



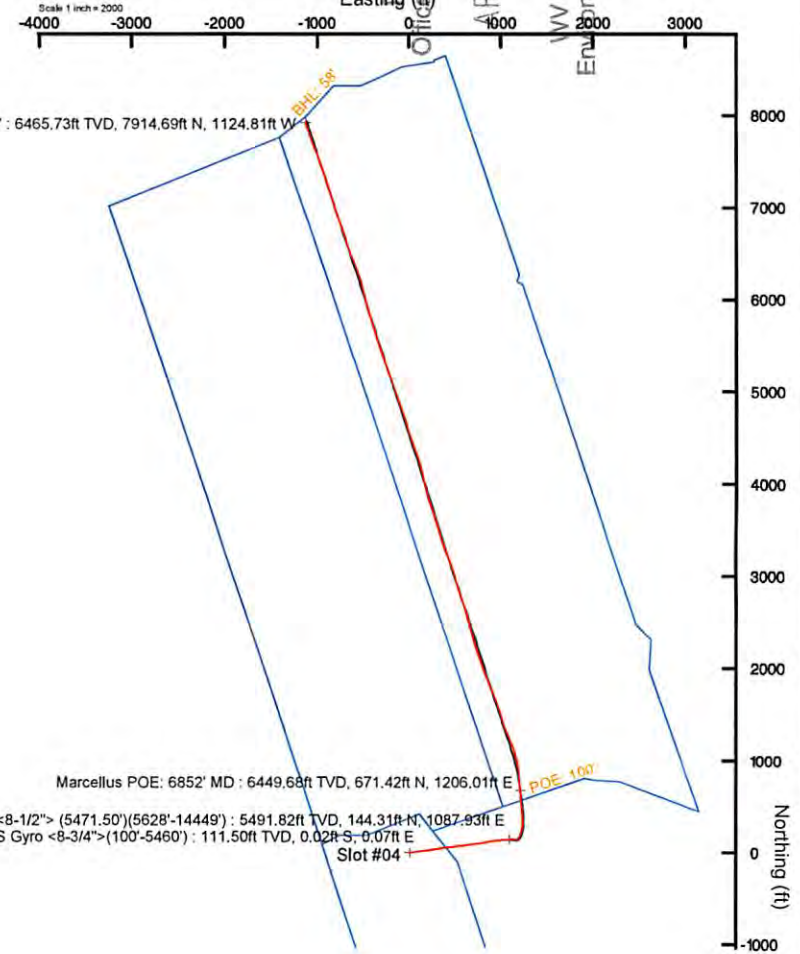
ANTERO RESOURCES CORPORATION

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

Slot: Slot #04
 Well: Mossor Unit 1H
 Wellbore: Mossor Unit 1H PWB

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 BAKER HUGHES

API: 47-017-06777-0000
 BHI Job #: 8510924
 Rig: Frontier 22
 Duration: 04/16/2017-04/18/2017



Scale 1 inch = 1500

True Vertical Depth (ft)

Plot reference wellpath is Mossor Unit 1H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Frontier 22 (RKB)	* = Wellpath was transformed from a different geodetic 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 (At Slot: Slot #04) -1021 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: delaset on 2017-05-08
	Database: WA_MPL_EasternUS_Deft



Gyrodata MS Gyro <8-3/4">(100'-5460') : 0.10° Inc, 111.50ft MD, 111.50ft TVD, -0.04ft VS

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Long Run Pad	1678891.242	14271319.517	39°18'01.230"N	80°51'50.390"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #04	0.00	0.00	1678891.242	14271319.517
Comment Mossor Unit 1H				
Frontier 22 (RKB) to Mud line (At Slot: Slot #04)	24.5ft			
Mean Sea Level to Mud line (At Slot: Slot #04)	-1021ft			
Frontier 22 (RKB) to Mean Sea Level	1045.5ft			

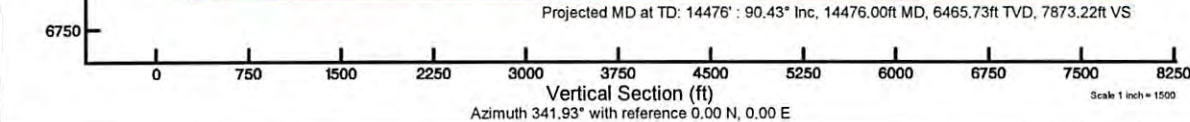
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5471.50	15.080	94.330	5340.08	143.63	1049.73	0.00	-189.06
Proj. To Bit	5647.50	14.340	93.520	5510.31	140.56	1094.31	0.44	-205.80
Curve KOP	5919.75	14.340	93.520	5774.07	136.42	1161.61	0.00	-230.61
End of 3D Arc	6195.10	22.347	22.684	6038.05	183.20	1216.51	8.00	-203.17
POE	6814.46	74.218	351.000	6441.00	621.29	1215.19	9.00	213.72
Landing Pt.	6989.82	90.000	351.002	6465.00	792.31	1188.11	9.00	384.71
On Azimuth	7292.24	90.000	341.927	6465.00	1086.03	1117.41	3.00	685.87
BHL	14492.24	90.000	341.927	6465.00	7930.81	-1116.20	0.00	7855.87

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #04	Mossor Unit 1H	Mossor Unit 1H AWB	Mossor Unit 1H AWP Proj: 14476'
Slot #04	Mossor Unit 1H	Mossor Unit 1H PWB	Mossor Unit 1H PWP Rev-A.0

BHI AT Curve <8-1/2"> (5471.50')(5628'-14449') : 13.32° Inc, 5628.00ft MD, 5491.82ft TVD, -200.26ft VS

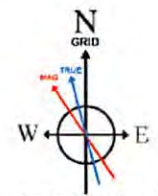
Marcellus POE: 6852' MD : 76.75° Inc, 6852.00ft MD, 6449.68ft TVD, 264.23ft VS

Projected MD at TD: 14476' : 90.43° Inc, 14476.00ft MD, 6465.73ft TVD, 7873.22ft VS



Vertical Section (ft)
 Azimuth 341.93° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



User specified Dip: 66.59° Field: 52059 nT
 Magnetic North is 7.65 degrees West of True North (at 14/Apr/2017)
 Grid North is 0.09 degrees East of True North
 To correct azimuth from True to Grid subtract 0.09 degrees
 To correct azimuth from Magnetic to Grid subtract 7.74 degrees



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H 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	08/May/2017 at 11:22
Convergence at slot	0.09° East	Database/Source file	WA_MPL_EasternUS_Defn/Mossor_Unit_1H_AWP_Proj_14476_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1678891.24	14271319.52	39°18'01.230"N	80°51'50.390"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 #04)	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	341.93°



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H 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	08/May/2017 at 11:22
Convergence at slot	0.09° East	Database/Source file	WA_MPL_EasternUS_Defn/Mossor_Unit_1H_AWP_Proj_14476_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1678891.24	14271319.52	39°18'01.230"N	80°51'50.390"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 #04)	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	341.93°



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWP
Facility	Long Run Pad		

WELLPATH DATA (171 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	106.740	0.00	0.00	0.00	0.00	1678891.24	14271319.52	39°18'01.230"N	80°51'50.390"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	106.740	24.50	0.00	0.00	0.00	1678891.24	14271319.52	39°18'01.230"N	80°51'50.390"W	0.00	0.000	0.00	0.00	0.00	
111.50	0.100	106.740	111.50	-0.04	-0.02	0.07	1678891.31	14271319.49	39°18'01.230"N	80°51'50.389"W	0.08	106.740	0.11	0.11	122.69	Syrodata MS Gyro <8-3/4">(100'-5460')
211.50	0.420	33.580	211.50	0.13	0.26	0.36	1678891.60	14271319.78	39°18'01.233"N	80°51'50.385"W	0.44	54.260	0.40	0.32	-73.16	
311.50	0.550	37.960	311.50	0.63	0.94	0.86	1678892.10	14271320.46	39°18'01.239"N	80°51'50.379"W	1.27	42.289	0.14	0.13	4.38	
411.50	0.330	70.310	411.49	0.91	1.42	1.42	1678892.66	14271320.93	39°18'01.244"N	80°51'50.372"W	2.01	45.116	0.32	-0.22	32.35	
511.50	0.210	126.930	511.49	0.76	1.40	1.84	1678893.08	14271320.92	39°18'01.244"N	80°51'50.367"W	2.32	52.659	0.28	-0.12	56.62	
611.50	0.360	237.120	611.49	0.53	1.12	1.72	1678892.97	14271320.64	39°18'01.241"N	80°51'50.368"W	2.06	56.895	0.48	0.15	110.19	
711.50	0.440	257.150	711.49	0.49	0.87	1.09	1678892.33	14271320.38	39°18'01.239"N	80°51'50.376"W	1.39	51.355	0.16	0.08	20.03	
811.50	0.410	269.040	811.49	0.63	0.78	0.35	1678891.60	14271320.29	39°18'01.238"N	80°51'50.385"W	0.85	24.467	0.09	-0.03	11.89	
911.50	1.100	65.470	911.48	0.84	1.17	0.87	1678892.11	14271320.69	39°18'01.242"N	80°51'50.379"W	1.46	36.621	1.48	0.69	156.43	
1011.50	3.180	73.960	1011.41	0.85	2.33	4.41	1678895.65	14271321.85	39°18'01.253"N	80°51'50.334"W	4.99	62.099	2.10	2.08	8.49	
1111.50	5.170	82.510	1111.14	-0.07	3.69	11.54	1678902.78	14271323.20	39°18'01.266"N	80°51'50.243"W	12.12	72.280	2.08	1.99	8.55	
1211.50	6.890	85.690	1210.58	-2.33	4.73	21.99	1678913.22	14271324.24	39°18'01.276"N	80°51'50.110"W	22.49	77.871	1.75	1.72	3.18	
1311.50	8.390	81.980	1309.69	-5.03	6.19	35.20	1678926.43	14271325.71	39°18'01.291"N	80°51'49.942"W	35.74	80.018	1.58	1.50	-3.71	
1411.50	9.660	80.290	1408.45	-7.52	8.63	50.69	1678941.91	14271328.14	39°18'01.315"N	80°51'49.745"W	51.42	80.341	1.30	1.27	-1.69	
1511.50	10.880	82.460	1506.85	-10.47	11.28	68.32	1678959.53	14271330.79	39°18'01.340"N	80°51'49.521"W	69.24	80.623	1.28	1.22	2.17	
1611.50	11.330	82.970	1604.97	-14.07	13.72	87.42	1678978.63	14271333.23	39°18'01.364"N	80°51'49.278"W	88.49	81.080	0.46	0.45	0.51	
1711.50	12.350	83.180	1702.84	-18.04	16.19	107.79	1678998.99	14271335.70	39°18'01.388"N	80°51'49.019"W	109.00	81.456	1.02	1.02	0.21	
1811.50	13.680	83.900	1800.27	-22.58	18.72	130.17	1679021.36	14271338.23	39°18'01.413"N	80°51'48.734"W	131.51	81.816	1.34	1.33	0.72	
1911.50	15.210	81.850	1897.11	-27.29	21.84	154.91	1679046.09	14271341.35	39°18'01.444"N	80°51'48.419"W	156.45	81.976	1.61	1.53	-2.05	
2011.50	15.390	83.280	1993.57	-32.16	25.25	181.08	1679072.25	14271344.76	39°18'01.477"N	80°51'48.086"W	182.83	82.062	0.42	0.18	1.43	
2111.50	14.320	83.350	2090.22	-37.22	28.23	206.54	1679097.70	14271347.74	39°18'01.506"N	80°51'47.762"W	208.46	82.216	1.07	-1.07	0.07	
2211.50	14.060	80.130	2187.17	-41.40	31.75	230.79	1679121.94	14271351.25	39°18'01.540"N	80°51'47.454"W	232.97	82.167	0.83	-0.26	-3.22	
2311.50	15.630	82.110	2283.83	-45.52	35.68	256.10	1679147.24	14271355.18	39°18'01.579"N	80°51'47.132"W	258.58	82.069	1.65	1.57	1.98	
2411.50	15.710	81.360	2380.12	-50.12	39.56	282.83	1679173.96	14271359.06	39°18'01.617"N	80°51'46.791"W	285.59	82.037	0.22	0.08	-0.75	
2511.50	14.300	80.240	2476.70	-54.12	43.69	308.39	1679199.51	14271363.19	39°18'01.657"N	80°51'46.466"W	311.47	81.936	1.44	-1.41	-1.12	
2611.50	13.210	79.610	2573.83	-57.43	47.85	331.80	1679222.91	14271367.34	39°18'01.698"N	80°51'46.168"W	335.23	81.795	1.10	-1.09	-0.63	
2711.50	13.240	80.770	2671.18	-60.72	51.74	354.34	1679245.44	14271371.24	39°18'01.736"N	80°51'45.882"W	358.10	81.692	0.27	0.03	1.16	
2811.50	14.070	83.790	2768.36	-64.98	54.89	377.73	1679268.82	14271374.39	39°18'01.767"N	80°51'45.584"W	381.70	81.731	1.09	0.83	3.02	



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWP
Facility	Long Run Pad		

WELLPATH DATA (171 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]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
2911.50	14.610	84.710	2865.24	-70.26	57.37	402.37	1679293.45	14271376.87	39°18'01.791"N	80°51'45.271"W	406.44	81.885	0.59	0.54	0.92	
3011.50	15.300	85.160	2961.85	-76.07	59.65	428.08	1679319.15	14271379.14	39°18'01.813"N	80°51'44.944"W	432.21	82.067	0.70	0.69	0.45	
3111.50	16.100	85.000	3058.12	-82.23	61.97	455.04	1679346.10	14271381.46	39°18'01.836"N	80°51'44.601"W	459.24	82.245	0.80	0.80	-0.16	
3211.50	16.040	82.170	3154.22	-87.82	65.06	482.54	1679373.59	14271384.55	39°18'01.866"N	80°51'44.251"W	486.90	82.321	0.79	-0.06	-2.83	
3311.50	14.870	81.160	3250.60	-92.34	68.92	508.90	1679399.94	14271388.40	39°18'01.904"N	80°51'43.915"W	513.55	82.288	1.20	-1.17	-1.01	
3411.50	14.880	84.700	3347.25	-97.23	72.07	534.37	1679425.40	14271391.56	39°18'01.934"N	80°51'43.591"W	539.21	82.319	0.91	0.01	3.54	
3511.50	14.290	84.030	3444.03	-102.66	74.54	559.43	1679450.45	14271394.03	39°18'01.958"N	80°51'43.272"W	564.37	82.410	0.61	-0.59	-0.67	
3611.50	14.380	81.640	3540.91	-107.34	77.63	583.99	1679475.00	14271397.12	39°18'01.989"N	80°51'42.960"W	589.13	82.428	0.60	0.09	-2.39	
3711.50	14.590	81.500	3637.73	-111.53	81.30	608.73	1679499.73	14271400.78	39°18'02.024"N	80°51'42.645"W	614.14	82.393	0.21	0.21	-0.14	
3811.50	14.270	81.280	3734.58	-115.62	85.03	633.37	1679524.36	14271404.51	39°18'02.061"N	80°51'42.332"W	639.05	82.354	0.32	-0.32	-0.22	
3911.50	14.470	80.750	3831.45	-119.54	88.91	657.88	1679548.86	14271408.39	39°18'02.099"N	80°51'42.020"W	663.86	82.304	0.24	0.20	-0.53	
4011.50	14.450	82.830	3928.28	-123.82	92.47	682.59	1679573.56	14271411.95	39°18'02.134"N	80°51'41.705"W	688.83	82.285	0.52	-0.02	2.08	
4111.50	14.720	83.410	4025.06	-128.70	95.49	707.59	1679598.55	14271414.97	39°18'02.163"N	80°51'41.387"W	714.01	82.315	0.31	0.27	0.58	
4211.50	15.120	83.130	4121.69	-133.77	98.50	733.16	1679624.11	14271417.98	39°18'02.193"N	80°51'41.062"W	739.75	82.348	0.41	0.40	-0.28	
4311.50	14.960	82.250	4218.26	-138.61	101.81	758.90	1679649.84	14271421.28	39°18'02.225"N	80°51'40.734"W	765.70	82.359	0.28	-0.16	-0.88	
4411.50	14.920	81.150	4314.88	-142.99	105.53	784.41	1679675.34	14271425.00	39°18'02.261"N	80°51'40.410"W	791.48	82.338	0.29	-0.04	-1.10	
4511.50	15.000	78.380	4411.50	-146.50	110.11	809.81	1679700.73	14271429.59	39°18'02.306"N	80°51'40.087"W	817.26	82.257	0.72	0.08	-2.77	
4611.50	15.500	78.520	4507.97	-149.49	115.38	835.58	1679726.49	14271434.85	39°18'02.358"N	80°51'39.759"W	843.51	82.138	0.50	0.50	0.14	
4711.50	13.750	75.300	4604.73	-151.72	121.06	860.17	1679751.07	14271440.52	39°18'02.414"N	80°51'39.446"W	868.65	81.989	1.93	-1.75	-3.22	
4811.50	12.540	79.000	4702.11	-153.76	126.14	882.32	1679773.21	14271445.61	39°18'02.463"N	80°51'39.164"W	891.29	81.864	1.47	-1.21	3.70	
4911.50	13.370	83.950	4799.57	-157.50	129.43	904.48	1679795.36	14271448.90	39°18'02.496"N	80°51'38.882"W	913.69	81.856	1.39	0.83	4.95	
5011.50	14.910	86.090	4896.54	-163.06	131.53	928.81	1679819.68	14271450.99	39°18'02.516"N	80°51'38.573"W	938.08	81.940	1.63	1.54	2.14	
5111.50	16.370	86.940	4992.83	-169.85	133.16	955.72	1679846.58	14271452.62	39°18'02.532"N	80°51'38.230"W	964.95	82.068	1.48	1.46	0.85	
5211.50	15.840	81.760	5088.91	-175.83	135.87	983.30	1679874.15	14271455.33	39°18'02.558"N	80°51'37.879"W	992.64	82.133	1.53	-0.53	-5.18	
5311.50	15.380	77.020	5185.23	-179.34	140.80	1009.73	1679900.57	14271460.26	39°18'02.606"N	80°51'37.543"W	1019.50	82.062	1.36	-0.46	-4.74	
5411.50	13.950	88.700	5281.99	-184.00	144.05	1034.71	1679925.54	14271463.51	39°18'02.638"N	80°51'37.225"W	1044.69	82.074	3.28	-1.43	11.68	
5471.50	15.080	94.330	5340.08	-189.06	143.63	1049.73	1679940.55	14271463.09	39°18'02.634"N	80°51'37.034"W	1059.51	82.209	3.01	1.88	9.38	
5628.00	13.320	82.950	5491.82	-200.26	144.31	1087.93	1679978.73	14271463.76	39°18'02.640"N	80°51'36.548"W	1097.46	82.444	2.10	-1.12	-7.27	BHI AT Curve <8-1/2"> (5471.50')(5628'-14449')
5675.00	14.100	83.760	5537.48	-202.47	145.59	1098.99	1679989.79	14271465.05	39°18'02.652"N	80°51'36.407"W	1108.59	82.454	1.71	1.66	1.72	
5725.00	14.010	89.520	5585.98	-205.55	146.30	1111.10	1680001.90	14271465.76	39°18'02.659"N	80°51'36.253"W	1120.69	82.499	2.80	-0.18	11.52	



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWB
Facility	Long Run Pad		

WELLPATH DATA (171 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)	
5770.00	13.910	93.620	5629.66	-209.20	146.01	1121.94	1680012.74	14271465.47	39°18'02.656"N	80°51'36.116"W	1131.41	82.585	2.21	-0.22	9.11	
5818.00	14.050	94.010	5676.23	-213.52	145.24	1133.51	1680024.30	14271464.70	39°18'02.648"N	80°51'35.968"W	1142.78	82.698	0.35	0.29	0.81	
5865.00	13.810	94.810	5721.85	-217.84	144.37	1144.80	1680035.58	14271463.83	39°18'02.640"N	80°51'35.825"W	1153.86	82.812	0.65	-0.51	1.70	
5913.00	14.030	93.620	5768.44	-222.22	143.52	1156.31	1680047.09	14271462.98	39°18'02.631"N	80°51'35.678"W	1165.18	82.925	0.75	0.46	-2.48	
5960.00	14.120	73.540	5814.06	-224.49	144.79	1167.50	1680058.28	14271464.24	39°18'02.643"N	80°51'35.536"W	1176.44	82.931	10.34	0.19	-42.72	
6008.00	14.530	52.170	5860.60	-222.62	150.14	1177.88	1680068.65	14271469.60	39°18'02.696"N	80°51'35.404"W	1187.41	82.736	10.99	0.85	-44.52	
6055.00	15.850	37.410	5905.97	-216.98	158.86	1186.44	1680077.21	14271478.31	39°18'02.782"N	80°51'35.295"W	1197.03	82.374	8.67	2.81	-31.40	
6103.00	18.430	30.660	5951.84	-208.26	170.60	1194.29	1680085.06	14271490.04	39°18'02.898"N	80°51'35.195"W	1206.42	81.871	6.78	5.38	-14.06	
6150.00	20.340	26.100	5996.18	-197.50	184.32	1201.68	1680092.44	14271503.77	39°18'03.034"N	80°51'35.101"W	1215.73	81.279	5.18	4.06	-9.70	
6198.00	21.910	23.510	6040.95	-184.82	200.03	1208.92	1680099.68	14271519.47	39°18'03.189"N	80°51'35.008"W	1225.36	80.605	3.80	3.27	-5.40	
6245.00	25.230	18.290	6084.03	-170.19	217.59	1215.56	1680106.32	14271537.02	39°18'03.362"N	80°51'34.923"W	1234.88	79.851	8.34	7.06	-11.11	
6293.00	28.270	12.570	6126.89	-152.16	238.40	1221.25	1680112.00	14271557.83	39°18'03.568"N	80°51'34.850"W	1244.30	78.954	8.29	6.33	-11.92	
6340.00	32.040	8.240	6167.53	-131.40	261.62	1225.46	1680116.21	14271581.03	39°18'03.797"N	80°51'34.796"W	1253.08	77.949	9.26	8.02	-9.21	
6388.00	36.090	4.380	6207.29	-106.91	288.33	1228.37	1680119.12	14271607.73	39°18'04.061"N	80°51'34.759"W	1261.75	76.790	9.56	8.44	-8.04	
6435.00	40.610	1.710	6244.14	-79.70	317.44	1229.88	1680120.63	14271636.83	39°18'04.349"N	80°51'34.739"W	1270.19	75.528	10.24	9.62	-5.68	
6466.00†	43.847	0.216	6267.09	-60.01	338.27	1230.22	1680120.97	14271657.65	39°18'04.555"N	80°51'34.734"W	1275.88	74.626	10.93	10.44	-4.82	Middlesex: 6466' MD
6483.00	45.630	359.470	6279.17	-48.62	350.23	1230.19	1680120.94	14271669.61	39°18'04.673"N	80°51'34.735"W	1279.07	74.109	10.93	10.49	-4.39	
6530.00	50.140	357.880	6310.68	-15.24	385.07	1229.37	1680120.12	14271704.44	39°18'05.017"N	80°51'34.744"W	1288.26	72.608	9.92	9.60	-3.38	
6578.00	54.520	356.630	6340.01	21.39	423.01	1227.53	1680118.29	14271742.36	39°18'05.392"N	80°51'34.767"W	1298.38	70.986	9.35	9.13	-2.60	
6625.00	59.080	355.820	6365.74	59.50	462.24	1224.94	1680115.69	14271781.58	39°18'05.780"N	80°51'34.799"W	1309.25	69.325	9.81	9.70	-1.72	
6673.00	63.780	355.320	6388.69	100.45	504.26	1221.68	1680112.43	14271823.58	39°18'06.196"N	80°51'34.840"W	1321.66	67.571	9.83	9.79	-1.04	Burket: 6673' MD
6720.00	67.110	354.890	6408.22	142.07	546.85	1218.03	1680108.78	14271866.15	39°18'06.616"N	80°51'34.885"W	1335.16	65.822	7.13	7.09	-0.91	
6745.00†	68.683	354.616	6417.62	164.65	569.91	1215.91	1680106.67	14271889.20	39°18'06.844"N	80°51'34.912"W	1342.85	64.887	6.37	6.29	-1.09	Tully: 6745' MD
6768.00	70.130	354.370	6425.71	185.67	591.34	1213.85	1680104.60	14271910.62	39°18'07.056"N	80°51'34.938"W	1350.23	64.026	6.37	6.29	-1.07	
6815.00	73.780	354.220	6440.27	229.31	635.80	1209.40	1680100.16	14271955.07	39°18'07.496"N	80°51'34.993"W	1366.35	62.268	7.77	7.77	-0.32	
6824.00†	74.503	354.384	6442.73	237.77	644.42	1208.54	1680099.30	14271963.68	39°18'07.581"N	80°51'35.004"W	1369.62	61.933	8.23	8.04	1.82	Hamilton: 6824' MD
6852.00†	76.755	354.887	6449.68	264.23	671.42	1206.01	1680096.77	14271990.67	39°18'07.848"N	80°51'35.036"W	1380.31	60.894	8.23	8.04	1.80	Marcellus POE: 6852' MD
6864.00	77.720	355.100	6452.33	275.63	683.08	1204.99	1680095.75	14272002.32	39°18'07.963"N	80°51'35.049"W	1385.13	60.452	8.23	8.04	1.77	
6911.00	80.790	355.080	6461.09	320.59	729.08	1201.04	1680091.80	14272048.31	39°18'08.418"N	80°51'35.098"W	1405.01	58.740	6.53	6.53	-0.04	
6958.00	84.050	355.810	6467.29	365.88	775.52	1197.34	1680088.10	14272094.72	39°18'08.877"N	80°51'35.144"W	1426.55	57.069	7.10	6.94	1.55	



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWP
Facility	Long Run Pad		

WELLPATH DATA (171 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
7005.00	87.970	355.880	6470.56	411.38	822.27	1193.94	1680084.71	14272141.46	39°18'09.339"N	80°51'35.186"W	1449.70	55.445	8.34	8.34	0.15	
7053.00	90.490	353.900	6471.20	458.15	870.07	1189.67	1680080.43	14272189.24	39°18'09.812"N	80°51'35.240"W	1473.88	53.820	6.68	5.25	-4.13	
7148.00	89.600	349.460	6471.13	551.75	964.04	1175.92	1680066.69	14272283.18	39°18'10.741"N	80°51'35.413"W	1520.58	50.654	4.77	-0.94	-4.67	
7243.00	90.220	344.620	6471.28	646.34	1056.60	1154.62	1680045.40	14272375.69	39°18'11.656"N	80°51'35.682"W	1565.10	47.538	5.14	0.65	-5.09	
7338.00	89.750	339.590	6471.30	741.31	1146.97	1125.44	1680016.23	14272466.03	39°18'12.549"N	80°51'36.051"W	1606.91	44.457	5.32	-0.49	-5.29	
7433.00	89.720	336.990	6471.74	836.11	1235.22	1090.30	1679981.11	14272554.25	39°18'13.422"N	80°51'36.497"W	1647.59	41.434	2.74	-0.03	-2.74	
7526.00	89.660	337.250	6472.25	928.78	1320.91	1054.15	1679944.97	14272639.89	39°18'14.270"N	80°51'36.955"W	1689.98	38.592	0.29	-0.06	0.28	
7620.00	90.030	342.040	6472.50	1022.68	1409.01	1021.46	1679912.29	14272727.96	39°18'15.141"N	80°51'37.369"W	1740.31	35.940	5.11	0.39	5.10	
7715.00	90.340	344.450	6472.19	1117.65	1499.97	994.08	1679884.92	14272818.89	39°18'16.040"N	80°51'37.716"W	1799.47	33.534	2.56	0.33	2.54	
7810.00	90.180	341.280	6471.76	1212.62	1590.74	966.09	1679856.95	14272909.62	39°18'16.938"N	80°51'38.070"W	1861.12	31.271	3.34	-0.17	-3.34	
7905.00	89.910	338.340	6471.69	1307.55	1679.89	933.31	1679824.17	14272998.74	39°18'17.819"N	80°51'38.485"W	1921.74	29.055	3.11	-0.28	-3.09	
7999.00	90.060	337.490	6471.71	1401.31	1766.99	897.96	1679788.85	14273085.80	39°18'18.681"N	80°51'38.933"W	1982.07	26.939	0.92	0.16	-0.90	
8094.00	89.970	337.170	6471.69	1496.01	1854.65	861.35	1679752.25	14273173.43	39°18'19.548"N	80°51'39.397"W	2044.91	24.911	0.35	-0.09	-0.34	
8189.00	90.060	338.540	6471.66	1590.77	1942.64	825.54	1679716.45	14273261.38	39°18'20.418"N	80°51'39.851"W	2110.78	23.023	1.45	0.09	1.44	
8284.00	89.910	339.280	6471.69	1685.63	2031.28	791.36	1679682.28	14273349.98	39°18'21.295"N	80°51'40.284"W	2179.99	21.285	0.79	-0.16	0.78	
8379.00	90.030	340.530	6471.74	1780.57	2120.50	758.72	1679649.65	14273439.16	39°18'22.177"N	80°51'40.697"W	2252.14	19.687	1.32	0.13	1.32	
8474.00	90.030	342.600	6471.69	1875.56	2210.62	728.68	1679619.63	14273529.25	39°18'23.068"N	80°51'41.078"W	2327.61	18.244	2.18	0.00	2.18	
8569.00	90.000	344.540	6471.66	1970.52	2301.73	701.81	1679592.77	14273620.33	39°18'23.969"N	80°51'41.418"W	2406.35	16.957	2.04	-0.03	2.04	
8664.00	89.940	344.380	6471.71	2065.43	2393.26	676.36	1679567.33	14273711.82	39°18'24.874"N	80°51'41.740"W	2487.00	15.781	0.18	-0.06	-0.17	
8759.00	89.690	345.590	6472.02	2160.29	2485.01	651.74	1679542.73	14273803.54	39°18'25.781"N	80°51'42.051"W	2569.06	14.696	1.30	-0.26	1.27	
8854.00	89.720	345.410	6472.51	2255.11	2576.99	627.96	1679518.95	14273895.47	39°18'26.691"N	80°51'42.352"W	2652.39	13.695	0.19	0.03	-0.19	
8949.00	89.720	341.920	6472.97	2350.05	2668.14	601.24	1679492.25	14273986.59	39°18'27.592"N	80°51'42.690"W	2735.04	12.699	3.67	0.00	-3.67	
9044.00	89.660	341.370	6473.49	2445.04	2758.30	571.33	1679462.34	14274076.71	39°18'28.484"N	80°51'43.069"W	2816.85	11.702	0.58	-0.06	-0.58	
9139.00	89.690	342.660	6474.03	2540.04	2848.66	542.00	1679433.02	14274167.03	39°18'29.377"N	80°51'43.440"W	2899.76	10.773	1.36	0.03	1.36	
9235.00	89.660	344.980	6474.57	2635.98	2940.85	515.25	1679406.28	14274259.19	39°18'30.289"N	80°51'43.779"W	2985.64	9.938	2.42	-0.03	2.42	
9330.00	89.750	344.130	6475.06	2730.88	3032.41	489.95	1679380.99	14274350.72	39°18'31.194"N	80°51'44.099"W	3071.74	9.178	0.90	0.09	-0.89	
9425.00	89.750	338.900	6475.47	2825.84	3122.48	459.84	1679350.90	14274440.75	39°18'32.085"N	80°51'44.480"W	3156.16	8.378	5.51	0.00	-5.51	
9520.00	89.630	337.160	6475.99	2920.62	3210.58	424.30	1679315.37	14274528.81	39°18'32.956"N	80°51'44.931"W	3238.49	7.528	1.84	-0.13	-1.83	
9615.00	89.600	339.200	6476.63	3015.41	3298.76	388.99	1679280.08	14274616.96	39°18'33.828"N	80°51'45.378"W	3321.62	6.725	2.15	-0.03	2.15	
9710.00	89.480	341.520	6477.39	3110.36	3388.23	357.06	1679248.16	14274706.39	39°18'34.713"N	80°51'45.783"W	3406.99	6.016	2.45	-0.13	2.44	



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWP
Facility	Long Run Pad		

WELLPATH DATA (171 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]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
9805.00	89.820	343.500	6477.97	3205.35	3478.83	328.52	1679219.63	14274796.95	39°18'35.609"N	80°51'46.144"W	3494.31	5.395	2.11	0.36	2.08	
9900.00	89.910	340.430	6478.19	3300.34	3569.15	299.11	1679190.23	14274887.24	39°18'36.502"N	80°51'46.516"W	3581.66	4.790	3.23	0.09	-3.23	
9994.00	89.600	340.380	6478.60	3394.30	3657.71	267.58	1679158.72	14274975.76	39°18'37.378"N	80°51'46.916"W	3667.48	4.184	0.33	-0.33	-0.05	
10089.00	89.690	341.410	6479.18	3489.28	3747.47	236.49	1679127.64	14275065.49	39°18'38.265"N	80°51'47.310"W	3754.92	3.611	1.09	0.09	1.08	
10184.00	89.720	343.790	6479.67	3584.27	3838.12	208.08	1679099.24	14275156.10	39°18'39.162"N	80°51'47.669"W	3843.75	3.103	2.51	0.03	2.51	
10279.00	89.910	345.360	6479.98	3679.16	3929.69	182.82	1679073.99	14275247.63	39°18'40.067"N	80°51'47.989"W	3933.94	2.664	1.66	0.20	1.65	
10374.00	89.910	347.480	6480.13	3773.87	4022.03	160.51	1679051.69	14275339.94	39°18'40.980"N	80°51'48.271"W	4025.23	2.285	2.23	0.00	2.23	
10469.00	90.800	348.200	6479.54	3868.36	4114.89	140.50	1679031.69	14275432.76	39°18'41.898"N	80°51'48.524"W	4117.29	1.956	1.21	0.94	0.76	
10563.00	90.310	344.110	6478.63	3962.08	4206.14	118.01	1679009.21	14275523.97	39°18'42.800"N	80°51'48.808"W	4207.79	1.607	4.38	-0.52	-4.35	
10658.00	90.000	340.070	6478.37	4057.06	4296.52	88.81	1678980.01	14275614.31	39°18'43.694"N	80°51'49.178"W	4297.43	1.184	4.27	-0.33	-4.25	
10753.00	90.060	339.340	6478.32	4151.99	4385.62	55.85	1678947.07	14275703.38	39°18'44.575"N	80°51'49.595"W	4385.97	0.730	0.77	0.06	-0.77	
10848.00	89.910	341.290	6478.35	4246.94	4475.06	23.86	1678915.09	14275792.79	39°18'45.460"N	80°51'50.001"W	4475.13	0.305	2.06	-0.16	2.05	
10943.00	89.540	342.710	6478.80	4341.94	4565.41	-5.50	1678885.74	14275883.10	39°18'46.353"N	80°51'50.373"W	4565.41	359.931	1.54	-0.39	1.49	
11037.00	90.090	343.270	6479.11	4435.92	4655.30	-33.00	1678858.26	14275972.95	39°18'47.242"N	80°51'50.721"W	4655.41	359.594	0.84	0.59	0.60	
11131.00	90.180	340.520	6478.89	4529.91	4744.63	-62.21	1678829.06	14276062.25	39°18'48.125"N	80°51'51.091"W	4745.04	359.249	2.93	0.10	-2.93	
11226.00	90.180	340.190	6478.59	4624.88	4834.10	-94.15	1678797.13	14276151.68	39°18'49.010"N	80°51'51.495"W	4835.02	358.884	0.35	0.00	-0.35	
11321.00	90.120	340.090	6478.34	4719.83	4923.45	-126.42	1678764.87	14276241.00	39°18'49.894"N	80°51'51.904"W	4925.07	358.529	0.12	-0.06	-0.11	
11415.00	90.430	341.650	6477.89	4813.81	5012.26	-157.22	1678734.08	14276329.77	39°18'50.772"N	80°51'52.294"W	5014.72	358.203	1.69	0.33	1.66	
11509.00	90.120	338.950	6477.44	4907.76	5100.75	-188.91	1678702.41	14276418.22	39°18'51.647"N	80°51'52.696"W	5104.24	357.879	2.89	-0.33	-2.87	
11604.00	90.030	339.660	6477.31	5002.66	5189.62	-222.48	1678668.85	14276507.05	39°18'52.526"N	80°51'53.121"W	5194.38	357.545	0.75	-0.09	0.75	
11698.00	90.310	340.940	6477.03	5096.62	5278.11	-254.16	1678637.18	14276595.52	39°18'53.401"N	80°51'53.523"W	5284.23	357.243	1.39	0.30	1.36	
11793.00	90.460	341.760	6476.39	5191.61	5368.12	-284.54	1678606.81	14276685.49	39°18'54.291"N	80°51'53.908"W	5375.66	356.966	0.88	0.16	0.86	
11888.00	90.120	341.470	6475.91	5286.61	5458.27	-314.51	1678576.86	14276775.60	39°18'55.182"N	80°51'54.287"W	5467.32	356.702	0.47	-0.36	-0.31	
11983.00	89.880	342.310	6475.91	5381.61	5548.56	-344.04	1678547.34	14276865.86	39°18'56.075"N	80°51'54.661"W	5559.22	356.452	0.92	-0.25	0.88	
12077.00	89.820	342.980	6476.16	5475.60	5638.28	-372.07	1678519.32	14276955.54	39°18'56.962"N	80°51'55.016"W	5650.55	356.224	0.72	-0.06	0.71	
12172.00	89.480	342.200	6476.74	5570.59	5728.93	-400.50	1678490.90	14277046.15	39°18'57.859"N	80°51'55.376"W	5742.91	356.001	0.90	-0.36	-0.82	
12266.00	90.060	343.450	6477.12	5664.58	5818.73	-428.25	1678463.16	14277135.92	39°18'58.747"N	80°51'55.727"W	5834.47	355.791	1.47	0.62	1.33	
12359.00	90.060	344.400	6477.02	5757.52	5908.10	-454.01	1678437.42	14277225.25	39°18'59.630"N	80°51'56.053"W	5925.51	355.606	1.02	0.00	1.02	
12454.00	90.120	344.910	6476.87	5852.41	5999.71	-479.15	1678412.29	14277316.82	39°19'00.536"N	80°51'56.372"W	6018.81	355.434	0.54	0.06	0.54	
12549.00	90.150	346.250	6476.65	5947.22	6091.71	-502.80	1678388.64	14277408.79	39°19'01.446"N	80°51'56.671"W	6112.43	355.282	1.41	0.03	1.41	



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWP
Facility	Long Run Pad		

WELLPATH DATA (171 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
12644.00	90.120	344.280	6476.42	6042.05	6183.58	-526.96	1678364.49	14277500.63	39°19'02.354"N	80°51'56.977"W	6206.00	355.129	2.07	-0.03	-2.07	
12739.00	90.120	338.740	6476.22	6137.01	6273.64	-557.08	1678334.38	14277590.65	39°19'03.245"N	80°51'57.358"W	6298.33	354.926	5.83	0.00	-5.83	
12833.00	90.090	339.460	6476.05	6230.90	6361.46	-590.61	1678300.86	14277678.43	39°19'04.113"N	80°51'57.783"W	6388.82	354.696	0.77	-0.03	0.77	
12928.00	89.970	339.630	6476.00	6325.81	6450.47	-623.81	1678267.68	14277767.40	39°19'04.994"N	80°51'58.204"W	6480.56	354.476	0.22	-0.13	0.18	
13023.00	90.150	340.050	6475.90	6420.75	6539.65	-656.55	1678234.95	14277856.55	39°19'05.875"N	80°51'58.619"W	6572.52	354.267	0.48	0.19	0.44	
13118.00	90.280	342.120	6475.55	6515.74	6629.51	-687.35	1678204.17	14277946.38	39°19'06.764"N	80°51'59.009"W	6665.05	354.081	2.18	0.14	2.18	
13213.00	90.430	342.920	6474.96	6610.73	6720.12	-715.88	1678175.65	14278036.95	39°19'07.660"N	80°51'59.370"W	6758.15	353.919	0.86	0.16	0.84	
13308.00	90.340	341.640	6474.32	6705.72	6810.61	-744.80	1678146.74	14278127.40	39°19'08.555"N	80°51'59.736"W	6851.22	353.759	1.35	-0.09	-1.35	
13403.00	90.340	339.910	6473.76	6800.70	6900.31	-776.08	1678115.48	14278217.06	39°19'09.442"N	80°52'00.133"W	6943.82	353.583	1.82	0.00	-1.82	
13498.00	90.430	340.760	6473.12	6895.66	6989.77	-808.04	1678083.52	14278306.48	39°19'10.326"N	80°52'00.538"W	7036.32	353.406	0.90	0.09	0.89	
13593.00	90.430	342.540	6472.40	6990.65	7079.93	-837.95	1678053.63	14278396.61	39°19'11.218"N	80°52'00.917"W	7129.34	353.250	1.87	0.00	1.87	
13688.00	90.370	342.450	6471.74	7085.64	7170.53	-866.53	1678025.06	14278487.17	39°19'12.114"N	80°52'01.278"W	7222.70	353.109	0.11	-0.06	-0.09	
13784.00	90.520	341.890	6471.00	7181.64	7261.91	-895.92	1677995.68	14278578.52	39°19'13.018"N	80°52'01.651"W	7316.97	352.967	0.60	0.16	-0.58	
13879.00	90.490	341.230	6470.16	7276.63	7352.03	-925.97	1677965.65	14278668.61	39°19'13.909"N	80°52'02.031"W	7410.11	352.822	0.70	-0.03	-0.69	
13974.00	90.400	340.770	6469.42	7371.62	7441.85	-956.89	1677934.73	14278758.39	39°19'14.797"N	80°52'02.423"W	7503.12	352.673	0.49	-0.09	-0.48	
14069.00	90.370	340.070	6468.78	7466.58	7531.36	-988.73	1677902.91	14278847.86	39°19'15.682"N	80°52'02.827"W	7595.98	352.521	0.74	-0.03	-0.74	
14164.00	90.460	339.260	6468.09	7561.50	7620.43	-1021.74	1677869.91	14278936.90	39°19'16.563"N	80°52'03.245"W	7688.63	352.363	0.86	0.09	-0.85	
14259.00	90.400	338.660	6467.38	7656.37	7709.10	-1055.85	1677835.82	14279025.53	39°19'17.440"N	80°52'03.677"W	7781.07	352.201	0.63	-0.06	-0.63	
14354.00	90.460	340.320	6466.67	7751.28	7798.07	-1089.13	1677802.55	14279114.46	39°19'18.320"N	80°52'04.099"W	7873.76	352.049	1.75	0.06	1.75	
14449.00	90.430	344.690	6465.93	7846.25	7888.65	-1117.68	1677774.01	14279205.01	39°19'19.215"N	80°52'04.461"W	7967.43	351.936	4.60	-0.03	4.60	
14476.00	90.430	344.690	6465.73	7873.22	7914.69	-1124.81	1677766.88	14279231.04	39°19'19.473"N	80°52'04.551"W	7994.22	351.911	0.00	0.00	0.00	Projected MD at TD: 14476'



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWB
Facility	Long Run Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Mossor Unit 1H AWB Ref Wellpath: Mossor Unit 1H AWP Proj: 14476'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	24.50	64.50	40.00	24.50	64.50	0.00	0.00	0.00	0.02
17.5in Open Hole	64.50	531.50	467.00	64.50	531.49	0.00	0.02	1.36	1.88
13.375in Casing Surface	24.50	529.00	504.50	24.50	528.99	0.00	0.00	1.36	1.88
12.25in Open Hole	531.50	2581.50	2050.00	531.49	2544.65	1.36	1.88	46.61	324.97
9.625in Casing Intermediate	24.50	2578.20	2553.70	24.50	2541.44	0.00	0.00	46.47	324.21
8.75in Open Hole	2581.50	5647.50	3066.00	2544.65	5510.78	46.61	324.97	144.85	1092.44
8.5in Open Hole	5647.50	14476.00	8828.50	5510.78	6465.73	144.85	1092.44	7914.69	-1124.81

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mossor Unit 1H POE-Rev-1	6441.00	621.29	1215.19	1680105.95	14271940.56	39°18'07.352"N	80°51'34.920"W	point
Mossor Unit 1H BHL-Rev-1	6465.00	7930.81	-1116.20	1677775.49	14279247.15	39°19'19.632"N	80°52'04.441"W	point
Mossor Unit 1H LP-Rev-1	6465.00	792.31	1188.11	1680078.88	14272111.51	39°18'09.043"N	80°51'35.261"W	point

WELLPATH COMPOSITION - Ref Wellbore: Mossor Unit 1H AWB Ref Wellpath: Mossor Unit 1H AWP Proj: 14476'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	5471.50	Gyrodata standard - Drop gyro or Multi-shot	05_Gyrodata MS Gyro <8-3/4"> (100'-5460')	Mossor Unit 1H AWB
5471.50	14449.00	BHI AutoTrak Curve (Short)	06_BHI AT Curve <8-1/2"> (5471.50')(5628'-14449')	Mossor Unit 1H AWB
14449.00	14476.00	Blind Drilling (std)	Projection to bit	Mossor Unit 1H AWB



Actual Wellpath Report

Mossor Unit 1H AWP Proj: 14476'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Mossor Unit 1H
Field	Doddridge	Wellbore	Mossor Unit 1H AWB
Facility	Long Run Pad		

COMMENTS
<p>Wellpath general comments API: 47-017-06777-0000 BHI Job #: 8510924 Rig: Frontier 22 Duration: 04/16/2017-04/18/2017 Gyrodatta MS Gyro <8-3/4">(100'-5460') BHI AT Curve <8-1/2"> (5471.50')(5628'-14449') Middlesex: 6466' MD Burket: 6673' MD Tully: 6745' MD Hamilton: 6824' MD Marcellus POE: 6852' MD Projected MD at TD: 14476'</p>