



# ANTERO RESOURCES CORPORATION



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

Slot: Slot #03  
 Well: Jimmy Unit 1H  
 Wellbore: Jimmy Unit 1H PWB

Plot reference wellpath is Jimmy Unit 1H 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	Scale: True distance	
Measured depths are referenced to Frontier 22 (RKB)	Frontier 22 (RKB) to Mean Sea Level: 1089.5 feet	Depths are in feet	
Mean Sea Level to Ground level (At Slot: Slot #03): -1065 feet	Coordinates are in feet referenced to Slot	Created by: mcorbin on 2016-05-16	
		Database: WA_MPL_EASTERNUS_Deht	

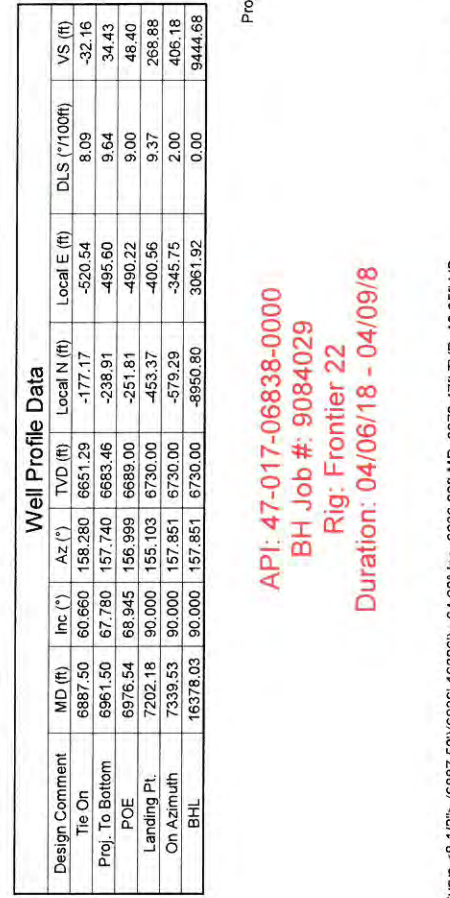
  

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Strickling Pad	1701593.170	1428290.060	80°47'01.270"W
Slot	Local N (ft)	Grid East (US ft)	Latitude
Slot #03	-10.28	1701514.090	39°19'55.790"N
Comment	Jimmy Unit 1H		
Frontier 22 (RKB) to Ground level (At Slot: Slot #03)			24.5ft
Mean Sea Level to Ground level (At Slot: Slot #03)			-1065ft
Frontier 22 (RKB) to Mean Sea Level			1089.5ft

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #03	Jimmy Unit 1H	Jimmy Unit 1H AWB	Jimmy Unit 1H AWP Proj: 1637g
Slot #03	Jimmy Unit 1H	Jimmy Unit 1H PWB	Jimmy Unit 1H PWP Rev-A.0

Well Profile Data								
Design Comment	MD (ft)	Inc. (°)	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS. (°/100ft)	VS (ft)
Tie On	6887.50	60.660	158.280	6651.29	-177.17	-520.54	8.09	-32.16
Proj. To Bottom	6961.50	67.780	157.740	6683.46	-238.91	-495.60	9.64	34.43
POE	6976.54	68.945	156.999	6689.00	-251.81	-490.22	9.00	48.40
Landing Pl.	7202.18	90.000	155.103	6730.00	-453.37	-400.56	9.37	268.88
On Azimuth	7339.53	90.000	157.851	6730.00	-579.29	-345.75	2.00	406.18
BHL	16378.03	90.000	157.851	6730.00	-8950.80	3081.92	0.00	9444.68



BH AT Curve <8-1/2"> (6887.50)(6936-16326) : 6673.47ft TVD, 216.94ft S, 503.87ft W			
WFT EM <8-3/4"> (2487)(2627-6878) : 2636.26ft TVD, 4.67ft N, 6.40ft W			
WFT EM <12-1/4"> (987)(1104-2487) : 1113.44ft TVD, 8.17ft N, 1.37ft E			
Gyrodatta MS Gyro <12-1/4"> (350)(406-987) : 415.49ft TVD, 0.28ft N, 2.35ft E			
Gyrodatta MS Gyro <17-1/2"> (100-350) : 109.50ft TVD, 0.02ft S, 0.33ft E			

POE Marcellus: 6973MD / 6688TVD : 6688.08ft TVD, 248.01ft S, 490.11ft W			
Gyrodata MS Gyro <17-1/2"> (100-350) : 0.45° Inc, 109.50ft MD, 109.50ft TVD, 0.14ft VS			
Gyrodata MS Gyro <12-1/4"> (350)(406-987) : 0.55° Inc, 415.50ft MD, 415.49ft TVD, 0.62ft VS			
WFT EM <12-1/4"> (987)(1104-2487) : 0.97° Inc, 1113.50ft MD, 1113.44ft TVD, -7.05ft VS			
WFT EM <8-3/4"> (2487)(2627-6878) : 0.59° Inc, 2636.50ft MD, 2636.26ft TVD, -6.73ft VS			

API: 47-017-06838-0000  
 BH Job #: 9084029  
 Rig: Frontier 22  
 Duration: 04/06/18 - 04/09/18

Scale 1 inch = 2000

Scale 1 inch = 1500



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'

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REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Slot #03
Area	Doddridge Co., WV	Jimmy Unit 1H
Field	Doddridge	Jimmy Unit 1H AWB
Facility	Strickling Pad	

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999604
Convergence at slot	0.14° East
Software System	WellArchitect® 5.1
User	Mccrerib
Report Generated	5/17/2018 at 3:55:03 PM
Database/Source file	WA_MPL_EASTERNUS_Defn/Jimmy_Unit_1H_AWP_Proj_16379_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-10.28	-69.12	1701514.08	14282949.78	39°19'55.790"N	80°47'02.150"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
Horizontal Reference Pt	Slot
Vertical Reference Pt	Frontier 22 (RKB)
MD Reference Pt	Frontier 22 (RKB)
Field Vertical Reference	Mean Sea Level
	Frontier 22 (RKB) to Facility Vertical Datum
	Frontier 22 (RKB) to Mean Sea Level
	Frontier 22 (RKB) to Ground Level at Slot (Slot #03)
	Section Origin
	Section Azimuth
	24.50ft
	1089.50ft
	24.50ft
	N 0.00, E 0.00 ft
	157.85°

02/15/2019



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Jimmy Unit 1H
Field	Doddridge	Wellbore	Jimmy Unit 1H AWB
Facility	Strickling Pad		

WELLPATH DATA (204 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
0.00	0.000	93.230	0.00	0.00	0.00	0.00	1701514.08	14282949.78	39°19'55.790"N	80°47'02.150"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	93.230	24.50	0.00	0.00	0.00	1701514.08	14282949.78	39°19'55.790"N	80°47'02.150"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.450	93.230	109.50	0.14	-0.02	0.33	1701514.41	14282949.76	39°19'55.790"N	80°47'02.146"W	0.33	93.230	0.53	109.68	109.68	Gyrodata MS Gyro <17'-1/2">(100'-350')
209.50	0.630	103.870	209.49	0.63	-0.17	1.26	1701515.34	14282949.61	39°19'55.788"N	80°47'02.134"W	1.27	97.811	0.21	0.18	10.64	
309.50	0.410	76.340	309.49	1.01	-0.22	2.14	1701516.22	14282949.56	39°19'55.788"N	80°47'02.123"W	2.15	95.869	0.33	-0.22	-27.53	
359.50	0.210	388.770	359.49	0.95	-0.09	2.31	1701516.39	14282949.69	39°19'55.789"N	80°47'02.121"W	2.31	92.134	0.84	-0.40	-155.14	
415.50	0.550	7.770	415.49	0.62	0.28	2.35	1701516.43	14282950.06	39°19'55.793"N	80°47'02.120"W	2.36	83.129	0.61	0.61	16.07	Gyrodata MS Gyro <12'-1/4">(350')(406'-987')
506.50	0.640	5.460	506.48	-0.21	1.22	2.45	1701516.53	14282951.00	39°19'55.802"N	80°47'02.119"W	2.74	63.538	0.10	0.10	-2.54	
596.50	0.480	332.500	596.48	-1.03	2.06	2.33	1701516.41	14282951.84	39°19'55.810"N	80°47'02.120"W	3.11	48.543	0.39	-0.18	-36.62	
687.50	0.540	357.690	687.48	-1.81	2.82	2.13	1701516.21	14282952.60	39°19'55.818"N	80°47'02.123"W	3.54	37.084	0.25	0.07	27.68	
778.50	0.680	331.490	778.47	-2.75	3.73	1.86	1701515.94	14282953.50	39°19'55.827"N	80°47'02.126"W	4.16	26.521	0.34	0.15	-28.79	
905.50	0.800	349.100	905.46	-4.37	5.26	1.33	1701515.41	14282955.04	39°19'55.842"N	80°47'02.133"W	5.42	14.214	0.20	0.09	13.87	
996.50	0.720	6.940	996.45	-5.49	6.45	1.28	1701515.38	14282956.23	39°19'55.854"N	80°47'02.133"W	6.58	11.232	0.27	-0.09	19.60	
1113.50	0.970	0.190	1113.44	-7.05	8.17	1.37	1701515.45	14282957.95	39°19'55.871"N	80°47'02.132"W	8.28	9.540	0.23	0.21	-5.77	WFT EM <12'-1/4">(987')(1104'-2487')
1208.50	0.050	331.490	1208.44	-7.83	9.01	1.36	1701515.44	14282958.79	39°19'55.879"N	80°47'02.132"W	9.11	8.558	0.98	-0.97	-30.21	
1303.50	0.220	196.870	1303.44	-7.73	8.87	1.28	1701515.36	14282958.65	39°19'55.878"N	80°47'02.133"W	8.96	8.229	0.27	0.18	-141.71	
1397.50	0.170	180.680	1397.43	-7.47	8.56	1.23	1701515.31	14282958.34	39°19'55.875"N	80°47'02.134"W	8.65	8.171	0.08	-0.05	-17.22	
1492.50	0.130	137.520	1492.43	-7.23	8.34	1.30	1701515.38	14282958.12	39°19'55.872"N	80°47'02.133"W	8.44	8.862	0.12	-0.04	-45.43	
1587.50	0.250	238.280	1587.43	-7.10	8.15	1.20	1701515.28	14282957.93	39°19'55.871"N	80°47'02.134"W	8.24	8.352	0.32	0.13	106.06	
1681.50	0.370	319.330	1681.43	-7.35	8.27	0.82	1701514.90	14282958.05	39°19'55.872"N	80°47'02.139"W	8.31	5.691	0.44	0.13	86.22	
1775.50	0.470	344.730	1775.43	-8.02	8.88	0.53	1701514.60	14282958.65	39°19'55.878"N	80°47'02.143"W	8.89	3.366	0.22	0.11	27.02	
1870.50	0.510	338.480	1870.43	-8.83	9.65	0.27	1701514.35	14282959.42	39°19'55.885"N	80°47'02.146"W	9.65	1.588	0.07	0.04	-6.58	
2059.50	0.550	8.960	2059.41	-10.87	11.79	0.13	1701514.20	14282961.56	39°19'55.906"N	80°47'02.148"W	11.79	0.608	0.29	-0.25	12.21	
2153.50	0.530	15.430	2153.41	-11.60	12.65	0.31	1701514.39	14282962.43	39°19'55.915"N	80°47'02.146"W	12.65	1.408	0.07	-0.02	6.88	
2248.50	0.910	210.020	2248.41	-11.49	12.42	0.05	1701514.13	14282962.20	39°19'55.913"N	80°47'02.149"W	12.42	0.233	1.50	0.40	-174.12	
2342.50	1.760	211.740	2342.38	-10.18	10.55	-1.08	1701513.00	14282960.32	39°19'55.894"N	80°47'02.163"W	10.60	354.140	0.91	0.90	1.83	
2437.50	2.000	220.850	2437.33	-8.56	8.05	-2.93	1701511.15	14282957.83	39°19'55.870"N	80°47'02.187"W	8.57	339.980	0.40	0.25	9.59	
2496.50	1.850	220.510	2496.30	-7.86	6.55	-4.23	1701509.86	14282956.33	39°19'55.855"N	80°47'02.204"W	7.80	327.169	0.25	-0.25	-0.58	
2636.50	0.590	256.700	2636.26	-6.73	4.67	-6.40	1701507.69	14282954.44	39°19'55.836"N	80°47'02.231"W	7.92	306.112	1.01	-0.90	25.85	WFT EM <8'-3/4">(2487')(2627'-6878')



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddrige Co., WV	Well	Jimmy Unit 1H
Field	Doddrige	Wellbore	Jimmy Unit 1H AWB
Facility	Strickling Pad		

## WELLPATH DATA (204 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
2731.50	0.470	261.070	2731.26	-6.90	4.49	-7.26	1701506.83	14282954.27	39°19'55.835"N	80°47'02.242"W	8.53	301.764	0.13	-0.13	4.60	
2825.50	0.400	259.460	2825.26	-7.05	4.37	-7.96	1701506.12	14282954.15	39°19'55.833"N	80°47'02.251"W	9.08	298.783	0.08	-0.07	-1.71	
2920.50	0.420	255.490	2920.25	-7.16	4.23	-8.62	1701505.46	14282954.00	39°19'55.832"N	80°47'02.260"W	9.60	296.104	0.04	0.02	-4.18	
3014.50	0.480	249.700	3014.25	-7.22	4.00	-9.33	1701504.76	14282953.78	39°19'55.830"N	80°47'02.269"W	10.15	293.227	0.08	0.06	-6.16	
3113.50	0.480	245.250	3113.25	-7.22	3.68	-10.09	1701503.99	14282953.46	39°19'55.827"N	80°47'02.278"W	10.74	290.059	0.04	0.00	-4.49	
3208.50	0.450	255.270	3208.24	-7.25	3.42	-10.81	1701503.27	14282953.20	39°19'55.824"N	80°47'02.287"W	11.34	287.566	0.09	-0.03	-10.55	
3302.50	1.820	292.300	3302.22	-8.34	3.90	-12.55	1701501.53	14282953.67	39°19'55.829"N	80°47'02.310"W	13.14	287.244	1.58	1.46	39.39	
3491.50	4.950	295.210	3490.86	-16.52	8.49	-22.95	1701491.14	14282958.27	39°19'55.846"N	80°47'02.361"W	17.55	288.687	1.79	1.78	1.08	
3586.50	6.470	293.970	3585.39	-23.39	12.41	-31.54	1701482.55	14282962.19	39°19'55.913"N	80°47'02.551"W	33.90	291.482	1.53	1.52	2.00	
3680.50	7.670	291.470	3678.67	-31.54	16.86	-42.22	1701471.87	14282966.64	39°19'55.958"N	80°47'02.442"W	45.46	291.770	1.32	1.28	-2.66	
3774.50	8.840	295.000	3771.69	-41.16	22.21	-54.61	1701459.50	14282978.90	39°19'56.011"N	80°47'02.844"W	58.95	292.134	1.36	1.24	3.76	
3869.50	10.320	296.760	3865.37	-52.93	29.13	-68.82	1701445.29	14282978.90	39°19'56.080"N	80°47'03.025"W	74.73	292.940	1.59	1.56	1.85	
3963.50	11.540	295.910	3957.66	-66.27	37.03	-84.80	1701429.32	14282986.79	39°19'56.158"N	80°47'03.228"W	92.53	293.589	1.31	1.30	-0.90	
4058.50	12.730	292.720	4050.54	-80.72	45.22	-103.00	1701411.12	14282994.98	39°19'56.239"N	80°47'03.459"W	112.49	293.704	1.44	1.25	-3.36	
4152.50	13.680	292.000	4142.05	-95.77	53.39	-122.86	1701391.27	14283003.15	39°19'56.321"N	80°47'03.712"W	133.96	293.487	1.03	1.01	-0.77	
4246.50	14.530	295.460	4233.22	-112.22	62.62	-143.81	1701370.32	14283012.38	39°19'56.412"N	80°47'03.978"W	156.85	293.530	1.27	0.90	3.68	
4340.50	15.440	299.680	4324.02	-130.77	73.89	-165.33	1701348.81	14283023.64	39°19'56.524"N	80°47'04.252"W	181.09	294.079	1.51	0.97	4.49	
4435.50	15.470	298.720	4415.59	-150.54	86.24	-187.43	1701326.72	14283035.98	39°19'56.647"N	80°47'04.533"W	206.32	294.707	0.27	0.03	-1.01	
4529.50	15.500	297.480	4506.17	-169.83	98.06	-209.57	1701304.60	14283047.80	39°19'56.764"N	80°47'04.814"W	231.37	295.075	0.35	0.03	-1.32	
4623.50	15.310	296.610	4596.80	-188.73	109.41	-231.81	1701282.37	14283059.15	39°19'56.877"N	80°47'05.097"W	256.33	295.267	0.32	-0.20	-0.93	
4717.50	14.750	292.160	4687.58	-206.42	119.48	-253.98	1701260.20	14283069.21	39°19'56.977"N	80°47'05.379"W	280.68	295.194	1.36	-0.60	-4.73	
4811.50	13.880	289.080	4685.76	-237.80	135.65	-297.48	1701238.24	14283077.71	39°19'57.061"N	80°47'05.658"W	304.18	294.881	0.75	-0.51	-2.17	
4905.50	14.560	291.460	4680.81	-253.59	143.77	-319.42	1701216.72	14283085.38	39°19'57.138"N	80°47'05.932"W	326.95	294.513	0.49	-0.41	-1.11	
4999.50	15.950	292.050	4962.11	-270.99	153.07	-342.71	1701194.79	14283093.50	39°19'57.219"N	80°47'06.211"W	350.28	294.233	1.30	1.14	2.53	
5094.50	15.860	291.040	5052.44	-270.99	162.21	-365.85	1701171.51	14283102.79	39°19'57.311"N	80°47'06.507"W	375.34	294.068	0.77	0.75	0.62	
5187.50	15.380	291.040	5142.04	-288.18	162.21	-389.44	1701148.37	14283111.93	39°19'57.402"N	80°47'06.801"W	400.20	293.911	0.42	-0.30	-1.09	
5282.50	15.260	288.870	5233.67	-305.00	170.78	-412.98	1701124.79	14283120.49	39°19'57.487"N	80°47'07.101"W	425.24	293.678	0.62	-0.13	-2.28	
5376.50	15.720	291.630	5324.26	-321.93	179.47	-436.93	1701101.26	14283129.18	39°19'57.574"N	80°47'07.400"W	450.29	293.488	0.92	0.49	2.94	
5470.50	16.030	291.040	5414.67	-339.63	188.82	-436.93	1701077.32	14283138.53	39°19'57.667"N	80°47'07.705"W	475.99	293.372	0.37	0.33	-0.63	



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Jimmy Unit 1H
Field	Doddridge	Wellbore	Jimmy Unit 1H AWB
Facility	Strickling Pad		

## WELLPATH DATA (204 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
5564.50	16.290	290.340	5504.96	-357.42	198.07	-461.41	1701052.85	14283147.77	39°19'57.758"N	80°47'08.016"W	502.12	293.232	0.35	0.28	-0.74	
5659.50	15.160	289.100	5596.40	-374.61	206.76	-485.64	1701028.63	14283156.46	39°19'57.845"N	80°47'08.324"W	527.82	293.062	1.24	-1.19	-1.31	
5753.50	15.630	289.350	5687.03	-391.10	214.98	-509.20	1701005.08	14283164.68	39°19'57.927"N	80°47'08.624"W	552.72	292.889	0.50	0.50	0.27	
5848.50	14.890	288.440	5778.68	-407.52	223.08	-532.86	1700981.43	14283172.77	39°19'58.007"N	80°47'08.924"W	577.67	292.717	0.82	-0.78	-0.96	
5942.50	16.250	287.280	5869.23	-423.74	230.81	-556.87	1700957.43	14283180.50	39°19'58.084"N	80°47'09.230"W	602.81	292.513	1.48	1.45	-1.23	
5974.50	16.020	280.460	5899.97	-428.96	232.94	-565.49	1700948.81	14283182.63	39°19'58.106"N	80°47'09.339"W	611.59	292.388	5.96	-0.72	-21.31	
6005.50	15.030	272.390	5929.84	-432.93	233.89	-573.72	1700940.59	14283183.57	39°19'58.115"N	80°47'09.444"W	619.56	292.179	7.66	-3.19	-26.03	
6037.50	13.620	262.720	5960.85	-435.63	233.58	-581.60	1700932.71	14283183.27	39°19'58.112"N	80°47'09.544"W	626.75	291.881	8.66	-4.41	-30.22	
6069.50	12.090	250.620	5992.05	-436.75	231.99	-588.50	1700925.81	14283181.68	39°19'58.097"N	80°47'09.632"W	632.58	291.515	9.65	-4.78	-37.81	
6100.50	11.420	235.810	6022.41	-436.27	229.19	-594.10	1700920.21	14283178.88	39°19'58.069"N	80°47'09.704"W	636.78	291.095	9.94	-2.16	-47.77	
6132.50	12.450	224.220	6053.72	-434.23	224.94	-599.13	1700915.19	14283174.63	39°19'58.027"N	80°47'09.768"W	639.96	290.578	8.13	3.22	-36.22	
6163.50	14.130	215.470	6083.89	-430.86	219.46	-603.66	1700910.66	14283169.15	39°19'57.973"N	80°47'09.826"W	642.31	289.979	8.44	5.42	-28.23	
6195.50	16.420	207.740	6114.76	-425.85	212.27	-608.03	1700906.29	14283161.97	39°19'57.902"N	80°47'09.881"W	644.02	289.245	9.56	7.16	-24.16	
6226.50	17.470	199.160	6144.42	-419.53	204.00	-611.60	1700902.73	14283153.70	39°19'57.821"N	80°47'09.927"W	644.72	288.446	8.74	3.39	-27.68	
6258.50	18.680	190.400	6174.85	-411.61	194.42	-614.10	1700900.22	14283144.12	39°19'57.726"N	80°47'09.959"W	644.14	287.567	9.29	3.78	-27.37	
6289.50	20.250	183.340	6204.08	-402.58	184.18	-615.31	1700899.02	14283133.88	39°19'57.625"N	80°47'09.975"W	642.28	286.664	9.12	5.06	-22.77	
6321.50	21.210	177.930	6234.01	-392.14	172.86	-615.42	1700898.90	14283122.57	39°19'57.513"N	80°47'09.977"W	639.24	285.689	6.69	3.00	-16.91	
6352.50	22.860	173.820	6262.75	-381.08	161.27	-614.57	1700899.75	14283110.99	39°19'57.398"N	80°47'09.966"W	635.38	284.704	7.28	5.32	-13.26	
6383.50	25.130	171.960	6291.07	-368.91	148.76	-613.00	1700901.32	14283098.49	39°19'57.275"N	80°47'09.947"W	630.80	283.641	7.72	7.32	-6.00	
6415.50	27.760	171.080	6319.71	-355.06	134.67	-610.90	1700903.43	14283084.40	39°19'57.135"N	80°47'09.920"W	625.56	282.432	8.31	8.22	-2.75	
6447.50	30.310	170.530	6347.69	-339.93	119.34	-608.41	1700905.91	14283069.07	39°19'56.984"N	80°47'09.889"W	620.01	281.098	8.01	7.97	-1.72	
6478.50	32.110	169.600	6374.20	-324.23	103.52	-605.64	1700908.68	14283053.26	39°19'56.827"N	80°47'09.854"W	614.42	279.700	6.01	5.81	-3.00	
6509.50	33.360	168.310	6400.28	-307.78	87.07	-602.42	1700911.90	14283036.82	39°19'56.665"N	80°47'09.814"W	608.68	278.224	4.62	4.03	-4.16	
6540.50	34.900	167.040	6425.94	-290.64	70.08	-598.71	1700915.61	14283019.83	39°19'56.497"N	80°47'09.767"W	602.79	276.676	5.47	4.97	-4.10	
6572.50	36.810	165.690	6451.87	-272.10	51.87	-594.28	1700920.03	14283003.63	39°19'56.317"N	80°47'09.711"W	596.54	274.988	6.46	5.97	-4.22	
6604.50	39.700	165.280	6477.00	-252.47	32.69	-589.32	1700925.00	14282982.46	39°19'56.127"N	80°47'09.649"W	590.22	273.175	9.07	9.03	-1.28	
6635.50	43.010	164.710	6500.27	-232.15	12.91	-584.01	1700930.30	14282962.68	39°19'55.931"N	80°47'09.582"W	584.15	271.266	10.75	10.68	-1.84	
6666.50	46.280	164.510	6522.32	-210.52	-8.09	-578.23	1700936.08	14282941.69	39°19'55.724"N	80°47'09.509"W	578.29	269.198	10.56	10.55	-0.65	
6698.50	48.870	163.680	6543.91	-187.04	-30.80	-571.75	1700942.55	14282918.99	39°19'55.499"N	80°47'09.427"W	572.58	266.916	8.32	8.09	-2.59	
6730.50	50.950	161.340	6564.51	-162.64	-54.15	-564.39	1700949.92	14282895.65	39°19'55.268"N	80°47'09.334"W	566.98	264.520	8.58	6.50	-7.31	



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Jimmy Unit 1H
Field	Doddridge	Wellbore	Jimmy Unit 1H AWB
Facility	Strickling Pad		

## WELLPATH DATA (204 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
6761.50	53.370	160.940	6583.53	-138.20	-77.31	-556.47	1700957.83	14282872.50	39°19'55.039"N	80°47'09.234"W	561.82	262.090	7.87	7.81	-1.29	
6793.50	55.880	160.420	6602.05	-112.14	-101.93	-547.84	1700966.46	14282872.89	39°19'54.795"N	80°47'09.125"W	557.24	259.460	7.95	7.84	-1.63	
6810.00†	56.929	160.350	6611.18	-98.41	-114.88	-543.23	1700971.07	14282834.95	39°19'54.667"N	80°47'09.067"W	555.24	258.059	6.36	6.35	-0.42	Burket: 6810' MD / 6611' TVD
6824.50	57.850	160.290	6619.00	-86.21	-126.38	-539.11	1700975.18	14282823.45	39°19'54.554"N	80°47'09.015"W	553.73	256.807	6.36	6.35	-0.41	
6856.50	59.090	160.540	6635.73	-58.96	-152.08	-529.97	1700984.32	14282797.76	39°19'54.299"N	80°47'08.999"W	551.36	253.989	6.33	3.87	0.78	
6870.00†	59.763	159.547	6642.60	-47.35	-163.00	-526.00	1700988.28	14282786.84	39°19'54.191"N	80°47'08.849"W	550.68	252.783	8.09	5.03	-7.36	Tully: 6870' MD / 6643' TVD
6887.50	60.600	158.280	6651.29	-32.16	-177.17	-520.54	1700993.75	14282772.68	39°19'54.051"N	80°47'08.780"W	549.86	251.203	8.09	5.09	-7.24	
6936.00	64.900	156.280	6673.47	10.95	-216.94	-503.87	1701010.41	14282732.93	39°19'53.658"N	80°47'08.569"W	548.59	246.706	9.48	8.74	-4.12	BH AT Curve -8-1/2" > (6887.50) (6936'-16326')
6951.00†	66.400	156.058	6679.66	24.61	-229.44	-498.35	1701015.93	14282720.44	39°19'53.534"N	80°47'08.499"W	548.63	245.279	10.09	10.00	-1.48	Hamilton: 6951' MD / 6660' TVD
6973.00†	67.000	155.970	6682.03	30.12	-234.47	-496.11	1701018.17	14282715.40	39°19'53.484"N	80°47'08.471"W	548.73	244.704	10.09	10.00	-1.46	
7004.00	71.560	156.620	6698.66	74.05	-274.71	-478.45	1701035.82	14282675.18	39°19'53.350"N	80°47'08.395"W	549.29	243.159	9.79	9.70	1.41	POE Marcellus: 6973' MD / 6668' TVD
7052.00	76.170	157.720	6711.99	120.14	-317.20	-460.57	1701063.70	14282632.71	39°19'52.666"N	80°47'08.021"W	551.71	240.137	9.79	9.70	1.37	
7099.00	80.330	158.070	6721.56	166.15	-359.82	-443.26	1701071.00	14282590.10	39°19'52.244"N	80°47'07.802"W	570.92	230.931	8.88	8.85	0.74	
7148.00	84.120	158.270	6728.19	214.69	-404.86	-425.21	1701089.04	14282545.06	39°19'51.798"N	80°47'07.573"W	587.14	226.402	7.75	7.73	0.41	
7195.00	88.920	158.870	6731.04	261.58	-448.53	-408.05	1701106.19	14282501.43	39°19'51.366"N	80°47'07.356"W	606.37	222.294	10.28	10.21	1.15	
7243.00	89.380	157.970	6731.75	309.57	-493.15	-390.37	1701123.86	14282456.82	39°19'50.925"N	80°47'07.133"W	628.96	218.365	2.00	0.96	-1.75	
7338.00	89.480	156.560	6732.70	404.56	-580.76	-353.66	1701160.56	14282369.25	39°19'50.058"N	80°47'06.668"W	678.97	211.340	1.49	0.11	-1.48	
7432.00	89.510	156.670	6733.53	498.54	-667.04	-316.35	1701197.85	14282283.01	39°19'49.205"N	80°47'06.196"W	738.26	205.373	0.12	0.03	0.12	
7528.00	89.660	159.070	6734.22	594.53	-755.96	-280.19	1701234.00	14282194.12	39°19'48.925"N	80°47'05.739"W	806.21	200.337	2.50	0.16	2.50	
7623.00	89.880	160.520	6734.60	689.47	-845.11	-247.38	1701266.80	14282105.01	39°19'47.443"N	80°47'05.324"W	880.57	196.316	1.54	0.23	1.53	
7718.00	89.600	161.600	6735.03	784.32	-934.96	-216.55	1701297.62	14282015.19	39°19'46.554"N	80°47'04.934"W	959.71	193.040	1.17	-0.29	1.14	
7813.00	89.600	163.030	6735.70	879.02	-1025.47	-187.69	1701326.46	14281924.72	39°19'45.659"N	80°47'04.570"W	1042.50	190.372	1.51	0.00	1.51	
7908.00	89.850	163.470	6736.15	973.60	-1116.44	-160.31	1701363.83	14281833.79	39°19'44.759"N	80°47'04.224"W	1127.89	186.171	0.53	0.26	0.46	
8002.00	89.350	163.020	6736.81	1067.18	-1206.44	-133.21	1701380.92	14281743.82	39°19'43.869"N	80°47'03.882"W	1213.78	186.301	0.72	-0.53	-0.48	
8096.00	89.320	162.350	6737.90	1160.84	-1296.18	-105.24	1701408.88	14281654.12	39°19'42.982"N	80°47'03.529"W	1300.44	184.642	0.71	-0.03	-0.71	
8191.00	89.290	156.730	6739.05	1255.75	-1385.14	-72.05	1701442.06	14281565.19	39°19'42.101"N	80°47'03.109"W	1387.01	182.978	5.92	-0.03	-5.92	
8285.00	89.290	152.750	6740.22	1349.59	-1470.13	-31.95	1701482.15	14281480.23	39°19'41.261"N	80°47'02.601"W	1470.48	181.245	4.23	0.00	-4.23	
8380.00	89.420	150.850	6741.29	1444.05	-1553.85	12.94	1701527.02	14281396.55	39°19'40.432"N	80°47'02.033"W	1553.90	179.523	2.00	0.14	-2.00	
8475.00	89.480	151.790	6742.20	1538.43	-1637.19	58.53	1701572.59	14281313.25	39°19'39.607"N	80°47'01.455"W	1638.23	177.953	0.99	0.06	0.99	



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION	Well	Jimmy Unit 1H
Area	Doddridge Co., WV	Wellbore	Jimmy Unit 1H AWB
Field	Doddridge		
Facility	Strickling Pad		

WELLPATH DATA (204 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
8570.00	89.480	155.520	6743.06	1633.15	-1722.30	100.68	1701614.72	14281228.17	39°19'38.765"N	80°47'00.921"W	1725.24	176.655	3.93	0.00	3.93	
8665.00	89.510	157.250	6743.90	1728.12	-1809.34	138.73	1701652.76	14281141.16	39°19'37.904"N	80°47'00.440"W	1814.65	175.615	1.82	0.03	1.82	
8760.00	89.420	158.990	6744.79	1823.11	-1897.49	174.13	1701688.14	14281053.05	39°19'37.032"N	80°46'59.992"W	1905.46	174.757	1.83	-0.08	1.83	
8853.00	89.140	156.080	6745.96	1916.09	-1983.41	209.66	1701723.66	14280967.16	39°19'36.182"N	80°46'59.542"W	1994.46	173.966	3.14	-0.30	-3.13	
8948.00	89.320	155.210	6747.23	2011.01	-2069.95	248.84	1701762.82	14280880.65	39°19'35.325"N	80°46'58.046"W	2084.85	173.145	0.94	0.19	-0.92	
9043.00	89.450	153.360	6748.25	2105.81	-2155.53	290.05	1701804.02	14280795.10	39°19'34.479"N	80°46'58.525"W	2174.96	172.336	1.95	0.14	-1.95	
9138.00	89.350	150.920	6749.25	2200.33	-2239.51	334.44	1701848.39	14280711.16	39°19'33.648"N	80°46'57.962"W	2264.35	171.506	2.57	-0.11	-2.57	
9232.00	89.350	150.260	6750.31	2293.57	-2321.39	380.60	1701894.53	14280629.31	39°19'32.837"N	80°46'57.377"W	2352.38	170.889	0.70	0.00	-0.70	
9327.00	89.420	152.160	6751.33	2387.92	-2404.64	426.34	1701940.25	14280546.10	39°19'32.013"N	80°46'56.798"W	2442.14	169.946	2.00	0.07	2.00	
9421.00	89.350	155.260	6752.34	2481.66	-2488.90	467.97	1701981.86	14280461.87	39°19'31.180"N	80°46'56.271"W	2532.51	169.951	3.30	-0.07	3.30	
9515.00	89.380	158.250	6753.39	2575.63	-2575.26	505.06	1702018.94	14280375.55	39°19'30.325"N	80°46'55.801"W	2624.32	168.904	3.18	0.03	3.18	
9608.00	89.350	157.700	6754.42	2668.62	-2661.46	539.94	1702053.80	14280289.37	39°19'29.472"N	80°46'55.360"W	2715.68	168.532	0.59	-0.03	-0.59	
9703.00	89.450	156.460	6755.41	2763.61	-2748.96	576.93	1702090.78	14280201.92	39°19'28.607"N	80°46'54.892"W	2808.85	168.147	1.31	0.11	-1.31	
9798.00	89.080	157.720	6756.63	2858.59	-2836.45	613.91	1702127.74	14280114.45	39°19'27.741"N	80°46'54.424"W	2902.13	167.788	1.38	-0.39	1.33	
9894.00	89.290	158.370	6757.99	2954.58	-2925.48	649.80	1702163.62	14280025.46	39°19'26.860"N	80°46'53.970"W	2996.78	167.477	0.71	0.22	0.68	
9988.00	89.380	160.040	6759.09	3048.54	-3013.35	683.17	1702196.97	14279937.63	39°19'25.991"N	80°46'53.549"W	3089.82	167.226	1.78	0.10	1.78	
10083.00	89.320	161.360	6760.16	3143.41	-3103.00	714.56	1702228.36	14279848.01	39°19'25.104"N	80°46'53.152"W	3184.22	167.032	1.39	-0.06	1.39	
10178.00	89.450	159.620	6761.18	3238.30	-3192.54	746.29	1702260.07	14279758.51	39°19'24.218"N	80°46'52.751"W	3278.61	166.943	1.84	0.14	-1.83	
10273.00	89.450	161.350	6762.10	3333.20	-3282.08	778.02	1702291.79	14279669.01	39°19'23.333"N	80°46'52.350"W	3373.03	166.664	1.82	0.00	1.82	
10368.00	88.860	161.770	6763.50	3427.99	-3372.19	808.07	1702321.82	14279578.93	39°19'22.441"N	80°46'51.970"W	3467.65	166.525	0.76	-0.62	0.44	
10461.00	89.230	161.360	6765.05	3520.78	-3460.40	837.47	1702351.22	14279490.75	39°19'21.569"N	80°46'51.599"W	3560.30	166.395	0.59	0.40	-0.44	
10556.00	89.230	162.140	6766.32	3615.55	-3550.61	867.22	1702380.95	14279400.58	39°19'20.676"N	80°46'51.223"W	3654.99	166.275	0.82	0.00	0.82	
10651.00	89.480	162.960	6767.39	3710.22	-3641.24	895.70	1702409.43	14279309.99	39°19'19.780"N	80°46'50.863"W	3749.78	166.180	0.90	0.26	0.86	
10745.00	89.420	162.000	6768.29	3803.91	-3730.87	924.00	1702437.71	14279220.39	39°19'18.893"N	80°46'50.506"W	3843.59	166.090	1.02	-0.06	-1.02	
10840.00	89.380	160.840	6769.29	3896.72	-3820.91	954.27	1702467.97	14279130.39	39°19'18.003"N	80°46'50.124"W	3938.27	165.977	1.22	-0.04	-1.22	
10936.00	89.380	159.380	6770.33	3994.64	-3911.18	986.93	1702500.61	14279040.16	39°19'17.110"N	80°46'49.711"W	4033.77	165.838	1.52	0.00	-1.52	
11031.00	89.380	158.540	6771.44	4089.61	-3999.84	1021.03	1702534.70	14278951.53	39°19'16.233"N	80°46'49.280"W	4128.10	165.680	0.88	0.00	-0.88	
11126.00	90.520	160.230	6771.44	4184.57	-4088.75	1054.48	1702568.14	14278862.66	39°19'15.353"N	80°46'48.857"W	4222.53	165.539	2.15	1.20	1.78	
11221.00	89.970	158.870	6771.03	4279.53	-4177.76	1087.67	1702601.31	14278773.68	39°19'14.473"N	80°46'48.437"W	4317.02	165.407	1.54	-0.58	-1.43	
11316.00	90.030	155.790	6771.03	4374.51	-4265.41	1124.28	1702637.91	14278686.07	39°19'13.605"N	80°46'47.974"W	4411.09	165.234	3.24	0.06	-3.24	



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Jimmy Unit 1H
Field	Doddridge	Wellbore	Jimmy Unit 1H AWB
Facility	Strickling Pad		

## WELLPATH DATA (204 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
11410.00	89.320	151.420	6771.57	4468.23	-4349.59	1166.06	1702679.67	14278601.92	39°19'12.772"N	80°46'47.445"W	4503.18	164.993	4.71	-0.76	-4.68	
11505.00	89.140	148.870	6772.84	4562.36	-4431.97	1213.34	1702726.94	14278519.58	39°19'11.957"N	80°46'46.846"W	4595.05	164.989	2.69	-0.19	-2.68	
11599.00	88.860	150.320	6774.48	4655.36	-4513.02	1260.90	1702774.48	14278438.55	39°19'11.155"N	80°46'46.244"W	4685.86	164.990	1.57	-0.30	-1.54	
11694.00	89.320	153.040	6775.99	4749.79	-4596.63	1305.96	1702819.52	14278354.97	39°19'10.327"N	80°46'45.673"W	4778.55	164.139	2.90	0.48	2.86	
11789.00	89.320	155.820	6777.12	4844.61	-4682.32	1346.96	1702860.50	14278269.33	39°19'09.480"N	80°46'45.154"W	4872.20	163.951	2.93	0.00	2.93	
11883.00	89.380	157.710	6778.19	4938.58	-4768.68	1384.04	1702897.57	14278182.99	39°19'08.625"N	80°46'44.685"W	4965.47	163.815	2.01	0.06	2.01	
11977.00	89.290	159.130	6779.28	5032.57	-4856.09	1418.61	1702932.12	14278095.63	39°19'07.760"N	80°46'44.248"W	5059.05	163.715	1.51	-0.10	1.51	
12073.00	89.320	159.280	6780.44	5128.53	-4945.63	1452.69	1702966.19	14278005.92	39°19'06.873"N	80°46'43.817"W	5154.75	163.631	0.16	0.03	0.16	
12168.00	89.450	160.450	6781.46	5223.47	-5035.01	1485.39	1702998.88	14277916.77	39°19'05.990"N	80°46'43.404"W	5249.55	163.563	1.24	0.14	1.23	
12262.00	89.420	161.570	6782.39	5317.32	-5123.89	1515.97	1703029.45	14277827.93	39°19'05.111"N	80°46'43.017"W	5343.45	163.518	1.19	-0.03	1.19	
12355.00	89.880	160.130	6782.96	5410.19	-5211.74	1546.48	1703059.94	14277740.11	39°19'04.242"N	80°46'42.632"W	5436.34	163.473	1.63	0.49	-1.55	
12450.00	89.200	157.740	6783.72	5505.16	-5300.38	1580.62	1703094.07	14277651.51	39°19'03.365"N	80°46'42.200"W	5531.04	163.395	2.62	-0.72	-2.52	
12544.00	89.450	158.030	6784.83	5599.15	-5387.46	1616.01	1703129.44	14277564.46	39°19'02.504"N	80°46'41.753"W	5624.61	163.303	0.41	0.27	0.31	
12637.00	89.510	158.290	6785.67	5692.15	-5473.78	1650.60	1703164.03	14277478.18	39°19'01.650"N	80°46'41.315"W	5717.23	163.219	0.29	0.06	0.28	
12732.00	89.540	160.040	6786.48	5787.12	-5562.56	1684.39	1703197.80	14277389.43	39°19'00.771"N	80°46'40.888"W	5811.99	163.153	1.84	0.03	1.84	
12826.00	89.480	160.540	6787.26	5881.03	-5651.05	1716.09	1703229.49	14277300.98	39°18'59.896"N	80°46'40.487"W	5905.87	163.108	0.54	-0.06	0.53	
12921.00	89.850	162.570	6787.82	5975.82	-5741.17	1746.15	1703259.53	14277210.90	39°18'59.005"N	80°46'40.108"W	6000.83	163.083	2.17	0.39	2.14	
13015.00	89.780	161.360	6788.12	6069.58	-5830.54	1775.25	1703288.62	14277121.55	39°18'58.120"N	80°46'39.740"W	6094.81	163.066	1.29	-0.07	-1.29	
13109.00	89.850	157.580	6788.43	6163.52	-5918.56	1808.21	1703321.57	14277033.58	39°18'57.250"N	80°46'39.324"W	6188.61	163.011	4.02	0.07	-4.02	
13204.00	89.970	154.210	6788.58	6258.45	-6005.26	1847.00	1703360.35	14276948.91	39°18'56.392"N	80°46'38.833"W	6282.88	162.904	3.55	0.13	-3.55	
13298.00	90.220	156.890	6788.42	6352.37	-6090.82	1885.90	1703399.23	14276861.38	39°18'55.545"N	80°46'38.341"W	6376.11	162.796	2.86	0.27	2.85	
13393.00	90.090	157.510	6788.16	6447.36	-6178.40	1922.72	1703436.03	14276773.84	39°18'54.679"N	80°46'37.875"W	6470.66	162.714	0.67	-0.14	0.65	
13489.00	90.030	159.070	6788.06	6543.35	-6267.59	1958.23	1703471.53	14276684.69	39°18'53.796"N	80°46'37.426"W	6566.38	162.649	1.63	-0.06	1.63	
13583.00	90.030	159.120	6788.01	6637.33	-6355.40	1991.77	1703505.08	14276596.91	39°18'52.928"N	80°46'37.002"W	6660.20	162.589	0.05	0.00	0.05	
13678.00	90.150	157.820	6787.86	6732.32	-6443.77	2026.63	1703539.30	14276508.57	39°18'52.053"N	80°46'36.561"W	6754.95	162.541	1.37	0.13	-1.37	
13772.00	89.940	157.530	6787.79	6826.32	-6530.72	2062.34	1703575.60	14276421.65	39°18'51.193"N	80°46'36.110"W	6848.62	162.474	0.38	-0.22	-0.31	
13867.00	89.940	157.130	6787.89	6921.32	-6618.38	2098.95	1703612.20	14276334.03	39°18'50.326"N	80°46'35.646"W	6943.24	162.404	0.42	0.00	-0.42	
13962.00	89.910	157.130	6788.01	7016.31	-6705.92	2135.87	1703649.10	14276246.53	39°18'49.460"N	80°46'35.180"W	7037.84	162.333	0.03	-0.03	0.00	
14057.00	90.180	158.660	6787.94	7111.31	-6793.93	2171.62	1703684.84	14276158.55	39°18'48.599"N	80°46'34.727"W	7132.56	162.274	1.64	0.28	1.61	
14151.00	90.280	159.100	6787.56	7205.29	-6881.61	2205.49	1703718.69	14276070.90	39°18'47.722"N	80°46'34.299"W	7226.40	162.230	0.48	0.11	0.47	





# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'  
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Strickling Pad
Slot	Slot #03
Well	Jimmy Unit 1H
Wellbore	Jimmy Unit 1H AWB

WELLPATH DATA (204 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
14244.00	89.850	160.930	6787.46	7298.22	-6969.01	2237.27	1703750.47	14275983.54	39°18'46.857"N	80°46'33.898"W	7319.32	162.202	2.02	-0.46	1.97	
14339.00	90.030	159.060	6787.56	7393.15	-7056.27	2269.77	1703762.95	14275894.31	39°18'45.974"N	80°46'33.487"W	7414.25	162.173	1.98	0.19	-1.97	
14433.00	89.820	158.280	6787.68	7487.14	-7145.83	2303.96	1703817.13	14275806.79	39°18'45.108"N	80°46'33.055"W	7508.08	162.130	0.86	-0.22	-0.83	
14527.00	90.340	156.340	6787.55	7581.13	-7232.55	2340.22	1703853.37	14275720.10	39°18'44.250"N	80°46'32.596"W	7601.74	162.070	2.14	0.55	-2.06	
14622.00	90.550	154.910	6786.81	7676.06	-7319.08	2379.43	1703892.56	14275633.61	39°18'43.394"N	80°46'32.100"W	7696.14	161.991	1.52	0.22	-1.51	
14717.00	90.550	152.080	6785.90	7770.77	-7404.09	2421.81	1703934.93	14275548.64	39°18'42.552"N	80°46'31.564"W	7790.10	161.888	2.97	0.00	-2.97	
14812.00	90.680	152.000	6784.96	7865.28	-7488.03	2466.28	1703979.38	14275464.73	39°18'41.722"N	80°46'31.000"W	7883.73	161.770	0.03	0.03	-0.01	
14907.00	90.490	152.180	6784.07	7959.81	-7572.01	2510.69	1704023.77	14275380.78	39°18'40.891"N	80°46'30.438"W	7977.40	161.656	0.14	-0.09	0.11	
15002.00	90.620	156.380	6783.10	8054.36	-7656.15	2554.79	1704067.85	14275296.68	39°18'40.058"N	80°46'29.880"W	8071.15	161.547	0.39	0.20	0.34	
15096.00	90.550	155.170	6782.09	8148.00	-7739.78	2597.68	1704110.73	14275213.07	39°18'39.230"N	80°46'29.337"W	8164.08	161.447	0.76	-0.14	0.74	
15191.00	90.550	155.170	6781.18	8242.79	-7825.29	2639.05	1704152.08	14275127.60	39°18'38.384"N	80°46'28.813"W	8258.32	161.364	2.07	0.00	2.07	
15287.00	90.650	159.460	6779.16	8432.71	-7999.93	2713.76	1704226.76	14274953.04	39°18'37.518"N	80°46'28.315"W	8353.86	161.299	1.26	0.07	1.26	
15476.00	90.950	160.560	6777.83	8527.63	-8039.19	2746.24	1704259.22	14274863.81	39°18'35.773"N	80°46'27.458"W	8447.68	161.262	3.28	0.03	3.28	
15571.00	91.290	158.510	6775.98	8622.56	-8178.17	2779.44	1704292.42	14274774.86	39°18'34.893"N	80°46'27.038"W	8542.65	161.248	1.20	0.32	1.16	
15665.00	91.350	153.830	6773.81	8716.47	-8264.11	2817.40	1704330.36	14274688.95	39°18'34.042"N	80°46'26.558"W	8637.58	161.229	2.19	0.36	-2.16	
15759.00	91.630	158.420	6771.36	8810.37	-8350.02	2855.42	1704368.37	14274603.08	39°18'33.192"N	80°46'26.077"W	8731.17	161.175	4.98	0.06	-4.98	
15854.00	91.540	161.430	6768.74	8905.26	-8439.20	2888.02	1704400.95	14274513.93	39°18'32.310"N	80°46'25.665"W	8824.75	161.121	4.89	0.30	4.88	
15948.00	91.510	161.640	6766.23	8999.04	-8528.33	2917.78	1704430.70	14274424.84	39°18'31.429"N	80°46'25.290"W	8919.68	161.108	3.17	-0.09	3.17	
16042.00	91.380	161.270	6763.86	9092.82	-8617.42	2947.66	1704460.57	14274335.79	39°18'30.547"N	80°46'24.912"W	9013.65	161.113	0.23	-0.03	0.22	
16137.00	91.510	158.880	6761.47	9187.71	-8706.70	2980.03	1704492.92	14274246.54	39°18'29.664"N	80°46'24.503"W	9107.62	161.116	0.42	-0.14	-0.39	
16231.00	91.480	160.450	6759.02	9281.63	-8794.81	3012.88	1704525.56	14274158.47	39°18'28.792"N	80°46'24.091"W	9202.56	161.106	2.52	0.14	-2.52	
16326.00	91.290	161.350	6756.72	9376.47	-8884.55	3043.76	1704556.63	14274068.76	39°18'27.905"N	80°46'23.698"W	9296.50	161.091	1.67	-0.03	1.67	
16379.00	91.290	161.350	6755.53	9429.35	-8934.76	3060.70	1704573.56	14274018.58	39°18'27.408"N	80°46'23.484"W	9391.47	161.089	0.97	-0.20	0.95	
											9444.46	161.091	0.00	0.00	0.00	Projected MD @ TD: 16379'



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION	Well	Jimmy Unit 1H
Area	Doddridge Co., WV	Wellbore	Jimmy Unit 1H AWB
Field	Doddridge		
Facility	Strickling Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Jimmy Unit 1H AWB Ref Wellpath: Jimmy Unit 1H AWP Proj: 16379'										
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]	End E/W [ft]
20in Conductor	24.50	104.50	80.00	24.50	104.50	0.00	-0.02	0.00	-0.02	0.30
17.5in Open Hole	104.50	372.80	268.30	104.50	372.79	-0.02	-0.03	0.30	-0.03	2.31
13.375in Casing Surface	24.50	372.80	348.30	24.50	372.79	0.00	-0.03	0.00	-0.03	2.31
12.25in Open Hole	372.80	2577.20	2204.40	372.79	2576.97	-0.03	5.08	2.31	5.08	-5.66
9.625in Casing Intermediate	24.50	2577.20	2552.70	24.50	2576.97	0.00	5.08	0.00	5.08	-5.66
8.75in Open Hole	2577.20	6961.50	4384.30	2576.97	6683.77	5.08	-238.26	-5.66	-238.26	-494.42
8.5in Open Hole	6961.50	16379.00	9417.50	6683.77	6755.53	-238.26	-8934.76	-494.42	-8934.76	3060.70
5.5in Casing Production	24.50	16379.00	16354.50	24.50	6755.53	0.00	-8934.76	0.00	-8934.76	3060.70

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Jimmy Unit 1H POE - Rev-2	6689.00	-251.81	-490.22	1701024.06	14282698.07	39°19'53.313"N	80°47'08.396"W	point
Jimmy Unit 1H BHL - Rev-3	6730.00	-8950.80	3061.92	1704574.78	14274002.54	39°18'27.249"N	80°46'23.469"W	point
Jimmy Unit 1H LP Rev-1	6730.00	-453.37	-400.56	1701113.68	14282496.59	39°19'51.319"N	80°47'07.261"W	point



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Jimmy Unit 1H
Field	Doddridge	Wellbore	Jimmy Unit 1H AWB
Facility	Strickling Pad		

WELLPATH COMPOSITION - Ref Wellbore: Jimmy Unit 1H AWB Ref Wellpath: Jimmy Unit 1H AWP Proj: 16379'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
24.50	359.50	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(100'-350')
359.50	996.50	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(350')(406'-987')
996.50	2496.50	ISCVSA MWD. Rev. 4 (Standard)	03 WFT EM <12-1/4">(987')(1104'-2487')
2496.50	6887.50	ISCVSA MWD. Rev. 4 (Standard)	04 WFT EM <8-3/4">(2487')(2627'-6878')
6887.50	16326.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2">(6887.50')(6936'-16326')
16326.00	16379.00	Blind Drilling (std)	Projection to bit
			Jimmy Unit 1H AWB
			Jimmy Unit 1H AWB
			Jimmy Unit 1H AWB
			Jimmy Unit 1H AWB
			Jimmy Unit 1H AWB

02/15/2019



# Actual Wellpath Report

Jimmy Unit 1H AWP Proj: 16379'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Jimmy Unit 1H
Field	Doddridge	Wellbore	Jimmy Unit 1H AWB
Facility	Strickling Pad		

**COMMENTS**

Wellpath general comments  
 API: 47-017-06838-0000  
 BH Job #: 9084029  
 Rig: Frontier 22  
 Duration: 04/06/18 - 04/09/18  
 Gyrodatta MS Gyro <17-1/2">(100'-350')  
 Gyrodatta MS Gyro <12-1/4">(350')(406'-987')  
 WFT EM <12-1/4">(987')(1104'-2487')  
 WFT EM <8-3/4">(2487')(2627'-6878')  
 Burket: 6810'MD / 6611'TVD  
 Tully: 6870'MD / 6643'TVD  
 BH AT Curve <8-1/2"> (6887.50')(6936'-16326')  
 Hamilton: 6951'MD / 6680'TVD  
 POE Marcellus: 6973'MD / 6688'TVD  
 Projected MD @ TD: 16379'

02/15/2019