



ANTERO RESOURCES CORPORATION

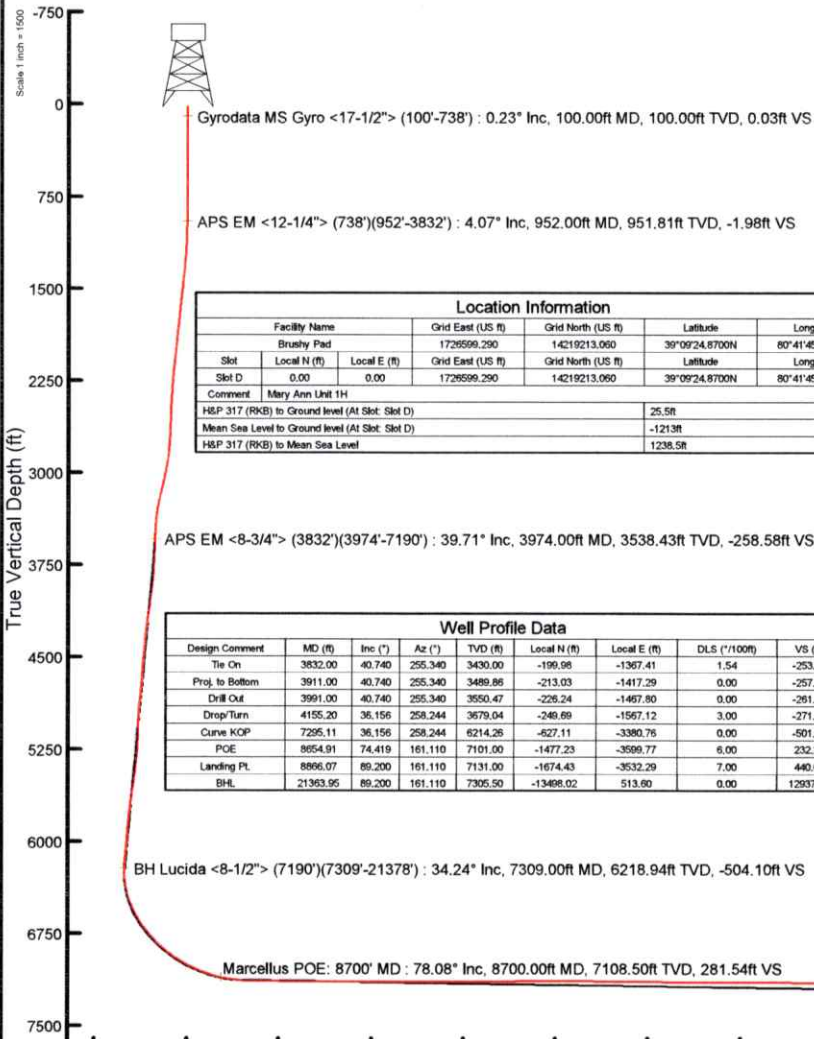
Area: Doddridge Co., WV
Field: Doddridge
Facility: Brushy Pad
Slot: Slot D

Well: Mary Ann Unit 1H
UWI: 47-017-06992-0000
Wellbore: Mary Ann Unit 1H PWB
Wellpath: Mary Ann Unit 1H PWP Rev-B.0



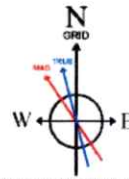
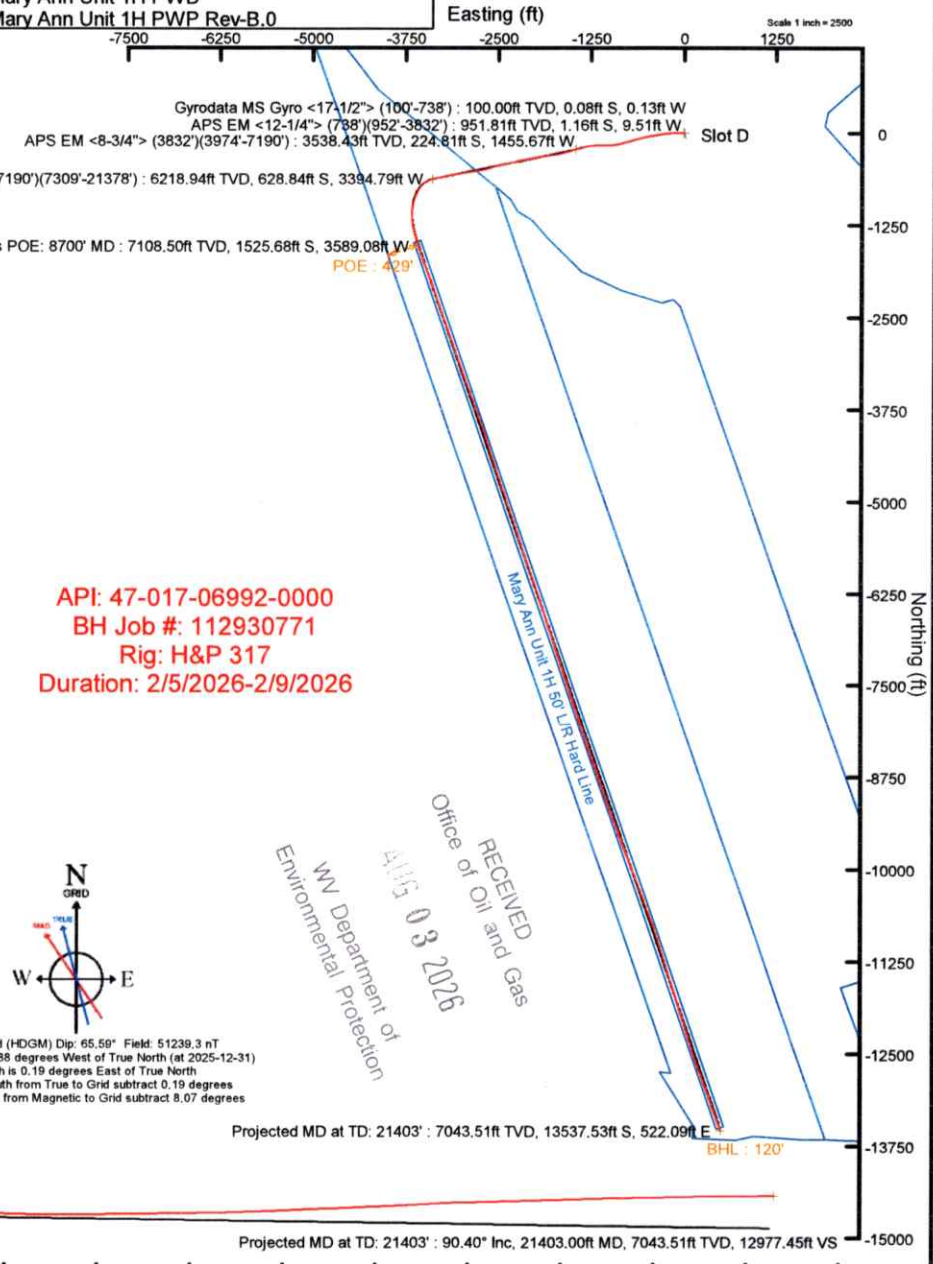
Plot reference wellbore is Mary Ann Unit 1H PWP Rev-B.0	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellbore measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1238.5 feet	Coordinates are in feet referenced to Slot
Mean Time Level to Ground level (At Slot: Slot D): -1213 feet	Depths are in feet
Offset wellbore MDs are referenced to each path's default MD datum	Created by: edburyer on 2026-03-01, Database: WA_MPL_EASTERNUS_Deli

Well Data			
Slot	Well	Wellbore	Wellpath
Slot D	Mary Ann Unit 1H	Mary Ann Unit 1H AWP	Mary Ann Unit 1H AWP Proj. 21403'
Slot D	Mary Ann Unit 1H	Mary Ann Unit 1H PWB	Mary Ann Unit 1H PWP Rev-B.0



Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude
Brushy Pad	1729599.290	14219213.060	39°09'24.8700N
Slot	Local N (ft)	Local E (ft)	Latitude
Slot D	0.00	0.00	39°09'24.8700N
Comment	Mary Ann Unit 1H		
H&P 317 (RKB) to Ground level (At Slot: Slot D)	25.5ft		
Mean Sea Level to Ground level (At Slot: Slot D)	-1213ft		
H&P 317 (RKB) to Mean Sea Level	1238.5ft		

Well Profile Data							
Design Comment	MD (ft)	Inc. (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3832.00	40.740	255.340	3430.00	-199.08	-1367.41	-253.49
Proj. to Bottom	3911.00	40.740	255.340	3489.86	-213.03	-1417.29	-257.29
Drill Out	3991.00	40.740	255.340	3550.47	-226.24	-1467.80	-261.14
Drop/Turn	4155.20	36.156	258.244	3679.04	-240.69	-1567.12	-271.12
Curve KOP	7226.11	36.156	258.244	6214.26	-627.11	-3380.76	-501.19
POE	8654.91	74.419	161.110	7101.00	-1477.23	-3599.77	232.24
Landing Pt.	8866.07	89.200	161.110	7131.00	-1674.43	-3632.29	440.67
BHL	21363.95	89.200	161.110	7305.50	-13498.02	513.60	12937.32



User specified (HDGM) Dip: 65.59° Field: 51239.3 nT
Magnetic North is 7.88 degrees West of True North (at 2025-12-31)
Grid North is 0.19 degrees East of True North
To correct azimuth from True to Grid subtract 0.19 degrees
To correct azimuth from Magnetic to Grid subtract 8.07 degrees

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Vertical Section (ft)
Azimuth 161.110° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Mary Ann Unit 1H AWP Proj: 21403'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mary Ann Unit 1H
Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet [32067]	Software System	WellArchitect® 7.0.1
North Reference	Grid	Report Generated By	Edsaryar on 2026-03-01 at 12:47:34 AM
Scale	0.999609	Last Updated	2026-02-28
Convergence at slot	0.19° East	Database	WA_MPL_EASTERNUS_Defn

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	1726599.29	14219213.06	39°09'24.8700"N	80°41'45.5099"W
Facility Reference Pt			1726599.29	14219213.06	39°09'24.8700"N	80°41'45.5099"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1238.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1238.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot D)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.110°

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Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (229 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	237.760	0.00	0.00	0.00	0.00	1726599.29	14219213.06	39°09'24.8700"N	80°41'45.5099"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	237.760	25.50	0.00	0.00	0.00	1726599.29	14219213.06	39°09'24.8700"N	80°41'45.5099"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.230	237.760	100.00	0.03	-0.08	-0.13	1726599.16	14219212.98	39°09'24.8692"N	80°41'45.5115"W	0.15	237.760	0.31	0.31	0.00	Gyrodata MS Gyro <17-1/2"> (100'-738')
200.00	0.330	292.930	200.00	-0.11	-0.07	-0.56	1726598.73	14219212.99	39°09'24.8693"N	80°41'45.5171"W	0.57	262.427	0.27	0.10	55.17	
300.00	0.360	298.640	300.00	-0.53	0.19	-1.10	1726598.19	14219213.25	39°09'24.8719"N	80°41'45.5239"W	1.12	279.684	0.05	0.03	5.71	
400.00	0.070	339.500	400.00	-0.83	0.40	-1.40	1726597.89	14219213.46	39°09'24.8739"N	80°41'45.5277"W	1.45	285.796	0.31	-0.29	40.86	
500.00	0.120	298.590	500.00	-0.97	0.50	-1.51	1726597.78	14219213.56	39°09'24.8750"N	80°41'45.5291"W	1.59	288.400	0.08	0.05	-40.91	
600.00	0.130	275.490	600.00	-1.09	0.56	-1.72	1726597.57	14219213.62	39°09'24.8756"N	80°41'45.5317"W	1.81	288.184	0.05	0.01	-23.10	
700.00	0.180	258.680	700.00	-1.16	0.54	-1.98	1726597.31	14219213.60	39°09'24.8754"N	80°41'45.5351"W	2.06	285.335	0.07	0.05	-16.81	
738.00	0.090	185.990	738.00	-1.14	0.50	-2.05	1726597.24	14219213.56	39°09'24.8750"N	80°41'45.5359"W	2.11	283.806	0.46	-0.24	-191.29	
952.00	4.070	258.660	951.81	-1.98	-1.16	-9.51	1726589.78	14219211.90	39°09'24.8588"N	80°41'45.6308"W	9.58	263.058	1.89	1.86	33.96	APS EM <12-1/4"> (738')(952'-3832')
1041.00	6.360	264.040	1040.44	-3.50	-2.29	-17.51	1726581.78	14219210.77	39°09'24.8479"N	80°41'45.7324"W	17.66	262.546	2.63	2.57	6.04	
1136.00	8.590	267.630	1134.63	-6.70	-3.13	-29.84	1726569.46	14219209.93	39°09'24.8400"N	80°41'45.8888"W	30.00	264.009	2.40	2.35	3.78	
1231.00	11.230	271.710	1228.20	-11.97	-3.15	-46.18	1726553.13	14219209.91	39°09'24.8404"N	80°41'46.0962"W	46.28	266.099	2.87	2.78	4.29	
1325.00	14.310	273.600	1319.87	-19.64	-2.15	-66.92	1726532.39	14219210.92	39°09'24.8510"N	80°41'46.3596"W	66.96	268.164	3.31	3.28	2.01	
1420.00	16.710	271.200	1411.40	-28.82	-1.12	-92.30	1726507.03	14219211.94	39°09'24.8619"N	80°41'46.6817"W	92.31	269.303	2.61	2.53	-2.53	
1514.00	19.260	269.550	1500.80	-38.37	-0.96	-121.32	1726478.02	14219212.10	39°09'24.8645"N	80°41'47.0501"W	121.32	269.546	2.77	2.71	-1.76	
1609.00	21.030	265.890	1589.99	-47.67	-2.31	-153.99	1726445.36	14219210.75	39°09'24.8523"N	80°41'47.4649"W	154.01	269.142	2.29	1.86	-3.85	
1704.00	23.020	263.580	1678.05	-56.03	-5.61	-189.46	1726409.91	14219207.46	39°09'24.8208"N	80°41'47.9152"W	189.54	268.305	2.28	2.09	-2.43	
1798.00	26.000	263.470	1763.57	-64.41	-10.00	-228.20	1726371.18	14219203.06	39°09'24.7786"N	80°41'48.4072"W	228.42	267.490	3.17	3.17	-0.12	
1893.00	28.840	262.390	1847.89	-73.36	-15.41	-271.61	1726327.79	14219197.66	39°09'24.7267"N	80°41'48.9585"W	272.04	266.753	3.03	2.99	-1.14	
1987.00	31.110	260.180	1929.32	-81.62	-22.55	-318.01	1726281.40	14219190.52	39°09'24.6576"N	80°41'49.5479"W	318.81	265.943	2.69	2.41	-2.35	
2082.00	33.690	260.700	2009.52	-89.88	-31.00	-368.21	1726231.23	14219182.07	39°09'24.5758"N	80°41'50.1855"W	369.51	265.188	2.73	2.72	0.55	
2176.00	33.770	261.680	2087.70	-99.01	-38.99	-419.79	1726179.67	14219174.08	39°09'24.4985"N	80°41'50.8406"W	421.59	264.693	0.59	0.09	1.04	
2271.00	34.640	259.450	2166.27	-107.78	-47.76	-472.46	1726127.02	14219165.32	39°09'24.4136"N	80°41'51.5096"W	474.87	264.228	1.61	0.92	-2.35	
2366.00	36.740	257.170	2243.43	-114.69	-59.01	-526.71	1726072.78	14219154.07	39°09'24.3041"N	80°41'52.1988"W	530.01	263.607	2.62	2.21	-2.40	
2460.00	37.790	256.030	2318.24	-120.13	-72.21	-582.08	1726017.44	14219140.88	39°09'24.1755"N	80°41'52.9022"W	586.54	262.929	1.34	1.12	-1.21	
2555.00	37.350	255.310	2393.53	-124.74	-86.54	-638.20	1725961.34	14219126.55	39°09'24.0357"N	80°41'53.6152"W	644.04	262.278	0.65	-0.46	-0.76	
2649.00	37.130	254.230	2468.37	-128.37	-101.48	-693.08	1725906.48	14219111.62	39°09'23.8898"N	80°41'54.3126"W	700.47	261.670	0.73	-0.23	-1.15	
2744.00	34.850	253.650	2545.23	-131.13	-116.92	-746.73	1725852.85	14219096.19	39°09'23.7390"N	80°41'54.9942"W	755.83	261.101	2.43	-2.40	-0.61	

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Actual Wellpath Report

Mary Ann Unit 1H AWP Proj: 21403'

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Operator	ANTERO RESOURCES CORPORATION	Well	Mary Ann Unit 1H
Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (229 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
2839.00	32.750	253.890	2624.17	-133.58	-131.69	-797.47	1725802.14	14219081.42	39°09'23.5946"N	80°41'55.6389"W	808.27	260.623	2.21	-2.21	0.25	
2933.00	31.320	256.580	2703.86	-137.15	-144.42	-845.66	1725753.96	14219068.70	39°09'23.4704"N	80°41'56.2513"W	857.91	260.309	2.15	-1.52	2.86	
3028.00	30.770	258.330	2785.25	-142.55	-155.06	-893.48	1725706.16	14219058.06	39°09'23.3668"N	80°41'56.8588"W	906.84	260.154	1.11	-0.58	1.84	
3123.00	31.210	263.590	2866.71	-150.93	-162.73	-941.75	1725657.91	14219050.39	39°09'23.2926"N	80°41'57.4718"W	955.70	260.196	2.89	0.46	5.54	
3217.00	32.430	267.640	2946.59	-163.36	-166.49	-991.14	1725608.54	14219046.64	39°09'23.2571"N	80°41'58.0990"W	1005.03	260.465	2.62	1.30	4.31	
3312.00	34.060	268.880	3026.04	-178.73	-168.06	-1043.19	1725556.51	14219045.07	39°09'23.2433"N	80°41'58.7598"W	1056.64	260.848	1.86	1.72	1.31	
3406.00	36.910	269.810	3102.57	-195.82	-168.66	-1097.75	1725501.97	14219044.46	39°09'23.2390"N	80°41'59.4524"W	1110.63	261.265	3.09	3.03	0.99	
3501.00	38.940	268.360	3177.50	-213.82	-169.61	-1156.13	1725443.62	14219043.51	39°09'23.2316"N	80°42'0.1935"W	1168.50	261.654	2.33	2.14	-1.53	
3595.00	40.090	265.370	3250.03	-230.04	-172.90	-1215.83	1725383.94	14219040.23	39°09'23.2010"N	80°42'0.9515"W	1228.06	261.906	2.36	1.22	-3.18	
3690.00	40.620	260.860	3322.44	-242.81	-180.29	-1276.86	1725322.93	14219032.85	39°09'23.1300"N	80°42'1.7267"W	1289.53	261.963	3.12	0.56	-4.75	
3785.00	40.870	256.430	3394.43	-250.93	-192.49	-1337.62	1725262.19	14219020.64	39°09'23.0113"N	80°42'2.4985"W	1351.40	261.811	3.05	0.26	-4.66	
3832.00	40.740	255.340	3430.00	-253.49	-199.98	-1367.41	1725232.42	14219013.16	39°09'22.9383"N	80°42'2.8769"W	1381.96	261.680	1.54	-0.28	-2.32	
3974.00	39.710	253.220	3538.43	-258.58	-224.81	-1455.67	1725144.19	14218988.34	39°09'22.6958"N	80°42'3.9984"W	1472.93	261.221	1.21	-0.73	-1.49	APS EM <8-3/4"> (3832')(3974'-7190')
4069.00	37.930	253.550	3612.44	-260.94	-241.84	-1512.74	1725087.15	14218971.32	39°09'22.5293"N	80°42'4.7235"W	1531.95	260.917	1.89	-1.87	0.35	
4163.00	37.000	255.800	3687.05	-264.48	-256.96	-1567.87	1725032.04	14218956.20	39°09'22.3817"N	80°42'5.4240"W	1588.79	260.693	1.76	-0.99	2.39	
4258.00	36.980	254.120	3762.93	-268.32	-271.79	-1623.07	1724976.86	14218941.38	39°09'22.2369"N	80°42'6.1253"W	1645.67	260.494	1.06	-0.02	-1.77	
4353.00	36.270	256.690	3839.18	-272.55	-286.08	-1677.90	1724922.05	14218927.09	39°09'22.0974"N	80°42'6.8220"W	1702.11	260.324	1.78	-0.75	2.71	
4447.00	35.890	260.600	3915.16	-279.80	-296.98	-1732.15	1724867.82	14218916.20	39°09'21.9914"N	80°42'7.5111"W	1757.42	260.271	2.48	-0.40	4.16	
4542.00	37.080	262.620	3991.54	-290.11	-305.21	-1788.03	1724811.97	14218907.97	39°09'21.9119"N	80°42'8.2207"W	1813.89	260.313	1.78	1.25	2.13	
4636.00	36.580	261.710	4066.78	-300.91	-312.89	-1843.85	1724756.17	14218900.30	39°09'21.8378"N	80°42'8.9297"W	1870.21	260.369	0.79	-0.53	-0.97	
4731.00	38.190	262.230	4142.27	-311.79	-320.94	-1900.96	1724699.08	14218892.25	39°09'21.7601"N	80°42'9.6550"W	1927.86	260.417	1.73	1.69	0.55	
4825.00	37.200	259.780	4216.65	-321.67	-329.91	-1957.72	1724642.34	14218883.28	39°09'21.6733"N	80°42'10.3760"W	1985.33	260.435	1.91	-1.05	-2.61	
4920.00	36.930	261.250	4292.46	-331.03	-339.35	-2014.19	1724585.89	14218873.85	39°09'21.5818"N	80°42'11.0932"W	2042.58	260.437	0.97	-0.28	1.55	
5014.00	35.570	258.650	4368.26	-339.59	-349.03	-2068.92	1724531.19	14218864.17	39°09'21.4879"N	80°42'11.7883"W	2098.15	260.424	2.18	-1.45	-2.77	
5109.00	36.580	257.780	4445.05	-346.50	-360.46	-2123.67	1724476.45	14218852.75	39°09'21.3767"N	80°42'12.4839"W	2154.05	260.367	1.19	1.06	-0.92	
5204.00	37.820	259.090	4520.72	-353.83	-371.96	-2179.94	1724420.21	14218841.25	39°09'21.2648"N	80°42'13.1986"W	2211.45	260.317	1.55	1.31	1.38	
5298.00	36.360	256.240	4595.70	-360.33	-384.04	-2235.31	1724364.86	14218829.17	39°09'21.1472"N	80°42'13.9020"W	2268.06	260.251	2.40	-1.55	-3.03	
5393.00	35.350	255.950	4672.70	-365.16	-397.41	-2289.33	1724310.86	14218815.80	39°09'21.0168"N	80°42'14.5883"W	2323.56	260.152	1.08	-1.06	-0.31	
5487.00	36.360	258.500	4748.89	-371.04	-409.57	-2343.01	1724257.20	14218803.65	39°09'20.8983"N	80°42'15.2703"W	2378.54	260.085	1.92	1.07	2.71	
5582.00	35.740	258.810	4825.70	-378.38	-420.57	-2397.83	1724202.41	14218792.65	39°09'20.7914"N	80°42'15.9666"W	2434.43	260.052	0.68	-0.65	0.33	

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Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

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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]	
5676.00	34.890	258.330	4902.40	-385.44	-431.34	-2451.09	1724149.17	14218781.89	39°09'20.6867"N	80°42'16.6431"W	2488.75	260.019	0.95	-0.90	-0.51	
5771.00	35.140	255.650	4980.21	-391.02	-443.61	-2504.19	1724096.09	14218769.62	39°09'20.5671"N	80°42'17.3177"W	2543.18	259.954	1.64	0.26	-2.82	
5865.00	35.460	252.950	5056.93	-394.04	-458.31	-2556.47	1724043.83	14218754.93	39°09'20.4235"N	80°42'17.9819"W	2597.22	259.836	1.69	0.34	-2.87	
5960.00	35.600	252.600	5134.24	-395.64	-474.66	-2609.20	1723991.12	14218738.59	39°09'20.2636"N	80°42'18.6520"W	2652.02	259.690	0.26	0.15	-0.37	
6054.00	36.630	254.930	5210.18	-398.22	-490.13	-2662.39	1723937.95	14218723.12	39°09'20.1124"N	80°42'19.3278"W	2707.13	259.569	1.83	1.10	2.48	
6148.00	37.780	257.160	5285.05	-403.12	-503.82	-2717.54	1723882.82	14218709.43	39°09'19.9788"N	80°42'20.0286"W	2763.85	259.497	1.89	1.22	2.37	
6242.00	37.840	260.440	5359.33	-410.83	-515.01	-2774.06	1723826.33	14218698.25	39°09'19.8700"N	80°42'20.7464"W	2821.46	259.483	2.14	0.06	3.49	
6336.00	37.900	260.800	5433.53	-420.37	-524.42	-2830.99	1723769.42	14218688.85	39°09'19.7789"N	80°42'21.4695"W	2879.15	259.505	0.24	0.06	0.38	
6431.00	38.200	261.210	5508.34	-430.43	-533.57	-2888.82	1723711.61	14218679.70	39°09'19.6903"N	80°42'22.2040"W	2937.68	259.535	0.41	0.32	0.43	
6526.00	37.960	260.660	5583.12	-440.43	-542.80	-2946.68	1723653.77	14218670.47	39°09'19.6009"N	80°42'22.9389"W	2996.26	259.563	0.44	-0.25	-0.58	
6620.00	37.610	261.680	5657.41	-450.49	-551.64	-3003.59	1723596.88	14218661.63	39°09'19.5153"N	80°42'23.6617"W	3053.83	259.593	0.76	-0.37	1.09	
6715.00	37.300	260.850	5732.83	-460.67	-560.42	-3060.69	1723539.80	14218652.87	39°09'19.4304"N	80°42'24.3869"W	3111.57	259.624	0.62	-0.33	-0.87	
6809.00	36.790	259.520	5807.85	-469.61	-570.06	-3116.49	1723484.03	14218643.22	39°09'19.3369"N	80°42'25.0956"W	3168.20	259.634	1.01	-0.54	-1.41	
6907.00	35.510	257.950	5886.99	-477.29	-581.34	-3173.18	1723427.36	14218631.94	39°09'19.2272"N	80°42'25.8158"W	3226.00	259.618	1.61	-1.31	-1.60	
7001.00	34.480	256.140	5963.99	-482.88	-593.42	-3225.72	1723374.84	14218619.87	39°09'19.1095"N	80°42'26.4831"W	3279.85	259.576	1.56	-1.10	-1.93	
7096.00	34.840	258.920	6042.14	-488.92	-605.08	-3278.46	1723322.12	14218608.22	39°09'18.9960"N	80°42'27.1531"W	3333.83	259.543	1.71	0.38	2.93	
7190.00	33.310	260.380	6120.00	-496.73	-614.55	-3330.26	1723270.34	14218598.75	39°09'18.9040"N	80°42'27.8111"W	3386.49	259.545	1.85	-1.63	1.55	
7309.00	34.240	254.710	6218.94	-504.10	-628.84	-3394.79	1723205.84	14218584.46	39°09'18.7648"N	80°42'28.6308"W	3452.54	259.506	2.76	0.78	-4.76	BH Lucida <8-1/2"> (7190')(7309'-21378')
7403.00	34.600	243.980	6296.55	-502.44	-647.54	-3444.33	1723156.32	14218565.77	39°09'18.5815"N	80°42'29.2604"W	3504.67	259.353	6.46	0.38	-11.41	
7498.00	34.570	235.000	6374.82	-491.61	-674.85	-3490.67	1723109.99	14218538.47	39°09'18.3131"N	80°42'29.8499"W	3555.31	259.058	5.36	-0.03	-9.45	
7593.00	35.310	225.190	6452.75	-472.11	-709.69	-3532.26	1723068.42	14218503.65	39°09'17.9701"N	80°42'30.3792"W	3602.85	258.640	5.96	0.78	-10.33	
7687.00	36.660	215.330	6528.88	-443.81	-751.77	-3567.80	1723032.90	14218461.59	39°09'17.5553"N	80°42'30.8320"W	3646.14	258.101	6.32	1.44	-10.49	
7781.00	38.650	208.240	6603.33	-407.41	-800.55	-3597.93	1723002.78	14218412.83	39°09'17.0741"N	80°42'31.2165"W	3685.92	257.456	5.07	2.12	-7.54	
7876.00	41.430	201.820	6676.09	-363.37	-855.90	-3623.67	1722977.05	14218357.50	39°09'16.5278"N	80°42'31.5455"W	3723.38	256.711	5.24	2.93	-6.76	
7897.00†	42.047	200.362	6691.76	-352.66	-868.94	-3628.70	1722972.02	14218344.46	39°09'16.3991"N	80°42'31.6099"W	3731.29	256.533	5.48	2.94	-6.94	Sycamore: 7897' MD
7971.00	44.360	195.500	6745.71	-312.10	-917.12	-3644.24	1722956.49	14218296.30	39°09'15.9234"N	80°42'31.8091"W	3757.87	255.874	5.48	3.13	-6.57	
8065.00	48.110	190.660	6810.74	-254.51	-983.21	-3659.50	1722941.23	14218230.23	39°09'15.2706"N	80°42'32.0056"W	3789.28	254.961	5.45	3.99	-5.15	
8130.00†	50.402	185.649	6853.17	-210.66	-1031.94	-3666.45	1722934.29	14218181.53	39°09'14.7892"N	80°42'32.0957"W	3808.90	254.281	6.82	3.53	-7.71	Middlesex: 8130' MD
8160.00	51.530	183.450	6872.07	-189.28	-1055.16	-3668.29	1722932.44	14218158.31	39°09'14.5597"N	80°42'32.1201"W	3817.03	253.952	6.82	3.76	-7.33	
8254.00	55.460	178.940	6928.00	-118.34	-1130.66	-3669.79	1722930.94	14218082.85	39°09'13.8136"N	80°42'32.1422"W	3840.02	252.876	5.69	4.18	-4.80	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mary Ann Unit 1H
Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (229 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
8349.00	59.820	173.960	6978.86	-40.99	-1210.69	-3664.74	1722935.99	14218002.85	39°09'13.0224"N	80°42'32.0813"W	3859.55	251.718	6.38	4.59	-5.24	
8370.00†	60.756	172.961	6989.26	-23.17	-1228.81	-3662.66	1722938.07	14217984.74	39°09'12.8433"N	80°42'32.0557"W	3863.30	251.454	6.08	4.46	-4.76	Burkett: 8370' MD
8444.00	64.110	169.580	7023.51	41.38	-1293.62	-3652.68	1722948.05	14217919.95	39°09'12.2024"N	80°42'31.9316"W	3874.99	250.498	6.08	4.53	-4.57	
8463.00†	65.009	168.645	7031.67	58.37	-1310.47	-3649.44	1722951.29	14217903.11	39°09'12.0357"N	80°42'31.8912"W	3877.59	250.247	6.49	4.73	-4.92	Tully: 8463' MD
8538.00	68.610	165.080	7061.21	126.94	-1377.57	-3633.75	1722966.97	14217836.03	39°09'11.3720"N	80°42'31.6947"W	3886.11	249.238	6.49	4.80	-4.75	
8633.00	73.010	162.280	7092.44	216.54	-1463.64	-3608.52	1722992.19	14217750.00	39°09'10.5205"N	80°42'31.3779"W	3894.05	247.922	5.40	4.63	-2.95	
8680.00	77.720	162.830	7104.31	261.99	-1507.01	-3594.89	1723005.81	14217706.64	39°09'10.0914"N	80°42'31.2067"W	3897.99	247.256	10.08	10.02	1.17	
8700.00†	78.082	162.574	7108.50	281.54	-1525.68	-3589.08	1723011.63	14217687.98	39°09'9.9067"N	80°42'31.1337"W	3899.89	246.970	2.20	1.81	-1.28	Marcellus POE: 8700' MD
8727.00	78.570	162.230	7113.96	307.97	-1550.88	-3581.08	1723019.62	14217662.79	39°09'9.6573"N	80°42'31.0332"W	3902.49	246.584	2.20	1.81	-1.27	
8822.00	82.780	160.440	7129.35	401.69	-1639.67	-3551.08	1723049.61	14217574.03	39°09'8.7788"N	80°42'30.6560"W	3911.35	245.215	4.81	4.43	-1.88	
8917.00	89.230	159.940	7135.97	496.40	-1728.78	-3518.98	1723081.70	14217484.96	39°09'7.8970"N	80°42'30.2522"W	3920.70	243.836	6.81	6.79	-0.53	
9011.00	89.050	159.900	7137.38	590.37	-1817.06	-3486.71	1723113.95	14217396.71	39°09'7.0234"N	80°42'29.8461"W	3931.77	242.474	0.20	-0.19	-0.04	
9106.00	89.320	159.800	7138.73	685.33	-1906.24	-3453.99	1723146.66	14217307.57	39°09'6.1410"N	80°42'29.4344"W	3945.09	241.106	0.30	0.28	-0.11	
9200.00	89.350	160.700	7139.82	779.32	-1994.70	-3422.23	1723178.41	14217219.14	39°09'5.2656"N	80°42'29.0349"W	3961.12	239.764	0.96	0.03	0.96	
9295.00	89.450	161.100	7140.82	874.31	-2084.47	-3391.14	1723209.48	14217129.41	39°09'4.3774"N	80°42'28.6440"W	3980.56	238.422	0.43	0.11	0.42	
9389.00	89.480	160.620	7141.70	968.31	-2173.26	-3360.32	1723240.29	14217040.65	39°09'3.4987"N	80°42'28.2564"W	4001.86	237.108	0.51	0.03	-0.51	
9579.00	90.120	160.930	7142.36	1158.30	-2352.67	-3297.76	1723302.83	14216861.32	39°09'1.7235"N	80°42'27.4696"W	4050.96	234.495	0.37	0.34	0.16	
9673.00	90.150	160.650	7142.14	1252.30	-2441.43	-3266.83	1723333.74	14216772.59	39°09'0.8452"N	80°42'27.0806"W	4078.33	233.228	0.30	0.03	-0.30	
9768.00	90.090	160.800	7141.94	1347.30	-2531.11	-3235.47	1723365.09	14216682.95	39°08'59.9579"N	80°42'26.6863"W	4107.89	231.964	0.17	-0.06	0.16	
9863.00	90.030	160.520	7141.84	1442.29	-2620.75	-3204.01	1723396.54	14216593.35	39°08'59.0709"N	80°42'26.2906"W	4139.32	230.718	0.30	-0.06	-0.29	
9957.00	89.970	160.380	7141.84	1536.29	-2709.33	-3172.55	1723427.98	14216504.80	39°08'58.1944"N	80°42'25.8949"W	4172.00	229.503	0.16	-0.06	-0.15	
10052.00	90.180	160.760	7141.71	1631.28	-2798.92	-3140.95	1723459.57	14216415.25	39°08'57.3079"N	80°42'25.4975"W	4207.08	228.296	0.46	0.22	0.40	
10146.00	90.060	160.680	7141.52	1725.28	-2887.64	-3109.92	1723490.60	14216326.55	39°08'56.4299"N	80°42'25.1071"W	4243.83	227.122	0.15	-0.13	-0.09	
10241.00	90.030	160.730	7141.44	1820.28	-2977.31	-3078.52	1723521.98	14216236.92	39°08'55.5427"N	80°42'24.7124"W	4282.72	225.958	0.06	-0.03	0.05	
10335.00	90.090	161.020	7141.34	1914.28	-3066.12	-3047.73	1723552.76	14216148.15	39°08'54.6639"N	80°42'24.3251"W	4323.16	224.828	0.32	0.06	0.31	
10430.00	90.000	160.630	7141.27	2009.27	-3155.85	-3016.52	1723583.95	14216058.45	39°08'53.7760"N	80°42'23.9327"W	4365.64	223.707	0.42	-0.09	-0.41	
10525.00	89.750	160.310	7141.48	2104.27	-3245.38	-2984.77	1723615.70	14215968.95	39°08'52.8900"N	80°42'23.5333"W	4409.23	222.605	0.43	-0.26	-0.34	
10619.00	90.180	160.670	7141.53	2198.26	-3333.99	-2953.37	1723647.08	14215880.39	39°08'52.0133"N	80°42'23.1385"W	4453.97	221.536	0.60	0.46	0.38	
10714.00	89.940	160.390	7141.44	2293.26	-3423.55	-2921.71	1723678.73	14215790.85	39°08'51.1270"N	80°42'22.7402"W	4500.79	220.478	0.39	-0.25	-0.29	
10809.00	90.090	159.190	7141.41	2388.23	-3512.70	-2888.89	1723711.54	14215701.74	39°08'50.2448"N	80°42'22.3273"W	4548.05	219.434	1.27	0.16	-1.26	

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Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

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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
10903.00	90.150	160.420	7141.21	2482.20	-3600.92	-2856.44	1723743.97	14215613.56	39°08'49.3718"N	80°42'21.9191"W	4596.29	218.423	1.31	0.06	1.31	
10998.00	90.370	160.220	7140.78	2577.19	-3690.37	-2824.45	1723775.95	14215524.14	39°08'48.4867"N	80°42'21.5167"W	4647.19	217.429	0.31	0.23	-0.21	
11093.00	91.110	160.600	7139.56	2672.18	-3779.86	-2792.60	1723807.79	14215434.68	39°08'47.6011"N	80°42'21.1161"W	4699.57	216.457	0.88	0.78	0.40	
11187.00	90.860	160.530	7137.94	2766.16	-3868.49	-2761.33	1723839.05	14215346.09	39°08'46.7241"N	80°42'20.7228"W	4752.91	215.519	0.28	-0.27	-0.07	
11282.00	90.770	160.830	7136.59	2861.15	-3958.14	-2729.90	1723870.47	14215256.48	39°08'45.8371"N	80°42'20.3276"W	4808.24	214.594	0.33	-0.09	0.32	
11377.00	89.720	161.470	7136.18	2956.14	-4048.04	-2699.21	1723901.15	14215166.61	39°08'44.9475"N	80°42'19.9418"W	4865.42	213.695	1.29	-1.11	0.67	
11472.00	89.820	161.770	7136.56	3051.14	-4138.19	-2669.25	1723931.09	14215076.50	39°08'44.0555"N	80°42'19.5653"W	4924.38	212.823	0.33	0.11	0.32	
11566.00	89.170	161.770	7137.39	3145.13	-4227.47	-2639.85	1723960.48	14214987.25	39°08'43.1721"N	80°42'19.1957"W	4984.00	211.983	0.69	-0.69	0.00	
11661.00	89.420	161.770	7138.56	3240.12	-4317.69	-2610.13	1723990.19	14214897.07	39°08'42.2794"N	80°42'18.8223"W	5045.32	211.154	0.26	0.26	0.00	
11756.00	89.200	161.710	7139.70	3335.10	-4407.90	-2580.36	1724019.94	14214806.89	39°08'41.3868"N	80°42'18.4482"W	5107.63	210.344	0.24	-0.23	-0.06	
11850.00	89.380	161.650	7140.87	3429.09	-4497.13	-2550.82	1724049.47	14214717.70	39°08'40.5039"N	80°42'18.0769"W	5170.19	209.562	0.20	0.19	-0.06	
11945.00	89.230	161.580	7142.02	3524.08	-4587.28	-2520.86	1724079.42	14214627.59	39°08'39.6120"N	80°42'17.7004"W	5234.29	208.790	0.17	-0.16	-0.07	
12039.00	89.510	161.620	7143.06	3618.07	-4676.47	-2491.19	1724109.08	14214538.43	39°08'38.7295"N	80°42'17.3275"W	5298.62	208.045	0.30	0.30	0.04	
12134.00	89.690	161.650	7143.72	3713.06	-4766.62	-2461.26	1724139.00	14214448.31	39°08'37.8374"N	80°42'16.9513"W	5364.56	207.310	0.19	0.19	0.03	
12228.00	89.750	160.230	7144.18	3807.06	-4855.47	-2430.56	1724169.68	14214359.50	39°08'36.9583"N	80°42'16.5654"W	5429.84	206.592	1.51	0.06	-1.51	
12323.00	89.720	161.800	7144.62	3902.06	-4945.30	-2399.66	1724200.57	14214269.71	39°08'36.0694"N	80°42'16.1769"W	5496.76	205.885	1.65	-0.03	1.65	
12418.00	90.280	161.180	7144.62	3997.05	-5035.38	-2369.50	1724230.72	14214179.66	39°08'35.1781"N	80°42'15.7978"W	5565.03	205.200	0.88	0.59	-0.65	
12512.00	89.720	161.680	7144.62	4091.05	-5124.49	-2339.57	1724260.64	14214090.59	39°08'34.2964"N	80°42'15.4215"W	5633.29	204.539	0.80	-0.60	0.53	
12607.00	89.750	161.710	7145.06	4186.05	-5214.68	-2309.73	1724290.47	14214000.43	39°08'33.4040"N	80°42'15.0466"W	5703.31	203.890	0.04	0.03	0.03	
12702.00	89.780	161.650	7145.45	4281.04	-5304.86	-2279.87	1724320.32	14213910.28	39°08'32.5117"N	80°42'14.6713"W	5774.03	203.257	0.07	0.03	-0.06	
12796.00	89.720	161.610	7145.86	4375.04	-5394.07	-2250.24	1724349.93	14213821.11	39°08'31.6290"N	80°42'14.2990"W	5844.62	202.644	0.08	-0.06	-0.04	
12891.00	89.910	161.820	7146.16	4470.03	-5484.27	-2220.44	1724379.72	14213730.94	39°08'30.7365"N	80°42'13.9245"W	5916.72	202.042	0.30	0.20	0.22	
12985.00	89.690	161.510	7146.49	4564.02	-5573.50	-2190.87	1724409.28	14213641.75	39°08'29.8536"N	80°42'13.5529"W	5988.64	201.459	0.40	-0.23	-0.33	
13080.00	89.940	161.700	7146.80	4659.02	-5663.65	-2160.89	1724439.25	14213551.64	39°08'28.9616"N	80°42'13.1761"W	6061.88	200.884	0.33	0.26	0.20	
13174.00	89.820	161.620	7147.00	4753.02	-5752.87	-2131.31	1724468.82	14213462.45	39°08'28.0788"N	80°42'12.8045"W	6134.98	200.329	0.15	-0.13	-0.09	
13269.00	88.920	161.680	7148.04	4848.00	-5843.03	-2101.41	1724498.71	14213372.32	39°08'27.1866"N	80°42'12.4286"W	6209.43	199.781	0.95	-0.95	0.06	
13364.00	88.950	161.290	7149.81	4942.99	-5933.10	-2071.25	1724528.86	14213282.29	39°08'26.2955"N	80°42'12.0496"W	6284.25	199.244	0.41	0.03	-0.41	
13458.00	89.140	160.960	7151.37	5036.97	-6022.03	-2040.84	1724559.25	14213193.39	39°08'25.4155"N	80°42'11.6674"W	6358.45	198.721	0.41	0.20	-0.35	
13553.00	89.140	161.540	7152.80	5131.96	-6111.98	-2010.31	1724589.77	14213103.48	39°08'24.5254"N	80°42'11.2836"W	6434.10	198.207	0.61	0.00	0.61	
13648.00	88.980	161.380	7154.36	5226.95	-6202.04	-1980.10	1724619.97	14213013.46	39°08'23.6343"N	80°42'10.9040"W	6510.46	197.707	0.24	-0.17	-0.17	



Actual Wellpath Report

Mary Ann Unit 1H AWP Proj: 21403'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mary Ann Unit 1H
Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (229 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
13743.00	88.980	161.500	7156.05	5321.93	-6292.08	-1949.87	1724650.19	14212923.45	39°08'22.7434"N	80°42'10.5240"W	6587.29	197.218	0.13	0.00	0.13	
13837.00	88.580	161.780	7158.05	5415.90	-6381.28	-1920.27	1724679.78	14212834.29	39°08'21.8608"N	80°42'10.1521"W	6663.94	196.748	0.52	-0.43	0.30	
14027.00	88.640	161.740	7162.66	5605.84	-6561.68	-1860.82	1724739.21	14212653.96	39°08'20.0758"N	80°42'9.4050"W	6820.43	195.833	0.04	0.03	-0.02	
14121.00	88.650	161.500	7164.88	5699.81	-6650.86	-1831.18	1724768.83	14212564.82	39°08'19.1934"N	80°42'9.0327"W	6898.35	195.394	0.26	0.01	-0.26	
14216.00	88.860	162.270	7166.95	5794.77	-6741.13	-1801.65	1724798.34	14212474.58	39°08'18.3003"N	80°42'8.6617"W	6977.73	194.963	0.84	0.22	0.81	
14310.00	88.650	162.100	7168.99	5888.74	-6830.60	-1772.90	1724827.09	14212385.15	39°08'17.4150"N	80°42'8.3005"W	7056.93	194.550	0.29	-0.22	-0.18	
14500.00	88.580	162.540	7173.58	6078.64	-7011.57	-1715.22	1724884.75	14212204.25	39°08'15.6244"N	80°42'7.5759"W	7218.32	193.746	0.23	-0.04	0.23	
14594.00	89.380	161.490	7175.25	6172.61	-7100.96	-1686.20	1724913.76	14212114.89	39°08'14.7399"N	80°42'7.2114"W	7298.42	193.358	1.40	0.85	-1.12	
14689.00	89.080	161.650	7176.53	6267.60	-7191.08	-1656.17	1724943.78	14212024.81	39°08'13.8482"N	80°42'6.8340"W	7379.33	192.970	0.36	-0.32	0.17	
14783.00	88.340	161.420	7178.65	6361.57	-7280.22	-1626.40	1724973.53	14211935.70	39°08'12.9662"N	80°42'6.4600"W	7459.68	192.593	0.82	-0.79	-0.24	
14878.00	88.370	161.290	7181.37	6456.53	-7370.20	-1596.04	1725003.88	14211845.76	39°08'12.0759"N	80°42'6.0784"W	7541.03	192.219	0.14	0.03	-0.14	
14973.00	88.430	161.420	7184.03	6551.49	-7460.18	-1565.68	1725034.22	14211755.82	39°08'11.1856"N	80°42'5.6969"W	7622.70	191.853	0.15	0.06	0.14	
15067.00	88.490	161.850	7186.55	6645.45	-7549.36	-1536.08	1725063.82	14211666.67	39°08'10.3032"N	80°42'5.3249"W	7704.04	191.501	0.46	0.06	0.46	
15162.00	88.370	161.600	7189.15	6740.41	-7639.53	-1506.30	1725093.58	14211576.54	39°08'9.4109"N	80°42'4.9507"W	7786.61	191.154	0.29	-0.13	-0.26	
15256.00	88.340	161.580	7191.85	6834.37	-7728.68	-1476.62	1725123.25	14211487.42	39°08'8.5288"N	80°42'4.5779"W	7868.48	190.816	0.04	-0.03	-0.02	
15351.00	88.400	161.720	7194.56	6929.33	-7818.82	-1446.73	1725153.13	14211397.32	39°08'7.6369"N	80°42'4.2022"W	7951.53	190.483	0.16	0.06	0.15	
15445.00	89.570	161.700	7196.22	7023.31	-7908.05	-1417.23	1725182.61	14211308.12	39°08'6.7540"N	80°42'3.8317"W	8034.04	190.160	1.24	1.24	-0.02	
15540.00	90.120	161.440	7196.48	7118.30	-7998.18	-1387.20	1725212.64	14211218.03	39°08'5.8622"N	80°42'3.4543"W	8117.58	189.839	0.64	0.58	-0.27	
15635.00	89.820	161.310	7196.53	7213.30	-8088.20	-1356.86	1725242.96	14211128.04	39°08'4.9714"N	80°42'3.0730"W	8201.22	189.523	0.34	-0.32	-0.14	
15729.00	90.430	161.560	7196.32	7307.30	-8177.31	-1326.93	1725272.88	14211038.97	39°08'4.0897"N	80°42'2.6969"W	8284.27	189.217	0.70	0.65	0.27	
15824.00	90.400	161.370	7195.63	7402.29	-8267.38	-1296.73	1725303.07	14210948.93	39°08'3.1985"N	80°42'2.3175"W	8368.46	188.914	0.20	-0.03	-0.20	
15918.00	90.370	160.910	7195.00	7496.29	-8356.33	-1266.35	1725333.44	14210860.02	39°08'2.3183"N	80°42'1.9356"W	8451.74	188.617	0.49	-0.03	-0.49	
16013.00	90.460	161.190	7194.31	7591.29	-8446.18	-1235.50	1725364.28	14210770.20	39°08'1.4292"N	80°42'1.5479"W	8536.07	188.322	0.31	0.09	0.29	
16108.00	90.490	161.490	7193.53	7686.29	-8536.18	-1205.10	1725394.66	14210680.24	39°08'0.5387"N	80°42'1.1659"W	8620.83	188.036	0.32	0.03	0.32	
16202.00	90.310	161.220	7192.87	7780.28	-8625.25	-1175.05	1725424.70	14210591.21	39°07'59.6574"N	80°42'0.7883"W	8704.92	187.758	0.35	-0.19	-0.29	
16297.00	91.140	161.550	7191.67	7875.27	-8715.27	-1144.73	1725455.01	14210501.22	39°07'58.7666"N	80°42'0.4073"W	8790.13	187.483	0.94	0.87	0.35	
16391.00	90.950	161.610	7189.95	7969.25	-8804.44	-1115.03	1725484.70	14210412.09	39°07'57.8843"N	80°42'0.0342"W	8874.76	187.218	0.21	-0.20	0.06	
16486.00	90.800	161.230	7188.50	8064.24	-8894.48	-1084.77	1725514.95	14210322.08	39°07'56.9934"N	80°41'59.6539"W	8960.38	186.953	0.43	-0.16	-0.40	
16580.00	90.950	161.470	7187.07	8158.23	-8983.53	-1054.71	1725544.99	14210233.07	39°07'56.1122"N	80°41'59.2762"W	9045.23	186.696	0.30	0.16	0.26	
16675.00	90.980	161.220	7185.47	8253.21	-9073.53	-1024.33	1725575.37	14210143.10	39°07'55.2217"N	80°41'58.8944"W	9131.16	186.441	0.27	0.03	-0.26	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mary Ann Unit 1H
Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (229 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
16769.00	90.860	159.840	7183.96	8347.20	-9162.14	-993.00	1725606.68	14210054.53	39°07'54.3448"N	80°41'58.5006"W	9215.79	186.186	1.47	-0.13	-1.47	
16864.00	90.990	159.890	7182.43	8442.16	-9251.32	-960.30	1725639.36	14209965.38	39°07'53.4623"N	80°41'58.0894"W	9301.03	185.926	0.15	0.14	0.05	
16959.00	92.030	159.700	7179.92	8537.10	-9340.44	-927.50	1725672.15	14209876.29	39°07'52.5803"N	80°41'57.6769"W	9386.38	185.671	1.11	1.09	-0.20	
17053.00	91.970	160.210	7176.64	8631.02	-9428.69	-895.30	1725704.34	14209788.08	39°07'51.7070"N	80°41'57.2720"W	9471.10	185.424	0.55	-0.06	0.54	
17148.00	92.060	160.150	7173.30	8725.95	-9518.01	-863.11	1725736.52	14209698.80	39°07'50.8232"N	80°41'56.8673"W	9557.06	185.182	0.11	0.09	-0.06	
17242.00	91.750	159.090	7170.18	8819.87	-9606.08	-830.40	1725769.22	14209610.76	39°07'49.9516"N	80°41'56.4558"W	9641.90	184.941	1.17	-0.33	-1.13	
17337.00	92.860	160.090	7166.36	8914.76	-9695.04	-797.29	1725802.31	14209521.84	39°07'49.0713"N	80°41'56.0395"W	9727.77	184.701	1.57	1.17	1.05	
17432.00	92.400	156.890	7161.99	9009.54	-9783.32	-762.50	1725837.09	14209433.59	39°07'48.1976"N	80°41'55.6017"W	9812.99	184.457	3.40	-0.48	-3.37	
17527.00	92.530	160.200	7157.91	9104.35	-9871.64	-727.79	1725871.79	14209345.31	39°07'47.3235"N	80°41'55.1649"W	9898.43	184.217	3.48	0.14	3.48	
17621.00	92.560	159.920	7153.73	9198.24	-9959.92	-695.76	1725903.80	14209257.06	39°07'46.4499"N	80°41'54.7623"W	9984.19	183.996	0.30	0.03	-0.30	
17716.00	92.530	159.880	7149.52	9293.12	-10049.04	-663.15	1725936.40	14209167.97	39°07'45.5679"N	80°41'54.3521"W	10070.90	183.776	0.05	-0.03	-0.04	
17810.00	91.450	158.490	7146.25	9387.01	-10136.85	-629.77	1725969.77	14209080.20	39°07'44.6989"N	80°41'53.9322"W	10156.39	183.555	1.87	-1.15	-1.48	
17905.00	92.460	160.520	7143.01	9481.91	-10225.78	-596.53	1726003.00	14208991.30	39°07'43.8189"N	80°41'53.5142"W	10243.16	183.339	2.39	1.06	2.14	
18000.00	92.560	160.410	7138.85	9576.81	-10315.22	-564.79	1726034.72	14208901.89	39°07'42.9337"N	80°41'53.1152"W	10330.68	183.134	0.16	0.11	-0.12	
18094.00	92.310	160.200	7134.86	9670.72	-10403.65	-533.14	1726066.36	14208813.51	39°07'42.0587"N	80°41'52.7174"W	10417.30	182.934	0.35	-0.27	-0.22	
18283.00	92.490	159.720	7126.94	9859.52	-10581.05	-468.43	1726131.04	14208636.18	39°07'40.3032"N	80°41'51.9037"W	10591.41	182.535	0.27	0.10	-0.25	
18378.00	93.170	159.280	7122.25	9954.36	-10669.92	-435.20	1726164.26	14208547.34	39°07'39.4237"N	80°41'51.4858"W	10678.79	182.336	0.85	0.72	-0.46	
18472.00	93.050	161.530	7117.15	10048.21	-10758.34	-403.73	1726195.72	14208458.95	39°07'38.5487"N	80°41'51.0902"W	10765.91	182.149	2.39	-0.13	2.39	
18567.00	92.990	162.010	7112.15	10143.07	-10848.45	-374.05	1726225.39	14208368.88	39°07'37.6571"N	80°41'50.7174"W	10854.89	181.975	0.51	-0.06	0.51	
18662.00	94.130	162.170	7106.25	10237.87	-10938.67	-344.89	1726254.53	14208278.70	39°07'36.7644"N	80°41'50.3512"W	10944.10	181.806	1.21	1.20	0.17	
18756.00	92.620	161.650	7100.71	10331.70	-11027.86	-315.75	1726283.66	14208189.54	39°07'35.8819"N	80°41'49.9853"W	11032.38	181.640	1.70	-1.61	-0.55	
18851.00	91.260	162.690	7097.50	10426.62	-11118.25	-286.68	1726312.72	14208099.19	39°07'34.9876"N	80°41'49.6202"W	11121.94	181.477	1.80	-1.43	1.09	
18945.00	91.140	162.430	7095.53	10520.57	-11207.90	-258.52	1726340.87	14208009.57	39°07'34.1005"N	80°41'49.2666"W	11210.89	181.321	0.30	-0.13	-0.28	
19040.00	91.350	162.360	7093.46	10615.53	-11298.43	-229.79	1726369.59	14207919.07	39°07'33.2047"N	80°41'48.9059"W	11300.77	181.165	0.23	0.22	-0.07	
19135.00	91.720	162.290	7090.92	10710.47	-11388.92	-200.96	1726398.41	14207828.63	39°07'32.3094"N	80°41'48.5439"W	11390.69	181.011	0.40	0.39	-0.07	
19229.00	91.630	162.270	7088.17	10804.41	-11478.42	-172.36	1726427.00	14207739.16	39°07'31.4239"N	80°41'48.1848"W	11479.71	180.860	0.10	-0.10	-0.02	
19324.00	91.760	162.360	7085.36	10899.35	-11568.89	-143.51	1726455.83	14207648.72	39°07'30.5287"N	80°41'47.8226"W	11569.78	180.711	0.17	0.14	0.09	
19418.00	91.690	162.340	7082.53	10993.28	-11658.42	-115.03	1726484.31	14207559.22	39°07'29.6428"N	80°41'47.4650"W	11658.99	180.565	0.08	-0.07	-0.02	
19513.00	91.660	162.550	7079.76	11088.22	-11748.96	-86.38	1726512.94	14207468.72	39°07'28.7470"N	80°41'47.1054"W	11749.28	180.421	0.22	-0.03	0.22	
19607.00	91.570	162.370	7077.11	11182.15	-11838.55	-58.07	1726541.25	14207379.16	39°07'27.8605"N	80°41'46.7499"W	11838.70	180.281	0.21	-0.10	-0.19	

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Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (229 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
19702.00	91.820	162.440	7074.30	11277.09	-11929.07	-29.36	1726569.94	14207288.68	39°07'26.9649"N	80°41'46.3895"W	11929.11	180.141	0.27	0.26	0.07	
19796.00	91.480	162.330	7071.59	11371.02	-12018.63	-0.93	1726598.36	14207199.16	39°07'26.0788"N	80°41'46.0325"W	12018.63	180.004	0.38	-0.36	-0.12	
19891.00	92.560	162.990	7068.24	11465.93	-12109.25	27.37	1726626.65	14207108.58	39°07'25.1822"N	80°41'45.6773"W	12109.28	179.871	1.33	1.14	0.69	
19986.00	91.290	161.280	7065.05	11560.85	-12199.61	56.50	1726655.76	14207018.25	39°07'24.2880"N	80°41'45.3116"W	12199.74	179.735	2.24	-1.34	-1.80	
20080.00	91.450	162.350	7062.80	11654.82	-12288.89	85.82	1726685.08	14206929.00	39°07'23.4047"N	80°41'44.9433"W	12289.19	179.600	1.15	0.17	1.14	
20175.00	90.950	162.450	7060.81	11749.77	-12379.42	114.54	1726713.79	14206838.51	39°07'22.5089"N	80°41'44.5827"W	12379.95	179.470	0.54	-0.53	0.11	
20269.00	91.080	162.660	7059.15	11843.73	-12469.09	142.72	1726741.95	14206748.88	39°07'21.6217"N	80°41'44.2290"W	12469.90	179.344	0.26	0.14	0.22	
20458.00	91.140	160.300	7055.49	12032.68	-12648.25	202.73	1726801.94	14206569.78	39°07'19.8489"N	80°41'43.4751"W	12649.88	179.082	1.25	0.03	-1.25	
20553.00	91.350	160.140	7053.42	12127.64	-12737.63	234.88	1726834.07	14206480.45	39°07'18.9644"N	80°41'43.0711"W	12739.79	178.944	0.28	0.22	-0.17	
20648.00	90.310	159.800	7052.05	12222.61	-12826.87	267.41	1726866.60	14206391.24	39°07'18.0813"N	80°41'42.6621"W	12829.66	178.806	1.15	-1.09	-0.36	
20742.00	92.340	160.960	7049.87	12316.57	-12915.38	298.96	1726898.14	14206302.76	39°07'17.2054"N	80°41'42.2655"W	12918.84	178.674	2.49	2.16	1.23	
20837.00	90.490	160.690	7047.53	12411.54	-13005.08	330.16	1726929.32	14206213.10	39°07'16.3178"N	80°41'41.8736"W	13009.27	178.546	1.97	-1.95	-0.28	
20931.00	90.310	160.080	7046.87	12505.53	-13093.62	361.71	1726960.86	14206124.59	39°07'15.4416"N	80°41'41.4770"W	13098.62	178.418	0.68	-0.19	-0.65	
21026.00	90.370	159.790	7046.31	12600.51	-13182.85	394.30	1726993.44	14206035.39	39°07'14.5585"N	80°41'41.0672"W	13188.75	178.287	0.31	0.06	-0.31	
21120.00	90.430	160.200	7045.65	12694.49	-13271.18	426.46	1727025.58	14205947.10	39°07'13.6845"N	80°41'40.6630"W	13278.03	178.159	0.44	0.06	0.44	
21215.00	90.460	160.170	7044.91	12789.47	-13360.55	458.66	1727057.77	14205857.76	39°07'12.8000"N	80°41'40.2582"W	13368.42	178.034	0.04	0.03	-0.03	
21309.00	90.430	160.380	7044.18	12883.46	-13449.03	490.39	1727089.48	14205769.32	39°07'11.9244"N	80°41'39.8595"W	13457.97	177.912	0.23	-0.03	0.22	
21378.00	90.400	160.240	7043.68	12952.45	-13514.00	513.63	1727112.72	14205704.38	39°07'11.2816"N	80°41'39.5673"W	13523.76	177.823	0.21	-0.04	-0.20	
21403.00†	90.400	160.240	7043.51	12977.45	-13537.53	522.09	1727121.17	14205680.86	39°07'11.0487"N	80°41'39.4611"W	13547.59	177.791	0.00	0.00	0.00	Projected MD at TD: 21403'

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 7.19				Reference: IADC/SPE 59196			
Values	Wellpath characterized as:			Values	Wellpath characterized as:		
< 6.0	Relatively short or simple profiles with low tortuosity			6.4-6.8	Longer with relatively tortuous well paths		
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity			> 6.8	Long tortuous profiles, high degree of difficulty		

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Actual Wellpath Report

Mary Ann Unit 1H AWP Proj: 21403'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mary Ann Unit 1H
Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

HOLE & CASING SECTIONS - Ref Wellbore: Mary Ann Unit 1H AWB Ref Wellpath: Mary Ann Unit 1H AWP Proj: 21403'

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	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.12	-0.22
17 1/2in Open Hole	125.50	825.00	699.50	125.50	824.98	-0.12	-0.22	0.15	-3.29
13 3/8in Casing Surface	25.50	805.00	779.50	25.50	804.99	0.00	0.00	0.27	-2.79
12 1/4in Open Hole	825.00	3911.00	3086.00	824.98	3490.12	0.15	-3.29	-213.46	-1416.86
9 5/8in Casing Intermediate	25.50	3881.00	3855.50	25.50	3467.23	0.00	0.00	-208.24	-1398.18
8 3/4in Open Hole	3911.00	7262.00	3351.00	3490.12	6179.99	-213.46	-1416.86	-622.39	-3369.28
8 1/2in Open Hole	7262.00	21403.00	14141.00	6179.99	7043.51	-622.39	-3369.28	-13537.53	522.09
5 1/2in Casing Production	25.50	21383.00	21357.50	25.50	7043.65	0.00	0.00	-13518.70	515.33

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mary Ann Unit 1H POE Rev-3	7101.00	-1477.23	-3599.77	1723000.94	14217736.41	39°09'10.3859"N	80°42'31.2674"W	point
Mary Ann Unit 1H LP Rev-3	7131.00	-1674.43	-3532.29	1723068.39	14217539.29	39°09'8.4346"N	80°42'30.4189"W	point
Mary Ann Unit 1H POE Rev-1	7178.50	-1477.23	-3599.77	1723000.94	14217736.41	39°09'10.3859"N	80°42'31.2674"W	point
Mary Ann Unit 1H BHL Rev-1	7203.50	-13498.02	513.60	1727112.69	14205720.35	39°07'11.4395"N	80°41'39.5670"W	point
Mary Ann Unit 1H POE Rev-2	7239.00	-1477.23	-3599.77	1723000.94	14217736.41	39°09'10.3859"N	80°42'31.2674"W	point
Mary Ann Unit 1H BHL Rev-2	7264.00	-13498.02	513.60	1727112.69	14205720.35	39°07'11.4395"N	80°41'39.5670"W	point
Mary Ann Unit 1H LP Rev-2	7264.00	-1667.17	-3534.77	1723065.91	14217546.55	39°09'8.5065"N	80°42'30.4501"W	point
Mary Ann Unit 1H BHL Rev-3	7305.50	-13498.02	513.60	1727112.69	14205720.35	39°07'11.4395"N	80°41'39.5670"W	point

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mary Ann Unit 1H 50' L/R Hard Line	7500.00	-7487.63	-1543.08	1725056.82	14211728.38	39°08'10.9135"N	80°42'5.4112"W	rectangle
2D Rectangle: 12705.1 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Mary Ann Unit 1H AWB Ref Wellpath: Mary Ann Unit 1H AWP Proj: 21403'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	738.00	Gyrodatta 2015 - GC+WIR+DPIPE	01_Gyrodatta MS Gyro <17-1/2"> (100'-738')	Mary Ann Unit 1H AWB	2026-01-02
738.00	3832.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (738')(952'-3832')	Mary Ann Unit 1H AWB	2026-01-02
3832.00	7190.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3832')(3974'-7190')	Mary Ann Unit 1H AWB	2026-02-03
7190.00	21403.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH Lucida <8-1/2"> (7190')(7309'-21378')	Mary Ann Unit 1H AWB	2026-02-03



Actual Wellpath Report

Mary Ann Unit 1H AWP Proj: 21403'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mary Ann Unit 1H
Field	Doddridge	UWI	47-017-06992-0000
Facility	Brushy Pad	Wellbore	Mary Ann Unit 1H AWB
Slot	Slot D		

COMMENTS

Wellpath general comments

API: 47-017-06992-0000

BH Job #: 112930771

Rig: H&P 317

Duration: 2/5/2026-2/9/2026

Gyrodata MS Gyro <17-1/2"> (100'-738')

APS EM <12-1/4"> (738')(952'-3832')

APS EM <8-3/4"> (3832')(3974'-7190')

BH Lucida <8-1/2"> (7190')(7309'-21378')

Sycamore: 7897' MD

Middlesex: 8130' MD

Burkett: 8370' MD

Tully: 8463' MD

Marcellus POE: 8700' MD

Projected MD at TD: 21403'

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