



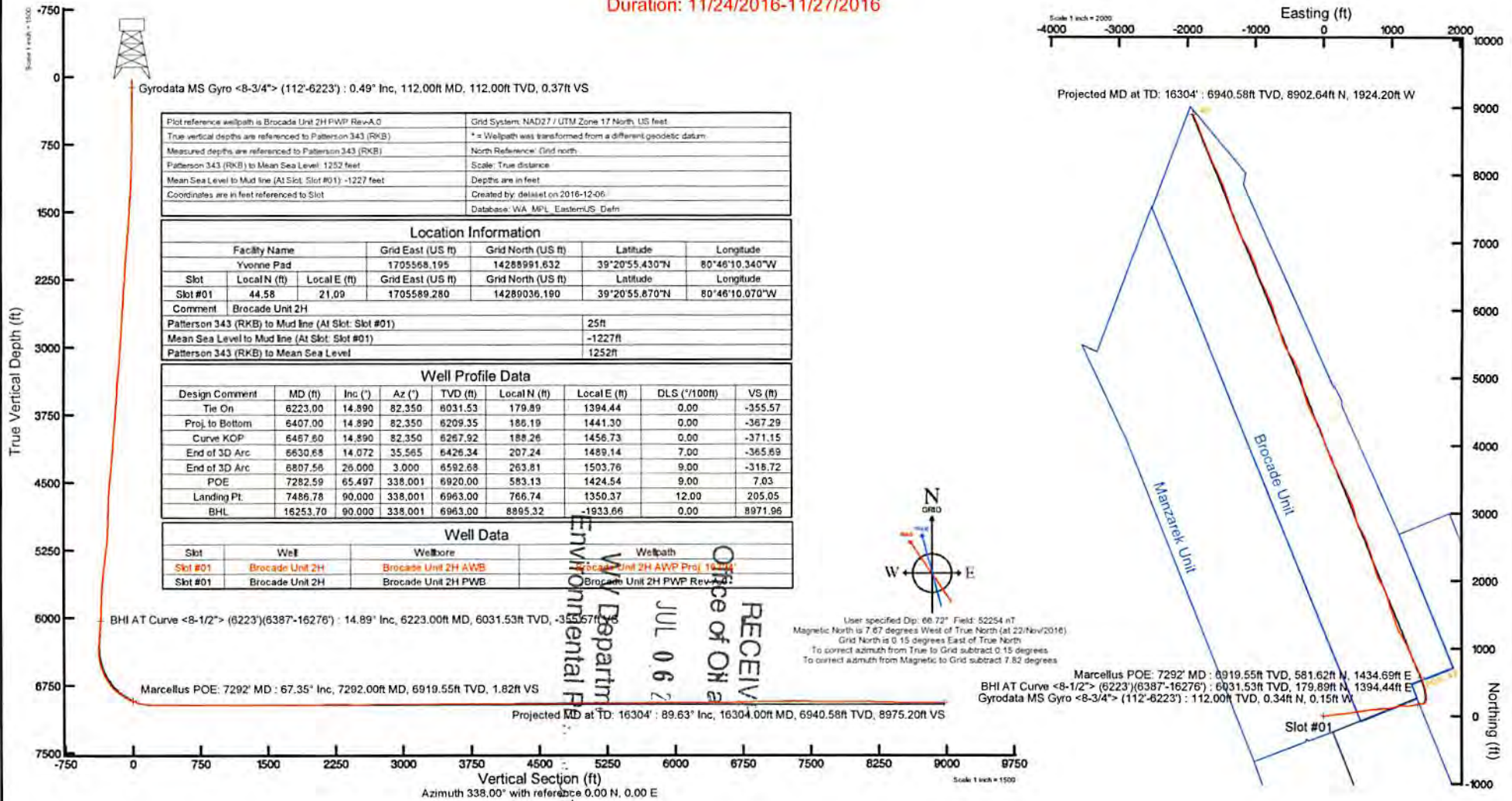
ANTERO RESOURCES CORPORATION

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

Slot: Slot #01
 Well: Brocade Unit 2H
 Wellbore: Brocade Unit 2H PWB



API: 47-017-06532-0000
 BHI Job #: 8275314
 Rig: Patterson 343
 Duration: 11/24/2016-11/27/2016



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 JUL 06 2016
 WV Department of Environmental Protection

User specified Dip: 60.72° Field: 52254 nT
 Magnetic North is 7.67 degrees West of True North (at 22/Nov/2016)
 Grid North is 0.15 degrees East of True North
 To correct azimuth from True to Grid subtract 0.15 degrees
 To correct azimuth from Magnetic to Grid subtract 7.82 degrees



Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
Facility	Yvonne Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Delaset
Scale	0.999605	Report Generated	06/Dec/2016 at 11:01
Convergence at slot	0.15° East	Database/Source file	WA_MPL_EasternUS_Defn/Brocade_Unit_2H_AWP_Proj_16304_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	44.58	21.09	1705589.28	14289036.19	39°20'55.870"N	80°46'10.070"W
Facility Reference Pt			1705568.20	14288991.63	39°20'55.430"N	80°46'10.340"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 343 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 343 (RKB) to Mean Sea Level	1252.00ft
Vertical Reference Pt	Patterson 343 (RKB)	Patterson 343 (RKB) to Mud Line at Slot (Slot #01)	25.00ft
MD Reference Pt	Patterson 343 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	338.00°

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Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
Facility	Yvonne 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)	
0.00†	0.000	335.610	0.00	0.00	0.00	0.00	1705589.28	14289036.19	39°20'55.870"N	80°46'10.070"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	335.610	25.00	0.00	0.00	0.00	1705589.28	14289036.19	39°20'55.870"N	80°46'10.070"W	0.00	0.000	0.00	0.00	0.00	
112.00	0.490	335.610	112.00	0.37	0.34	-0.15	1705589.13	14289036.53	39°20'55.873"N	80°46'10.072"W	0.37	335.610	0.56	0.56	-28.03	Gyrodata MS Gyro <8-3/4"> (112'-6223')
212.00	0.090	87.070	212.00	0.77	0.73	-0.25	1705589.03	14289036.92	39°20'55.877"N	80°46'10.073"W	0.77	341.027	0.53	-0.40	111.46	
312.00	0.130	106.280	312.00	0.68	0.70	-0.06	1705589.22	14289036.89	39°20'55.877"N	80°46'10.071"W	0.71	354.775	0.05	0.04	19.21	
412.00	0.090	89.830	412.00	0.58	0.67	0.12	1705589.40	14289036.88	39°20'55.877"N	80°46'10.068"W	0.68	10.359	0.05	-0.04	-16.45	
512.00	0.090	34.380	512.00	0.59	0.74	0.25	1705589.53	14289036.93	39°20'55.877"N	80°46'10.067"W	0.78	18.429	0.08	0.00	-55.45	
612.00	0.090	101.320	612.00	0.59	0.79	0.37	1705589.65	14289036.98	39°20'55.878"N	80°46'10.065"W	0.87	25.006	0.10	0.00	66.94	
712.00	1.030	113.270	711.99	-0.09	0.42	1.27	1705590.55	14289036.61	39°20'55.874"N	80°46'10.054"W	1.34	71.828	0.94	0.94	11.95	
812.00	2.320	99.890	811.95	-1.80	-0.29	4.09	1705593.37	14289035.90	39°20'55.867"N	80°46'10.018"W	4.10	93.999	1.34	1.29	-13.38	
912.00	5.000	80.270	911.74	-3.79	0.10	10.38	1705599.66	14289036.29	39°20'55.871"N	80°46'09.938"W	10.38	89.431	2.92	2.68	-19.62	
1012.00	8.500	81.120	1011.03	-6.40	1.98	21.98	1705611.25	14289038.17	39°20'55.889"N	80°46'09.790"W	22.07	84.850	3.50	3.50	0.85	
1112.00	10.510	82.900	1109.65	-10.41	4.27	38.33	1705627.60	14289040.45	39°20'55.911"N	80°46'09.582"W	38.57	83.651	2.03	2.01	1.68	
1212.00	11.610	82.940	1207.79	-15.18	6.80	57.35	1705646.60	14289042.99	39°20'55.936"N	80°46'09.340"W	57.75	83.236	1.11	1.10	-0.76	
1312.00	13.200	84.670	1305.45	-20.32	9.85	78.61	1705667.86	14289046.04	39°20'55.965"N	80°46'09.069"W	79.23	82.858	1.59	1.59	-0.37	
1412.00	13.440	84.670	1402.76	-25.74	13.21	101.40	1705690.64	14289049.39	39°20'55.998"N	80°46'08.779"W	102.26	82.579	0.24	0.24	-0.10	
1512.00	14.300	82.490	1499.85	-31.56	16.53	125.14	1705714.37	14289052.71	39°20'56.030"N	80°46'08.477"W	126.23	82.478	0.89	0.86	0.92	
1612.00	14.270	82.510	1596.76	-37.74	19.75	149.61	1705738.83	14289055.93	39°20'56.061"N	80°46'08.165"W	150.91	82.481	0.03	-0.03	0.02	
1712.00	14.230	83.450	1693.68	-44.51	22.33	174.10	1705763.31	14289058.51	39°20'56.086"N	80°46'07.853"W	175.52	82.691	0.72	-0.02	2.94	
1812.00	15.150	85.590	1790.40	-52.80	23.63	199.43	1705788.63	14289059.81	39°20'56.099"N	80°46'07.531"W	200.82	83.244	1.20	0.90	3.14	
1912.00	15.170	83.770	1886.93	-60.95	25.37	225.50	1705814.69	14289061.55	39°20'56.115"N	80°46'07.199"W	226.92	83.581	1.26	0.02	-4.82	
2012.00	15.320	83.420	1983.41	-68.02	28.30	251.63	1705840.81	14289064.48	39°20'56.143"N	80°46'06.866"W	253.22	83.583	0.18	0.15	-0.35	
2112.00	15.060	82.250	2079.91	-74.73	31.57	277.63	1705866.80	14289067.75	39°20'56.175"N	80°46'06.535"W	279.42	83.513	0.40	-0.26	-1.17	
2212.00	15.630	81.560	2176.35	-81.09	35.30	303.83	1705892.99	14289071.47	39°20'56.211"N	80°46'06.201"W	305.87	83.373	0.60	0.57	-0.69	
2312.00	17.980	82.760	2272.07	-88.18	39.22	332.47	1705921.61	14289075.39	39°20'56.249"N	80°46'05.837"W	334.77	83.272	2.38	2.35	1.20	
2412.00	15.840	81.390	2367.74	-95.27	43.21	361.28	1705950.41	14289079.38	39°20'56.288"N	80°46'05.470"W	363.85	83.180	2.18	-2.14	-1.37	
2512.00	14.530	80.260	2464.25	-101.10	47.37	387.13	1705976.26	14289083.55	39°20'56.328"N	80°46'05.141"W	390.02	83.023	1.34	-1.31	-1.13	
2612.00	14.560	83.310	2561.05	-107.08	50.96	411.98	1706001.10	14289087.13	39°20'56.363"N	80°46'04.824"W	415.12	82.949	0.77	0.03	3.05	
2712.00	15.380	82.070	2657.65	-113.62	54.25	437.60	1706026.71	14289090.42	39°20'56.395"N	80°46'04.498"W	440.95	82.932	0.88	0.82	-1.24	
2812.00	16.050	78.600	2753.92	-119.39	58.82	464.29	1706053.38	14289094.98	39°20'56.440"N	80°46'04.158"W	468.00	82.780	1.15	0.67	-3.47	

Environmental Protection



Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH DATA (189 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
2912.00	16.040	80.780	2850.02	-124.99	63.76	491.48	1706080.56	14289099.93	39°20'56.488"N	80°46'03.812"W	495.59	82.608	0.60	-0.01	2.18	
3012.00	15.070	83.890	2946.36	-131.61	67.36	518.04	1706107.11	14289103.52	39°20'56.523"N	80°46'03.474"W	522.40	82.591	1.28	-0.97	3.11	
3112.00	15.930	80.120	3042.72	-138.05	71.10	544.49	1706133.55	14289107.26	39°20'56.559"N	80°46'03.137"W	549.11	82.560	1.32	0.86	-3.77	
3212.00	16.660	80.100	3138.71	-143.93	75.92	572.13	1706161.18	14289112.08	39°20'56.606"N	80°46'02.785"W	577.14	82.441	0.73	0.73	-0.02	
3312.00	16.830	82.330	3234.47	-150.52	80.31	600.60	1706189.64	14289116.47	39°20'56.649"N	80°46'02.422"W	605.94	82.383	0.66	0.17	2.23	
3412.00	16.370	85.290	3330.30	-158.29	83.40	628.99	1706218.02	14289119.56	39°20'56.678"N	80°46'02.061"W	634.49	82.447	0.96	-0.46	2.96	
3512.00	15.020	83.370	3426.57	-165.92	86.06	655.90	1706244.92	14289122.21	39°20'56.704"N	80°46'01.718"W	661.53	82.525	1.45	-1.35	-1.92	
3612.00	14.570	77.270	3523.26	-171.38	90.33	681.05	1706270.06	14289126.48	39°20'56.746"N	80°46'01.398"W	687.01	82.445	1.62	-0.45	-6.10	
3712.00	15.820	82.840	3619.77	-176.89	94.80	706.84	1706295.84	14289130.95	39°20'56.789"N	80°46'01.069"W	713.17	82.361	1.92	1.25	5.57	
3812.00	15.720	80.930	3716.00	-183.42	98.63	733.74	1706322.73	14289134.78	39°20'56.826"N	80°46'00.727"W	740.34	82.344	0.53	-0.10	-1.91	
3912.00	15.420	87.010	3812.34	-190.78	101.46	760.40	1706349.38	14289137.61	39°20'56.854"N	80°46'00.387"W	767.14	82.400	1.66	-0.30	6.08	
4012.00	15.840	87.460	3908.64	-199.66	102.76	787.31	1706376.28	14289138.91	39°20'56.866"N	80°46'00.045"W	793.99	82.564	0.44	0.42	0.45	
4112.00	14.600	83.640	4005.14	-207.60	104.76	813.47	1706402.43	14289140.91	39°20'56.885"N	80°45'59.712"W	820.19	82.662	1.59	-1.24	-3.82	
4212.00	14.270	85.630	4101.98	-214.73	107.09	838.29	1706427.24	14289143.24	39°20'56.907"N	80°45'59.396"W	845.10	82.720	0.60	-0.33	1.99	
4312.00	15.920	84.510	4198.53	-222.36	109.35	864.23	1706453.17	14289145.49	39°20'56.929"N	80°45'59.066"W	871.12	82.789	1.68	1.65	-1.12	
4412.00	14.870	87.940	4294.94	-230.45	111.32	890.70	1706479.62	14289147.47	39°20'56.948"N	80°45'58.729"W	897.63	82.876	1.25	-1.05	2.53	
4512.00	15.360	90.650	4391.48	-239.73	111.83	916.76	1706505.67	14289147.98	39°20'56.952"N	80°45'58.397"W	923.55	83.045	1.06	0.49	3.61	
4612.00	17.520	87.640	4487.39	-249.90	112.29	945.04	1706533.95	14289148.44	39°20'56.956"N	80°45'58.037"W	951.69	83.224	2.32	2.16	-2.97	
4712.00	17.470	82.840	4582.77	-258.83	114.76	974.98	1706563.87	14289150.90	39°20'56.980"N	80°45'57.656"W	981.71	83.287	1.44	-0.05	-4.79	
4812.00	17.930	73.240	4678.05	-264.09	121.06	1004.62	1706593.50	14289152.20	39°20'57.041"N	80°45'57.278"W	1011.89	83.129	2.97	0.46	-9.65	
4912.00	17.990	70.450	4773.18	-266.16	130.66	1033.91	1706622.78	14289166.80	39°20'57.135"N	80°45'56.905"W	1042.13	82.797	0.86	0.06	-2.79	
5012.00	16.630	75.840	4868.66	-268.77	139.33	1062.34	1706651.20	14289175.47	39°20'57.220"N	80°45'56.543"W	1071.44	82.528	2.10	-1.36	5.39	
5112.00	14.930	71.320	4964.89	-271.47	146.96	1088.42	1706677.27	14289183.09	39°20'57.295"N	80°45'56.210"W	1098.30	82.310	2.10	-1.70	-4.52	
5212.00	14.720	81.650	5061.58	-275.22	152.93	1113.20	1706702.04	14289189.06	39°20'57.353"N	80°45'55.895"W	1123.66	82.178	2.65	-0.21	10.33	
5312.00	16.350	86.520	5157.92	-282.69	155.63	1139.82	1706728.65	14289191.76	39°20'57.379"N	80°45'55.556"W	1150.40	82.225	2.09	1.63	4.87	
5412.00	19.000	91.020	5253.20	-293.52	156.20	1170.15	1706758.97	14289192.32	39°20'57.384"N	80°45'55.170"W	1180.53	82.397	2.98	2.65	4.50	
5512.00	19.090	90.470	5347.73	-306.14	155.77	1202.78	1706791.58	14289191.90	39°20'57.379"N	80°45'54.754"W	1212.83	82.621	0.20	0.09	-0.55	
5612.00	17.470	89.380	5442.68	-317.86	155.80	1234.15	1706822.94	14289191.93	39°20'57.379"N	80°45'54.355"W	1243.94	82.805	1.66	-1.62	-1.09	
5712.00	16.620	87.080	5538.28	-328.01	156.69	1263.44	1706852.22	14289192.82	39°20'57.387"N	80°45'53.982"W	1273.12	82.930	1.08	-0.85	-2.30	
5812.00	15.590	84.840	5634.36	-336.58	158.63	1291.11	1706879.87	14289194.76	39°20'57.405"N	80°45'53.630"W	1300.81	82.996	1.20	-1.03	-2.24	



Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
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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)	
5912.00	14.200	79.430	5731.00	-342.90	162.09	1316.55	1706905.31	14289198.21	39°20'57.439"N	80°45'53.306"W	1326.49	82.981	1.96	-1.39	-5.41	
6012.00	14.180	74.670	5827.95	-346.76	167.58	1340.42	1706929.17	14289203.70	39°20'57.492"N	80°45'53.002"W	1350.85	82.874	1.17	-0.02	-4.76	
6112.00	15.860	75.340	5924.53	-349.92	174.27	1365.45	1706954.19	14289210.39	39°20'57.558"N	80°45'52.683"W	1376.53	82.727	1.69	1.68	0.67	
6212.00	15.140	82.180	6020.90	-354.87	179.51	1391.61	1706980.34	14289215.63	39°20'57.609"N	80°45'52.350"W	1403.14	82.650	1.96	-0.72	6.84	
6223.00	14.890	82.350	6031.53	-355.57	179.89	1394.44	1706983.16	14289216.01	39°20'57.612"N	80°45'52.314"W	1405.99	82.649	2.31	-2.27	1.55	BHI AT Curve <8-1/2"> (6223')(6387'-16276')
6387.00	15.750	87.600	6189.71	-368.26	183.63	1437.56	1707026.27	14289219.75	39°20'57.648"N	80°45'51.765"W	1449.24	82.721	0.99	0.52	3.20	
6404.00	15.710	87.170	6206.07	-369.79	183.84	1442.17	1707030.87	14289219.96	39°20'57.650"N	80°45'51.706"W	1453.84	82.735	0.72	-0.24	-2.53	
6451.00	15.450	85.960	6251.34	-373.81	184.60	1454.77	1707043.47	14289220.71	39°20'57.657"N	80°45'51.546"W	1466.43	82.768	0.89	-0.55	-2.57	
6499.00	15.080	80.890	6297.65	-377.18	186.03	1467.31	1707056.01	14289222.15	39°20'57.671"N	80°45'51.386"W	1479.06	82.774	2.88	-0.77	-10.56	
6546.00	14.520	73.230	6343.10	-379.08	188.70	1478.99	1707067.68	14289224.82	39°20'57.697"N	80°45'51.237"W	1490.98	82.729	4.33	-1.19	-16.30	
6593.00	14.240	56.060	6388.65	-378.42	193.63	1489.43	1707078.12	14289229.75	39°20'57.746"N	80°45'51.104"W	1501.96	82.593	9.06	-0.60	-36.53	
6640.00	15.300	37.100	6434.12	-374.03	201.81	1497.97	1707086.66	14289237.92	39°20'57.826"N	80°45'50.995"W	1511.50	82.327	10.48	2.26	-40.34	
6688.00	17.070	26.210	6480.23	-366.08	213.19	1504.91	1707093.59	14289249.29	39°20'57.939"N	80°45'50.907"W	1519.93	81.937	7.30	3.69	-22.69	
6735.00	19.490	19.120	6524.86	-355.58	226.79	1510.52	1707099.20	14289262.89	39°20'58.073"N	80°45'50.835"W	1527.45	81.462	6.98	5.15	-15.09	
6782.00	23.180	11.350	6568.64	-341.94	243.27	1514.91	1707103.59	14289279.37	39°20'58.236"N	80°45'50.778"W	1534.32	80.877	9.87	7.85	-16.53	
6829.00	26.250	359.610	6611.35	-324.53	262.75	1516.66	1707105.34	14289298.84	39°20'58.428"N	80°45'50.755"W	1539.26	80.171	12.29	6.53	-24.98	
6876.00	28.960	352.550	6653.01	-303.85	284.44	1515.12	1707103.80	14289320.52	39°20'58.643"N	80°45'50.774"W	1541.59	79.367	9.03	5.77	-15.02	
6923.00	33.510	351.660	6693.19	-280.21	308.57	1511.76	1707100.44	14289344.64	39°20'58.881"N	80°45'50.816"W	1542.93	78.464	9.73	9.68	-1.89	
6938.00†	35.064	351.670	6705.58	-272.00	316.93	1510.53	1707099.21	14289353.00	39°20'58.964"N	80°45'50.832"W	1543.42	78.150	10.36	10.36	0.07	Middlesex: 6938' MD
6970.00	38.380	351.690	6731.22	-253.41	335.86	1507.77	1707096.45	14289371.92	39°20'59.151"N	80°45'50.866"W	1544.72	77.442	10.36	10.36	0.06	
7017.00	43.290	349.660	6766.78	-223.44	366.17	1502.76	1707091.44	14289402.21	39°20'59.451"N	80°45'50.929"W	1546.73	76.306	10.82	10.45	-4.32	
7064.00	48.230	346.940	6799.56	-190.32	399.12	1495.90	1707084.59	14289435.15	39°20'59.777"N	80°45'51.015"W	1548.23	75.061	11.30	10.51	-5.79	
7111.00	52.820	343.990	6829.43	-154.36	434.21	1486.77	1707075.46	14289470.23	39°21'00.124"N	80°45'51.130"W	1548.88	73.719	10.90	9.77	-6.28	
7130.00†	54.296	343.119	6840.72	-139.15	448.87	1482.44	1707071.14	14289484.88	39°21'00.269"N	80°45'51.185"W	1548.91	73.154	8.60	7.77	-4.58	Burkett: 7130' MD
7159.00	56.560	341.850	6857.18	-115.34	471.64	1475.25	1707063.95	14289507.64	39°21'00.494"N	80°45'51.276"W	1548.81	72.271	8.60	7.81	-4.38	
7183.00†	58.493	340.970	6870.06	-95.13	490.83	1468.80	1707057.50	14289526.82	39°21'00.684"N	80°45'51.357"W	1548.64	71.522	8.63	8.05	-3.67	Tully: 7183' MD
7206.00	60.350	340.160	6881.76	-75.35	509.50	1462.21	1707050.91	14289545.49	39°21'00.868"N	80°45'51.440"W	1548.43	70.789	8.63	8.08	-3.52	
7253.00	64.310	338.910	6903.58	-33.75	548.49	1447.65	1707036.36	14289584.46	39°21'01.254"N	80°45'51.624"W	1548.07	69.249	8.75	8.43	-2.66	
7292.00†	67.347	338.376	6919.55	1.82	581.62	1434.69	1707023.40	14289617.58	39°21'01.582"N	80°45'51.788"W	1548.10	67.933	7.89	7.79	-1.37	Marcellus POE: 7292' MD
7300.00	67.970	338.270	6922.59	9.22	588.50	1431.96	1707020.67	14289624.45	39°21'01.650"N	80°45'51.823"W	1548.17	67.659	7.89	7.79	-1.33	

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Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Yvonne Pad
Slot	Slot #01
Well	Brocade Unit 2H
Wellbore	Brocade 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
7347.00	337.300	6938.50	53.44	629.43	1415.24	1707003.96	14289665.37	39°21'02.05"N	80°45'52.03"W	1548.90	66.023	9.75	-2.06	9.55	-2.06	
7394.00	337.110	6950.28	98.91	671.35	1397.62	1706986.34	14289707.27	39°21'02.47"N	80°45'52.25"W	1550.50	64.343	12.86	-0.40	12.85	-0.40	
7441.00	336.110	6957.52	145.32	713.96	1379.19	1706867.92	14289749.86	39°21'02.89"N	80°45'52.49"W	1553.03	62.631	11.41	-2.13	11.21	-2.13	
7486.00	335.870	6961.70	190.09	754.88	1360.96	1706849.70	14289790.77	39°21'03.296"N	80°45'52.721"W	1556.29	60.984	4.01	-0.53	3.98	-0.53	
7535.00	336.370	6963.83	239.01	799.64	1341.14	1706829.89	14289835.51	39°21'03.739"N	80°45'52.972"W	1561.44	59.195	8.00	-1.02	7.94	-1.02	
7630.00	334.880	6964.11	333.91	886.06	1301.71	1706890.48	14289921.90	39°21'04.594"N	80°45'53.471"W	1574.66	55.757	2.05	-1.88	2.05	-1.88	
7724.00	335.300	6963.75	427.78	971.21	1261.90	1706850.68	14290007.02	39°21'05.437"N	80°45'53.975"W	1592.37	52.417	0.77	-0.77	0.00	0.77	
7818.00	330.810	6963.44	521.65	1056.44	1222.25	1706811.05	14290092.21	39°21'06.280"N	80°45'54.477"W	1615.54	49.162	0.53	-0.52	-0.07	-0.52	
7912.00	330.860	6963.22	615.25	1140.06	1179.35	1706768.16	14290175.79	39°21'07.108"N	80°45'55.020"W	1640.30	45.970	4.20	-0.03	-4.20	-0.03	
8007.00	331.060	6962.97	709.54	1223.11	1133.23	1706722.06	14290258.82	39°21'07.930"N	80°45'55.605"W	1667.40	42.816	0.22	0.06	0.21	0.06	
8101.00	337.930	6963.55	803.30	1307.90	1092.78	1706681.63	14290343.57	39°21'08.769"N	80°45'56.117"W	1704.34	39.880	7.40	-1.14	7.31	-1.14	
8196.00	343.580	6963.75	898.15	1397.55	1061.48	1706650.34	14290433.19	39°21'09.656"N	80°45'56.512"W	1754.96	37.218	6.16	-1.62	5.95	-1.62	
8290.00	340.160	6962.99	991.92	1486.87	1032.24	1706621.11	14290522.47	39°21'10.539"N	80°45'56.881"W	1810.05	34.770	3.66	-3.64	-3.64	-3.64	
8385.00	340.200	6962.66	1086.85	1576.24	1000.03	1706588.91	14290611.80	39°21'11.424"N	80°45'57.289"W	1866.70	32.393	0.17	-0.17	0.04	-0.17	
8479.00	346.080	6962.89	1180.43	1666.16	972.77	1706561.67	14290701.69	39°21'12.313"N	80°45'57.633"W	1929.35	30.278	6.28	-0.55	6.26	-0.55	
8573.00	345.660	6962.99	1273.54	1757.31	949.83	1706538.73	14290792.81	39°21'13.214"N	80°45'57.922"W	1997.58	28.391	0.85	-0.45	0.72	-0.45	
8668.00	342.170	6962.50	1368.27	1847.41	919.96	1706508.87	14290882.87	39°21'14.106"N	80°45'58.299"W	2063.80	26.472	8.42	-8.42	0.03	-8.42	
8762.00	327.750	6962.14	1461.75	1930.84	876.91	1706465.84	14290966.27	39°21'14.931"N	80°45'58.844"W	2120.64	24.426	10.54	-10.54	-0.20	-10.54	
8856.00	330.520	6962.86	1554.62	2011.52	828.69	1706417.64	14291046.91	39°21'15.730"N	80°45'59.455"W	2175.53	22.390	3.17	-1.18	2.95	-1.18	
8951.00	341.190	6963.47	1649.41	2098.08	789.89	1706378.66	14291133.44	39°21'16.687"N	80°45'59.946"W	2241.84	20.630	11.31	-11.23	0.19	-11.23	
9045.00	344.820	6962.92	1743.03	2187.96	762.42	1706351.40	14291223.28	39°21'17.476"N	80°46'00.293"W	2316.99	19.211	3.87	-3.86	0.19	-3.86	
9140.00	346.490	6962.23	1837.18	2279.99	738.88	1706327.67	14291315.28	39°21'18.386"N	80°46'00.590"W	2396.73	17.956	1.76	-0.03	1.76	-0.03	
9234.00	342.170	6961.45	1930.58	2370.47	713.50	1706302.50	14291405.72	39°21'19.281"N	80°46'00.910"W	2475.53	16.752	4.60	-4.60	0.16	-4.60	
9328.00	342.640	6960.69	2024.30	2460.07	685.09	1706274.10	14291495.28	39°21'20.167"N	80°46'01.269"W	2553.68	15.562	0.54	-0.19	0.50	-0.19	
9423.00	341.840	6959.98	2119.04	2550.54	656.11	1706245.13	14291585.72	39°21'21.062"N	80°46'01.635"W	2633.58	14.426	0.85	-0.84	0.06	-0.84	
9517.00	336.350	6959.13	2212.98	2638.32	622.58	1706211.62	14291673.46	39°21'21.930"N	80°46'02.059"W	2710.78	13.278	5.84	-5.84	0.06	-5.84	
9611.00	329.290	6958.42	2306.53	2721.88	579.67	1706168.72	14291756.99	39°21'22.757"N	80°46'02.602"W	2782.92	12.023	7.51	-7.51	-0.26	-7.51	
9705.00	329.080	6959.63	2399.41	2802.60	531.53	1706120.60	14291837.68	39°21'23.556"N	80°46'03.212"W	2852.56	10.739	2.25	-2.23	2.07	-2.23	
9800.00	342.830	6960.97	2494.11	2889.14	492.92	1706082.01	14291924.18	39°21'24.413"N	80°46'03.701"W	2930.88	9.682	14.62	-14.47	2.07	-14.47	
9894.00	351.210	6960.50	2586.86	2980.65	471.83	1706060.92	14292015.66	39°21'25.318"N	80°46'03.967"W	3017.76	8.995	8.92	-8.91	0.23	-8.91	



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Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH DATA (189 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
9988.00	90.430	343.350	6959.82	2679.56	3072.27	451.15	1706040.25	14292107.24	39°21'26.224"N	80°46'04.227"W	3105.22	8.354	8.36	0.03	-8.36	
10083.00	90.400	335.870	6959.13	2774.45	3161.25	418.07	1706007.19	14292196.19	39°21'27.104"N	80°46'04.645"W	3188.78	7.534	7.87	-0.03	-7.87	
10177.00	90.370	334.540	6958.50	2868.33	3246.58	378.65	1705967.78	14292281.48	39°21'27.948"N	80°46'05.144"W	3268.59	6.652	1.42	-0.03	-1.41	
10271.00	90.340	333.540	6957.91	2962.11	3331.10	337.51	1705926.65	14292365.96	39°21'28.785"N	80°46'05.665"W	3348.15	5.785	1.06	-0.03	-1.06	
10366.00	90.430	334.640	6957.27	3056.88	3416.54	296.00	1705885.16	14292451.38	39°21'29.630"N	80°46'06.191"W	3429.34	4.952	1.16	0.09	1.16	
10460.00	90.310	335.260	6956.67	3150.75	3501.70	256.20	1705845.38	14292536.50	39°21'30.473"N	80°46'06.695"W	3511.06	4.185	0.67	-0.13	0.66	
10554.00	90.400	335.300	6956.09	3244.64	3587.08	216.89	1705806.08	14292621.85	39°21'31.318"N	80°46'07.192"W	3593.63	3.460	0.10	0.10	0.04	
10648.00	90.400	335.330	6955.43	3338.53	3672.49	177.63	1705766.84	14292707.22	39°21'32.163"N	80°46'07.689"W	3678.78	2.769	0.03	0.00	0.03	
10743.00	90.370	334.620	6954.79	3433.40	3758.57	137.45	1705726.67	14292793.27	39°21'33.015"N	80°46'08.198"W	3761.08	2.094	0.75	-0.03	-0.75	
10837.00	90.220	337.740	6954.31	3527.34	3844.55	99.49	1705688.73	14292879.21	39°21'33.865"N	80°46'08.679"W	3845.84	1.482	3.32	-0.16	3.32	
10931.00	90.340	341.130	6953.85	3621.29	3932.55	66.47	1705655.73	14292967.18	39°21'34.736"N	80°46'09.096"W	3933.11	0.968	3.61	0.13	3.61	
11026.00	90.430	338.830	6953.21	3716.23	4021.80	33.95	1705623.22	14293056.39	39°21'35.619"N	80°46'09.507"W	4021.94	0.484	2.42	0.09	-2.42	
11120.00	90.280	342.160	6952.63	3810.12	4110.39	2.57	1705591.85	14293144.95	39°21'36.495"N	80°46'09.904"W	4110.39	0.036	3.55	-0.16	3.54	
11215.00	90.370	342.360	6952.09	3904.86	4200.87	-26.37	1705562.92	14293235.39	39°21'37.390"N	80°46'10.269"W	4200.95	359.640	0.23	0.09	0.21	
11309.00	90.310	334.300	6951.53	3998.78	4288.15	-61.05	1705528.25	14293322.64	39°21'38.254"N	80°46'10.708"W	4288.59	359.184	8.57	-0.06	-8.57	
11403.00	90.250	327.920	6951.07	4092.05	4370.41	-106.44	1705482.88	14293404.87	39°21'39.068"N	80°46'11.283"W	4371.71	358.605	6.79	-0.06	-6.79	
11497.00	90.430	331.460	6950.51	4185.05	4451.55	-153.87	1705435.47	14293485.97	39°21'39.871"N	80°46'11.884"W	4454.21	358.020	3.77	0.19	3.77	
11592.00	90.890	335.350	6949.42	4279.72	4536.48	-196.39	1705392.96	14293570.86	39°21'40.712"N	80°46'12.423"W	4540.72	357.521	4.12	0.48	4.09	
11686.00	90.430	340.220	6948.33	4373.68	4623.47	-231.92	1705357.45	14293657.82	39°21'41.572"N	80°46'12.873"W	4629.28	357.128	5.20	-0.49	5.18	
11781.00	90.650	344.000	6947.44	4468.42	4713.85	-261.10	1705328.29	14293748.17	39°21'42.466"N	80°46'13.241"W	4721.08	356.830	3.99	0.23	3.98	
11875.00	90.770	346.210	6946.27	4561.68	4804.68	-285.26	1705304.14	14293838.96	39°21'43.365"N	80°46'13.546"W	4813.14	356.602	2.35	0.13	2.35	
11969.00	90.400	346.930	6945.31	4654.63	4896.10	-307.09	1705282.32	14293930.35	39°21'44.269"N	80°46'13.821"W	4905.73	356.411	0.86	-0.39	0.77	
12063.00	90.430	345.620	6944.63	4747.64	4987.42	-329.39	1705260.02	14294021.63	39°21'45.172"N	80°46'14.102"W	4998.28	356.221	1.39	0.03	-1.39	
12158.00	90.430	342.150	6943.92	4842.12	5078.67	-355.75	1705233.67	14294112.84	39°21'46.074"N	80°46'14.434"W	5091.11	355.993	3.65	0.00	-3.65	
12252.00	90.180	336.740	6943.42	4936.06	5166.66	-388.74	1705200.69	14294200.79	39°21'46.945"N	80°46'14.852"W	5181.25	355.697	5.76	-0.27	-5.76	
12347.00	89.970	331.880	6943.29	5030.83	5252.23	-429.91	1705159.54	14294286.34	39°21'47.792"N	80°46'15.373"W	5269.80	355.321	5.12	-0.22	-5.12	
12441.00	90.370	324.960	6943.01	5123.47	5332.26	-479.11	1705110.36	14294366.33	39°21'48.584"N	80°46'15.997"W	5353.74	354.866	7.37	0.43	-7.36	
12535.00	90.180	329.350	6942.56	5215.76	5411.22	-530.08	1705059.41	14294445.26	39°21'49.366"N	80°46'16.643"W	5437.12	354.405	4.67	-0.20	4.67	
12630.00	90.310	333.730	6942.16	5310.14	5494.71	-575.34	1705014.17	14294528.72	39°21'50.192"N	80°46'17.217"W	5524.75	354.022	4.61	0.14	4.61	
12724.00	90.430	342.750	6941.55	5404.04	5581.92	-610.15	1704979.37	14294615.90	39°21'51.055"N	80°46'17.657"W	5615.17	353.762	9.60	0.13	9.60	

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Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH DATA (189 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
12819.00	90.550	346.700	6940.73	5498.36	5673.55	-635.17	1704954.36	14294707.48	39°21'51.961"N	80°46'17.973"W	5708.99	353.612	4.16	0.13	4.16	
12913.00	90.090	340.050	6940.21	5591.89	5763.56	-662.05	1704927.49	14294797.47	39°21'52.851"N	80°46'18.312"W	5801.46	353.447	7.09	-0.49	-7.07	
13008.00	90.090	341.180	6940.06	5686.79	5853.18	-693.58	1704895.97	14294887.04	39°21'53.738"N	80°46'18.711"W	5894.13	353.242	1.19	0.00	1.19	
13102.00	90.280	344.730	6939.76	5780.43	5943.03	-721.13	1704868.43	14294976.86	39°21'54.627"N	80°46'19.059"W	5986.62	353.082	3.78	0.20	3.78	
13197.00	90.220	342.730	6939.34	5874.94	6034.22	-747.75	1704841.83	14295088.02	39°21'55.528"N	80°46'19.394"W	6080.38	352.936	2.11	-0.06	-2.11	
13291.00	90.120	337.210	6939.06	5968.85	6122.50	-779.93	1704809.66	14295156.26	39°21'56.402"N	80°46'19.801"W	6171.98	352.740	5.87	-0.11	-5.87	
13386.00	90.150	334.760	6938.84	6063.79	6209.27	-818.59	1704771.02	14295243.00	39°21'57.260"N	80°46'20.291"W	6263.00	352.490	2.58	0.03	-2.58	
13480.00	90.150	336.470	6938.59	6157.70	6294.88	-857.40	1704732.22	14295328.57	39°21'58.107"N	80°46'20.782"W	6353.01	352.244	1.82	0.00	1.82	
13574.00	90.150	334.240	6938.35	6251.59	6380.32	-896.59	1704693.04	14295413.97	39°21'58.953"N	80°46'21.279"W	6443.00	352.001	2.37	0.00	-2.37	
13669.00	90.060	333.500	6938.17	6346.35	6465.61	-938.43	1704651.22	14295499.23	39°21'59.797"N	80°46'21.808"W	6533.35	351.742	0.78	-0.09	-0.78	
13763.00	90.250	345.090	6937.92	6440.16	6553.38	-971.61	1704618.06	14295586.97	39°22'00.665"N	80°46'22.228"W	6625.02	351.567	12.33	0.20	12.33	
13857.00	90.800	346.170	6937.06	6533.32	6644.44	-994.94	1704594.74	14295677.99	39°22'01.566"N	80°46'22.522"W	6718.52	351.484	1.29	0.59	1.15	
13952.00	91.200	335.470	6935.39	6628.06	6734.02	-1026.10	1704563.59	14295767.54	39°22'02.452"N	80°46'22.916"W	6811.75	351.336	11.27	0.42	-11.26	
14046.00	90.890	338.860	6933.68	6722.02	6820.63	-1062.56	1704527.14	14295854.11	39°22'03.309"N	80°46'23.378"W	6902.90	351.145	3.62	-0.33	3.61	
14140.00	92.190	332.380	6931.15	6815.85	6906.17	-1101.33	1704488.39	14295939.61	39°22'04.155"N	80°46'23.868"W	6993.43	350.939	7.03	1.38	-6.89	
14235.00	90.800	329.090	6928.67	6910.04	6989.00	-1147.75	1704441.99	14296022.41	39°22'04.975"N	80°46'24.457"W	7082.61	350.674	3.76	-1.46	-3.46	
14330.00	90.710	331.480	6927.42	7004.17	7071.49	-1194.83	1704394.93	14296104.87	39°22'05.792"N	80°46'25.054"W	7171.72	350.410	2.52	-0.09	2.52	
14424.00	90.650	334.530	6926.30	7097.79	7155.24	-1237.49	1704352.28	14296188.58	39°22'06.620"N	80°46'25.594"W	7261.46	350.188	3.25	-0.06	3.24	
14518.00	90.650	338.570	6925.24	7191.74	7241.45	-1274.89	1704314.90	14296274.76	39°22'07.473"N	80°46'26.068"W	7352.82	350.015	4.30	0.00	4.30	
14613.00	89.940	338.380	6924.75	7286.73	7329.82	-1309.74	1704280.06	14296363.10	39°22'08.348"N	80°46'26.509"W	7445.92	349.869	0.77	-0.75	-0.20	
14707.00	89.910	340.850	6924.87	7380.69	7417.93	-1342.48	1704247.33	14296451.17	39°22'09.219"N	80°46'26.923"W	7538.43	349.742	2.63	-0.03	2.63	
14802.00	89.910	345.870	6925.02	7475.24	7508.92	-1369.68	1704220.15	14296542.13	39°22'10.119"N	80°46'27.266"W	7632.82	349.663	5.28	0.00	5.28	
14896.00	89.780	344.710	6925.27	7568.48	7599.84	-1393.55	1704196.29	14296633.01	39°22'11.018"N	80°46'27.567"W	7726.54	349.609	1.24	-0.14	-1.23	
14990.00	89.940	340.420	6925.50	7662.16	7689.50	-1421.70	1704168.14	14296722.63	39°22'11.905"N	80°46'27.923"W	7819.82	349.525	4.57	0.17	-4.56	
15084.00	89.850	338.650	6925.68	7756.12	7777.56	-1454.57	1704135.29	14296810.66	39°22'12.776"N	80°46'28.338"W	7912.41	349.407	1.89	-0.10	-1.88	
15179.00	89.910	338.240	6925.87	7851.12	7865.92	-1489.47	1704100.40	14296898.98	39°22'13.651"N	80°46'28.780"W	8005.70	349.278	0.44	0.06	-0.43	
15273.00	89.880	335.350	6926.05	7945.09	7952.30	-1526.50	1704063.38	14296985.33	39°22'14.505"N	80°46'29.249"W	8097.49	349.134	3.07	-0.03	-3.07	
15367.00	88.860	334.880	6927.08	8038.96	8037.57	-1566.06	1704023.85	14297070.57	39°22'15.349"N	80°46'29.750"W	8188.71	348.975	1.19	-1.09	-0.50	
15461.00	88.860	334.460	6928.95	8132.78	8122.51	-1606.26	1703983.65	14297155.48	39°22'16.190"N	80°46'30.259"W	8279.81	348.814	0.45	0.00	-0.45	
15556.00	88.920	337.820	6930.79	8227.70	8209.37	-1644.68	1703945.25	14297242.30	39°22'17.049"N	80°46'30.745"W	8372.50	348.671	3.54	0.06	3.54	

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Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH DATA (189 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
15650.00	88.680	338.930	6932.76	8321.68	8296.73	-1679.31	1703910.63	14297329.63	39°22'17.913"N	80°46'31.184"W	8464.98	348.558	1.21	-0.26	1.18	
15744.00	88.830	338.490	6934.80	8415.65	8384.29	-1713.44	1703876.53	14297417.15	39°22'18.779"N	80°46'31.615"W	8557.58	348.450	0.49	0.16	-0.47	
15839.00	88.740	338.070	6936.82	8510.62	8472.53	-1748.58	1703841.39	14297505.35	39°22'19.652"N	80°46'32.060"W	8651.09	348.339	0.45	-0.09	-0.44	
15933.00	89.140	335.570	6938.56	8604.58	8558.92	-1785.58	1703804.41	14297591.71	39°22'20.507"N	80°46'32.528"W	8743.19	348.216	2.69	0.43	-2.66	
16027.00	90.030	343.660	6939.24	8698.46	8646.96	-1818.29	1703771.71	14297679.71	39°22'21.378"N	80°46'32.942"W	8836.06	348.125	8.66	0.95	8.61	
16122.00	89.750	336.730	6939.42	8793.33	8736.28	-1850.46	1703739.56	14297769.00	39°22'22.262"N	80°46'33.349"W	8930.11	348.041	7.30	-0.29	-7.29	
16216.00	89.570	336.910	6939.98	8887.31	8822.69	-1887.46	1703702.57	14297855.38	39°22'23.117"N	80°46'33.817"W	9022.33	347.925	0.27	-0.19	0.19	
16276.00	89.630	334.490	6940.40	8947.26	8877.37	-1912.15	1703677.89	14297910.04	39°22'23.658"N	80°46'34.130"W	9080.97	347.844	4.03	0.10	-4.03	
16304.00	89.630	334.490	6940.58	8975.20	8902.64	-1924.20	1703665.84	14297935.30	39°22'23.908"N	80°46'34.283"W	9108.21	347.804	0.00	0.00	0.00	Projected MD at TD: 16304'

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Brocade Unit 2H POE - Rev-1	6920.00	583.13	1424.54	1707013.26	14289619.09	39°21'01.597"N	80°45'51.917"W	point
Brocade Unit 2H BHL - Rev-1	6963.00	8895.32	-1933.66	1703656.38	14297927.98	39°22'23.836"N	80°46'34.404"W	point
Brocade Unit 2H LP - Rev-1	6963.00	766.74	1350.37	1706939.11	14289802.62	39°21'03.414"N	80°45'52.856"W	point

WELLPATH COMPOSITION - Ref Wellbore: Brocade Unit 2H AWB Ref Wellpath: Brocade Unit 2H AWP Proj: 16304'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	6223.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <8-3/4">(100'-5211')	Brocade Unit 2H AWB
6223.00	16276.00	BHI AutoTrak Curve (Short)	02 BHI AT Curve <8-1/2"> (6223)(6387'-16276')	Brocade Unit 2H AWB
16276.00	16304.00	Blind Drilling (std)	Projection to bit	Brocade Unit 2H AWB

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Actual Wellpath Report

Brocade Unit 2H AWP Proj: 16304'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Brocade Unit 2H
Field	Doddridge	Wellbore	Brocade Unit 2H AWB
Facility	Yvonne Pad		

COMMENTS

Wellpath general comments

API: 47-017-06532-0000
 BHI Job #: 8275314
 Rig: Patterson 343
 Duration: 11/24/2016-11/27/2016
 Gyrodata MS Gyro <8-3/4"> (112'-6223')
 BHI AT Curve <8-1/2"> (6223')(6387'-16276')
 Middlesex: 6938' MD
 Burkett: 7130' MD
 Tully: 7183' MD
 Marcellus POE: 7292' MD
 Projected MD at TD: 16304'

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