



# ANTERO RESOURCES CORPORATION

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

Slot: Slot #05  
Well: Mossor Unit 2H  
Wellbore: Mossor Unit 2H PWB



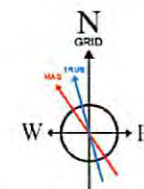
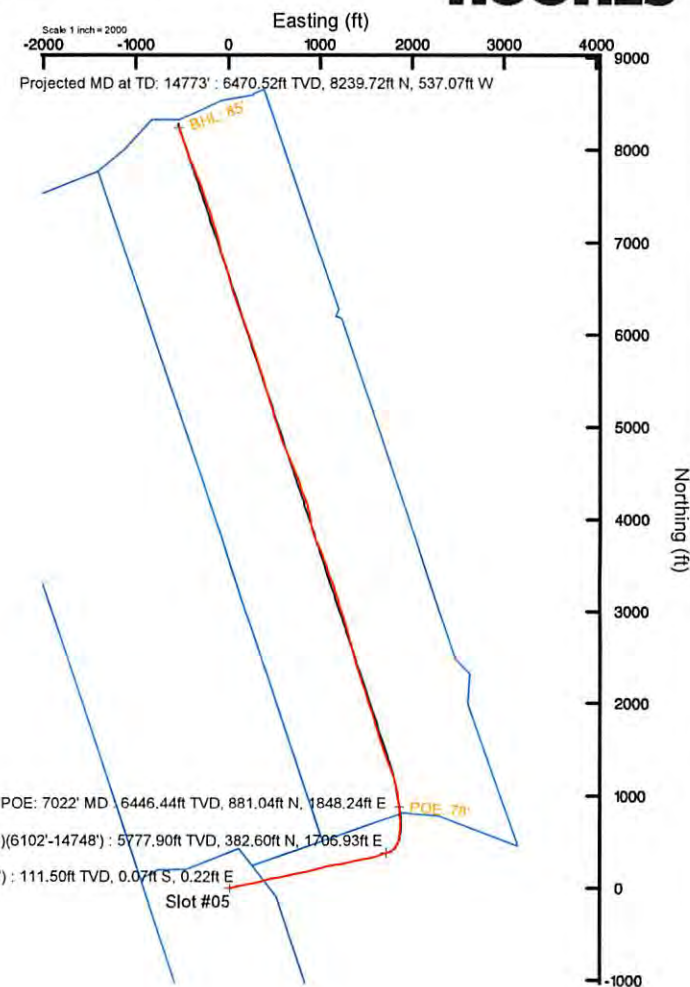
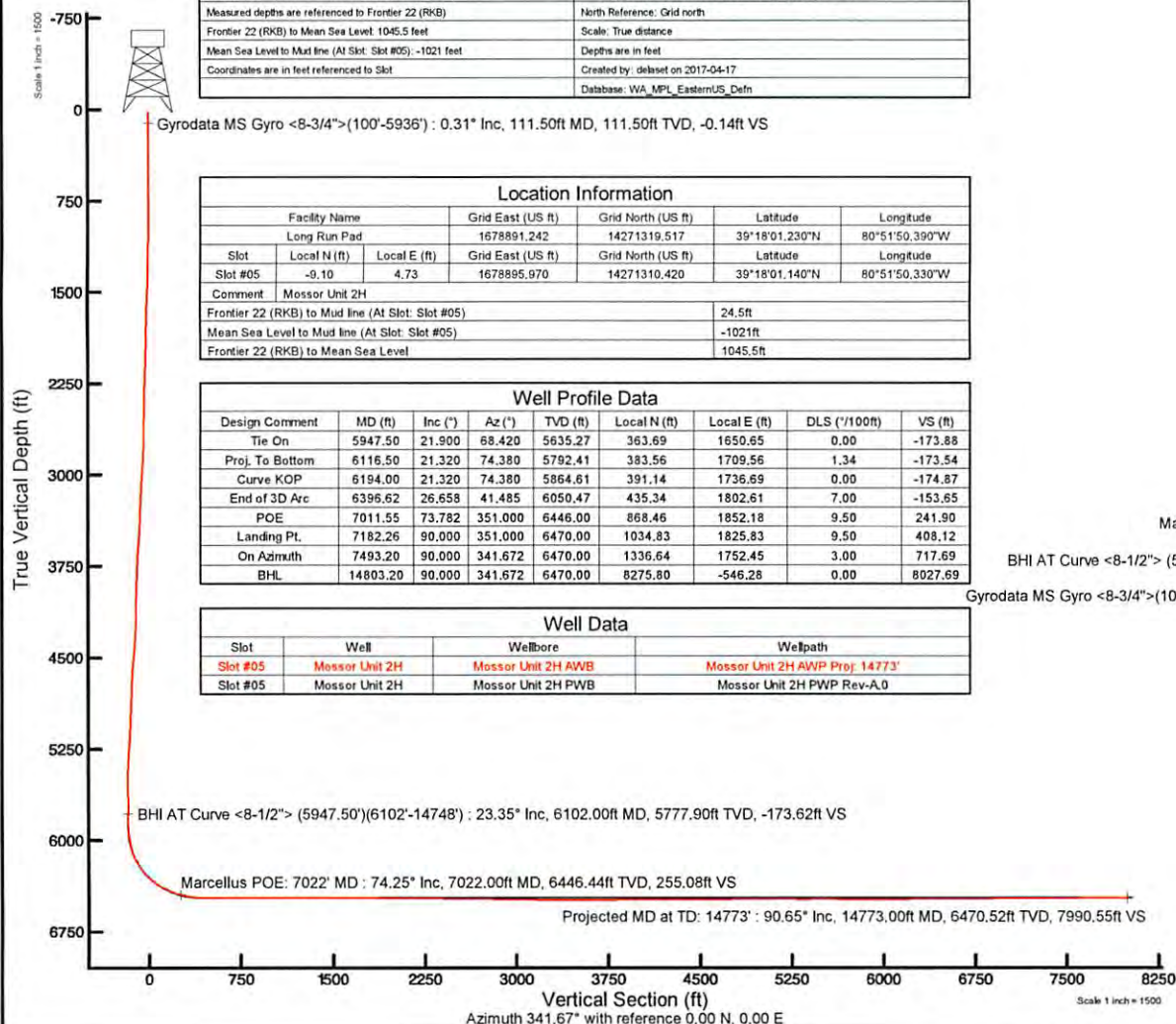
API: 47-017-06778-0000  
BHI Job #: 8499234  
Rig: Frontier 22  
Duration: 04/11/2017-04/13/2017

Plot reference wellpath is Mossor Unit 2H 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 #05): -1021 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: delaset on 2017-04-17
	Database: WA_MPL_EasternUS_Defn

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 #05	-0.10	4.73	1678895.970	14271310.420
Comment	Mossor Unit 2H			
Frontier 22 (RKB) to Mud line (At Slot: Slot #05)			24.5ft	
Mean Sea Level to Mud line (At Slot: Slot #05)			-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	5947.50	21.900	68.420	5635.27	363.69	1650.65	0.00	-173.88
Proj. To Bottom	6116.50	21.320	74.380	5792.41	383.56	1709.56	1.34	-173.54
Curve KOP	6194.00	21.320	74.380	5864.61	391.14	1736.69	0.00	-174.87
End of 3D Arc	6396.62	26.658	41.485	6050.47	435.34	1802.61	7.00	-153.65
POE	7011.55	73.782	351.000	6446.00	868.46	1852.18	9.50	241.90
Landing Pt.	7182.26	90.000	351.000	6470.00	1034.83	1825.83	9.50	408.12
On Azimuth	7493.20	90.000	341.672	6470.00	1336.64	1752.45	3.00	717.69
BHL	14803.20	90.000	341.672	6470.00	8275.80	-546.28	0.00	8027.69

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #05	Mossor Unit 2H	Mossor Unit 2H AWP	Mossor Unit 2H AWP Proj: 14773'
Slot #05	Mossor Unit 2H	Mossor Unit 2H PWB	Mossor Unit 2H PWP Rev-A.0



User specified (HDGM) Dip: 66.59° Field: 52061 nT  
Magnetic North is 7.65 degrees West of True North (at 10/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 2H AWP Proj: 14773'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor 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	17/Apr/2017 at 14:14
Convergence at slot	0.09° East	Database/Source file	WA_MPL_EasternUS_Defn/Mossor_Unit_2H_AWP_Proj_14773_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-9.10	4.73	1678895.97	14271310.42	39°18'01.140"N	80°51'50.330"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 #05)	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	341.67°





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor Unit 2H AWB
Facility	Long Run Pad		

## WELLPATH DATA (173 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	107.580	0.00	0.00	0.00	0.00	1678895.97	14271310.42	39°18'01.140"N	80°51'50.330"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	107.580	24.50	0.00	0.00	0.00	1678895.97	14271310.42	39°18'01.140"N	80°51'50.330"W	0.00	0.000	0.00	0.00	0.00	
111.50	0.310	107.580	111.50	-0.14	-0.07	0.22	1678896.19	14271310.35	39°18'01.139"N	80°51'50.327"W	0.24	107.580	0.36	0.36	123.66	Gyrodata MS Gyro <8-3/4">(100'-5936')
211.50	0.410	85.660	211.50	-0.38	-0.13	0.84	1678896.81	14271310.29	39°18'01.139"N	80°51'50.319"W	0.85	98.522	0.17	0.10	-21.92	
311.50	0.490	106.480	311.49	-0.71	-0.22	1.61	1678897.58	14271310.20	39°18'01.138"N	80°51'50.310"W	1.62	97.799	0.18	0.08	20.82	
411.50	0.500	111.230	411.49	-1.24	-0.50	2.42	1678898.39	14271309.92	39°18'01.135"N	80°51'50.299"W	2.47	101.645	0.04	0.01	4.75	
511.50	0.060	68.840	511.49	-1.51	-0.64	2.88	1678898.85	14271309.78	39°18'01.134"N	80°51'50.293"W	2.95	102.505	0.46	-0.44	-42.39	
611.50	0.420	307.330	611.49	-1.21	-0.40	2.64	1678898.60	14271310.02	39°18'01.136"N	80°51'50.296"W	2.67	98.570	0.45	0.36	-121.51	
711.50	0.680	31.410	711.49	-0.52	0.33	2.65	1678898.62	14271310.75	39°18'01.143"N	80°51'50.296"W	2.67	82.878	0.76	0.26	84.08	
811.50	3.340	70.900	811.42	-0.10	1.79	5.72	1678901.68	14271312.21	39°18'01.158"N	80°51'50.257"W	5.99	72.598	2.85	2.66	39.49	
911.50	6.400	79.610	911.05	-0.83	3.75	13.95	1678909.92	14271314.17	39°18'01.177"N	80°51'50.152"W	14.45	74.955	3.14	3.06	8.71	
1011.50	7.850	80.160	1010.27	-2.61	5.92	26.16	1678922.12	14271316.34	39°18'01.198"N	80°51'49.997"W	26.83	77.245	1.45	1.45	0.55	
1111.50	8.740	75.330	1109.22	-4.10	9.01	40.24	1678936.20	14271319.43	39°18'01.228"N	80°51'49.818"W	41.24	77.375	1.13	0.89	-4.83	
1211.50	9.070	73.830	1208.02	-4.88	13.13	55.16	1678951.11	14271323.55	39°18'01.269"N	80°51'49.628"W	56.70	76.608	0.40	0.33	-1.50	
1311.50	9.640	74.190	1306.69	-5.55	17.61	70.79	1678966.73	14271328.02	39°18'01.313"N	80°51'49.429"W	72.95	76.031	0.57	0.57	0.36	
1411.50	11.180	79.180	1405.04	-7.18	21.71	88.37	1678984.30	14271332.12	39°18'01.353"N	80°51'49.205"W	91.00	76.197	1.78	1.54	4.99	
1511.50	13.230	80.460	1502.78	-10.20	25.43	109.18	1679005.10	14271335.84	39°18'01.390"N	80°51'48.941"W	112.10	76.890	2.07	2.05	1.28	
1611.50	14.310	80.030	1599.90	-13.74	29.46	132.64	1679028.55	14271339.87	39°18'01.429"N	80°51'48.642"W	135.87	77.476	1.08	1.08	-0.43	
1711.50	14.640	77.870	1696.73	-16.91	34.26	157.16	1679053.07	14271344.67	39°18'01.476"N	80°51'48.330"W	160.85	77.703	0.63	0.33	-2.16	
1811.50	15.350	76.590	1793.32	-19.41	39.98	182.39	1679078.29	14271350.39	39°18'01.532"N	80°51'48.009"W	186.72	77.635	0.78	0.71	-1.28	
1911.50	14.580	75.780	1889.93	-21.44	46.15	207.47	1679103.36	14271356.55	39°18'01.593"N	80°51'47.690"W	212.54	77.460	0.80	-0.77	-0.81	
2011.50	15.030	79.710	1986.61	-24.16	51.55	232.43	1679128.31	14271361.95	39°18'01.646"N	80°51'47.372"W	238.08	77.494	1.10	0.45	3.93	
2111.50	14.550	79.690	2083.30	-27.72	56.12	257.55	1679153.41	14271366.52	39°18'01.691"N	80°51'47.053"W	263.59	77.708	0.48	-0.48	-0.02	
2211.50	13.080	78.820	2180.40	-30.89	60.56	281.01	1679176.86	14271370.96	39°18'01.734"N	80°51'46.754"W	287.46	77.838	1.48	-1.47	-0.87	
2311.50	14.400	80.350	2277.54	-34.17	64.84	304.37	1679200.21	14271375.23	39°18'01.776"N	80°51'46.457"W	311.20	77.974	1.37	1.32	1.53	
2411.50	15.830	75.390	2374.08	-36.93	70.36	329.83	1679225.66	14271380.76	39°18'01.831"N	80°51'46.133"W	337.25	77.957	1.93	1.43	-4.96	
2511.50	14.630	72.990	2470.57	-38.11	77.50	355.10	1679250.93	14271387.89	39°18'01.901"N	80°51'45.811"W	363.46	77.688	1.36	-1.20	-2.40	
2611.50	14.210	74.310	2567.42	-38.96	84.51	378.99	1679274.81	14271394.90	39°18'01.970"N	80°51'45.507"W	388.30	77.429	0.53	-0.42	1.32	
2711.50	15.220	73.700	2664.14	-39.99	91.52	403.41	1679299.22	14271401.90	39°18'02.038"N	80°51'45.197"W	413.66	77.218	1.02	1.01	-0.61	
2811.50	17.630	77.480	2760.05	-41.99	98.48	430.80	1679326.59	14271408.87	39°18'02.107"N	80°51'44.848"W	441.91	77.123	2.64	2.41	3.78	





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor Unit 2H AWB
Facility	Long Run Pad		

## WELLPATH DATA (173 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
2911.50	20.900	79.670	2854.44	-46.01	104.97	463.14	1679358.92	14271415.35	39°18'02.171"N	80°51'44.437"W	474.88	77.230	3.35	3.27	2.19	
3011.50	23.390	80.510	2947.06	-51.54	111.44	500.27	1679396.04	14271421.82	39°18'02.234"N	80°51'43.964"W	512.53	77.442	2.51	2.49	0.84	
3111.50	24.140	80.440	3038.58	-57.71	118.11	540.01	1679435.76	14271428.48	39°18'02.299"N	80°51'43.459"W	552.78	77.663	0.75	0.75	-0.07	
3211.50	24.180	78.020	3129.82	-63.09	125.76	580.21	1679475.95	14271436.13	39°18'02.374"N	80°51'42.947"W	593.68	77.771	0.99	0.04	-2.42	
3311.50	23.670	76.840	3221.23	-67.17	134.58	619.79	1679515.51	14271444.94	39°18'02.461"N	80°51'42.443"W	634.23	77.749	0.70	-0.51	-1.18	
3411.50	22.630	75.980	3313.18	-70.42	143.81	658.00	1679553.71	14271454.17	39°18'02.551"N	80°51'41.957"W	673.54	77.672	1.09	-1.04	-0.86	
3511.50	22.400	77.530	3405.55	-73.81	152.58	695.28	1679590.97	14271462.94	39°18'02.638"N	80°51'41.483"W	711.82	77.622	0.64	-0.23	1.55	
3611.50	22.610	79.500	3497.94	-78.38	160.20	732.78	1679628.46	14271470.56	39°18'02.712"N	80°51'41.006"W	750.09	77.668	0.78	0.21	1.97	
3711.50	23.640	81.510	3589.90	-84.42	166.66	771.51	1679667.17	14271477.02	39°18'02.776"N	80°51'40.513"W	789.31	77.810	1.30	1.03	2.01	
3811.50	24.940	80.080	3681.05	-90.93	173.26	812.11	1679707.76	14271483.61	39°18'02.840"N	80°51'39.996"W	830.39	77.957	1.43	1.30	-1.43	
3911.50	24.370	75.890	3771.94	-95.54	181.92	852.89	1679748.52	14271492.27	39°18'02.925"N	80°51'39.477"W	872.08	77.959	1.84	-0.57	-4.19	
4011.50	24.540	75.810	3862.97	-98.55	192.04	893.04	1679788.65	14271502.38	39°18'03.025"N	80°51'38.966"W	913.45	77.864	0.17	0.17	-0.08	
4111.50	24.780	76.370	3953.85	-101.77	202.07	933.53	1679829.13	14271512.41	39°18'03.123"N	80°51'38.451"W	955.15	77.786	0.33	0.24	0.56	
4211.50	24.560	74.290	4044.72	-104.44	212.64	973.91	1679869.49	14271522.97	39°18'03.227"N	80°51'37.937"W	996.85	77.684	0.90	-0.22	-2.08	
4311.50	23.170	72.800	4136.17	-105.78	224.08	1012.71	1679908.27	14271534.41	39°18'03.339"N	80°51'37.444"W	1037.20	77.523	1.51	-1.39	-1.49	
4411.50	22.600	75.260	4228.30	-107.37	234.79	1050.09	1679945.64	14271545.11	39°18'03.445"N	80°51'36.968"W	1076.01	77.397	1.11	-0.57	2.46	
4511.50	22.360	79.120	4320.71	-111.04	243.27	1087.35	1679982.89	14271553.59	39°18'03.528"N	80°51'36.494"W	1114.23	77.389	1.50	-0.24	3.86	
4611.50	23.210	81.370	4412.91	-116.82	249.81	1125.51	1680021.03	14271560.13	39°18'03.592"N	80°51'36.008"W	1152.90	77.486	1.22	0.85	2.25	
4711.50	24.700	84.340	4504.29	-124.73	254.83	1165.79	1680061.29	14271565.15	39°18'03.641"N	80°51'35.496"W	1193.32	77.670	1.92	1.49	2.97	
4811.50	26.460	81.140	4594.49	-132.98	260.32	1208.60	1680104.09	14271570.64	39°18'03.695"N	80°51'34.951"W	1236.32	77.845	2.24	1.76	-3.20	
4911.50	25.150	76.280	4684.53	-138.35	268.80	1251.26	1680146.73	14271579.11	39°18'03.778"N	80°51'34.408"W	1279.81	77.876	2.49	-1.31	-4.86	
5011.50	23.880	75.940	4775.51	-141.57	278.75	1291.54	1680187.00	14271589.06	39°18'03.876"N	80°51'33.896"W	1321.28	77.821	1.28	-1.27	-0.34	
5111.50	23.340	77.270	4867.14	-145.01	288.04	1330.50	1680225.94	14271598.34	39°18'03.967"N	80°51'33.400"W	1361.32	77.785	0.76	-0.54	1.33	
5211.50	23.710	76.500	4958.83	-148.63	297.10	1369.37	1680264.79	14271607.40	39°18'04.056"N	80°51'32.905"W	1401.23	77.759	0.48	0.37	-0.77	
5311.50	22.540	77.390	5050.80	-152.23	305.97	1407.63	1680303.03	14271616.27	39°18'04.143"N	80°51'32.418"W	1440.50	77.736	1.22	-1.17	0.89	
5411.50	22.060	79.690	5143.32	-156.77	313.52	1444.81	1680340.20	14271623.81	39°18'04.217"N	80°51'31.945"W	1478.43	77.757	1.00	-0.48	2.30	
5511.50	21.710	80.740	5236.11	-162.30	319.86	1481.54	1680376.92	14271630.15	39°18'04.279"N	80°51'31.478"W	1515.67	77.817	0.53	-0.35	1.05	
5611.50	23.500	80.430	5328.43	-168.25	326.15	1519.46	1680414.82	14271636.44	39°18'04.341"N	80°51'30.995"W	1554.07	77.885	1.79	1.79	-0.31	
5711.50	24.960	78.130	5419.62	-173.66	333.80	1559.77	1680455.11	14271644.09	39°18'04.416"N	80°51'30.482"W	1595.09	77.920	1.74	1.46	-2.30	
5811.50	24.480	71.080	5510.47	-175.83	344.86	1600.02	1680495.35	14271655.15	39°18'04.524"N	80°51'29.970"W	1636.77	77.837	2.99	-0.48	-7.05	





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'  
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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
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Field	Doddridge	Wellbore	Mossor Unit 2H AWB
Facility	Long Run Pad		

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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
5911.50	23.020	68.750	5602.00	-174.62	358.67	1637.85	1680533.16	14271668.95	39°18'04.660"N	80°51'29.489"W	1676.66	77.648	1.74	-1.46	-2.33	
5947.50	21.900	68.420	5635.27	-173.88	363.69	1650.65	1680545.96	14271673.96	39°18'04.710"N	80°51'29.326"W	1690.25	77.574	3.13	-3.11	-0.92	
6102.00	23.350	74.250	5777.90	-173.62	382.60	1706.93	1680602.21	14271692.87	39°18'04.896"N	80°51'28.610"W	1749.28	77.366	1.73	0.94	3.77	BHI AT Curve <8-1/2"> (5947.50')(6102'-14748')
6149.00	21.680	73.660	5821.31	-174.34	387.57	1724.22	1680619.50	14271697.84	39°18'04.944"N	80°51'28.389"W	1767.25	77.332	3.59	-3.55	-1.26	
6197.00	21.680	69.640	5865.92	-174.34	393.15	1741.04	1680636.32	14271703.42	39°18'04.999"N	80°51'28.175"W	1784.88	77.275	3.09	0.00	-8.38	
6244.00	21.830	60.740	5909.58	-172.37	400.45	1756.81	1680652.08	14271710.71	39°18'05.071"N	80°51'27.975"W	1801.87	77.159	7.02	0.32	-18.94	
6291.00	21.420	52.890	5953.28	-167.95	409.90	1771.28	1680666.54	14271720.15	39°18'05.164"N	80°51'27.790"W	1818.09	76.970	6.21	-0.87	-16.70	
6338.00	22.070	48.820	5996.94	-161.76	420.89	1784.77	1680680.03	14271731.14	39°18'05.273"N	80°51'27.619"W	1833.73	76.731	3.49	1.38	-8.66	
6385.00	24.700	44.080	6040.08	-153.78	433.76	1798.25	1680693.50	14271744.01	39°18'05.400"N	80°51'27.447"W	1849.83	76.439	6.88	5.60	-10.09	
6432.00	27.060	37.040	6082.38	-143.15	449.36	1811.53	1680706.77	14271759.60	39°18'05.554"N	80°51'27.278"W	1866.43	76.069	8.24	5.02	-14.98	
6480.00	30.320	28.120	6124.50	-128.59	468.77	1823.83	1680719.07	14271779.00	39°18'05.745"N	80°51'27.121"W	1883.10	75.586	11.20	6.79	-18.58	
6527.00	33.240	21.000	6164.46	-110.44	491.27	1834.04	1680729.27	14271801.50	39°18'05.968"N	80°51'26.990"W	1898.70	75.005	10.10	6.21	-15.15	
6574.00	36.750	15.010	6202.97	-88.72	516.89	1842.30	1680737.53	14271827.11	39°18'06.221"N	80°51'26.885"W	1913.44	74.327	10.44	7.47	-12.74	
6621.00	40.110	11.030	6239.79	-63.76	545.35	1848.84	1680744.07	14271855.55	39°18'06.502"N	80°51'26.801"W	1927.60	73.566	8.87	7.15	-8.47	
6652.00†	43.024	8.477	6262.98	-45.62	565.62	1852.31	1680747.54	14271875.81	39°18'06.702"N	80°51'26.756"W	1936.75	73.020	10.87	9.40	-8.24	Middlesex: 6652' MD
6670.00	44.740	7.120	6275.95	-34.41	577.98	1854.00	1680749.23	14271888.17	39°18'06.824"N	80°51'26.735"W	1942.01	72.685	10.87	9.53	-7.54	
6717.00	49.130	3.570	6308.04	-2.97	612.15	1857.16	1680752.39	14271922.32	39°18'07.162"N	80°51'26.694"W	1955.45	71.757	10.85	9.34	-7.55	
6764.00	54.230	0.890	6337.18	31.55	648.98	1858.57	1680753.79	14271959.14	39°18'07.526"N	80°51'26.675"W	1968.61	70.752	11.74	10.85	-5.70	
6811.00	58.540	359.510	6363.19	68.66	688.11	1858.69	1680753.92	14271998.25	39°18'07.913"N	80°51'26.673"W	1981.98	69.685	9.49	9.17	-2.94	
6856.00†	63.030	358.401	6385.15	106.15	727.37	1857.97	1680753.19	14272037.50	39°18'08.301"N	80°51'26.681"W	1995.27	68.620	10.21	9.98	-2.47	Burket: 6856' MD
6859.00	63.330	358.330	6386.51	108.71	730.04	1857.89	1680753.12	14272040.17	39°18'08.327"N	80°51'26.682"W	1996.18	68.548	10.21	9.99	-2.36	
6906.00	66.060	357.080	6406.59	149.55	772.49	1856.18	1680751.41	14272082.60	39°18'08.747"N	80°51'26.703"W	2010.51	67.404	6.29	5.81	-2.66	
6923.00†	67.139	356.688	6413.35	164.60	788.07	1855.34	1680750.56	14272098.18	39°18'08.901"N	80°51'26.714"W	2015.77	66.986	6.69	6.35	-2.30	Tully: 6923' MD
6954.00	69.110	355.990	6424.90	192.43	816.78	1853.50	1680748.73	14272126.87	39°18'09.185"N	80°51'26.736"W	2025.48	66.218	6.69	6.36	-2.25	
6995.00†	71.927	355.220	6438.57	229.94	855.31	1850.53	1680745.76	14272165.39	39°18'09.565"N	80°51'26.773"W	2038.64	65.194	7.10	6.87	-1.88	Hamilton: 6995' MD
7001.00	72.340	355.110	6440.41	235.50	861.00	1850.05	1680745.28	14272171.08	39°18'09.622"N	80°51'26.779"W	2040.59	65.043	7.10	6.88	-1.84	
7022.00†	74.251	354.531	6446.44	255.08	881.04	1848.24	1680743.47	14272191.10	39°18'09.820"N	80°51'26.802"W	2047.49	64.513	9.48	9.10	-2.75	Marcellus POE: 7022' MD
7048.00	76.620	353.830	6452.98	279.65	906.07	1845.68	1680740.92	14272216.13	39°18'10.067"N	80°51'26.834"W	2056.09	63.853	9.48	9.11	-2.70	
7095.00	81.160	353.000	6462.04	324.79	951.87	1840.39	1680735.63	14272261.91	39°18'10.520"N	80°51'26.900"W	2071.98	62.652	9.81	9.66	-1.77	
7142.00	85.130	352.790	6467.65	370.55	998.17	1834.62	1680729.86	14272308.19	39°18'10.978"N	80°51'26.973"W	2088.58	61.451	8.46	8.45	-0.45	





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor Unit 2H AWP
Facility	Long Run Pad		

## WELLPATH DATA (173 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
7189.00	89.850	351.780	6469.70	416.69	1044.68	1828.32	1680723.56	14272354.68	39°18'11.437"N	80°51'27.052"W	2105.74	60.257	10.27	10.04	-2.15	
7236.00	90.000	348.770	6469.76	463.15	1091.00	1820.38	1680715.62	14272400.99	39°18'11.895"N	80°51'27.152"W	2122.28	59.065	6.41	0.32	-6.40	
7331.00	89.970	342.410	6469.79	557.88	1182.97	1796.75	1680692.00	14272492.91	39°18'12.805"N	80°51'27.451"W	2151.22	56.639	6.69	-0.03	-6.69	
7426.00	89.940	338.030	6469.86	652.83	1272.34	1764.61	1680659.88	14272582.25	39°18'13.689"N	80°51'27.858"W	2175.48	54.207	4.61	-0.03	-4.61	
7521.00	89.780	338.860	6470.10	747.68	1360.69	1729.71	1680624.99	14272670.57	39°18'14.562"N	80°51'28.300"W	2200.77	51.809	0.89	-0.17	0.87	
7615.00	89.820	340.230	6470.42	841.61	1448.76	1696.86	1680592.15	14272758.60	39°18'15.433"N	80°51'28.716"W	2231.20	49.510	1.46	0.04	1.46	
7710.00	89.850	341.190	6470.70	936.60	1538.43	1665.48	1680560.78	14272848.23	39°18'16.320"N	80°51'29.114"W	2267.29	47.271	1.01	0.03	1.01	
7805.00	89.970	341.910	6470.85	1031.59	1628.55	1635.41	1680530.73	14272938.31	39°18'17.211"N	80°51'29.494"W	2307.97	45.121	0.77	0.13	0.76	
7899.00	89.850	343.660	6471.00	1125.57	1718.33	1607.59	1680502.92	14273028.06	39°18'18.099"N	80°51'29.846"W	2353.09	43.093	1.87	-0.13	1.86	
7994.00	89.910	342.950	6471.19	1220.53	1809.33	1580.30	1680475.64	14273119.02	39°18'18.999"N	80°51'30.192"W	2402.29	41.135	0.75	0.06	-0.75	
8090.00	89.970	342.150	6471.29	1316.52	1900.91	1551.52	1680446.86	14273210.57	39°18'19.904"N	80°51'30.556"W	2453.70	39.221	0.84	0.06	-0.83	
8185.00	89.820	342.240	6471.47	1411.52	1991.36	1522.47	1680417.83	14273300.98	39°18'20.799"N	80°51'30.924"W	2506.67	37.399	0.18	-0.16	0.09	
8279.00	89.880	341.070	6471.71	1505.52	2080.58	1492.88	1680388.25	14273390.16	39°18'21.681"N	80°51'31.299"W	2560.76	35.661	1.25	0.06	-1.24	
8374.00	89.820	341.520	6471.96	1600.51	2170.56	1462.42	1680357.80	14273480.11	39°18'22.571"N	80°51'31.684"W	2617.25	33.970	0.48	-0.06	0.47	
8469.00	89.850	342.260	6472.24	1695.51	2260.85	1432.89	1680328.28	14273570.37	39°18'23.464"N	80°51'32.058"W	2676.68	32.366	0.78	0.03	0.78	
8565.00	89.850	342.860	6472.49	1791.50	2352.44	1404.12	1680299.52	14273661.92	39°18'24.369"N	80°51'32.422"W	2739.62	30.832	0.62	0.00	0.63	
8660.00	89.050	343.760	6473.40	1886.45	2443.43	1376.83	1680272.25	14273752.87	39°18'25.269"N	80°51'32.768"W	2804.64	29.401	1.27	-0.84	0.95	
8755.00	89.540	345.900	6474.57	1981.30	2535.11	1351.98	1680247.41	14273844.51	39°18'26.176"N	80°51'33.082"W	2873.08	28.071	2.31	0.52	2.25	
8850.00	89.600	345.610	6475.28	2076.05	2627.18	1328.60	1680224.04	14273936.55	39°18'27.086"N	80°51'33.378"W	2944.02	26.826	0.31	0.06	-0.31	
8946.00	89.630	344.320	6475.93	2171.89	2719.89	1303.70	1680199.15	14274029.22	39°18'28.003"N	80°51'33.693"W	3016.20	25.609	1.34	0.03	-1.34	
9041.00	89.570	345.150	6476.59	2266.75	2811.54	1278.69	1680174.15	14274120.83	39°18'28.909"N	80°51'34.009"W	3088.66	24.456	0.88	-0.06	0.87	
9136.00	89.260	344.100	6477.56	2361.62	2903.13	1253.50	1680148.97	14274212.39	39°18'29.815"N	80°51'34.328"W	3162.19	23.354	1.15	-0.33	-1.11	
9231.00	89.350	342.670	6478.71	2456.57	2994.16	1226.34	1680121.82	14274303.38	39°18'30.715"N	80°51'34.671"W	3235.57	22.273	1.51	0.09	-1.51	
9326.00	89.350	341.530	6479.79	2551.55	3084.55	1197.14	1680092.63	14274393.74	39°18'31.609"N	80°51'35.041"W	3308.72	21.212	1.20	0.00	-1.20	
9421.00	89.290	344.050	6480.92	2646.52	3175.28	1169.04	1680064.54	14274484.43	39°18'32.506"N	80°51'35.397"W	3383.65	20.212	2.65	-0.06	2.65	
9516.00	89.350	341.840	6482.05	2741.49	3266.09	1141.18	1680036.69	14274575.21	39°18'33.404"N	80°51'35.749"W	3459.72	19.260	2.33	0.06	-2.33	
9610.00	88.710	338.840	6483.64	2835.44	3354.59	1109.56	1680005.09	14274663.67	39°18'34.279"N	80°51'36.150"W	3533.33	18.302	3.26	-0.68	-3.19	
9704.00	89.290	341.480	6485.28	2929.38	3442.99	1077.67	1679973.21	14274752.03	39°18'35.153"N	80°51'36.554"W	3607.71	17.380	2.88	0.62	2.81	
9799.00	89.320	340.220	6486.43	3024.36	3532.72	1046.51	1679942.06	14274841.73	39°18'36.041"N	80°51'36.949"W	3684.47	16.501	1.33	0.03	-1.33	
9894.00	89.290	337.470	6487.58	3119.23	3621.31	1012.23	1679907.79	14274930.28	39°18'36.917"N	80°51'37.383"W	3760.12	15.617	2.89	-0.03	-2.89	





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor Unit 2H AWP
Facility	Long Run Pad		

## WELLPATH DATA (173 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	89.380	334.600	6488.67	3212.76	3707.19	974.05	1679869.64	14275016.13	39°18'37.766"N	80°51'37.867"W	3833.02	14.722	3.05	0.10	-3.05	
10082.00	89.750	337.010	6489.39	3306.26	3792.92	935.53	1679831.13	14275101.82	39°18'38.614"N	80°51'38.355"W	3906.60	13.856	2.59	0.39	2.56	
10177.00	90.000	345.340	6489.60	3401.17	3882.76	904.91	1679800.51	14275191.63	39°18'39.502"N	80°51'38.743"W	3986.82	13.119	8.77	0.26	8.77	
10272.00	90.370	352.780	6489.29	3495.31	3975.97	886.89	1679782.50	14275284.80	39°18'40.424"N	80°51'38.971"W	4073.68	12.575	7.84	0.39	7.83	
10367.00	90.060	348.620	6488.93	3589.12	4069.70	871.54	1679767.16	14275378.49	39°18'41.351"N	80°51'39.164"W	4161.98	12.088	4.39	-0.33	-4.38	
10462.00	90.120	341.130	6488.78	3683.90	4161.34	846.77	1679742.40	14275470.10	39°18'42.257"N	80°51'39.477"W	4246.62	11.502	7.88	0.06	-7.88	
10557.00	90.400	339.080	6488.35	3778.86	4250.67	814.44	1679710.09	14275559.39	39°18'43.140"N	80°51'39.887"W	4327.99	10.847	2.18	0.29	-2.16	
10651.00	90.370	341.510	6487.72	3872.82	4339.15	782.75	1679678.41	14275647.84	39°18'44.015"N	80°51'40.288"W	4409.19	10.226	2.59	-0.03	2.59	
10746.00	90.180	340.270	6487.26	3967.81	4428.92	751.65	1679647.32	14275737.56	39°18'44.903"N	80°51'40.682"W	4492.25	9.632	1.32	-0.20	-1.31	
10840.00	90.280	338.850	6486.89	4061.74	4516.99	718.83	1679614.51	14275825.61	39°18'45.774"N	80°51'41.098"W	4573.83	9.042	1.51	0.11	-1.51	
10935.00	90.250	335.880	6486.45	4156.46	4604.67	682.27	1679577.97	14275913.24	39°18'46.641"N	80°51'41.562"W	4654.94	8.428	3.13	-0.03	-3.13	
11030.00	90.310	335.460	6485.98	4250.94	4691.23	643.13	1679538.84	14275999.77	39°18'47.497"N	80°51'42.058"W	4735.11	7.806	0.45	0.06	-0.44	
11124.00	90.150	337.400	6485.61	4344.54	4777.38	605.55	1679501.27	14276085.89	39°18'48.349"N	80°51'42.534"W	4815.61	7.224	2.07	-0.17	2.06	
11219.00	90.370	341.220	6485.17	4439.44	4866.24	571.99	1679467.73	14276174.71	39°18'49.228"N	80°51'42.960"W	4899.74	6.704	4.03	0.23	4.02	
11314.00	90.370	342.930	6484.56	4534.44	4956.62	542.75	1679438.50	14276265.06	39°18'50.122"N	80°51'43.330"W	4986.25	6.249	1.80	0.00	1.80	
11410.00	90.460	342.250	6483.87	4630.42	5048.22	514.03	1679409.79	14276356.62	39°18'51.027"N	80°51'43.693"W	5074.32	5.814	0.71	0.09	-0.71	
11505.00	90.340	342.280	6483.20	4725.41	5138.70	485.09	1679380.87	14276447.07	39°18'51.922"N	80°51'44.060"W	5161.55	5.393	0.13	-0.13	0.03	
11599.00	90.280	342.960	6482.69	4819.40	5228.41	457.01	1679352.80	14276536.74	39°18'52.809"N	80°51'44.415"W	5248.34	4.995	0.73	-0.06	0.72	
11694.00	89.880	344.970	6482.56	4914.32	5319.71	430.77	1679326.57	14276628.00	39°18'53.712"N	80°51'44.747"W	5337.12	4.630	2.16	-0.42	2.12	
11790.00	89.880	344.420	6482.76	5010.18	5412.30	405.43	1679301.24	14276720.56	39°18'54.627"N	80°51'45.068"W	5427.47	4.284	0.57	0.00	-0.57	
11884.00	89.880	343.010	6482.96	5104.12	5502.53	379.07	1679274.89	14276810.75	39°18'55.520"N	80°51'45.402"W	5515.57	3.941	1.50	0.00	-1.50	
11979.00	90.000	341.420	6483.06	5199.11	5592.99	350.06	1679245.89	14276901.17	39°18'56.414"N	80°51'45.769"W	5603.93	3.581	1.68	0.13	-1.67	
12074.00	89.970	342.140	6483.08	5294.11	5683.22	320.35	1679216.20	14276991.37	39°18'57.306"N	80°51'46.145"W	5692.24	3.226	0.76	-0.03	0.76	
12170.00	90.030	342.470	6483.08	5390.11	5774.68	291.18	1679187.03	14277082.79	39°18'58.211"N	80°51'46.515"W	5782.02	2.887	0.35	0.06	0.34	
12264.00	90.060	342.070	6483.01	5484.10	5864.21	262.55	1679158.41	14277172.29	39°18'59.096"N	80°51'46.877"W	5870.09	2.564	0.43	0.03	-0.43	
12359.00	89.910	341.410	6483.03	5579.10	5954.43	232.78	1679128.66	14277262.47	39°18'59.988"N	80°51'47.254"W	5958.98	2.239	0.71	-0.16	-0.69	
12454.00	89.940	341.190	6483.16	5674.10	6044.42	202.32	1679098.21	14277352.42	39°19'00.878"N	80°51'47.640"W	6047.80	1.917	0.23	0.03	-0.23	
12548.00	90.000	338.100	6483.21	5768.03	6132.54	169.63	1679065.53	14277440.50	39°19'01.749"N	80°51'48.054"W	6134.88	1.584	3.29	0.06	-3.29	
12643.00	89.910	338.330	6483.28	5862.86	6220.75	134.38	1679030.29	14277528.68	39°19'02.622"N	80°51'48.501"W	6222.20	1.237	0.26	-0.09	0.24	
12738.00	89.850	338.740	6483.48	5957.71	6309.16	99.61	1678995.54	14277617.06	39°19'03.496"N	80°51'48.942"W	6309.95	0.905	0.44	-0.06	0.43	





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor Unit 2H AWB
Facility	Long Run Pad		

WELLPATH DATA (173 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
12833.00	89.910	340.320	6483.68	6052.64	6398.16	66.39	1678962.33	14277706.02	39°19'04.376"N	80°51'49.363"W	6398.50	0.595	1.66	0.06	1.66	
12928.00	90.310	343.350	6483.50	6147.63	6488.41	36.78	1678932.73	14277796.24	39°19'05.269"N	80°51'49.738"W	6488.52	0.325	3.22	0.42	3.19	
13023.00	90.370	345.460	6482.93	6242.52	6579.91	11.24	1678907.20	14277887.70	39°19'06.174"N	80°51'50.061"W	6579.92	0.098	2.22	0.06	2.22	
13118.00	90.340	344.490	6482.35	6337.36	6671.66	-13.39	1678882.59	14277979.41	39°19'07.081"N	80°51'50.373"W	6671.67	359.885	1.02	-0.03	-1.02	
13214.00	90.150	340.230	6481.93	6433.33	6763.12	-42.47	1678853.51	14278070.84	39°19'07.985"N	80°51'50.741"W	6763.26	359.640	4.44	-0.20	-4.44	
13309.00	90.340	341.920	6481.53	6528.32	6852.98	-73.28	1678822.72	14278160.66	39°19'08.874"N	80°51'51.131"W	6853.38	359.387	1.79	0.20	1.78	
13404.00	90.920	348.550	6480.48	6623.07	6944.79	-97.48	1678798.53	14278252.43	39°19'09.781"N	80°51'51.437"W	6945.47	359.196	7.01	0.61	6.98	
13499.00	90.460	347.230	6479.34	6717.50	7037.67	-117.41	1678778.61	14278345.27	39°19'10.700"N	80°51'51.689"W	7038.65	359.044	1.47	-0.48	-1.39	
13593.00	90.370	342.910	6478.66	6811.31	7128.47	-141.62	1678754.41	14278436.04	39°19'11.598"N	80°51'51.996"W	7129.88	358.862	4.60	-0.10	-4.60	
13688.00	90.400	342.870	6478.02	6906.29	7219.26	-169.57	1678726.47	14278526.79	39°19'12.495"N	80°51'52.349"W	7221.25	358.654	0.05	0.03	-0.04	
13783.00	90.280	340.960	6477.46	7001.28	7309.56	-199.06	1678696.99	14278617.06	39°19'13.388"N	80°51'52.723"W	7312.27	358.440	2.01	-0.13	-2.01	
13878.00	90.550	340.670	6476.77	7096.27	7399.28	-230.27	1678665.79	14278706.74	39°19'14.276"N	80°51'53.118"W	7402.87	358.217	0.42	0.28	-0.31	
13972.00	90.220	340.680	6476.14	7190.25	7487.99	-261.38	1678634.69	14278795.41	39°19'15.153"N	80°51'53.513"W	7492.55	358.001	0.35	-0.35	0.01	
14067.00	90.460	340.280	6475.57	7285.23	7577.52	-293.12	1678602.96	14278884.91	39°19'16.038"N	80°51'53.915"W	7583.19	357.785	0.49	0.25	-0.42	
14162.00	90.680	340.080	6474.63	7380.19	7666.89	-325.33	1678570.77	14278974.24	39°19'16.922"N	80°51'54.323"W	7673.79	357.570	0.31	0.23	-0.21	
14256.00	90.310	338.420	6473.81	7474.10	7754.79	-358.63	1678537.48	14279062.10	39°19'17.791"N	80°51'54.745"W	7763.08	357.352	1.81	-0.39	-1.77	
14351.00	90.340	337.800	6473.28	7568.92	7842.94	-394.05	1678502.08	14279150.22	39°19'18.663"N	80°51'55.194"W	7852.83	357.124	0.65	0.03	-0.65	
14445.00	90.310	338.420	6472.74	7662.74	7930.16	-429.10	1678467.05	14279237.40	39°19'19.525"N	80°51'55.638"W	7941.76	356.903	0.66	-0.03	0.66	
14539.00	90.310	338.890	6472.23	7756.60	8017.71	-463.31	1678432.85	14279324.92	39°19'20.391"N	80°51'56.072"W	8031.08	356.693	0.50	0.00	0.50	
14633.00	90.310	341.860	6471.73	7850.57	8106.24	-494.88	1678401.29	14279413.41	39°19'21.267"N	80°51'56.472"W	8121.33	356.506	3.16	0.00	3.16	
14728.00	90.550	342.590	6471.01	7945.56	8196.70	-523.88	1678372.30	14279503.84	39°19'22.161"N	80°51'56.839"W	8213.42	356.343	0.81	0.25	0.77	
14748.00	90.650	343.050	6470.80	7965.55	8215.81	-529.78	1678366.40	14279522.94	39°19'22.350"N	80°51'56.914"W	8232.87	356.310	2.35	0.50	2.30	
14773.00	90.650	343.050	6470.52	7990.55	8239.72	-537.07	1678359.11	14279546.84	39°19'22.587"N	80°51'57.006"W	8257.20	356.271	0.00	0.00	0.00	Projected MD at TD: 14773'





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor Unit 2H AWB
Facility	Long Run Pad		

## HOLE & CASING SECTIONS - Ref Wellbore: Mossor Unit 2H AWB Ref Wellpath: Mossor Unit 2H AWP Proj: 14773'

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	-0.02	0.05
17.5in Open Hole	64.50	525.10	460.60	64.50	525.09	-0.02	0.05	-0.63	2.89
13.375in Casing Surface	24.50	525.10	500.60	24.50	525.09	0.00	0.00	-0.63	2.89
12.25in Open Hole	525.10	2615.20	2090.10	525.09	2571.01	-0.63	2.89	84.76	379.87
9.625in Casing Intermediate	24.50	2615.20	2590.70	24.50	2571.01	0.00	0.00	84.76	379.87
8.75in Open Hole	2615.20	5947.50	3332.30	2571.01	5635.27	84.76	379.87	363.69	1650.65
8.5in Open Hole	5947.50	14773.00	8825.50	5635.27	6470.52	363.69	1650.65	8239.72	-537.07
5.5in Casing Production	24.50	14773.00	14748.50	24.50	6470.52	0.00	0.00	8239.72	-537.07

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mossor Unit 2H POE-Rev-1	6446.00	868.46	1852.18	1680747.41	14272178.53	39°18'09.695"N	80°51'26.752"W	point
Mossor Unit 2H BHL-Rev-1	6470.00	8275.80	-546.28	1678349.91	14279582.90	39°19'22.943"N	80°51'57.123"W	point
Mossor Unit 2H LP-Rev-1	6470.00	1034.83	1825.83	1680721.07	14272344.84	39°18'11.340"N	80°51'27.084"W	point

## WELLPATH COMPOSITION - Ref Wellbore: Mossor Unit 2H AWB Ref Wellpath: Mossor Unit 2H AWP Proj: 14773'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	5947.50	Gyrodatta standard - Drop gyro or Multi-shot	05 Gyrodatta MS Gyro <8-3/4">(100'-5936')	Mossor Unit 2H AWB
5947.50	14748.00	BHI AutoTrak Curve (Short)	06 BHI AT Curve <8-1/2">(5947.50')(6102'-14748')	Mossor Unit 2H AWB
14748.00	14773.00	Blind Drilling (std)	Projection to bit	Mossor Unit 2H AWB





# Actual Wellpath Report

Mossor Unit 2H AWP Proj: 14773'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Mossor Unit 2H
Field	Doddridge	Wellbore	Mossor Unit 2H AWP
Facility	Long Run Pad		

## COMMENTS

### Wellpath general comments

API: 47-017-06778-0000  
BHI Job #: 8499234  
Rig: Frontier 22  
Duration: 04/11/2017-04/13/2017  
Gyrodata MS Gyro <8-3/4">(100'-5936')  
BHI AT Curve <8-1/2"> (5947.50')(6102'-14748')  
Middlesex: 6652' MD  
Burket: 6856' MD  
Tully: 6923' MD  
Hamilton: 6995' MD  
Marcellus POE: 7022' MD  
Projected MD at TD: 14773'

PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS	220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415	OPERATOR'S WELL # MOSSOR UNIT #2H
STATE OF WEST VIRGINIA DEPT. OF ENERGY DIVISION OF OIL AND GAS WELL TYPE: OIL (IF "GAS") PRODUCTION X STORAGE X LOCATION: ELEVATION 1,021' - AS DRILLED QUADRANGLE WEST UNION 7.5'	WASTE DISPOSAL SHALLOW X WATERSHED HEADWATERS MIDDLE ISLAND CREEK DISTRICT CENTRAL ACREAGE 39 ACRES +/-	API WELL # 47 - 017 - 06778 STATE COUNTY PERMIT
SURFACE OWNER RICHARD F. MCCULLOUGH OIL & GAS ROYALTY OWNER HARRIS HEIRS; VIRGIL DEEM; LAWRENCE L. JAMES; CINDA L. FLEMING ET VIR; RICHARD F. MCCULLOUGH ET UX; RICHARD F. MCCULLOUGH; EUGENE R. WALTON	LEASE ACREAGE 217 AC±; 107 AC±; 215 AC±; 99.25 AC±; 61.5 AC±; 105.61 AC±; 137 AC±	COUNTY DODDRIDGE
PROPOSED WORK: DRILL PLUG OFF OLD FORMATION (SPECIFY) AS DRILLED TARGET FORMATION MARCELLUS	DRILL DEEPER NEW FORMATION OTHER PHYSICAL CHANGE IN WELL PLUG & ABANDON ESTIMATED DEPTH	PERMIT
WELL OPERATOR ADDRESS EORM WW-6	ANTERO RESOURCES CORP. 1615 WYNKOOP STREET DENVER, CO 80202	COUNTY NAME PERMIT
		DIANNA STAMPER CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV 25313