

ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Field: Tyler
 Facility: Gamehenge East Pad

Slot: Slot #05
 Well: Maggie Unit 1H
 Wellbore: Maggie Unit 1H PWB

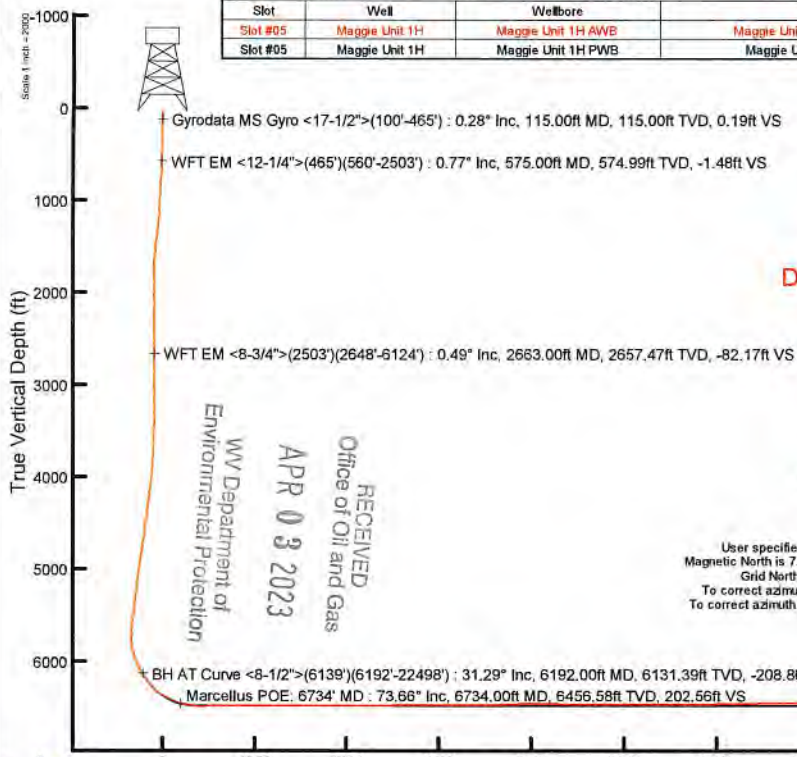


Plot reference wellpath to Maggie Unit 1H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
This vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1091 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #05): -1051 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: delmet on 2020-02-29; Database: WA_MPL_EstimateUS_Data

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Gamehenge East Pad	1672504.896	14347540.047	39°30'34.9460"N	80°53'10.4370"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #05	9.12	11.98	1672516.870	14347549.160
H&P 519 (RKB) to Ground level (At Slot: Slot #05)			30ft	
Mean Sea Level to Ground level (At Slot: Slot #05)			-1061ft	
H&P 519 (RKB) to Mean Sea Level			1091ft	

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6139.00	28.400	353.960	6085.42	-109.54	403.31	6.24	-234.63
Proj. To Bottom	6213.00	34.130	352.170	6148.65	-71.44	398.63	7.84	-187.08
End of 3D Arc	6257.65	33.262	359.417	6185.81	-46.78	396.80	9.21	-173.16
POE	6690.42	70.689	341.038	6449.00	278.24	326.37	9.21	157.11
Landing Pt.	6900.09	90.000	341.038	6484.00	472.80	259.52	9.21	362.83
BHL	22503.35	90.000	341.038	6484.00	15229.38	-4810.50	0.00	15966.09

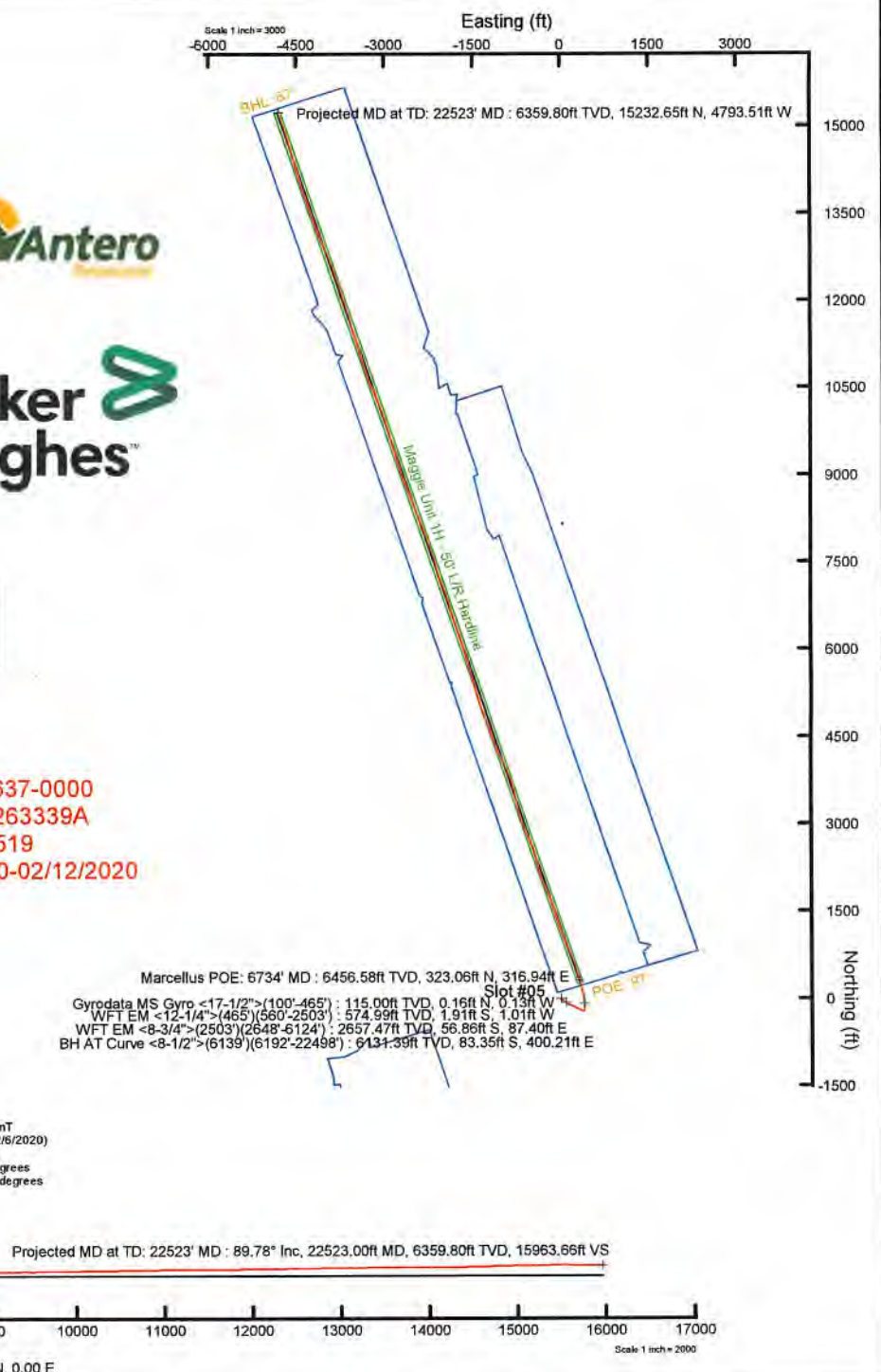
Well Data			
Slot	Well	Wellbore	Wellpath
Slot #05	Maggie Unit 1H	Maggie Unit 1H AWB	Maggie Unit 1H AWB Proj: 22523'
Slot #05	Maggie Unit 1H	Maggie Unit 1H PWB	Maggie Unit 1H PWP Rev-A.0



API: 47-095-02637-0000
 BHI Job #: 110263339A
 Rig: H&P 519
 Duration: 02/08/2020-02/12/2020



User specified (HDGM) Dip: 66.52° Field: 51780 nT
 Magnetic North is 7.56 degrees West of True North (at 2/8/2020)
 Grid North is 0.07 degrees East of True North
 To correct azimuth from True to Grid subtract 0.07 degrees
 To correct azimuth from Magnetic to Grid subtract 7.63 degrees



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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 1H
Field	Tyler	API	47-095-02637-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 1H AWB
Slot	Slot #05		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	2/26/2020 at 4:06:33 PM
Convergence at slot	0.07° 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	9.12	11.98	1672516.87	14347549.16	39°30'35.0360"N	80°53'10.2840"W
Facility Reference Pt			1672504.90	14347540.05	39°30'34.9460"N	80°53'10.4370"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 519 (RKB) to Facility Vertical Datum	1091.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1091.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #05)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.04°

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 2 of 13



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Field	Tyler		API	47-095-02637-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 1H AWB
Slot	Slot #05			

WELLPATH DATA (262 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	0.00	320.860	0.00	0.00	0.00	0.00	1672516.87	14347549.16	39°30'35.0360"N	80°53'10.2840"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	320.860	30.00	0.00	0.00	0.00	1672516.87	14347549.16	39°30'35.0360"N	80°53'10.2840"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.280	320.860	115.00	0.19	0.16	-0.13	1672516.74	14347549.32	39°30'35.0375"N	80°53'10.2857"W	0.21	320.860	0.33	0.33	0.00	Gyrodata MS Gyro <17-1/2">(100'-465')
140.00	0.190	282.720	140.00	0.27	0.22	-0.21	1672516.66	14347549.38	39°30'35.0381"N	80°53'10.2867"W	0.30	316.005	0.70	-0.36	-152.56	
165.00	0.130	279.660	165.00	0.31	0.23	-0.28	1672516.59	14347549.39	39°30'35.0382"N	80°53'10.2876"W	0.36	309.734	0.24	-0.24	-12.24	
190.00	0.180	237.620	190.00	0.31	0.22	-0.34	1672516.53	14347549.38	39°30'35.0381"N	80°53'10.2883"W	0.40	302.362	0.48	0.20	-168.16	
215.00	0.140	239.630	215.00	0.30	0.18	-0.40	1672516.47	14347549.34	39°30'35.0377"N	80°53'10.2891"W	0.44	294.124	0.16	-0.16	8.04	
240.00	0.230	218.140	240.00	0.27	0.12	-0.46	1672516.41	14347549.28	39°30'35.0372"N	80°53'10.2898"W	0.47	285.178	0.45	0.36	-85.96	
265.00	0.210	215.510	265.00	0.21	0.05	-0.51	1672516.36	14347549.21	39°30'35.0364"N	80°53'10.2906"W	0.52	275.232	0.09	-0.08	-10.52	
290.00	0.200	206.410	290.00	0.15	-0.03	-0.56	1672516.31	14347549.13	39°30'35.0357"N	80°53'10.2912"W	0.58	267.005	0.14	-0.04	-36.40	
315.00	0.150	173.590	315.00	0.09	-0.10	-0.58	1672516.29	14347549.06	39°30'35.0350"N	80°53'10.2914"W	0.58	260.061	0.44	-0.20	-131.28	
340.00	0.230	180.150	340.00	0.01	-0.18	-0.57	1672516.30	14347548.98	39°30'35.0341"N	80°53'10.2913"W	0.60	252.214	0.33	0.32	26.24	
365.00	0.290	180.050	365.00	-0.09	-0.30	-0.57	1672516.30	14347548.86	39°30'35.0330"N	80°53'10.2913"W	0.64	242.577	0.24	0.24	-0.40	
390.00	0.320	197.050	390.00	-0.21	-0.43	-0.59	1672516.28	14347548.73	39°30'35.0317"N	80°53'10.2916"W	0.73	234.241	0.38	0.12	68.00	
415.00	0.340	199.890	415.00	-0.33	-0.56	-0.64	1672516.23	14347548.60	39°30'35.0304"N	80°53'10.2922"W	0.85	228.578	0.10	0.08	11.36	
440.00	0.480	213.570	440.00	-0.45	-0.72	-0.72	1672516.15	14347548.44	39°30'35.0288"N	80°53'10.2932"W	1.02	225.052	0.68	0.56	54.72	
465.00	0.410	215.750	465.00	-0.56	-0.88	-0.83	1672516.04	14347548.28	39°30'35.0273"N	80°53'10.2946"W	1.21	223.382	0.29	-0.28	8.72	
480.00	0.420	209.350	480.00	-0.63	-0.97	-0.89	1672515.98	14347548.19	39°30'35.0264"N	80°53'10.2954"W	1.32	222.493	0.32	0.07	-42.67	
575.00	0.770	175.230	574.99	-1.48	-1.91	-1.01	1672515.86	14347547.25	39°30'35.0171"N	80°53'10.2969"W	2.16	207.802	0.51	0.37	-35.92	WFT EM <12-1/4">(465')(560'-2503')
666.00	2.330	143.480	665.96	-3.84	-4.01	0.14	1672517.01	14347545.15	39°30'34.9963"N	80°53'10.2822"W	4.01	177.945	1.89	1.71	-34.89	
759.00	3.960	132.390	758.81	-8.46	-7.69	3.64	1672520.51	14347541.47	39°30'34.9599"N	80°53'10.2377"W	8.51	154.671	1.86	1.75	-11.92	
841.00	4.620	118.580	840.59	-13.38	-11.18	8.63	1672525.50	14347537.98	39°30'34.9253"N	80°53'10.1741"W	14.13	142.330	1.49	0.80	-16.84	
970.00	5.340	114.300	969.10	-21.33	-16.14	18.67	1672535.53	14347533.03	39°30'34.8762"N	80°53'10.0461"W	24.67	130.844	0.63	0.56	-3.32	
1065.00	5.490	110.100	1063.67	-27.22	-19.52	26.96	1672543.82	14347529.65	39°30'34.8427"N	80°53'9.9403"W	33.29	125.900	0.45	0.16	-4.42	
1160.00	6.320	114.050	1158.17	-33.65	-23.21	36.01	1672552.86	14347525.96	39°30'34.8061"N	80°53'9.8250"W	42.84	122.807	0.97	0.87	4.16	
1255.00	6.880	123.170	1252.54	-41.71	-28.45	45.54	1672562.39	14347520.72	39°30'34.7542"N	80°53'9.7034"W	53.70	121.996	1.25	0.59	9.60	
1349.00	7.560	133.010	1345.80	-51.61	-35.75	54.78	1672571.63	14347513.42	39°30'34.6819"N	80°53'9.5857"W	65.41	123.132	1.50	0.72	10.47	
1444.00	7.070	134.630	1440.03	-62.36	-44.12	63.51	1672580.35	14347505.05	39°30'34.5991"N	80°53'9.4745"W	77.33	124.790	0.56	-0.52	1.71	
1539.00	6.760	132.620	1534.34	-72.52	-52.02	71.78	1672588.62	14347497.16	39°30'34.5210"N	80°53'9.3690"W	88.65	125.928	0.41	-0.33	-2.12	
1634.00	4.790	135.130	1628.85	-81.00	-58.61	78.70	1672595.54	14347490.57	39°30'34.4557"N	80°53'9.2609"W	98.13	126.679	2.09	-2.07	2.64	

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 3 of 13



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Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 1H
Field	Tyler		API	47-095-02637-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 1H AWB
Slot	Slot #05			

WELLPATH DATA (262 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
1729.00	1.530	169.050	1723.70	-85.83	-62.67	81.74	1672598.57	14347486.51	39°30'34.4155"N	80°53'9.2422"W	103.00	127.479	3.81	-3.43	35.71	
1823.00	1.740	265.100	1817.67	-86.72	-64.03	80.55	1672597.39	14347485.16	39°30'34.4022"N	80°53'9.2573"W	102.90	128.479	2.59	0.22	102.18	
1918.00	1.730	302.420	1912.63	-85.25	-63.38	77.91	1672594.74	14347485.80	39°30'34.4086"N	80°53'9.2911"W	100.43	129.130	1.17	-0.01	39.28	
2013.00	1.550	7.580	2007.60	-82.98	-61.34	76.86	1672593.70	14347487.85	39°30'34.4288"N	80°53'9.3043"W	98.34	128.590	1.87	-0.19	68.59	
2107.00	1.500	47.670	2101.57	-81.36	-59.25	77.94	1672594.78	14347489.93	39°30'34.4494"N	80°53'9.2905"W	97.91	127.241	1.11	-0.05	42.65	
2202.00	1.470	75.710	2196.54	-80.96	-58.11	80.04	1672596.88	14347491.07	39°30'34.4606"N	80°53'9.2637"W	98.91	125.980	0.76	-0.03	29.52	
2297.00	1.160	80.530	2291.52	-81.22	-57.65	82.17	1672599.01	14347491.53	39°30'34.4651"N	80°53'9.2366"W	100.38	125.054	0.35	-0.33	5.07	
2392.00	0.960	79.340	2386.50	-81.50	-57.35	83.90	1672600.74	14347491.84	39°30'34.4681"N	80°53'9.2145"W	101.63	124.352	0.21	-0.21	-1.25	
2486.00	0.890	82.340	2480.49	-81.75	-57.10	85.40	1672602.24	14347492.08	39°30'34.4705"N	80°53'9.1954"W	102.73	123.769	0.09	-0.07	3.19	
2518.00	0.750	87.400	2512.48	-81.86	-57.06	85.85	1672602.69	14347492.12	39°30'34.4709"N	80°53'9.1896"W	103.09	123.609	0.49	-0.44	15.81	
2663.00	0.490	75.150	2657.47	-82.17	-56.86	87.40	1672604.24	14347492.32	39°30'34.4729"N	80°53'9.1698"W	104.27	123.046	0.20	-0.18	-8.45	WFT EM <8-3/4">(2503')(2648'-6124')
2759.00	0.800	53.980	2753.47	-82.00	-56.36	88.34	1672605.18	14347492.82	39°30'34.4778"N	80°53'9.1578"W	104.79	122.537	0.40	0.32	-22.05	
2852.00	0.480	206.480	2846.47	-82.09	-56.33	88.69	1672605.53	14347492.86	39°30'34.4781"N	80°53'9.1533"W	105.07	122.419	1.34	-0.34	163.98	
2947.00	1.000	214.740	2941.46	-82.86	-57.36	88.04	1672604.88	14347491.82	39°30'34.4679"N	80°53'9.1616"W	105.08	123.086	0.56	0.55	8.69	
3042.00	0.660	206.640	3036.45	-83.73	-58.53	87.32	1672604.16	14347490.65	39°30'34.4563"N	80°53'9.1708"W	105.13	123.834	0.38	-0.36	-8.53	
3136.00	0.730	213.630	3130.44	-84.47	-59.52	86.75	1672603.59	14347489.67	39°30'34.4466"N	80°53'9.1782"W	105.20	124.453	0.12	0.07	7.44	
3231.00	0.510	187.800	3225.44	-85.22	-60.44	86.36	1672603.19	14347488.74	39°30'34.4375"N	80°53'9.1832"W	105.41	124.987	0.37	-0.23	-27.19	
3330.00	0.500	182.000	3324.43	-86.02	-61.31	86.28	1672603.12	14347487.88	39°30'34.4289"N	80°53'9.1842"W	105.85	125.395	0.05	-0.01	-5.86	
3424.00	0.400	190.520	3418.43	-86.68	-62.04	86.21	1672603.04	14347487.14	39°30'34.4217"N	80°53'9.1851"W	106.21	125.741	0.13	-0.11	9.06	
3519.00	0.680	144.520	3513.42	-87.51	-62.83	86.48	1672603.31	14347486.36	39°30'34.4139"N	80°53'9.1817"W	106.89	125.999	0.52	0.29	-48.42	
3614.00	3.870	120.660	3608.34	-90.50	-64.92	89.56	1672606.40	14347484.27	39°30'34.3932"N	80°53'9.1424"W	110.62	125.937	3.43	3.36	-25.12	
3709.00	4.070	117.480	3703.11	-95.38	-68.11	95.31	1672612.14	14347481.08	39°30'34.3616"N	80°53'9.0691"W	117.15	125.550	0.31	0.21	-3.35	
3804.00	3.760	116.870	3797.89	-100.06	-71.07	101.08	1672617.91	14347478.11	39°30'34.3322"N	80°53'8.9955"W	123.57	125.113	0.33	-0.33	-0.64	
3898.00	5.840	116.550	3891.55	-105.68	-74.60	108.11	1672624.93	14347474.58	39°30'34.2973"N	80°53'8.9059"W	131.35	124.609	2.21	2.21	-0.34	
3993.00	8.020	115.230	3985.85	-113.75	-79.59	118.43	1672635.25	14347469.60	39°30'34.2478"N	80°53'8.7743"W	142.69	123.904	2.30	2.29	-1.39	
4087.00	10.190	121.200	4078.67	-124.71	-86.69	131.47	1672648.29	14347462.50	39°30'34.1775"N	80°53'8.6080"W	157.48	123.401	2.51	2.31	6.35	
4182.00	10.160	119.270	4172.17	-137.41	-95.14	145.97	1672662.78	14347454.05	39°30'34.0938"N	80°53'8.4232"W	174.24	123.096	0.36	-0.03	-2.03	
4277.00	9.520	117.300	4265.78	-149.33	-102.84	160.26	1672677.07	14347446.36	39°30'34.0175"N	80°53'8.2410"W	190.42	122.689	0.76	-0.67	-2.07	
4372.00	9.340	116.080	4359.49	-160.47	-109.84	174.17	1672690.97	14347439.37	39°30'33.9482"N	80°53'8.0637"W	205.91	122.237	0.28	-0.19	-1.28	
4466.00	10.720	119.350	4452.05	-172.39	-117.48	188.64	1672705.43	14347431.73	39°30'33.8725"N	80°53'7.8792"W	222.23	121.913	1.59	1.47	3.48	

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Page 4 of 13



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Facility	Gamehenge East Pad		Wellbore	Maggie Unit 1H AWB
Slot	Slot #05			

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4561.00	10.500	117.240	4545.43	-185.24	-125.77	204.04	1672720.82	14347423.44	39°30'33.7904"N	80°53'7.6829"W	239.68	121.650	0.47	-0.23	-2.22	
4655.00	10.500	116.190	4637.86	-197.49	-133.47	219.34	1672736.12	14347415.75	39°30'33.7141"N	80°53'7.4878"W	256.75	121.321	0.20	0.00	-1.12	
4750.00	10.570	120.430	4731.26	-210.24	-141.70	234.62	1672751.39	14347407.51	39°30'33.6325"N	80°53'7.2929"W	274.09	121.131	0.82	0.07	4.46	
4845.00	10.540	121.340	4824.65	-223.54	-150.63	249.55	1672766.32	14347398.59	39°30'33.5441"N	80°53'7.1026"W	291.49	121.116	0.18	-0.03	0.96	
4939.00	10.470	118.050	4917.07	-236.41	-159.12	264.43	1672781.20	14347390.10	39°30'33.4600"N	80°53'6.9128"W	306.62	121.037	0.64	-0.07	-3.50	
5034.00	10.600	115.980	5010.47	-248.89	-167.01	279.90	1672796.66	14347382.22	39°30'33.3818"N	80°53'6.7156"W	325.94	120.823	0.42	0.14	-2.18	
5130.00	9.630	118.870	5104.98	-261.08	-174.75	294.87	1672811.63	14347374.48	39°30'33.3051"N	80°53'6.5247"W	342.77	120.653	1.14	-1.01	3.01	
5225.00	9.390	116.620	5198.67	-272.50	-182.06	308.76	1672825.51	14347367.17	39°30'33.2327"N	80°53'6.3476"W	358.44	120.526	0.47	-0.25	-2.37	
5319.00	9.780	120.080	5291.36	-284.01	-189.50	322.53	1672839.27	14347359.74	39°30'33.1590"N	80°53'6.1722"W	374.08	120.436	0.74	0.41	3.68	
5414.00	9.630	120.310	5385.00	-296.13	-197.55	336.37	1672853.10	14347351.68	39°30'33.0792"N	80°53'5.9957"W	390.09	120.427	0.16	-0.16	0.24	
5509.00	9.350	118.450	5478.70	-307.83	-205.24	350.01	1672866.74	14347344.00	39°30'33.0031"N	80°53'5.8217"W	405.75	120.387	0.44	-0.29	-1.96	
5635.00	9.370	116.130	5603.03	-322.63	-214.63	368.22	1672884.94	14347334.61	39°30'32.9100"N	80°53'5.5896"W	426.21	120.238	0.30	0.02	-1.84	
5730.00	7.580	97.650	5697.00	-330.91	-218.88	381.36	1672898.09	14347330.37	39°30'32.8679"N	80°53'5.4218"W	439.72	119.852	3.41	-1.88	-19.45	
5762.00	7.350	71.720	5728.74	-331.88	-218.51	385.41	1672902.13	14347330.73	39°30'32.8715"N	80°53'5.3703"W	443.05	119.552	10.46	-0.72	-81.03	
5793.00	8.750	50.370	5759.44	-331.07	-216.39	389.11	1672905.83	14347332.86	39°30'32.8924"N	80°53'5.3230"W	445.23	119.079	10.57	4.52	-68.87	
5825.00	10.930	38.400	5790.97	-328.58	-212.46	392.87	1672909.59	14347336.79	39°30'32.9312"N	80°53'5.2750"W	446.64	118.404	9.31	6.81	-37.41	
5856.00	12.530	29.490	5821.33	-324.76	-207.23	396.35	1672913.07	14347342.02	39°30'32.9829"N	80°53'5.2305"W	447.26	117.602	7.78	5.16	-28.74	
5888.00	13.930	18.300	5852.48	-319.39	-200.55	399.27	1672915.98	14347348.69	39°30'33.0489"N	80°53'5.1932"W	446.81	116.669	9.10	4.37	-34.97	
5951.00	17.720	8.670	5913.09	-304.86	-183.86	403.10	1672919.81	14347365.37	39°30'33.2137"N	80°53'5.1440"W	443.05	114.518	7.30	6.02	-15.29	
6014.00	22.070	2.490	5972.32	-285.33	-162.54	405.06	1672921.77	14347386.68	39°30'33.4244"N	80°53'5.1187"W	436.46	111.865	7.66	6.90	-9.81	
6077.00	25.100	358.460	6030.06	-261.56	-137.35	405.22	1672921.92	14347411.86	39°30'33.6733"N	80°53'5.1163"W	427.86	108.725	5.45	4.81	-6.40	
6139.00	28.400	353.960	6085.42	-234.63	-109.54	403.31	1672920.02	14347439.67	39°30'33.9483"N	80°53'5.1401"W	417.92	105.195	6.24	5.32	-7.26	
6192.00	31.290	352.570	6131.39	-208.86	-83.35	400.21	1672916.91	14347465.84	39°30'34.2072"N	80°53'5.1794"W	408.79	101.765	5.61	5.45	-2.62	BH AT Curve <8-1/2">(6139')(6192'-22498')
6289.00	36.360	352.310	6211.94	-155.94	-29.84	393.10	1672909.81	14347519.33	39°30'34.7361"N	80°53'5.2692"W	394.23	94.341	5.23	5.23	-0.27	
6383.00	44.140	351.580	6283.63	-96.34	30.24	384.56	1672901.28	14347579.39	39°30'35.3300"N	80°53'5.3771"W	385.75	85.503	8.29	8.28	-0.78	
6421.00†	47.684	350.858	6310.07	-69.48	57.21	380.39	1672897.11	14347606.35	39°30'35.5966"N	80°53'5.4299"W	384.67	81.446	9.42	9.33	-1.90	Middlesex: 6421' MD
6479.00	53.100	349.900	6347.03	-25.41	101.25	372.91	1672889.63	14347650.37	39°30'36.0319"N	80°53'5.5246"W	386.41	74.810	9.42	9.34	-1.65	
6526.00	58.240	348.060	6373.53	13.02	139.33	365.48	1672882.20	14347688.43	39°30'36.4084"N	80°53'5.6188"W	391.13	69.132	11.40	10.94	-3.91	
6570.00†	62.465	346.091	6395.29	51.04	176.58	356.91	1672873.64	14347725.67	39°30'36.7767"N	80°53'5.7275"W	398.21	63.676	10.36	9.60	-4.47	Burkett: 6570' MD
6574.00	62.850	345.920	6397.13	54.58	180.03	356.05	1672872.78	14347729.12	39°30'36.8108"N	80°53'5.7384"W	398.98	63.177	10.36	9.64	-4.28	

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 APR 03 2023



Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 1H
Field	Tyler		API	47-095-02637-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 1H AWB
Slot	Slot #05			

WELLPATH DATA (262 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
6618.00†	65.724	344.797	6416.22	94.11	218.38	346.03	1672862.76	14347767.45	39°30'37.1899"N	80°53'5.8656"W	409.18	57.744	6.93	6.53	-2.55	Tully: 6618' MD
6668.00	69.000	343.580	6435.46	140.18	262.77	333.45	1672850.19	14347811.83	39°30'37.6289"N	80°53'6.0254"W	424.55	51.760	6.93	6.55	-2.43	
6734.00†	73.663	345.749	6456.58	202.56	323.06	316.94	1672833.68	14347872.09	39°30'38.2249"N	80°53'6.2351"W	452.57	44.452	7.72	7.07	3.29	Marcellus POE: 6734' MD
6764.00	75.790	346.700	6464.49	231.38	351.16	310.05	1672826.79	14347900.18	39°30'38.5027"N	80°53'6.3226"W	468.45	41.442	7.72	7.09	3.17	
6858.00	83.650	345.760	6481.25	323.42	440.92	288.04	1672804.79	14347989.91	39°30'39.3901"N	80°53'6.6019"W	526.67	33.155	8.42	8.36	-1.00	
6953.00	90.550	342.800	6486.05	418.07	532.19	262.34	1672779.11	14348081.13	39°30'40.2924"N	80°53'6.9282"W	593.34	26.241	7.90	7.26	-3.12	
7049.00	91.450	339.800	6484.38	514.05	623.09	231.57	1672748.35	14348172.00	39°30'41.1913"N	80°53'7.3193"W	664.73	20.388	3.26	0.94	-3.12	
7144.00	90.250	335.900	6482.97	608.87	711.05	195.77	1672712.56	14348259.93	39°30'42.0611"N	80°53'7.7748"W	737.51	15.393	4.29	-1.26	-4.11	
7239.00	90.060	337.150	6482.71	703.57	798.19	157.93	1672674.73	14348347.03	39°30'42.9227"N	80°53'8.2562"W	813.66	11.192	1.33	-0.20	1.32	
7334.00	90.180	337.120	6482.51	798.35	885.72	121.01	1672637.83	14348434.53	39°30'43.7883"N	80°53'8.7257"W	893.95	7.780	0.13	0.13	-0.03	
7429.00	89.910	337.540	6482.44	893.15	973.38	84.40	1672601.23	14348522.15	39°30'44.6552"N	80°53'9.1915"W	977.04	4.955	0.53	-0.28	0.44	
7524.00	89.940	338.630	6482.56	988.02	1061.52	48.94	1672565.79	14348610.25	39°30'45.5267"N	80°53'9.6425"W	1062.65	2.640	1.15	0.03	1.15	
7619.00	89.940	340.180	6482.66	1082.98	1150.44	15.52	1672532.39	14348699.14	39°30'46.4060"N	80°53'10.0674"W	1150.55	0.773	1.63	0.00	1.63	
7713.00	89.910	341.070	6482.78	1176.98	1239.12	-15.66	1672501.22	14348787.78	39°30'47.2828"N	80°53'10.4638"W	1239.22	359.276	0.95	-0.03	0.95	
7808.00	89.880	341.170	6482.96	1271.98	1329.01	-46.40	1672470.49	14348877.64	39°30'48.1716"N	80°53'10.8546"W	1329.82	358.000	0.11	-0.03	0.11	
7903.00	89.820	342.830	6483.21	1366.96	1419.35	-75.76	1672441.14	14348967.95	39°30'49.0649"N	80°53'11.2277"W	1421.37	356.945	1.75	-0.06	1.75	
7997.00	89.850	342.550	6483.48	1460.92	1509.10	-103.72	1672413.19	14349057.65	39°30'49.9522"N	80°53'11.5831"W	1512.66	356.068	0.30	0.03	-0.30	
8093.00	90.280	341.990	6483.37	1556.90	1600.54	-132.96	1672383.96	14349149.05	39°30'50.8562"N	80°53'11.9547"W	1606.05	355.251	0.74	0.45	-0.58	
8187.00	90.490	339.480	6482.74	1650.89	1689.26	-163.97	1672352.97	14349237.75	39°30'51.7335"N	80°53'12.3489"W	1697.20	354.456	2.68	0.22	-2.67	
8282.00	89.970	337.320	6482.36	1745.78	1777.59	-198.94	1672318.01	14349326.03	39°30'52.6069"N	80°53'12.7937"W	1788.68	353.614	2.34	-0.55	-2.27	
8377.00	90.620	335.240	6481.87	1840.45	1864.55	-237.15	1672279.81	14349412.97	39°30'53.4669"N	80°53'13.2799"W	1879.58	352.751	2.29	0.68	-2.19	
8471.00	89.910	335.700	6481.43	1934.00	1950.07	-276.18	1672240.80	14349498.45	39°30'54.3126"N	80°53'13.7765"W	1969.53	351.939	0.90	-0.76	0.49	
8565.00	89.690	338.600	6481.76	2027.77	2036.68	-312.68	1672204.32	14349585.03	39°30'55.1690"N	80°53'14.2408"W	2060.54	351.272	3.09	-0.23	3.09	
8660.00	89.660	343.110	6482.30	2122.75	2126.40	-343.82	1672173.18	14349674.71	39°30'56.0562"N	80°53'14.6368"W	2154.02	350.815	4.75	-0.03	4.75	
8754.00	90.430	347.870	6482.23	2216.44	2217.38	-367.37	1672149.65	14349765.65	39°30'56.9556"N	80°53'14.9357"W	2247.60	350.593	5.13	0.82	5.06	
8849.00	90.370	349.300	6481.56	2310.61	2310.49	-386.17	1672130.86	14349858.73	39°30'57.8761"N	80°53'15.1741"W	2342.54	350.511	1.51	-0.06	1.51	
8944.00	90.920	345.890	6480.49	2404.97	2403.26	-406.57	1672110.46	14349951.45	39°30'58.7932"N	80°53'15.4330"W	2437.40	350.398	3.64	0.58	-3.59	
9038.00	91.660	342.920	6478.38	2498.77	2493.76	-431.83	1672085.21	14350041.92	39°30'59.6880"N	80°53'15.7539"W	2530.88	350.176	3.26	0.79	-3.16	
9133.00	92.160	340.510	6475.21	2593.70	2583.91	-461.62	1672055.44	14350132.03	39°31'0.5793"N	80°53'16.1325"W	2624.82	349.871	2.59	0.53	-2.54	
9227.00	90.710	336.760	6472.85	2687.57	2671.40	-495.85	1672021.22	14350219.49	39°31'1.4445"N	80°53'16.5679"W	2717.03	349.485	4.28	-1.54	-3.99	

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 1H
Field	Tyler	API	47-095-02637-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (262 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
9321.00	89.910	336.210	6472.35	2781.27	2757.59	-533.35	1671983.73	14350305.65	39°31'2.2968"N	80°53'17.0451"W	2808.70	349.053	1.03	-0.85	-0.59	
9415.00	89.720	337.930	6472.65	2875.04	2844.16	-569.97	1671947.13	14350392.18	39°31'3.1528"N	80°53'17.5110"W	2900.71	348.668	1.84	-0.20	1.83	
9509.00	89.780	335.980	6473.06	2968.80	2930.66	-606.77	1671910.35	14350478.64	39°31'4.0081"N	80°53'17.9791"W	2992.81	348.303	2.08	0.06	-2.07	
9604.00	89.690	336.490	6473.50	3063.46	3017.60	-645.05	1671872.08	14350565.55	39°31'4.8679"N	80°53'18.4662"W	3085.77	347.934	0.55	-0.09	0.54	
9698.00	89.600	340.660	6474.08	3157.35	3105.08	-679.38	1671837.76	14350653.00	39°31'5.7329"N	80°53'18.9029"W	3178.54	347.658	4.44	-0.10	4.44	
9792.00	89.380	344.060	6474.92	3251.31	3194.65	-707.86	1671809.29	14350742.53	39°31'6.6184"N	80°53'19.2649"W	3272.13	347.506	3.62	-0.23	3.62	
9886.00	90.090	347.820	6475.35	3344.95	3285.81	-730.69	1671786.47	14350833.66	39°31'7.5197"N	80°53'19.5548"W	3366.08	347.463	4.07	0.76	4.00	
9980.00	90.150	349.320	6475.16	3438.14	3377.95	-749.32	1671767.85	14350925.75	39°31'8.4305"N	80°53'19.7910"W	3460.06	347.493	1.60	0.06	1.60	
10074.00	90.310	348.110	6474.78	3531.29	3470.13	-767.71	1671749.47	14351017.89	39°31'9.3418"N	80°53'20.0243"W	3554.03	347.525	1.30	0.17	-1.29	
10169.00	91.140	348.370	6473.58	3625.53	3563.12	-787.07	1671730.11	14351110.85	39°31'10.2612"N	80°53'20.2698"W	3649.02	347.544	0.92	0.87	0.27	
10264.00	92.370	346.330	6470.67	3719.91	3655.77	-807.87	1671709.33	14351203.46	39°31'11.1771"N	80°53'20.5337"W	3743.97	347.539	2.51	1.29	-2.15	
10359.00	92.030	340.930	6467.02	3814.71	3746.81	-834.61	1671682.59	14351294.47	39°31'12.0772"N	80°53'20.8736"W	3838.64	347.442	5.69	-0.36	-5.68	
10454.00	90.950	336.570	6464.55	3909.57	3835.30	-869.02	1671648.20	14351382.93	39°31'12.9522"N	80°53'21.3113"W	3932.52	347.233	4.73	-1.14	-4.59	
10549.00	90.310	335.080	6463.50	4004.17	3921.96	-907.92	1671609.31	14351469.55	39°31'13.8092"N	80°53'21.8063"W	4025.68	346.966	1.71	-0.67	-1.57	
10644.00	90.090	333.430	6463.17	4098.50	4007.53	-949.19	1671568.06	14351555.08	39°31'14.6554"N	80°53'22.3315"W	4118.40	346.675	1.75	-0.23	-1.74	
10738.00	89.820	331.780	6463.24	4191.48	4090.98	-992.44	1671524.83	14351638.50	39°31'15.4807"N	80°53'22.8821"W	4209.64	346.364	1.78	-0.29	-1.76	
10833.00	88.620	334.530	6464.54	4285.56	4175.73	-1035.33	1671481.96	14351723.22	39°31'16.3188"N	80°53'23.4281"W	4302.16	346.075	3.16	-1.26	2.89	
10928.00	86.830	338.310	6468.31	4380.16	4262.71	-1073.29	1671444.01	14351810.16	39°31'17.1789"N	80°53'23.9112"W	4395.75	345.867	4.40	-1.88	3.98	
11023.00	90.000	342.250	6470.94	4475.08	4352.07	-1105.32	1671411.99	14351899.49	39°31'18.0625"N	80°53'24.3185"W	4490.24	345.750	5.32	3.34	4.15	
11117.00	90.180	341.100	6470.79	4569.08	4441.31	-1134.88	1671382.45	14351988.69	39°31'18.9447"N	80°53'24.6943"W	4584.01	345.666	1.24	0.19	-1.22	
11212.00	89.690	340.080	6470.90	4664.07	4530.90	-1166.45	1671350.89	14352078.25	39°31'19.8307"N	80°53'25.0958"W	4678.64	345.563	1.19	-0.52	-1.07	
11307.00	90.490	342.650	6470.75	4759.06	4620.92	-1196.80	1671320.55	14352168.22	39°31'20.7206"N	80°53'25.4817"W	4773.38	345.480	2.83	0.84	2.71	
11402.00	90.430	336.860	6469.99	4853.99	4710.01	-1229.66	1671287.70	14352257.28	39°31'21.6015"N	80°53'25.8996"W	4867.88	345.368	6.09	-0.06	-6.09	
11497.00	89.780	334.080	6469.81	4948.54	4796.42	-1269.10	1671248.28	14352343.66	39°31'22.4561"N	80°53'26.4015"W	4961.48	345.180	3.01	-0.68	-2.93	
11592.00	90.280	337.880	6469.76	5043.15	4883.18	-1307.76	1671209.63	14352430.38	39°31'23.3140"N	80°53'26.8936"W	5055.26	345.007	4.03	0.53	4.00	
11687.00	89.600	338.750	6469.86	5138.04	4971.45	-1342.86	1671174.55	14352518.62	39°31'24.1869"N	80°53'27.3401"W	5149.63	344.884	1.16	-0.72	0.92	
11782.00	90.460	342.970	6469.81	5233.02	5061.18	-1374.00	1671143.42	14352608.31	39°31'25.0741"N	80°53'27.7361"W	5244.37	344.811	4.53	0.91	4.44	
11877.00	90.710	343.910	6468.84	5327.93	5152.24	-1401.08	1671116.35	14352699.33	39°31'25.9743"N	80°53'28.0802"W	5339.34	344.787	1.02	0.26	0.99	
11971.00	90.030	344.110	6468.23	5421.80	5242.60	-1426.97	1671090.47	14352789.66	39°31'26.8677"N	80°53'28.4093"W	5433.33	344.774	0.75	-0.72	0.21	
12066.00	90.220	343.740	6468.03	5516.68	5333.88	-1453.28	1671064.17	14352880.90	39°31'27.7702"N	80°53'28.7435"W	5528.32	344.759	0.44	0.20	-0.39	



Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 1H
Field	Tyler		API	47-095-02637-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 1H AWP
Slot	Slot #05			

WELLPATH DATA (262 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
12160.00	90.000	344.380	6467.85	5610.55	5424.27	-1479.09	1671038.37	14352971.25	39°31'28.6638"N	80°53'29.0716"W	5622.31	344.747	0.72	-0.23	0.68	
12255.00	90.250	344.480	6467.64	5705.38	5515.78	-1504.59	1671012.88	14353062.73	39°31'29.5685"N	80°53'29.3956"W	5717.31	344.742	0.28	0.26	0.11	
12350.00	90.550	343.360	6466.98	5800.25	5607.06	-1530.90	1670986.58	14353153.97	39°31'30.4710"N	80°53'29.7300"W	5812.30	344.729	1.22	0.32	-1.18	
12444.00	90.150	342.770	6466.40	5894.19	5696.98	-1558.28	1670959.21	14353243.86	39°31'31.3601"N	80°53'30.0780"W	5906.25	344.702	0.76	-0.43	-0.63	
12539.00	90.980	345.340	6465.46	5989.05	5788.31	-1584.38	1670933.13	14353335.15	39°31'32.2630"N	80°53'30.4096"W	6001.24	344.692	2.84	0.87	2.71	
12634.00	90.710	345.130	6464.06	6083.78	5880.17	-1608.59	1670908.93	14353426.97	39°31'33.1711"N	80°53'30.7171"W	6096.22	344.700	0.36	-0.28	-0.22	
12728.00	90.830	343.390	6462.80	6177.62	5970.63	-1634.08	1670883.44	14353517.40	39°31'34.0655"N	80°53'31.0411"W	6190.21	344.694	1.86	0.13	-1.85	
12822.00	91.230	342.690	6461.11	6271.55	6060.53	-1661.50	1670856.04	14353607.26	39°31'34.9543"N	80°53'31.3896"W	6284.15	344.669	0.86	0.43	-0.74	
12916.00	90.830	340.360	6459.42	6365.53	6149.66	-1691.28	1670826.27	14353696.36	39°31'35.8356"W	80°53'31.7683"W	6377.99	344.623	2.51	-0.43	-2.48	
13010.00	90.680	340.870	6458.18	6459.51	6238.32	-1722.48	1670795.08	14353784.98	39°31'36.7123"N	80°53'32.1650"W	6471.75	344.565	0.57	-0.16	0.54	
13104.00	90.740	340.660	6457.02	6553.51	6327.07	-1753.44	1670764.13	14353873.69	39°31'37.5897"N	80°53'32.5589"W	6565.54	344.510	0.23	0.06	-0.22	
13198.00	90.860	341.540	6455.70	6647.50	6415.99	-1783.89	1670733.70	14353962.58	39°31'38.4689"N	80°53'32.9460"W	6659.37	344.462	0.94	0.13	0.94	
13293.00	90.740	343.220	6454.38	6742.46	6506.52	-1812.64	1670704.96	14354053.07	39°31'39.3640"N	80°53'33.3116"W	6754.30	344.433	1.77	-0.13	1.77	
13388.00	90.650	343.530	6453.23	6837.37	6597.54	-1839.82	1670677.79	14354144.06	39°31'40.2639"N	80°53'33.6570"W	6849.27	344.418	0.34	-0.09	0.33	
13483.00	90.580	343.500	6452.21	6932.28	6688.63	-1866.77	1670650.84	14354235.11	39°31'41.1645"N	80°53'33.9997"W	6944.26	344.406	0.08	-0.07	-0.03	
13577.00	90.830	343.900	6451.05	7026.17	6778.85	-1893.15	1670624.47	14354325.29	39°31'42.0565"N	80°53'34.3350"W	7038.24	344.396	0.50	0.27	0.43	
13672.00	90.520	341.750	6449.93	7121.11	6869.60	-1921.20	1670596.44	14354416.01	39°31'42.9537"N	80°53'34.6915"W	7133.19	344.375	2.29	-0.33	-2.26	
13766.00	90.520	339.970	6449.08	7215.10	6958.40	-1952.02	1670565.63	14354504.77	39°31'43.8317"N	80°53'35.0835"W	7227.01	344.330	1.89	0.00	-1.89	
13862.00	90.340	338.430	6448.36	7311.05	7048.14	-1986.11	1670531.56	14354594.47	39°31'44.7190"N	80°53'35.5172"W	7322.63	344.263	1.62	-0.19	-1.60	
13956.00	90.460	337.100	6447.70	7404.89	7135.14	-2021.68	1670496.00	14354681.44	39°31'45.5793"N	80°53'35.9698"W	7416.03	344.180	1.42	0.13	-1.41	
14051.00	90.310	338.560	6447.06	7499.73	7223.11	-2057.53	1670460.17	14354769.38	39°31'46.4492"N	80°53'36.4259"W	7510.44	344.100	1.54	-0.16	1.54	
14147.00	90.460	343.050	6446.42	7595.71	7313.75	-2089.08	1670428.63	14354859.98	39°31'47.3453"N	80°53'36.8273"W	7606.26	344.059	4.68	0.16	4.68	
14241.00	90.770	346.950	6445.41	7689.46	7404.53	-2113.40	1670404.31	14354950.72	39°31'48.2428"N	80°53'37.1363"W	7700.23	344.070	4.16	0.33	4.15	
14336.00	90.680	345.950	6444.21	7784.03	7496.87	-2135.66	1670382.07	14355043.03	39°31'49.1557"N	80°53'37.4190"W	7795.14	344.099	1.06	-0.09	-1.05	
14430.00	90.620	343.490	6443.14	7877.82	7587.54	-2160.43	1670357.31	14355133.66	39°31'50.0521"N	80°53'37.7337"W	7889.12	344.107	2.62	-0.06	-2.62	
14524.00	90.460	341.290	6442.25	7971.78	7677.12	-2188.86	1670328.88	14355223.21	39°31'50.9378"N	80°53'38.0953"W	7983.07	344.086	2.35	-0.17	-2.34	
14619.00	90.220	338.570	6441.69	8066.76	7766.34	-2221.46	1670296.30	14355312.39	39°31'51.8200"N	80°53'38.5099"W	8077.81	344.038	2.87	-0.25	-2.86	
14712.00	90.340	337.910	6441.23	8159.64	7852.72	-2255.94	1670261.84	14355398.73	39°31'52.6740"N	80°53'38.9487"W	8170.34	343.972	0.72	0.13	-0.71	
14808.00	90.550	339.070	6440.49	8255.54	7942.02	-2291.14	1670226.65	14355488.00	39°31'53.5571"N	80°53'39.3965"W	8265.90	343.908	1.23	0.22	1.21	
14903.00	90.950	340.560	6439.25	8350.51	8031.18	-2323.91	1670193.89	14355577.12	39°31'54.4386"N	80°53'39.8135"W	8360.65	343.862	1.62	0.42	1.57	

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 1H
Field	Tyler		API	47-095-02637-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 1H AWB
Slot	Slot #05			

WELLPATH DATA (262 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
14997.00	90.520	339.590	6438.04	8444.49	8119.54	-2355.94	1670161.87	14355665.45	39°31'55.3123"N	80°53'40.2210"W	8454.43	343.820	1.13	-0.46	-1.03	
15091.00	90.250	338.380	6437.41	8538.42	8207.29	-2389.65	1670128.18	14355753.16	39°31'56.1799"N	80°53'40.6499"W	8548.10	343.766	1.32	-0.29	-1.29	
15185.00	90.520	339.700	6436.78	8632.36	8295.06	-2423.27	1670094.57	14355840.90	39°31'57.0478"N	80°53'41.0777"W	8641.78	343.715	1.43	0.29	1.40	
15280.00	90.310	339.100	6436.09	8727.32	8383.99	-2456.70	1670061.16	14355929.79	39°31'57.9271"N	80°53'41.5029"W	8736.51	343.668	0.67	-0.22	-0.63	
15374.00	90.370	338.890	6435.53	8821.26	8471.74	-2490.39	1670027.48	14356017.50	39°31'58.7948"N	80°53'41.9317"W	8830.20	343.619	0.23	0.06	-0.22	
15468.00	90.340	338.440	6434.95	8915.18	8559.30	-2524.59	1669993.29	14356105.02	39°31'59.6605"N	80°53'42.3668"W	8923.85	343.566	0.48	-0.03	-0.48	
15563.00	90.280	337.830	6434.43	9010.05	8647.46	-2559.97	1669957.93	14356193.15	39°32'0.5323"N	80°53'42.8171"W	9018.43	343.509	0.65	-0.06	-0.64	
15657.00	90.550	338.380	6433.75	9103.93	8734.68	-2595.02	1669922.89	14356280.34	39°32'1.3946"N	80°53'43.2631"W	9112.01	343.454	0.65	0.29	0.59	
15751.00	90.400	340.490	6432.97	9197.88	8822.68	-2628.04	1669889.89	14356368.30	39°32'2.2648"N	80°53'43.6832"W	9205.77	343.413	2.25	-0.16	2.24	
15846.00	90.340	341.410	6432.36	9292.88	8912.47	-2659.04	1669858.89	14356458.06	39°32'3.1526"N	80°53'44.0776"W	9300.68	343.387	0.97	-0.06	0.97	
15942.00	90.340	340.800	6431.79	9388.87	9003.30	-2690.13	1669827.82	14356548.85	39°32'4.0506"N	80°53'44.4730"W	9396.60	343.364	0.64	0.00	-0.64	
16037.00	89.750	339.050	6431.72	9483.85	9092.52	-2722.74	1669795.22	14356638.04	39°32'4.9328"N	80°53'44.8879"W	9491.43	343.330	1.94	-0.62	-1.84	
16131.00	90.490	342.130	6431.52	9577.84	9181.17	-2753.97	1669764.00	14356726.65	39°32'5.8093"N	80°53'45.2852"W	9585.31	343.303	3.37	0.79	3.28	
16226.00	90.860	344.920	6430.40	9672.73	9272.25	-2780.91	1669737.07	14356817.70	39°32'6.7098"N	80°53'45.6277"W	9680.30	343.305	2.96	0.39	2.94	
16321.00	90.920	344.910	6428.92	9767.50	9363.97	-2805.63	1669712.36	14356909.37	39°32'7.6165"N	80°53'45.9419"W	9775.25	343.321	0.06	0.06	-0.01	
16415.00	90.800	342.610	6427.51	9861.38	9454.20	-2831.92	1669686.09	14356999.57	39°32'8.5086"N	80°53'46.2760"W	9869.23	343.325	2.45	-0.13	-2.45	
16510.00	90.800	342.880	6426.19	9956.33	9544.92	-2860.09	1669657.92	14357090.25	39°32'9.4055"N	80°53'46.6343"W	9964.21	343.319	0.28	0.00	0.28	
16605.00	90.830	342.630	6424.83	10051.28	9635.64	-2888.25	1669629.77	14357180.93	39°32'10.3024"N	80°53'46.9924"W	10059.20	343.314	0.27	0.03	-0.26	
16700.00	91.020	343.500	6423.30	10146.20	9726.50	-2915.92	1669602.12	14357271.77	39°32'11.2008"N	80°53'47.3442"W	10154.19	343.312	0.94	0.20	0.92	
16794.00	90.770	342.730	6421.83	10240.13	9816.44	-2943.22	1669574.83	14357361.67	39°32'12.0900"N	80°53'47.6913"W	10248.17	343.310	0.86	-0.27	-0.82	
16889.00	90.890	341.900	6420.46	10335.10	9906.94	-2972.08	1669545.99	14357452.13	39°32'12.9848"N	80°53'48.0583"W	10343.15	343.301	0.88	0.13	-0.87	
16984.00	90.800	341.410	6419.06	10430.08	9997.10	-3001.97	1669516.10	14357542.25	39°32'13.8762"N	80°53'48.4385"W	10438.10	343.286	0.52	-0.09	-0.52	
17078.00	90.890	340.130	6417.67	10524.07	10085.85	-3032.93	1669485.16	14357630.96	39°32'14.7536"N	80°53'48.8323"W	10532.00	343.263	1.36	0.10	-1.36	
17173.00	90.800	338.450	6416.27	10619.01	10174.69	-3066.52	1669451.58	14357719.78	39°32'15.6321"N	80°53'49.2598"W	10626.76	343.228	1.77	-0.09	-1.77	
17267.00	90.770	337.750	6414.98	10712.88	10261.90	-3101.58	1669416.54	14357806.95	39°32'16.4944"N	80°53'49.7060"W	10720.37	343.183	0.75	-0.03	-0.74	
17362.00	90.800	337.660	6413.68	10807.71	10349.79	-3137.61	1669380.51	14357894.80	39°32'17.3635"N	80°53'50.1647"W	10814.93	343.135	0.10	0.03	-0.09	
17457.00	90.830	337.380	6412.33	10902.52	10437.56	-3173.93	1669344.21	14357982.54	39°32'18.2314"N	80°53'50.6270"W	10909.47	343.086	0.30	0.03	-0.29	
17552.00	90.400	336.060	6411.31	10997.24	10524.82	-3211.48	1669306.68	14358069.76	39°32'19.0942"N	80°53'51.1049"W	11003.88	343.031	1.46	-0.45	-1.39	
17647.00	90.280	336.780	6410.74	11091.93	10611.89	-3249.48	1669268.69	14358156.79	39°32'19.9551"N	80°53'51.5887"W	11098.26	342.975	0.77	-0.13	0.76	
17742.00	90.030	339.870	6410.49	11186.81	10700.16	-3284.56	1669233.62	14358245.03	39°32'20.8279"N	80°53'52.0352"W	11192.93	342.935	3.26	-0.26	3.25	

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'

Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 1H
Field	Tyler	API	47-095-02637-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (262 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
17836.00	90.550	342.970	6410.01	11280.79	10789.25	-3314.51	1669203.69	14358334.08	39°32'21.7087"N	80°53'52.4161"W	11286.89	342.923	3.34	0.55	3.30	
17931.00	90.520	343.990	6409.12	11375.70	10880.32	-3341.52	1669176.69	14358425.12	39°32'22.6091"N	80°53'52.7596"W	11381.88	342.927	1.07	-0.03	1.07	
18025.00	90.580	344.530	6408.22	11469.55	10970.79	-3367.02	1669151.20	14358515.55	39°32'23.5036"N	80°53'53.0838"W	11475.85	342.938	0.58	0.06	0.57	
18120.00	90.490	344.440	6407.33	11564.37	11062.33	-3392.43	1669125.80	14358607.05	39°32'24.4085"N	80°53'53.4068"W	11570.81	342.951	0.13	-0.09	-0.09	
18216.00	90.430	343.460	6406.56	11660.25	11154.58	-3418.97	1669099.27	14358699.27	39°32'25.3208"N	80°53'53.7442"W	11666.79	342.959	1.02	-0.06	-1.02	
18310.00	90.370	342.790	6405.91	11754.18	11244.53	-3446.26	1669071.99	14358789.18	39°32'26.2099"N	80°53'54.0912"W	11760.79	342.961	0.72	-0.06	-0.71	
18405.00	90.490	341.870	6405.19	11849.15	11335.04	-3475.09	1669043.17	14358879.66	39°32'27.1048"N	80°53'54.4579"W	11855.78	342.956	0.98	0.13	-0.97	
18500.00	90.580	341.850	6404.31	11944.14	11425.32	-3504.67	1669013.61	14358969.90	39°32'27.9973"N	80°53'54.8342"W	11950.76	342.947	0.10	0.09	-0.02	
18595.00	90.400	343.800	6403.50	12039.09	11516.07	-3532.72	1668985.57	14359060.62	39°32'28.8946"N	80°53'55.1909"W	12045.75	342.946	2.06	-0.19	2.05	
18689.00	90.920	343.160	6402.41	12132.99	11606.19	-3559.44	1668958.85	14359150.70	39°32'29.7855"N	80°53'55.5307"W	12139.74	342.950	0.88	0.55	-0.68	
18784.00	90.980	345.440	6400.84	12227.82	11697.62	-3585.15	1668933.16	14359242.10	39°32'30.6895"N	80°53'55.8575"W	12234.69	342.960	2.40	0.06	2.40	
18878.00	90.950	342.880	6399.25	12321.66	11788.03	-3610.80	1668907.52	14359332.47	39°32'31.5833"N	80°53'56.1836"W	12328.65	342.970	2.72	-0.03	-2.72	
18973.00	91.050	342.010	6397.60	12416.62	11878.60	-3639.45	1668878.88	14359422.99	39°32'32.4787"N	80°53'56.5480"W	12423.63	342.966	0.92	0.11	-0.92	
19068.00	90.950	341.390	6395.94	12511.59	11968.78	-3669.27	1668849.07	14359513.14	39°32'33.3703"N	80°53'56.9274"W	12518.59	342.956	0.66	-0.11	-0.65	
19162.00	90.950	341.480	6394.38	12605.58	12057.87	-3699.20	1668819.16	14359602.20	39°32'34.2512"N	80°53'57.3081"W	12612.55	342.945	0.10	0.00	0.10	
19257.00	90.950	342.590	6392.80	12700.55	12148.23	-3728.49	1668789.87	14359692.52	39°32'35.1445"N	80°53'57.6808"W	12707.52	342.938	1.17	0.00	1.17	
19352.00	90.950	342.180	6391.23	12795.51	12238.76	-3757.24	1668761.14	14359783.02	39°32'36.0396"N	80°53'58.0464"W	12802.50	342.934	0.43	0.00	-0.43	
19447.00	90.980	341.230	6389.63	12890.49	12328.94	-3787.05	1668731.33	14359873.16	39°32'36.9313"N	80°53'58.4257"W	12897.47	342.925	1.00	0.03	-1.00	
19542.00	90.710	340.850	6388.23	12985.48	12418.78	-3817.92	1668700.48	14359962.96	39°32'37.8195"N	80°53'58.8184"W	12992.41	342.911	0.49	-0.28	-0.40	
19637.00	90.740	339.690	6387.03	13080.46	12508.20	-3849.99	1668666.43	14360052.34	39°32'38.7035"N	80°53'59.2265"W	13087.30	342.892	1.22	0.03	-1.22	
19732.00	90.250	338.530	6386.21	13175.40	12596.95	-3883.86	1668634.57	14360141.06	39°32'39.5811"N	80°53'59.6576"W	13182.09	342.865	1.33	-0.52	-1.22	
19827.00	90.740	338.980	6385.38	13270.32	12685.49	-3918.28	1668600.16	14360229.56	39°32'40.4565"N	80°54'0.0957"W	13276.84	342.835	0.70	0.52	0.47	
19922.00	90.060	336.360	6384.72	13365.15	12773.35	-3954.37	1668564.08	14360317.39	39°32'41.3253"N	80°54'0.5552"W	13371.44	342.799	2.85	-0.72	-2.76	
20018.00	90.310	336.490	6384.41	13460.84	12861.34	-3992.77	1668525.71	14360405.34	39°32'42.1953"N	80°54'1.0441"W	13466.86	342.753	0.29	0.26	0.14	
20113.00	90.340	335.810	6383.87	13555.49	12948.22	-4031.18	1668487.31	14360492.19	39°32'43.0544"N	80°54'1.5332"W	13561.23	342.707	0.72	0.03	-0.72	
20207.00	90.250	336.680	6383.39	13649.16	13034.26	-4069.04	1668449.46	14360578.19	39°32'43.9052"N	80°54'2.0153"W	13654.63	342.663	0.93	-0.10	0.93	
20302.00	90.280	337.560	6382.95	13743.93	13121.78	-4105.98	1668412.54	14360665.68	39°32'44.7706"N	80°54'2.4855"W	13749.19	342.624	0.93	0.03	0.93	
20397.00	90.310	340.010	6382.46	13838.85	13210.34	-4140.35	1668378.18	14360754.20	39°32'45.6462"N	80°54'2.9231"W	13843.97	342.598	2.58	0.03	2.58	
20491.00	90.310	341.580	6381.95	13932.85	13299.10	-4171.27	1668347.27	14360842.93	39°32'46.5238"N	80°54'3.3165"W	13937.92	342.586	1.67	0.00	1.67	
20585.00	90.280	341.630	6381.47	14026.84	13388.30	-4200.93	1668317.62	14360932.09	39°32'47.4057"N	80°54'3.6939"W	14031.90	342.579	0.06	-0.03	0.05	

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'
Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 1H
Field	Tyler		API	47-095-02637-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 1H AWB
Slot	Slot #05			

WELLPATH DATA (262 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
20680.00	90.310	341.360	6380.98	14121.83	13478.38	-4231.09	1668287.48	14361022.14	39°32'48.2963"N	80°54'4.0776"W	14126.89	342.572	0.29	0.03	-0.28	
20775.00	90.280	341.320	6380.49	14216.83	13568.39	-4261.48	1668257.10	14361112.11	39°32'49.1862"N	80°54'4.4643"W	14221.86	342.564	0.05	-0.03	-0.04	
20871.00	90.680	341.110	6379.68	14312.83	13659.27	-4292.39	1668226.20	14361202.96	39°32'50.0848"N	80°54'4.8576"W	14317.83	342.555	0.47	0.42	-0.22	
20965.00	90.710	340.710	6378.54	14406.82	13748.09	-4323.13	1668195.47	14361291.74	39°32'50.9630"N	80°54'5.2488"W	14411.79	342.544	0.43	0.03	-0.43	
21061.00	90.680	338.680	6377.38	14502.78	13838.12	-4356.44	1668162.17	14361381.73	39°32'51.8531"N	80°54'5.6728"W	14507.66	342.525	2.11	-0.03	-2.11	
21155.00	92.310	342.210	6374.93	14596.73	13926.65	-4387.89	1668130.74	14361470.23	39°32'52.7284"N	80°54'6.0730"W	14601.54	342.512	4.14	1.73	3.76	
21250.00	91.540	342.660	6371.74	14691.64	14017.17	-4416.54	1668102.10	14361560.71	39°32'53.6233"N	80°54'6.4375"W	14696.49	342.511	0.94	-0.81	0.47	
21345.00	91.570	343.660	6369.16	14786.54	14108.06	-4444.05	1668074.60	14361651.56	39°32'54.5219"N	80°54'6.7874"W	14791.45	342.516	1.05	0.03	1.05	
21439.00	91.290	343.240	6366.81	14880.43	14198.14	-4470.82	1668047.84	14361741.60	39°32'55.4124"N	80°54'7.1279"W	14885.41	342.521	0.54	-0.30	-0.45	
21534.00	92.000	344.320	6364.08	14975.28	14289.31	-4497.35	1668021.33	14361832.75	39°32'56.3139"N	80°54'7.4652"W	14980.34	342.529	1.36	0.75	1.14	
21629.00	90.740	343.460	6361.81	15070.13	14380.56	-4523.70	1667994.98	14361923.95	39°32'57.2159"N	80°54'7.8003"W	15075.29	342.538	1.61	-1.33	-0.91	
21724.00	90.860	343.440	6360.49	15165.04	14471.61	-4550.76	1667967.94	14362014.97	39°32'58.1161"N	80°54'8.1445"W	15170.26	342.544	0.13	0.13	-0.02	
21819.00	90.710	343.640	6359.19	15259.94	14562.71	-4577.67	1667941.03	14362106.03	39°32'59.0168"N	80°54'8.4868"W	15265.24	342.550	0.26	-0.16	0.21	
21914.00	90.250	343.750	6358.39	15354.84	14653.88	-4604.34	1667914.37	14362197.17	39°32'59.9182"N	80°54'8.8260"W	15360.22	342.557	0.50	-0.48	0.12	
22009.00	89.970	343.090	6358.21	15449.75	14744.93	-4631.45	1667887.27	14362288.18	39°33'0.8183"N	80°54'9.1708"W	15455.21	342.562	0.75	-0.29	-0.69	
22104.00	89.970	342.670	6358.28	15544.70	14835.72	-4659.42	1667859.32	14362378.94	39°33'1.7159"N	80°54'9.5266"W	15550.21	342.564	0.44	0.00	-0.44	
22199.00	89.940	342.010	6358.33	15639.68	14926.25	-4688.24	1667830.51	14362469.42	39°33'2.6109"N	80°54'9.8933"W	15645.20	342.563	0.70	-0.03	-0.69	
22293.00	89.720	341.340	6358.61	15733.67	15015.48	-4717.79	1667800.97	14362558.62	39°33'3.4931"N	80°54'10.2693"W	15739.19	342.558	0.75	-0.23	-0.71	
22388.00	89.660	340.700	6359.12	15828.67	15105.31	-4748.69	1667770.08	14362648.42	39°33'4.3813"N	80°54'10.6625"W	15834.16	342.548	0.68	-0.06	-0.67	
22483.00	89.720	340.480	6359.64	15923.67	15194.91	-4780.26	1667738.53	14362737.98	39°33'5.2672"N	80°54'11.0643"W	15929.10	342.537	0.24	0.06	-0.23	
22498.00	89.780	340.700	6359.70	15938.66	15209.06	-4785.24	1667733.54	14362752.12	39°33'5.4070"N	80°54'11.1278"W	15944.09	342.535	1.52	0.40	1.47	
22523.00	89.780	340.700	6359.80	15963.66	15232.65	-4793.51	1667725.28	14362775.71	39°33'5.6403"N	80°54'11.2329"W	15969.08	342.532	0.00	0.00	0.00	Projected MD at TD: 22523' MD

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'

Page 11 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 1H
Field	Tyler	API	47-095-02637-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 1H AWB
Slot	Slot #05		

HOLE & CASING SECTIONS - Ref Wellbore: Maggie Unit 1H AWB Ref Wellpath: Maggie Unit 1H AWP Proj: 22523'

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	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.14	-0.12
17.5in Open Hole	110.00	476.00	366.00	110.00	476.00	0.14	-0.12	-0.95	-0.88
13.375in Casing Surface	30.00	476.00	446.00	30.00	476.00	0.00	0.00	-0.95	-0.88
12.25in Open Hole	476.00	2604.00	2128.00	476.00	2598.48	-0.95	-0.88	-56.97	86.86
9.625in Casing Intermediate	30.00	2604.00	2574.00	30.00	2598.48	0.00	0.00	-56.97	86.86
8.75in Open Hole	2604.00	6213.00	3609.00	2598.48	6149.23	-56.97	86.86	-72.36	398.77
8.5in Open Hole	6213.00	22523.00	16310.00	6149.23	6359.80	-72.36	398.77	15232.65	-4793.51
5.5in Casing Production	30.00	22523.00	22493.00	30.00	6359.80	0.00	0.00	15232.65	-4793.51

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Maggie Unit 1H - POE - Rev-3	6449.00	278.24	326.37	1672843.11	14347827.29	39°30'37.7818"N	80°53'6.1155"W	point
Maggie Unit 1H - BHL - Rev-3	6484.00	15229.38	-4810.50	1667708.30	14362772.44	39°33'5.6081"N	80°54'11.4499"W	point
Maggie Unit 1H - LP - Rev-3	6484.00	472.80	259.52	1672776.29	14348021.77	39°30'39.7056"N	80°53'6.9652"W	point
Maggie Unit 1H - 50' L/R Hardline	6550.00	7753.81	-2242.06	1670275.71	14355299.87	39°31'51.6964"N	80°53'38.7731"W	rectangle

2D Rectangle 15812.9 x 100.

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 1H
Field	Tyler	API	47-095-02637-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 1H AWB
Slot	Slot #05		

WELLPATH COMPOSITION - Ref Wellbore: Maggie Unit 1H AWB Ref Wellpath: Maggie Unit 1H AWP Proj: 22523'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	480.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2">(100'-465')	Maggie Unit 1H AWB	1/3/2020
480.00	2518.00	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4">(465')(560'-2503')	Maggie Unit 1H AWB	1/3/2020
2518.00	6139.00	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4">(2503')(2648'-6124')	Maggie Unit 1H AWB	1/3/2020
6139.00	22523.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Curve <8-1/2">(6139')(6192'-22498')	Maggie Unit 1H AWB	2/6/2020

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Actual Wellpath Report

Maggie Unit 1H AWP Proj: 22523'

Page 13 of 13



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Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 1H
Field	Tyler	API	47-095-02637-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 1H AWB
Slot	Slot #05		

COMMENTS

Wellpath general comments

API: 47-095-02637-0000

BHI Job #: 110263339A

Rig: H&P 519

Duration: 02/08/2020-02/12/2020

Gyrodata MS Gyro <17-1/2">(100'-465')

WFT EM <12-1/4">(465')(560'-2503')

WFT EM <8-3/4">(2503')(2648'-6124')

BH AT Curve <8-1/2">(6139')(6192'-22498')

Middlesex: 6421' MD

Burkett: 6570' MD

Tully: 6618' MD

Marcellus POE: 6734' MD

Projected MD at TD: 22523' MD

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