	1703518.36	14278444.71	39°19'11.198"N	80°46'36.775"W	4930.50	156.134	0.36	0.11	0.36	
11875.00	89.570	156.670	6783.81	5022.86	-4596.21	2032.33	1703555.80	14278357.44	39°19'10.334"N	80°46'36.301"W	5025.49	156.146	0.26	0.13	-0.23	
11969.00	89.480	156.820	6784.59	5116.83	-4682.57	2069.44	1703592.90	14278271.12	39°19'09.479"N	80°46'35.831"W	5119.48	156.157	0.19	-0.10	0.16	
12064.00	89.690	156.140	6785.27	5211.82	-4770.32	2105.82	1703629.26	14278183.40	39°19'08.611"N	80°46'35.371"W	5214.45	156.181	1.41	0.22	1.39	
12156.00	90.180	159.630	6785.38	5303.81	-4856.15	2138.96	1703662.39	14278097.62	39°19'07.762"N	80°46'34.952"W	5306.35	156.228	1.70	0.53	1.62	
12250.00	89.450	158.680	6785.68	5397.79	-4943.99	2172.41	1703695.83	14278009.81	39°19'06.893"N	80°46'34.529"W	5400.22	156.279	1.27	-0.78	-1.01	
12345.00	89.450	159.650	6786.59	5492.76	-5032.77	2206.20	1703729.60	14277921.06	39°19'06.015"N	80°46'34.102"W	5495.10	156.329	1.02	0.00	1.02	
12441.00	90.250	160.720	6786.85	5588.69	-5123.09	2238.74	1703762.13	14277830.78	39°19'05.121"N	80°46'33.691"W	5590.88	156.395	1.39	0.83	1.11	
12536.00	89.910	159.690	6786.71	5683.62	-5212.47	2270.91	1703794.29	14277741.43	39°19'04.237"N	80°46'33.284"W	5685.68	156.459	1.14	-0.36	-1.08	
12628.00	90.030	157.890	6786.76	5775.61	-5298.24	2304.20	1703827.56	14277655.70	39°19'03.389"N	80°46'32.864"W	5777.60	156.496	1.96	0.13	-1.96	
12723.00	90.430	157.380	6786.38	5870.60	-5386.09	2340.34	1703863.69	14277567.88	39°19'02.520"N	80°46'32.407"W	5872.58	156.514	0.88	0.42	-0.84	
12818.00	90.060	157.350	6785.97	5965.60	-5473.77	2376.90	1703900.24	14277480.24	39°19'01.652"N	80°46'31.944"W	5967.57	156.528	0.39	-0.39	-0.03	
12913.00	90.030	156.640	6785.90	6060.58	-5561.21	2414.03	1703937.35	14277392.83	39°19'00.787"N	80°46'31.475"W	6062.56	156.535	0.75	-0.03	-0.75	
13008.00	90.060	155.090	6785.82	6155.51	-5647.91	2452.87	1703976.18	14277306.17	39°18'59.929"N	80°46'30.983"W	6157.55	156.525	1.63	0.03	-1.63	
13103.00	90.120	154.080	6785.68	6250.34	-5733.71	2493.64	1704016.93	14277220.40	39°18'59.080"N	80°46'30.467"W	6252.50	156.495	1.07	0.06	-1.06	
13197.00	90.060	153.880	6785.53	6344.11	-5818.18	2534.88	1704058.15	14277135.96	39°18'58.244"N	80°46'29.945"W	6346.41	156.458	0.22	-0.06	-0.21	
13292.00	90.180	155.470	6785.33	6438.95	-5904.05	2575.52	1704098.77	14277050.13	39°18'57.394"N	80°46'29.431"W	6441.36	156.432	1.68	0.13	1.67	
13387.00	89.970	155.330	6785.20	6533.85	-5990.43	2615.06	1704138.30	14276963.78	39°18'56.540"N	80°46'28.930"W	6536.34	156.417	0.27	-0.22	-0.15	
13482.00	89.940	156.020	6785.28	6628.77	-6077.00	2654.19	1704177.42	14276877.25	39°18'55.683"N	80°46'28.435"W	6631.34	156.406	0.73	-0.03	0.73	
13577.00	90.000	156.860	6785.33	6723.73	-6164.08	2692.17	1704215.38	14276790.21	39°18'54.822"N	80°46'27.965"W	6726.33	156.407	0.89	0.06	0.88	
13672.00	90.120	159.350	6785.23	6818.73	-6252.22	2727.59	1704250.78	14276702.10	39°18'53.950"N	80°46'27.507"W	6821.29	156.430	2.62	0.13	2.62	
13767.00	90.090	164.170	6785.05	6913.49	-6342.42	2757.32	1704280.50	14276611.94	39°18'53.057"N	80°46'27.132"W	6915.85	156.503	5.07	-0.03	5.07	
13861.00	90.250	169.430	6784.78	7006.35	-6433.90	2778.77	1704301.95	14276520.49	39°18'52.153"N	80°46'26.861"W	7008.33	156.641	5.60	0.17	5.60	
13955.00	90.150	165.020	6784.45	7099.12	-6525.55	2799.55	1704322.72	14276428.88	39°18'51.246"N	80°46'26.600"W	7100.72	156.780	4.69	-0.11	-4.69	
14051.00	90.060	161.910	6784.27	7194.67	-6617.57	2826.67	1704350.03	14276336.83	39°18'50.336"N	80°46'26.255"W	7196.07	156.869	3.24	-0.09	-3.24	
14146.00	90.120	159.420	6784.12	7289.56	-6707.20	2858.32	1704381.47	14276247.29	39°18'49.449"N	80°46'25.858"W	7290.86	156.918	2.62	0.06	-2.62	
14240.00	90.120	157.710	6783.93	7383.55	-6794.70	2892.67	1704415.80	14276159.83	39°18'48.584"N	80°46'25.424"W	7384.81	156.939	1.82	0.00	-1.82	
14335.00	90.650	156.860	6783.29	7478.54	-6882.33	2929.36	1704452.47	14276072.24	39°18'47.717"N	80°46'24.960"W	7479.81	156.944	1.05	0.56	-0.88	
14430.00	90.560	155.400	6782.27	7573.48	-6969.19	2967.80	1704490.90	14275985.41	39°18'46.857"N	80°46'24.474"W	7574.79	156.934	1.54	-0.07	-1.54	



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Strickling Pad
Slot	Slot #04
Well	Jimmy Unit 2H
Wellbore	Jimmy Unit 2H AWB

WELLPATH DATA (198 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
14523.00	90.890	154.830	6781.07	7666.35	-7053.55	3006.93	1704530.01	14275801.08	39°18'46.023"N	80°46'23.978"W	7667.74	156.911	0.70	0.33	-0.61	
14619.00	90.550	155.400	6779.87	7762.22	-7140.63	3047.32	1704570.39	14275814.04	39°18'45.161"N	80°46'23.467"W	7763.68	156.889	0.69	-0.35	0.59	
14713.00	90.580	156.810	6778.94	7856.16	-7226.57	3085.39	1704608.45	14275728.14	39°18'44.311"N	80°46'22.986"W	7857.67	156.880	1.50	0.03	1.50	
14807.00	90.310	157.450	6778.21	7950.15	-7313.17	3121.92	1704644.96	14275641.56	39°18'43.454"N	80°46'22.524"W	7951.66	156.883	0.74	-0.29	0.68	
14903.00	90.460	157.170	6777.57	8046.14	-7401.74	3158.95	1704681.98	14275553.03	39°18'42.577"N	80°46'22.055"W	8047.66	156.888	0.33	0.16	-0.29	
14998.00	90.490	159.730	6776.78	8141.13	-7490.09	3193.84	1704716.85	14275464.72	39°18'41.703"N	80°46'21.614"W	8142.61	156.906	2.69	0.03	2.69	
15092.00	90.920	158.820	6775.62	8235.10	-7578.00	3227.11	1704750.10	14275376.84	39°18'40.834"N	80°46'21.194"W	8236.52	156.933	1.07	0.46	-0.97	
15187.00	91.050	157.030	6773.99	8330.08	-7666.02	3262.80	1704785.79	14275288.86	39°18'39.963"N	80°46'20.743"W	8331.49	156.944	1.89	0.14	-1.88	
15281.00	90.980	154.940	6772.32	8424.00	-7751.87	3301.05	1704824.02	14275203.05	39°18'39.113"N	80°46'20.259"W	8425.46	156.934	2.22	-0.07	-2.22	
15376.00	90.980	155.160	6770.70	8518.86	-7837.99	3341.12	1704864.07	14275116.96	39°18'38.261"N	80°46'19.752"W	8520.39	156.913	0.23	0.00	0.23	
15467.00	91.110	155.720	6769.04	8609.75	-7920.74	3378.94	1704901.87	14275034.24	39°18'37.442"N	80°46'19.273"W	8611.35	156.897	0.63	0.14	0.62	
15562.00	91.020	157.330	6767.27	8704.70	-8007.86	3416.77	1704939.69	14274947.16	39°18'36.580"N	80°46'18.795"W	8706.33	156.893	1.70	-0.09	1.69	
15657.00	91.320	158.630	6765.33	8799.68	-8095.91	3452.38	1704975.29	14274859.14	39°18'35.709"N	80°46'18.345"W	8801.29	156.905	1.40	0.32	1.37	
15752.00	91.320	157.630	6763.14	8894.65	-8184.05	3487.76	1705010.65	14274771.04	39°18'34.837"N	80°46'17.897"W	8896.24	156.918	1.05	0.00	-1.05	
15846.00	91.350	156.950	6760.95	8989.62	-8270.74	3524.04	1705046.92	14274684.38	39°18'33.979"N	80°46'17.439"W	8990.21	156.922	0.72	0.03	-0.72	
15941.00	91.540	156.660	6758.56	9083.57	-8358.03	3561.44	1705084.31	14274597.13	39°18'33.116"N	80°46'16.965"W	9085.18	156.921	0.36	0.20	-0.31	
15969.00	91.380	157.060	6757.85	9111.55	-8383.77	3572.44	1705095.30	14274571.40	39°18'32.861"N	80°46'16.826"W	9113.17	156.920	1.54	-0.57	1.43	
15993.00	91.380	157.060	6757.27	9135.54	-8405.86	3581.80	1705104.65	14274549.31	39°18'32.642"N	80°46'16.708"W	9137.17	156.921	0.00	0.00	0.00	Projected MD @ TD: 15993'



Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Jimmy Unit 2H
Field	Doddridge	Wellbore	Jimmy Unit 2H AWB
Facility	Strickling Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Jimmy Unit 2H AWB Ref Wellpath: Jimmy Unit 2H AWP Proj: 15993'

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	0.00	0.00	0.09
17.5in Open Hole	104.50	370.30	265.80	104.50	370.29	0.09	-0.11	-0.11	1.58
13.375in Casing Surface	24.50	370.30	345.80	24.50	370.29	0.00	0.00	0.00	1.58
12.25in Open Hole	370.30	2614.90	2244.60	370.29	2584.50	1.58	-1.21	-1.21	353.41
9.625in Casing Intermediate	24.50	2614.90	2590.40	24.50	2584.50	0.00	0.00	0.00	353.41
8.75in Open Hole	2614.90	6871.50	4256.60	2584.50	6672.72	353.41	-1.70	-1.70	21.79
8.5in Open Hole	6871.50	15993.00	9121.50	6672.72	6757.27	21.79	-8405.86	153.57	-8405.86
5.5in Casing Production	24.50	15993.00	15968.50	24.50	6757.27	0.00	0.00	0.00	3581.80

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Jimmy Unit 2H POE - Rev-1	6694.00	-13.37	169.22	1701693.44	14282938.47	39°19'55.674"N	80°46'59.867"W	point
Jimmy Unit 2H BHL - Rev-2	6735.00	-8412.67	3568.59	1705091.45	14274542.51	39°18'32.576"N	80°46'16.876"W	point
Jimmy Unit 2H LP - Rev-1	6735.00	-187.63	243.19	1701767.38	14282764.27	39°19'53.950"N	80°46'58.931"W	point

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Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Jimmy Unit 2H
Field	Doddridge	Wellbore	Jimmy Unit 2H AWB
Facility	Strickling Pad		

WELLPATH COMPOSITION - Ref Wellbore: Jimmy Unit 2H AWB Ref Wellpath: Jimmy Unit 2H AWP Proj: 15993'			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment
24.50	334.50	Gyrodata standard - Single-shot	01. Gyrodata SS Gyro <17-1/2">(100-325')
334.50	936.50	Gyrodata standard - Single-shot	02. Gyrodata SS Gyro <12-1/4">(325')(439-927')
936.50	2531.50	ISCWSA MWD, Rev. 4 (Standard)	03. WFT EM <12-1/4">(927')(946'-2522')
2531.50	6797.50	ISCWSA MWD, Rev. 4 (Standard)	04. WFT EM <8-3/4">(2522')(2661'-6788')
6797.50	15969.00	BHI AutoTrak Curve (Short)	05. BH AT Curve <8-1/2"> (6797.5')(6835'-15969')
15969.00	15993.00	Blind Drilling (std)	Projection to bit

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Actual Wellpath Report

Jimmy Unit 2H AWP Proj: 15993'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Jimmy Unit 2H
Field	Doddridge	Wellbore	Jimmy Unit 2H AWB
Facility	Strickling Pad		

COMMENTS
<p>Wellpath general comments API: 47-017-06790-0000 BH Job #: 9106620 Rig: Frontier 22 Duration: 04/12/18 - 04/15/18 Gyrodata SS Gyro <17-1/2">(100'-325') Gyrodata SS Gyro <12-1/4">(325')(439'-927') WFT EM <12-1/4">(927')(946'-2522') WFT EM <8-3/4">(2522')(2661'-6788') Burket: 6768'MD / 6617'TVD Tully: 6816'MD / 6645'TVD BH AT Curve <8-1/2"> (6797.5')(6835'-15969') Hamilton: 6894'MD / 6682'TVD POE Marcellus: 6920'MD / 6692 Projected MD @ TD: 15993'</p>

03/08/2019

5/21/2018