



# ANTERO RESOURCES CORPORATION



06/01/2018

Location: Doddridge Co., WV  
 Field: Long Run Pad  
 Facility: Long Run Pad

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

Pvt reference wellbore is Janice Unit 2H PWB Rev-A-0	Grid System: NAD83 / UTM Zone 17 North, US Feet
True vertical depths are referenced to Frontier 22 (RKB)	* = Wellpath was transformed from a different geoidic datum
Measured depths are referenced to Frontier 22 (RKB)	North Reference: Grid north
Frontier 22 (RKB) to Mean Sea Level: 1045.5 feet	Scale: True distance
Mean Sea Level to Mud line (AI Slot: Slot #02): -1021 feet	Depth are in feet
Coordinates are in feet referenced to Slot	Created by: dlabon on 2017-05-15
	Database: WA_MPL_Estimateus_Dwh

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude
Long Run Pad	1678891.242	14271319.517	39°18'01.230"N
Local N (ft)	Local E (ft)	Grid East (US ft)	Longitude
17.19	-9.46	14271326.700	80°51'50.380"W
Slot #02			80°51'50.510"W
Comment: Janice Unit 2H			24.5ft
Frontier 22 (RKB) to Mud line (AI Slot: Slot #02)			-1021ft
Mean Sea Level to Mud line (AI Slot: Slot #02)			1045.5ft
Frontier 22 (RKB) to Mean Sea Level			

Gyrodatta MS Gyro <17-1/2"> (100-474) : 0.12° Inc. 111.50ft MD. 111.50ft TVD. 0.05ft VS

Gyrodatta Cont. Gyro <12-1/4"> (474)(503-1437) : 0.70° Inc. 514.50ft MD. 514.49ft TVD. 0.72ft VS

Directional ONE MWD <12-1/4"> (1437)(1557-2431) : 6.02° Inc. 1565.20ft MD. 1565.20ft TVD. -0.96ft VS

Directional ONE MWD <8-3/4"> (2431)(2629-5658) : 0.36° Inc. 2640.50ft MD. 2636.64ft TVD. -5.52ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #02	Janice Unit 2H	Janice Unit 2H AWB	Janice Unit 2H AWB Proj: 13850
Slot #02	Janice Unit 2H	Janice Unit 2H PWB	Janice Unit 2H PWB Rev-A-0

Directional ONE MWD <8-3/4"> (2431)(2629-5658) : 0.36° Inc. 2640.50ft MD. 2636.64ft TVD. -5.52ft VS

Well Profile Data						
Design Comment	MD (ft)	Inch (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)
The On	5669.50	1.100	311.830	5665.37	27.63	64.89
Prod. To Bottom	5751.50	1.100	311.830	5747.36	28.68	63.72
Curve KOP	5851.35	1.100	311.830	5847.19	29.96	62.29
End of 3D Arc	6161.51	25.728	344.642	6146.64	97.93	41.92
POE	6615.39	71.757	341.796	6438.00	414.94	-56.88
Landing Pt.	6767.42	90.000	341.796	6462.00	556.93	-103.58
BHL	13877.42	90.000	341.796	6462.00	7311.08	-2324.74
						0.00

API: 47-017-06781-0000

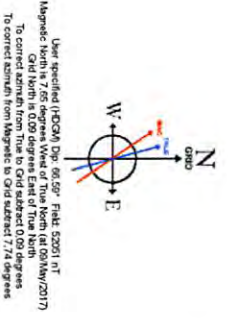
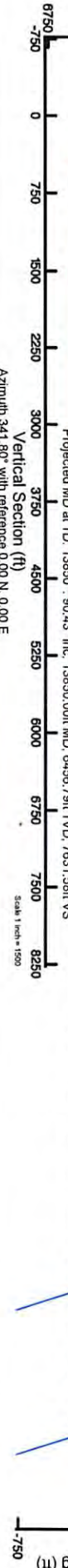
BHI Job #: 8546094

Rig: Frontier 22

Duration: 05/11/2017-05/12/2017

BHI AT Curve <8-1/2"> (5659.50)(5723-13792) : 1.81° Inc. 5723.00ft MD. 5718.88ft TVD. 7.13ft VS

Marcellus POE: 6635 MD : 72.95° Inc. 6635.00ft MD. 6441.93ft TVD. 435.92ft VS



User specified (RKB) Dip: 66.00° Flat: 62051 nT  
 Magnetic North is 7.65 degrees West of True North (at 00N/2017)  
 To correct azimuth from True to Grid subtract 0.00 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.74 degrees

BHI AT Curve <8-1/2"> (5659.50)(5723-13792) : 1.81° Inc. 5723.00ft MD. 5718.88ft TVD. 7.13ft VS  
 Directional ONE MWD <8-3/4"> (2431)(2629-5658) : 0.36° Inc. 2640.50ft MD. 2636.64ft TVD. -5.52ft VS  
 Directional ONE MWD <12-1/4"> (1437)(1557-2431) : 6.02° Inc. 1565.20ft MD. 1565.20ft TVD. -0.96ft VS  
 Gyrodatta Cont. Gyro <12-1/4"> (474)(503-1437) : 0.70° Inc. 514.49ft TVD. 0.72ft VS  
 Gyrodatta MS Gyro <17-1/2"> (100-474) : 0.12° Inc. 111.50ft TVD. 0.05ft VS

Marcellus POE: 6635 MD : 72.95° Inc. 6635.00ft MD. 6441.93ft TVD. 435.92ft VS  
 Projected MD at TD: 13850 : 90.43° Inc. 13850.00ft MD. 6456.79ft TVD. 7631.58ft VS  
 Scale: 1 inch = 1500



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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06/01/2018

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

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Delaset
Scale	0.999602	Report Generated	15/May/2017 at 10:02
Convergence at slot	0.09° East	Database/Source file	WA_MPL_EasternUS_DefnJanice Unit 2H AWP Proj_13850_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	17.19	-9.46	1678881.79	14271336.70	39°18'01.400"N	80°51'50.510"W
Facility Reference Pt			1678891.24	14271319.52	39°18'01.230"N	80°51'50.390"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	1045.50ft
Vertical Reference Pt	Frontier 22 (RKB)	Frontier 22 (RKB) to Mud Line 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	341.80°



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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06/01/2018

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

WELLPATH DATA (189 stations) † = interpolated/extrapolated station																	
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure	Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	°	ft/100ft	ft/100ft	ft/100ft	
0.00†	0.000	35.790	0.00	0.00	0.00	0.00	167.8881.79	14271336.70	39°18'01.400"N	80°51'50.510"W	0.00	0.000	0.00	0.00	0.00	0.00	
24.50	0.000	35.790	24.50	0.00	0.00	0.00	167.8881.79	14271336.70	39°18'01.400"N	80°51'50.510"W	0.00	0.000	0.00	0.00	0.00	0.00	
111.50	0.120	35.790	111.50	0.05	0.07	0.05	167.8881.84	14271336.77	39°18'01.401"N	80°51'50.509"W	0.09	35.790	0.14	0.14	0.14	41.14	Synodata MS Gyro <17-172> (100.474)
211.50	0.260	13.930	211.50	0.31	0.38	0.17	167.8881.96	14271337.08	39°18'01.404"N	80°51'50.508"W	0.42	24.047	0.16	0.14	-21.86		
311.50	0.320	33.040	311.50	0.67	0.83	0.38	167.8882.17	14271337.53	39°18'01.408"N	80°51'50.505"W	0.91	24.285	0.11	0.06	19.11		
411.50	0.550	72.380	411.50	0.94	1.21	0.99	167.8882.78	14271337.91	39°18'01.412"N	80°51'50.497"W	1.56	39.104	0.36	0.23	39.34		
485.50	0.770	77.590	485.49	0.79	1.43	1.81	167.8883.60	14271338.13	39°18'01.414"N	80°51'50.487"W	2.30	51.743	0.31	0.30	7.04		
514.50	0.700	86.830	514.49	0.72	1.48	1.21	167.8883.97	14271338.18	39°18'01.415"N	80°51'50.482"W	2.33	55.813	0.47	-0.24	0.20	14.45	Synodata Cont Gyro <12-14> (474)(503-1437)
574.50	0.820	95.500	574.48	0.46	1.46	2.97	167.8884.76	14271338.16	39°18'01.414"N	80°51'50.472"W	3.61	63.857	0.28	0.07	-6.18		
634.50	0.860	91.790	634.48	0.13	1.40	3.85	167.8885.64	14271338.16	39°18'01.414"N	80°51'50.448"W	4.10	69.971	0.11	0.35	-14.85		
694.50	1.070	82.880	694.47	-0.13	1.46	4.85	167.8886.64	14271338.16	39°18'01.414"N	80°51'50.448"W	5.07	73.279	0.43	0.18	-22.38		
754.50	1.180	69.450	754.46	-0.21	1.74	5.99	167.8887.78	14271338.44	39°18'01.417"N	80°51'50.434"W	6.24	73.759	0.47	0.18	-19.81		
817.50	1.510	56.970	817.44	0.03	2.42	7.29	167.8888.08	14271339.12	39°18'01.424"N	80°51'50.417"W	7.68	71.607	0.70	0.52	-0.22		
877.50	1.950	56.840	877.41	0.49	3.41	8.81	167.8889.60	14271340.11	39°18'01.434"N	80°51'50.398"W	9.45	68.816	0.73	0.73	-0.22		
943.50	2.340	56.430	943.37	1.14	4.77	10.87	167.8889.66	14271341.47	39°18'01.447"N	80°51'50.372"W	11.87	66.296	0.59	0.59	-0.62		
1006.50	2.710	55.210	1006.30	1.90	6.33	13.17	167.8889.95	14271343.03	39°18'01.462"N	80°51'50.342"W	14.61	64.309	0.59	0.58	-1.94		
1069.50	3.080	61.540	1069.22	2.63	7.99	15.88	167.8889.66	14271344.69	39°18'01.479"N	80°51'50.308"W	17.77	63.286	0.78	0.59	10.05		
1132.50	3.880	74.330	1132.11	2.84	9.37	19.42	167.8901.20	14271346.07	39°18'01.492"N	80°51'50.263"W	21.56	64.234	1.76	1.27	20.30		
1195.50	4.860	81.120	1194.92	2.31	10.36	24.11	167.8905.89	14271347.06	39°18'01.502"N	80°51'50.203"W	26.24	66.743	1.76	1.56	10.78		
1258.50	5.900	79.730	1257.66	1.43	11.35	29.93	167.8911.71	14271348.05	39°18'01.512"N	80°51'50.129"W	32.01	69.233	1.66	1.65	-2.21		
1321.50	6.660	76.760	1320.27	0.67	12.76	36.67	167.8918.45	14271349.46	39°18'01.526"N	80°51'50.043"W	38.83	70.810	1.31	1.21	-4.71		
1384.50	7.960	74.570	1382.75	0.14	14.76	44.43	167.8926.21	14271351.46	39°18'01.545"N	80°51'49.944"W	46.82	71.623	2.11	2.06	-3.48		
1448.50	8.150	73.970	1446.12	-0.24	17.19	53.07	167.8934.83	14271353.88	39°18'01.569"N	80°51'49.835"W	55.78	72.048	0.32	0.30	-0.94		
1568.50	6.020	75.440	1565.20	-0.96	21.12	67.33	167.8949.10	14271357.82	39°18'01.608"N	80°51'49.653"W	70.57	72.582	1.78	-1.78	-1.78	1.23	Directional ONE MWD <12-14> (1437)(1557-2431)
1631.50	4.060	79.520	1627.95	-1.47	22.36	72.72	167.8954.48	14271359.05	39°18'01.620"N	80°51'49.584"W	76.08	72.909	3.16	-3.11	6.48		
1694.50	2.580	94.380	1690.85	-2.32	22.66	76.33	167.8958.09	14271359.35	39°18'01.623"N	80°51'49.539"W	79.62	73.467	2.70	-2.35	23.59		
1758.50	1.900	119.510	1754.80	-3.65	22.03	78.69	167.8960.45	14271358.72	39°18'01.617"N	80°51'49.509"W	81.71	74.363	1.84	-1.06	39.27		
1821.50	2.010	149.670	1817.76	-5.51	20.56	80.16	167.8961.92	14271357.29	39°18'01.602"N	80°51'49.490"W	82.75	75.616	1.62	0.17	47.87		
1884.50	1.680	161.580	1880.73	-7.51	18.73	81.01	167.8962.76	14271355.42	39°18'01.584"N	80°51'49.479"W	83.14	76.983	0.80	-0.52	18.90		
1946.50	0.910	183.330	1942.72	-8.88	17.37	81.27	167.8963.02	14271354.07	39°18'01.571"N	80°51'49.476"W	83.10	77.933	1.45	-1.24	35.08		



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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06/01/2018

REFERENCE WELLPATH IDENTIFICATION									
Operator	ANTERO RESOURCES CORPORATION								
Area	Doddridge Co., WV								
Field	Doddridge								
Facility	Long Run Pad								

WELLPATH DATA (189 stations)																
MD	Inclination	Azimuth	TVD	Vert Seet	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft			ft	°	ft/100ft	ft/100ft	ft/100ft	
2010.50	0.550	212.060	2006.71	-9.55	16.61	81.07	1678962.83	14271353.30	39°18'01.563"N	80°51'49.478"W	82.76	78.425	0.79	-0.56	44.89	
2073.50	1.050	315.480	2069.71	-9.22	16.76	80.51	1678962.27	14271353.45	39°18'01.565"N	80°51'49.486"W	82.23	78.240	2.05	0.79	164.16	
2136.50	1.240	302.240	2132.69	-8.18	17.54	79.53	1678961.28	14271354.23	39°18'01.572"N	80°51'49.498"W	81.44	77.565	0.52	0.30	-21.02	
2200.50	1.160	289.950	2196.68	-7.25	18.13	78.33	1678960.09	14271354.82	39°18'01.578"N	80°51'49.513"W	80.40	76.971	0.42	-0.13	-19.20	
2263.50	1.510	278.510	2259.66	-6.48	18.47	76.91	1678958.67	14271355.16	39°18'01.581"N	80°51'49.531"W	79.10	76.498	0.70	0.56	-18.16	
2326.50	1.090	283.250	2322.65	-5.79	18.73	75.51	1678957.27	14271355.42	39°18'01.584"N	80°51'49.549"W	77.80	76.071	0.69	-0.67	7.52	
2389.50	0.350	252.090	2385.64	-5.48	18.81	74.74	1678956.50	14271355.50	39°18'01.585"N	80°51'49.559"W	77.07	75.877	1.29	-1.17	-49.46	
2442.50	0.310	178.090	2438.64	-5.62	18.61	74.59	1678956.35	14271355.30	39°18'01.583"N	80°51'49.561"W	76.88	75.989	0.75	-0.08	-139.62	
2640.50	0.360	353.900	2636.64	-5.52	18.70	74.54	1678956.30	14271355.39	39°18'01.584"N	80°51'49.561"W	76.85	75.921	0.34	0.03	88.79	Directional ONE MWD <-8-3/4"> (2431')(2629'-5658)
2703.50	0.350	4.740	2699.64	-5.15	19.08	74.54	1678956.12	14271355.78	39°18'01.588"N	80°51'49.561"W	76.94	75.639	0.11	-0.02	17.21	
2766.50	0.370	283.500	2762.64	-4.87	19.32	74.36	1678956.12	14271356.02	39°18'01.590"N	80°51'49.564"W	76.83	75.433	0.74	0.03	-128.95	
2829.50	0.200	287.300	2825.64	-4.70	19.40	74.05	1678955.81	14271356.10	39°18'01.591"N	80°51'49.568"W	76.55	75.317	0.27	-0.27	6.03	
2892.50	0.150	263.490	2888.64	-4.62	19.43	73.87	1678955.63	14271356.12	39°18'01.591"N	80°51'49.570"W	76.38	75.265	0.14	-0.08	-37.79	
2956.50	0.450	232.170	2952.64	-4.68	19.26	73.59	1678955.35	14271355.96	39°18'01.589"N	80°51'49.574"W	76.06	75.330	0.52	0.47	-48.94	
3019.50	0.370	236.230	3015.63	-4.82	19.00	73.22	1678954.98	14271355.69	39°18'01.587"N	80°51'49.578"W	75.65	75.454	0.14	-0.13	6.44	
3082.50	0.360	283.380	3078.63	-4.77	18.93	72.86	1678954.62	14271355.62	39°18'01.588"N	80°51'49.583"W	75.28	75.435	0.46	-0.02	74.84	
3145.50	0.310	317.620	3141.63	-4.51	19.10	72.55	1678954.31	14271355.80	39°18'01.588"N	80°51'49.587"W	75.02	75.249	0.32	-0.08	54.35	
3208.50	0.240	354.700	3204.63	-4.23	19.36	72.42	1678954.19	14271356.05	39°18'01.590"N	80°51'49.588"W	74.97	75.034	0.30	-0.11	58.86	
3271.50	0.460	333.170	3267.63	-3.85	19.72	72.30	1678954.08	14271356.41	39°18'01.594"N	80°51'49.590"W	74.94	74.745	0.40	0.35	-34.17	
3334.50	0.620	313.020	3330.63	-3.30	20.18	71.93	1678953.70	14271356.87	39°18'01.598"N	80°51'49.595"W	74.71	74.333	0.39	0.25	-31.98	
3397.50	0.140	313.250	3393.63	-2.94	20.46	71.63	1678953.39	14271357.15	39°18'01.601"N	80°51'49.598"W	74.49	74.058	0.76	-0.76	0.37	
3460.50	1.010	149.780	3456.62	-3.41	20.03	71.85	1678953.61	14271356.73	39°18'01.597"N	80°51'49.596"W	74.59	74.421	1.82	1.38	-259.48	
3523.50	1.320	150.380	3519.61	-4.67	18.92	72.49	1678954.25	14271356.62	39°18'01.586"N	80°51'49.587"W	74.92	75.370	0.49	0.49	0.95	
3586.50	0.870	147.460	3581.60	-5.82	17.91	73.10	1678954.86	14271354.60	39°18'01.576"N	80°51'49.580"W	75.26	76.236	0.73	-0.73	-4.71	
3649.50	0.690	848.430	3645.60	-5.91	17.87	73.28	1678955.04	14271354.57	39°18'01.576"N	80°51'49.577"W	75.43	76.293	2.40	-0.28	-248.48	
3712.50	0.950	342.880	3708.59	-5.01	18.74	72.67	1678954.43	14271355.24	39°18'01.584"N	80°51'49.580"W	75.42	75.609	0.43	0.41	-9.29	
3775.50	0.680	322.580	3771.58	-4.13	19.54	72.67	1678954.43	14271356.23	39°18'01.582"N	80°51'49.585"W	75.25	74.950	0.61	-0.43	-31.27	
3838.50	0.960	322.300	3834.58	-4.04	19.45	72.09	1678953.85	14271356.14	39°18'01.591"N	80°51'49.593"W	74.86	74.902	2.02	0.44	-159.65	
3902.50	1.110	235.360	3898.57	-4.48	18.70	71.22	1678952.98	14271355.39	39°18'01.584"N	80°51'49.604"W	73.63	75.288	0.44	0.23	20.41	
3965.50	1.170	230.930	3961.56	-4.88	17.95	70.21	1678951.98	14271354.64	39°18'01.576"N	80°51'49.616"W	72.47	75.662	0.17	0.10	-7.03	



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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06/01/2018

REFERENCE WELLPATH IDENTIFICATION									
Operator	ANTERO RESOURCES CORPORATION								
Area	Doddridge Co., WV								
Field	Doddridge								
Facility	Long Run Pad								

WELLPATH DATA (189 stations)																	
MD	Inclination	Asimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure	Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ftH	°	°	ftH	ftH	ftH	ftH	US ftH	US ftH			ftH	ftH	°	ft/100ft	ft/100ft	ft/100ft	
4028.50	0.840	161.460	4024.55	-5.57	17.10	69.86	1678951.62	14271353.80	39°18'01.568"N	80°51'49.621"W	71.92	76.244	1.87	-0.52	-110.27		
4092.50	0.740	183.150	4088.54	-6.43	16.25	69.99	1678951.75	14271352.94	39°18'01.560"N	80°51'49.619"W	71.85	76.932	0.49	-0.16	33.89		
4155.50	0.400	152.650	4151.54	-7.02	15.64	70.07	1678951.83	14271352.34	39°18'01.554"N	80°51'49.618"W	71.79	77.414	0.71	-0.54	-48.41		
4218.50	1.040	57.430	4214.54	-7.10	15.76	70.65	1678952.41	14271352.45	39°18'01.555"N	80°51'49.611"W	72.38	77.427	1.82	1.02	-151.14		
4281.50	0.930	17.070	4277.53	-6.54	16.56	71.28	1678953.04	14271353.25	39°18'01.563"N	80°51'49.603"W	73.18	76.926	1.09	-0.17	-64.06		
4344.50	1.070	358.840	4340.52	-5.56	17.63	71.42	1678953.18	14271354.32	39°18'01.573"N	80°51'49.601"W	73.56	76.134	0.55	0.22	-28.94		
4408.50	1.130	338.730	4404.51	-4.36	18.82	71.18	1678952.94	14271355.51	39°18'01.585"N	80°51'49.604"W	73.62	75.193	0.61	0.09	-31.42		
4471.50	1.310	331.510	4467.49	-3.03	20.03	70.61	1678952.37	14271356.72	39°18'01.585"N	80°51'49.611"W	73.39	74.165	0.38	0.29	-11.46		
4534.50	1.090	318.270	4530.48	-1.77	21.11	69.87	1678951.63	14271357.80	39°18'01.608"N	80°51'49.621"W	72.99	73.190	0.56	-0.35	-21.02		
4597.50	0.840	276.520	4593.47	-1.03	21.61	69.01	1678950.77	14271358.30	39°18'01.613"N	80°51'49.632"W	72.31	72.615	1.15	-0.40	-66.27		
4660.50	0.760	265.350	4656.46	-0.74	21.63	68.13	1678949.90	14271358.32	39°18'01.613"N	80°51'49.643"W	71.48	72.391	0.28	-0.13	-17.73		
4723.50	0.230	222.220	4719.46	-0.70	21.50	67.63	1678949.40	14271358.19	39°18'01.612"N	80°51'49.648"W	70.97	72.366	0.97	-0.84	-68.46		
4786.50	0.130	194.370	4782.46	-0.82	21.34	67.53	1678949.29	14271358.03	39°18'01.610"N	80°51'49.651"W	70.82	72.467	0.21	-0.16	-44.21		
4849.50	0.260	332.590	4845.46	-0.74	21.39	67.45	1678949.21	14271358.08	39°18'01.610"N	80°51'49.652"W	70.76	72.402	0.58	0.21	219.40		
4912.50	0.470	300.240	4908.46	-0.41	21.65	67.16	1678948.92	14271358.34	39°18'01.613"N	80°51'49.655"W	70.56	72.132	0.45	0.33	-51.35		
4975.50	0.360	307.010	4971.46	-0.05	21.90	66.78	1678948.54	14271358.59	39°18'01.615"N	80°51'49.660"W	70.28	71.843	0.19	-0.17	10.75		
5039.50	0.640	318.450	5035.46	0.44	22.29	66.38	1678948.14	14271358.98	39°18'01.619"N	80°51'49.665"W	70.02	71.440	0.46	0.44	17.88		
5102.50	1.110	302.060	5098.45	1.23	22.87	65.63	1678947.39	14271359.57	39°18'01.625"N	80°51'49.675"W	69.50	70.784	0.84	0.75	-26.02		
5165.50	1.030	288.940	5161.44	2.04	23.39	64.58	1678946.34	14271360.07	39°18'01.630"N	80°51'49.688"W	68.68	70.095	0.41	-0.13	-20.83		
5227.50	0.840	277.540	5223.43	2.58	23.62	63.60	1678945.36	14271360.31	39°18'01.633"N	80°51'49.701"W	67.84	69.623	0.43	-0.31	-18.39		
5290.50	0.640	266.990	5286.42	2.87	23.67	62.79	1678944.55	14271360.36	39°18'01.633"N	80°51'49.711"W	67.10	69.348	0.38	-0.32	-16.75		
5353.50	0.650	81.010	5349.42	2.91	23.70	62.79	1678944.55	14271360.39	39°18'01.633"N	80°51'49.711"W	67.11	69.319	2.04	0.02	276.22		
5417.50	0.680	65.330	5413.42	2.89	23.92	63.49	1678945.26	14271360.61	39°18'01.635"N	80°51'49.702"W	67.85	69.359	0.29	0.05	-24.50		
5480.50	1.130	44.300	5476.41	3.22	24.52	64.27	1678946.03	14271361.21	39°18'01.641"N	80°51'49.692"W	68.79	69.118	0.88	0.71	-33.38		
5543.50	1.520	30.310	5539.39	4.06	25.68	65.12	1678946.89	14271362.37	39°18'01.655"N	80°51'49.681"W	70.00	68.476	0.80	0.62	-22.21		
5606.50	0.770	346.180	5602.38	5.04	26.82	65.44	1678947.21	14271363.51	39°18'01.664"N	80°51'49.677"W	70.72	67.718	1.76	-1.19	-70.05		
5669.50	1.100	311.830	5665.37	5.98	27.63	64.89	1678946.66	14271364.32	39°18'01.672"N	80°51'49.684"W	70.53	66.935	1.01	0.52	-54.52		
5723.00	1.810	308.110	5718.86	7.13	28.50	63.84	1678945.61	14271365.18	39°18'01.681"N	80°51'49.697"W	69.91	65.948	1.34	1.33	-6.95	BH AT Curve <8-1/2"> (5669.50)(5723-13792)	
5818.00	1.410	305.550	5813.82	9.32	30.10	61.71	1678944.48	14271366.04	39°18'01.697"N	80°51'49.724"W	68.66	63.999	0.43	-0.42	-2.69		
5865.00	2.720	325.200	5860.79	10.85	31.35	60.61	1678942.37	14271368.04	39°18'01.709"N	80°51'49.738"W	68.24	62.646	3.13	2.79	41.81		



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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06/01/2018

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

WELLPATH DATA (189 stations) † = interpolated/extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	(°/100ft)	(°/100ft)	(°/100ft)	
5913.00	7.310	339.000	5908.59	15.00	35.14	58.86	1678940.63	14271371.83	39°18'01.746"N	80°51'49.761"W	68.55	59.162	9.82	9.56	28.75	
5960.00	10.600	345.680	5955.01	22.30	42.12	56.72	1678938.49	14271378.81	39°18'01.816"N	80°51'49.788"W	70.65	53.400	7.33	7.00	14.21	
6008.00	13.430	349.560	6001.96	32.23	51.88	54.62	1678936.38	14271388.56	39°18'01.912"N	80°51'49.814"W	75.33	46.489	6.13	5.90	8.08	
6055.00	16.910	349.780	6047.31	44.41	63.98	52.41	1678934.18	14271400.66	39°18'02.032"N	80°51'49.842"W	82.71	39.324	7.41	7.40	7.40	
6103.00	21.280	348.560	6092.66	59.98	79.40	49.45	1678931.22	14271416.07	39°18'02.184"N	80°51'49.879"W	93.54	31.913	9.14	9.10	-2.54	
6150.00	25.380	346.480	6135.81	78.50	97.56	45.40	1678927.17	14271434.22	39°18'02.364"N	80°51'49.931"W	107.60	24.955	8.90	8.72	-4.43	
6198.00	29.850	346.090	6178.33	100.67	119.17	40.12	1678921.89	14271455.82	39°18'02.577"N	80°51'49.997"W	125.74	18.606	9.32	9.31	-0.81	
6245.00	34.770	346.430	6218.04	125.71	143.56	34.16	1678915.94	14271480.21	39°18'02.818"N	80°51'50.073"W	147.57	13.384	10.48	10.47	0.72	
6293.00	39.570	345.920	6256.28	154.62	171.71	27.22	1678909.32	14271508.34	39°18'03.097"N	80°51'50.160"W	173.86	9.009	10.02	10.00	-1.06	
6340.00	44.490	345.800	6291.18	186.00	202.22	19.54	1678901.32	14271538.84	39°18'03.398"N	80°51'50.258"W	203.16	5.519	10.47	10.47	-0.26	
6388.00	48.590	345.800	6324.19	220.75	235.99	10.99	1678892.78	14271572.59	39°18'03.732"N	80°51'50.366"W	236.24	2.667	8.54	8.54	0.00	
6435.00	54.460	344.820	6353.42	257.46	271.56	1.65	1678883.44	14271608.15	39°18'04.084"N	80°51'50.484"W	271.57	0.349	12.60	12.49	-2.09	
6483.00	59.790	343.290	6379.47	297.72	310.30	-9.43	1678872.36	14271646.88	39°18'04.467"N	80°51'50.624"W	310.45	358.259	11.42	11.10	-3.19	
6489.00†	60.195	343.139	6382.47	302.92	315.28	-10.93	1678870.86	14271651.85	39°18'04.516"N	80°51'50.643"W	315.47	358.014	7.10	6.76	-2.51	Burket: 6489 MD
6530.00	62.970	342.140	6410.98	338.97	349.69	-21.69	1678860.10	14271686.25	39°18'04.857"N	80°51'50.779"W	350.36	356.450	7.10	6.77	-2.44	
6530.00†	64.532	342.276	6410.82	356.91	366.77	-27.18	1678854.63	14271703.32	39°18'05.025"N	80°51'50.949"W	367.77	355.762	7.84	7.81	0.68	Hully: 6550 MD
6578.00	66.720	342.460	6422.38	382.41	391.07	-34.90	1678846.90	14271727.62	39°18'05.266"N	80°51'50.946"W	392.63	354.900	7.84	7.81	0.66	
6609.00†	70.235	342.260	6433.75	411.24	418.55	-43.64	1678838.17	14271755.08	39°18'05.538"N	80°51'51.057"W	420.82	354.048	11.36	11.34	-0.65	Harrison: 6609 MD
6625.00	72.050	342.160	6438.92	426.38	432.97	-48.26	1678833.55	14271769.49	39°18'05.680"N	80°51'51.116"W	435.65	353.639	11.36	11.34	-0.62	
6635.00†	72.950	342.175	6441.93	435.92	442.05	-51.18	1678830.63	14271778.57	39°18'05.770"N	80°51'51.153"W	445.00	353.395	9.00	9.00	0.15	Marcellus POE: 6635 MD
6673.00	76.370	342.230	6451.98	472.56	476.93	-62.38	1678819.43	14271813.44	39°18'06.115"N	80°51'51.294"W	481.00	352.548	9.00	9.00	0.15	
6720.00	81.230	343.240	6461.10	518.64	520.95	-76.06	1678805.76	14271857.44	39°18'06.550"N	80°51'51.468"W	526.47	351.693	10.55	10.34	2.15	
6768.00	85.470	342.540	6468.66	566.30	566.50	-90.09	1678791.74	14271902.98	39°18'07.001"N	80°51'51.645"W	573.62	350.965	8.95	8.83	-1.46	
6815.00	90.030	342.740	6468.51	613.25	611.32	-104.09	1678777.74	14271947.77	39°18'07.444"N	80°51'51.822"W	620.12	350.336	9.71	9.70	0.43	
6862.00	90.120	339.200	6468.44	660.23	655.74	-119.42	1678762.42	14271992.18	39°18'07.883"N	80°51'52.016"W	666.53	349.679	7.53	7.53	-0.19	
6957.00	90.000	335.460	6468.34	754.93	743.39	-156.03	1678725.83	14272079.79	39°18'08.750"N	80°51'52.281"W	759.58	348.147	3.94	-0.13	-3.94	
7055.00	90.090	336.280	6468.27	850.32	830.65	-196.03	1678685.83	14272167.02	39°18'09.613"N	80°51'52.988"W	853.47	346.721	0.21	0.09	-0.19	
7148.00	89.970	336.330	6468.22	944.80	917.30	-234.97	1678645.92	14272253.64	39°18'10.470"N	80°51'53.481"W	946.92	345.633	1.11	-0.13	1.11	
7243.00	90.150	337.930	6468.12	1033.48	1004.83	-271.89	1678610.01	14272341.13	39°18'11.336"N	80°51'53.949"W	1040.97	344.859	1.69	0.19	1.68	
7338.00	90.030	340.210	6467.97	1134.37	1093.56	-305.82	1678576.09	14272429.82	39°18'12.213"N	80°51'54.379"W	1135.52	344.376	2.40	-0.13	2.40	



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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06/01/2018

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

WELLPATH DATA (189 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft			ft	°	ft/100ft	ft/100ft	ft/100ft	
734.00	90.000	346.060	6467.95	1230.30	1185.39	-333.66	1678548.26	14272521.62	39°18'13.12"N	80°51'54.732"W	1231.45	344.279	6.09	-0.03	6.09	
7529.00	90.340	345.940	6467.66	1325.05	1277.57	-356.64	1678525.29	14272613.76	39°18'14.032"N	80°51'55.022"W	1326.41	344.402	0.38	0.36	-0.13	
7624.00	90.550	341.490	6466.93	1419.97	1368.73	-383.28	1678498.67	14272704.88	39°18'14.934"N	80°51'55.359"W	1421.38	344.357	4.69	0.22	-4.68	
7719.00	90.060	338.940	6466.42	1514.92	1458.11	-415.43	1678466.53	14272794.23	39°18'15.818"N	80°51'55.767"W	1516.14	344.097	2.73	-0.52	-2.68	
7814.00	90.090	339.940	6466.30	1609.84	1547.06	-448.79	1678433.18	14272883.14	39°18'16.697"N	80°51'56.190"W	1610.84	343.823	1.05	0.03	1.05	
7909.00	89.940	341.210	6466.27	1704.81	1636.65	-480.39	1678401.60	14272972.70	39°18'17.583"N	80°51'56.590"W	1705.70	343.642	1.35	-0.16	1.34	
8004.00	89.970	342.140	6466.35	1799.81	1726.83	-510.25	1678371.74	14273062.84	39°18'18.475"N	80°51'56.968"W	1800.64	343.538	0.98	0.03	0.98	
8099.00	89.940	343.360	6466.42	1894.80	1817.56	-538.42	1678343.58	14273153.05	39°18'19.372"N	80°51'57.325"W	1895.63	343.499	1.28	-0.03	1.28	
8194.00	89.750	345.710	6466.68	1989.68	1909.11	-563.75	1678318.26	14273245.05	39°18'20.277"N	80°51'57.645"W	1990.61	343.548	2.48	-0.20	2.47	
8289.00	90.120	351.350	6466.78	2083.99	2002.18	-582.64	1678299.39	14273338.08	39°18'21.198"N	80°51'57.984"W	2085.23	343.775	5.95	0.39	5.94	
8384.00	90.460	351.080	6466.30	2177.71	2096.06	-597.15	1678284.88	14273431.92	39°18'22.126"N	80°51'58.066"W	2179.46	344.098	0.46	0.36	-0.28	
8478.00	91.200	345.240	6464.94	2271.08	2188.01	-616.42	1678265.61	14273523.84	39°18'23.035"N	80°51'58.310"W	2273.19	344.266	6.26	0.79	-6.21	
8573.00	90.460	339.190	6463.56	2366.02	2278.42	-645.42	1678236.62	14273614.21	39°18'23.929"N	80°51'58.677"W	2368.07	344.184	6.42	-0.78	-6.37	
8668.00	90.250	337.870	6462.98	2460.86	2366.82	-680.19	1678201.87	14273702.58	39°18'24.803"N	80°51'59.118"W	2462.62	343.966	1.41	-0.22	-1.38	
8762.00	89.630	337.430	6463.07	2554.62	2453.76	-715.94	1678166.14	14273799.48	39°18'25.663"N	80°51'59.571"W	2556.07	343.734	0.81	-0.66	-0.47	
8857.00	90.310	338.290	6463.12	2649.39	2541.75	-751.74	1678130.35	14273877.44	39°18'26.533"N	80°52'00.025"W	2650.59	343.524	1.15	0.72	0.91	
8951.00	90.430	337.100	6462.61	2743.24	2629.26	-786.07	1678096.04	14273964.91	39°18'27.398"N	80°52'00.460"W	2744.25	343.355	0.62	0.00	0.62	
9046.00	90.280	337.100	6462.00	2838.02	2717.33	-821.68	1678060.44	14274052.94	39°18'28.269"N	80°52'00.911"W	2838.84	343.176	1.87	0.13	-1.86	
9140.00	90.220	339.470	6461.42	2931.71	2803.92	-858.25	1678023.88	14274139.50	39°18'29.126"N	80°52'01.375"W	2932.33	342.981	0.16	-0.16	0.00	
9235.00	90.180	340.980	6460.57	3026.52	2892.17	-893.40	1677988.75	14274227.71	39°18'29.998"N	80°52'01.820"W	3027.01	342.834	2.50	-0.06	2.48	
9330.00	90.150	342.470	6460.40	3121.48	2981.56	-925.54	1677956.62	14274317.07	39°18'30.882"N	80°52'02.228"W	3121.91	342.755	1.59	-0.04	1.59	
9425.00	90.120	343.880	6460.18	3216.48	3071.77	-955.33	1677926.84	14274407.24	39°18'31.774"N	80°52'02.605"W	3216.90	342.724	1.57	-0.03	1.57	
9519.00	89.720	346.710	6460.31	3305.26	3161.74	-982.54	1677899.65	14274497.18	39°18'32.664"N	80°52'02.949"W	3310.89	342.737	1.50	-0.03	1.50	
9614.00	90.000	348.820	6460.54	3399.74	3253.62	-1006.65	1677875.54	14274588.02	39°18'33.573"N	80°52'03.254"W	3405.79	342.808	3.01	-0.42	2.96	
9709.00	90.090	349.600	6460.47	3493.95	3343.78	-1026.78	1677855.42	14274681.82	39°18'34.490"N	80°52'03.509"W	3500.44	342.943	2.24	0.29	2.22	
9804.00	90.710	347.210	6459.80	3589.30	3433.81	-1043.86	1677831.64	14274775.10	39°18'35.413"N	80°52'03.733"W	3594.88	343.108	0.83	0.09	0.82	
9900.00	90.150	341.260	6459.08	3784.17	3625.19	-1063.86	1677792.57	14274869.09	39°18'36.343"N	80°52'03.977"W	3690.47	343.245	2.57	0.65	-2.48	
9995.00	89.110	337.530	6459.68	3877.07	3712.22	-1089.66	1677759.86	14274960.44	39°18'37.266"N	80°52'04.303"W	3785.42	343.270	6.29	-0.59	-6.26	
10088.00	88.980	338.160	6461.28	3972.82	3801.12	-1158.58	1677723.68	14275047.44	39°18'38.107"N	80°52'04.718"W	3878.19	343.177	4.16	-1.12	-4.01	
10184.00								14275136.30	39°18'38.986"N	80°52'05.177"W	3973.77	343.049	0.67	-0.14	0.66	



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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REFERENCE WELLPATH IDENTIFICATION											
Operator	ANTERO RESOURCES CORPORATION										
Area	Doddridge Co., WV										
Field	Doddridge										
Facility	Long Run Pad										
Slot	Slot #02										
Well	Wellbore										
Wellbore	Janice Unit 2H AWB										

WELLPATH DATA (189 stations)																
MD	Inclination	Azimuth	TVD	Vert Sact	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	US ft	US ft			ft	°	F/100ft	F/100ft	F/100ft	
10278.00	89.080	337.700	6462.88	4066.60	3888.22	-1193.89	1677688.38	14275223.37	39°18'39.847"N	80°52'06.625"W	4067.39	342.931	0.50	0.11	-0.49	
10373.00	89.570	337.300	6464.00	4161.32	3975.98	-1230.24	1677655.04	14275311.09	39°18'40.715"N	80°52'06.086"W	4161.97	342.807	0.67	0.52	-0.42	
10468.00	89.750	337.920	6464.56	4256.07	4063.82	-1266.43	1677615.87	14275398.89	39°18'41.584"N	80°52'06.544"W	4256.58	342.691	0.68	0.19	0.65	
10564.00	89.820	338.100	6464.92	4351.86	4152.84	-1302.38	1677579.94	14275487.87	39°18'42.464"N	80°52'07.000"W	4352.27	342.588	0.20	0.07	0.19	
10659.00	89.850	338.720	6465.19	4446.69	4241.17	-1337.33	1677544.99	14275576.17	39°18'43.338"N	80°52'07.443"W	4447.02	342.499	0.65	0.03	0.65	
10755.00	89.780	342.880	6465.50	4540.65	4329.92	-1368.24	1677514.10	14275664.89	39°18'44.216"N	80°52'07.835"W	4540.96	342.464	4.43	-0.07	4.43	
10848.00	89.850	349.160	6465.80	4635.35	4422.06	-1391.18	1677491.17	14275756.99	39°18'45.127"N	80°52'08.125"W	4635.73	342.536	6.61	0.07	6.61	
10944.00	89.910	350.520	6466.00	4730.40	4516.55	-1408.11	1677474.24	14275843.69	39°18'46.011"N	80°52'08.339"W	4730.96	342.684	1.42	0.06	1.42	
11038.00	89.910	347.620	6466.15	4823.64	4608.84	-1425.93	1677456.43	14275934.65	39°18'46.973"N	80°52'08.564"W	4824.38	342.808	3.09	0.00	-3.09	
11134.00	89.940	346.300	6466.28	4919.24	4702.36	-1447.59	1677434.78	14276037.18	39°18'47.898"N	80°52'08.837"W	4920.13	342.889	1.38	0.03	-1.37	
11230.00	90.250	342.680	6466.12	5015.12	4794.85	-1473.26	1677409.12	14276129.63	39°18'48.812"N	80°52'09.162"W	5016.08	342.920	3.78	0.32	-3.77	
11323.00	89.850	340.000	6466.04	5108.11	4882.95	-1503.01	1677379.38	14276217.70	39°18'49.683"N	80°52'09.539"W	5109.04	342.891	2.91	-0.43	-2.88	
11419.00	89.750	340.180	6466.37	5204.07	4973.21	-1535.70	1677346.70	14276307.92	39°18'50.576"N	80°52'09.953"W	5204.92	342.840	0.21	-0.10	0.19	
11513.00	89.910	336.480	6466.65	5297.88	5060.55	-1570.41	1677312.01	14276395.23	39°18'51.440"N	80°52'10.393"W	5298.62	342.760	3.94	0.17	-3.94	
11609.00	89.910	335.310	6466.80	5393.37	5148.18	-1609.61	1677272.82	14276482.82	39°18'52.306"N	80°52'10.891"W	5393.94	342.638	1.22	0.00	-1.22	
11704.00	90.400	337.870	6466.55	5487.97	5235.35	-1647.36	1677235.09	14276569.96	39°18'53.169"N	80°52'11.369"W	5488.42	342.533	2.74	0.52	2.69	
11799.00	90.310	338.720	6466.96	5582.79	5323.62	-1682.49	1677199.98	14276658.18	39°18'54.041"N	80°52'11.815"W	5583.16	342.461	0.90	-0.09	0.89	
11894.00	90.310	337.900	6466.44	5677.61	5411.89	-1717.60	1677164.88	14276746.42	39°18'54.914"N	80°52'12.260"W	5677.91	342.392	0.86	0.00	-0.86	
11989.00	90.310	337.520	6464.93	5772.36	5499.79	-1753.63	1677128.86	14276834.29	39°18'55.784"N	80°52'12.716"W	5772.60	342.315	0.40	0.00	-0.40	
12084.00	90.310	337.680	6464.41	5867.11	5587.62	-1789.83	1677092.68	14276922.08	39°18'56.652"N	80°52'13.175"W	5867.28	342.239	0.17	0.00	-0.17	
12179.00	90.280	341.410	6463.93	5962.02	5676.61	-1823.02	1677059.50	14277011.04	39°18'57.532"N	80°52'13.596"W	5962.16	342.196	3.93	-0.03	3.93	
12274.00	90.150	343.470	6463.57	6067.00	5767.18	-1851.68	1677030.85	14277101.57	39°18'58.428"N	80°52'13.959"W	6067.15	342.200	2.17	-0.14	2.17	
12369.00	90.220	344.360	6463.26	6151.94	5858.46	-1878.01	1677004.54	14277192.81	39°18'59.320"N	80°52'14.292"W	6152.11	342.226	0.94	0.07	0.94	
12465.00	90.120	342.970	6462.98	6247.88	5950.58	-1905.00	1676977.55	14277284.90	39°19'00.241"N	80°52'14.634"W	6248.08	342.248	1.45	-0.10	-1.45	
12560.00	90.220	342.140	6462.70	6342.87	6041.21	-1933.48	1676949.08	14277375.49	39°19'01.137"N	80°52'14.995"W	6343.07	342.253	0.88	0.11	-0.87	
12655.00	90.090	342.130	6462.44	6437.87	6131.63	-1962.63	1676919.95	14277465.87	39°19'02.032"N	80°52'15.364"W	6438.07	342.251	0.14	-0.14	-0.01	
12750.00	90.120	342.490	6462.24	6532.87	6222.14	-1991.50	1676891.09	14277556.34	39°19'02.926"N	80°52'15.730"W	6533.07	342.252	0.38	0.06	0.38	
12844.00	90.120	344.320	6462.02	6626.83	6312.22	-2018.34	1676864.26	14277646.39	39°19'03.817"N	80°52'16.070"W	6627.05	342.268	1.95	-0.03	1.95	
12939.00	90.220	344.580	6461.74	6721.73	6403.74	-2043.81	1676838.80	14277737.88	39°19'04.722"N	80°52'16.392"W	6721.98	342.289	0.29	0.11	0.27	
13034.00	90.150	345.370	6461.43	6816.58	6495.49	-2068.44	1676814.18	14277829.59	39°19'05.629"N	80°52'16.704"W	6816.88	342.336	0.83	-0.07	0.83	





# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Janice Unit 2H
Field	Doddridge	Wellbore	Janice Unit 2H AWB
Facility	Long Run Pad		

WELLPATH DATA (189 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft	°	°	ft	°	ft/100ft	ft/100ft	ft/100ft	
13129.00	90.250	345.450	6461.10	6911.39	6587.43	-2092.37	1676790.26	14277921.49	39°19'06.538"N	80°52'17.007"W	6911.74	342.379	0.13	0.11	0.08	
13224.00	90.120	346.060	6460.79	7006.16	6679.50	-2115.74	1676766.89	14278013.53	39°19'07.449"N	80°52'17.302"W	7006.58	342.424	0.66	-0.14	0.64	
13318.00	90.370	345.150	6460.39	7099.99	6770.55	-2139.11	1676743.54	14278104.54	39°19'08.349"N	80°52'17.398"W	7100.43	342.466	1.00	0.27	-0.97	
13413.00	90.310	340.760	6459.82	7194.91	6861.35	-2166.95	1676715.71	14278195.31	39°19'09.247"N	80°52'17.951"W	7195.40	342.473	4.62	-0.06	-4.62	
13508.00	90.370	338.830	6459.26	7289.84	6960.50	-2199.76	1676682.91	14278284.42	39°19'10.128"N	80°52'18.366"W	7290.30	342.438	2.03	0.06	-2.03	
13603.00	90.430	340.990	6458.60	7384.78	7039.71	-2232.39	1676650.30	14278373.60	39°19'11.011"N	80°52'18.780"W	7385.20	342.405	2.27	0.06	2.27	
13697.00	90.400	343.140	6457.92	7478.78	7129.14	-2261.33	1676621.36	14278462.98	39°19'11.895"N	80°52'19.147"W	7479.19	342.401	2.29	-0.03	2.29	
13792.00	90.430	345.250	6457.23	7573.68	7220.54	-2287.20	1676595.50	14278554.35	39°19'12.799"N	80°52'19.474"W	7574.13	342.424	2.22	0.03	2.22	
13850.00	90.430	345.250	6456.79	7631.58	7276.63	-2301.97	1676580.74	14278610.41	39°19'13.353"N	80°52'19.661"W	7632.06	342.445	0.00	0.00	0.00	Projected MD at TD - 13850'

HOLE & CASING SECTIONS - Ref Wellbore: Janice Unit 2H AWB Ref Wellpath: Janice Unit 2H AWP Proj: 13850'													
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W				
	ft	ft	ft	ft	ft	ft	ft	ft	ft				
20in Conductor	24.50	64.50	40.00	24.50	64.50	0.00	0.00	0.02	0.01				
17.5in Open Hole	64.50	509.50	445.00	64.50	509.49	0.02	0.01	1.47	2.12				
13.375in Casing Surface	24.50	509.50	485.00	24.50	509.49	0.00	0.00	1.47	1.47				
12.25in Open Hole	509.50	2533.70	2024.20	509.49	2529.84	1.47	2.12	18.36	74.59				
9.625in Casing Intermediate	24.50	2533.70	2509.20	24.50	2529.84	0.00	0.00	18.36	74.59				
8.75in Open Hole	2533.70	5751.50	3217.80	2529.84	5747.34	18.36	74.59	29.03	63.16				
8.5in Open Hole	5751.50	13850.00	8098.50	5747.34	6456.79	29.03	63.16	7276.63	-2301.97				
5.5in Casing Production	24.50	13850.00	13825.50	24.50	6456.79	0.00	0.00	7276.63	-2301.97				



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Janice Unit 2H
Field	Doddridge	Wellbore	Janice Unit 2H AWB
Facility	Long Run Pad		

TARGETS								
Name	TVD ft	North ft	East ft	Grid East US ft	Grid North US ft	Latitude	Longitude	Shape
Janice Unit 2H POE - Rev-2	6438.00	414.94	-56.88	1678824.93	14271751.47	39°18'05.502"N	80°51'51.226"W	point
Janice Unit 2H BHL - Rev-2	6462.00	7311.08	-2324.74	1676557.98	14278644.85	39°19'13.694"N	80°52'19.950"W	point
Janice Unit 2H LP - Rev-2	6462.00	556.93	-103.58	1678778.25	14271893.41	39°18'06.906"N	80°51'51.817"W	point

WELLPATH COMPOSITION - Ref Wellbore: Janice Unit 2H AWB				Ref Wellpath: Janice Unit 2H AWP Proj: 13850'			
Start MD ft	End MD ft	Positional Uncertainty Model	Log Name/Comment	Wellbore			
24.50	485.50	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <1/2-1/2"> (100'-474')	Janice Unit 2H AWB			
485.50	1448.50	Gyrodata relative depth - Continuous gyro	02 Gyrodata Cont. Gyro <12-1/4"> (474')(508'-1437')	Janice Unit 2H AWB			
1448.50	2442.50	ISCWSA MWD, Rev. 4 (Standard)	03 Directional ONE MWD <12-1/4"> (1437')(1557'-2431')	Janice Unit 2H AWB			
2442.50	5669.50	ISCWSA MWD, Rev. 4 (Standard)	04 Directional ONE MWD <8-3/4"> (2431')(2629'-5658')	Janice Unit 2H AWB			
5669.50	13792.00	BHI AutoTrak Curve (Short)	05 BHI AT Curve <8-1/2"> (5669.50')(5728'-13792')	Janice Unit 2H AWB			
13792.00	13850.00	Blind Drilling (Std)	Projection to bit	Janice Unit 2H AWB			



# Actual Wellpath Report

Janice Unit 2H AWP Proj: 13850'  
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06/01/2018

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

### COMMENTS

Wellpath general comments  
 API: 47-017-06781-0000  
 BHI Job #: 8546094  
 Rig: Frontier 22  
 Duration: 05/11/2017-05/12/2017  
 Gyrodata MS Gyro <17-1/2"> (100--474)  
 Gyrodata Cont. Gyro <12-1/4"> (474)(503-1437)  
 Directional ONE MWD <12-1/4"> (1437)(1557-2431)  
 Directional ONE MWD <8-3/4"> (2431)(2629--5658)  
 BHI AT Curve <8-1/2"> (5669.50)(5723--13792)  
 Burket: 6489' MD  
 Tully: 6550' MD  
 Hamilton: 6609' MD  
 Marcellus POE: 6635' MD  
 Projected MD at TD: 13850'