

ANTERO RESOURCES CORPORATION

Location: Tyler County, WV

Field: Tyler

Facility: Gamehenge East Pad

Slot: Slot #06

Well: Maggie Unit 2H

Wellbore: Maggie Unit 2H PWB

First reference wellpath is Maggie Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True 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 #06): -1061 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: dabbad on 2020-02-27; Database: WA_MPL_EasternUS_Defin

Location Information

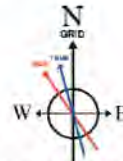
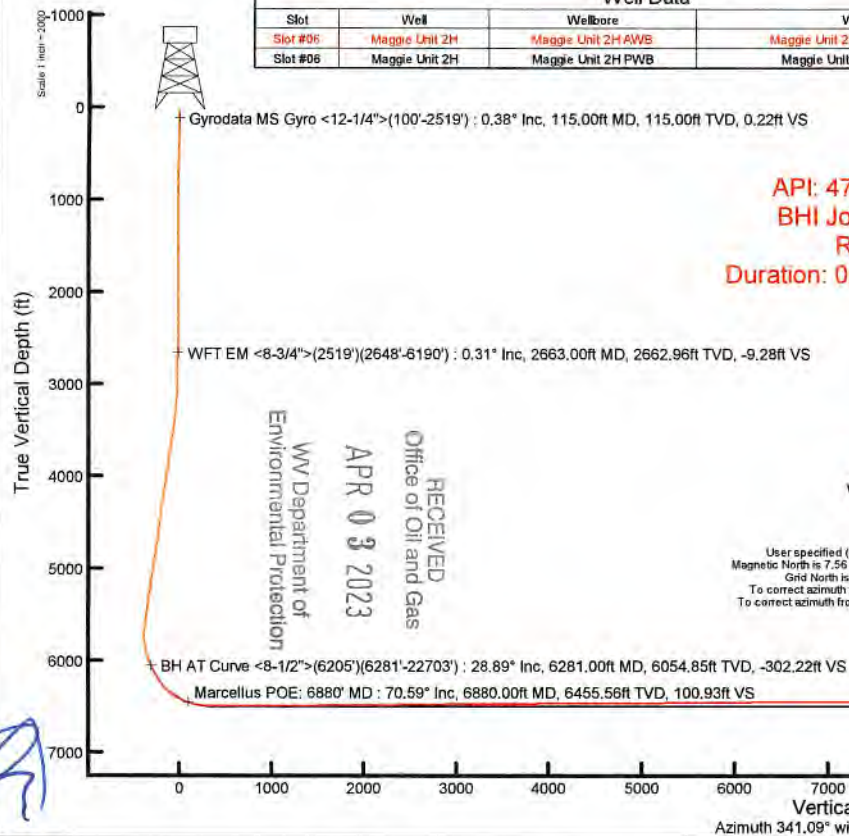
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Gamehenge East Pad	1672504.896	14347540.047	39°30'34.9460"N	80°53'10.4370"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #06	18.14	23.88	1672528.770	14347558.180	39°30'35.1250"N	80°53'10.1320"W
H&P 519 (RKB) to Ground level (At Slot: Slot #06)						30ft
Mean Sea Level to Ground level (At Slot: Slot #06)						-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	6205.00	25.260	18.060	5987.18	40.67	1139.52	7.88	-330.83
Proj. To Bottom	6309.00	30.480	14.350	6079.10	87.35	1152.95	5.29	-291.01
End of 3D Arc	6336.37	29.391	18.689	6102.82	100.44	1156.82	8.85	-279.89
POE	6894.76	71.074	341.089	6459.00	505.52	1112.34	8.85	117.75
Landing Pt.	7108.61	90.000	341.089	6494.00	704.17	1044.28	8.85	327.74
BHL	22683.33	90.000	341.089	6494.00	15438.18	-4003.57	0.00	15902.45

Well Data

Slot	Well	Wellbore	Wellpath
Slot #06	Maggie Unit 2H	Maggie Unit 2H AWP	Maggie Unit 2H AWP Proj: 22728'
Slot #06	Maggie Unit 2H	Maggie Unit 2H PWB	Maggie Unit 2H PWP Rev-A.0



User specified (HDGM) Dip: 66.51° Field: 51778 nT
Magnetic North is 7.56 degrees West of True North (at 2/13/2020)
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

Scale 1 inch = 3000'

Easting (ft)

Projected MD at TD: 22728' MD : 6354.00ft TVD, 15457.72ft N, 4029.58ft W



Marcellus POE: 6880' MD : 6455.56ft TVD, 491.38ft N, 1122.94ft E
BH AT Curve <8-1/2">(6205')(6281'-22703') : 28.89° Inc, 6281.00ft MD, 6054.85ft TVD, 74.01ft N, 1148.53ft E
WFT EM <8-3/4">(2519')(2648'-6190') : 2662.96ft TVD, 8.77ft S, 3.05ft E
Gyrodatta MS Gyro <12-1/4">(100'-2519') : 115.00ft TVD, 0.26ft N, 0.10ft E
Slot #06

16500
15000
13500
12000
10500
9000
7500
6000
4500
3000
1500
0
-1500

Northing (ft)

Azimuth 341.09° with reference 0.00 N, 0.00 E

Scale 1 inch = 2000'



Actual Wellpath Report

Maggie Unit 2H AWP Proj: 22728'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWB
Slot	Slot #06		

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	2/27/2020 at 2:29:19 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	18.14	23.88	1672528.77	14347558.18	39°30'35.1250"N	80°53'10.1320"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 #06)	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	341.09°

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Field	Tyler		API	47-095-02638-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (251 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	20.070	0.00	0.00	0.00	0.00	1672528.77	14347558.18	39°30'35.1250"N	80°53'10.1320"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	20.070	30.00	0.00	0.00	0.00	1672528.77	14347558.18	39°30'35.1250"N	80°53'10.1320"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.380	20.070	115.00	0.22	0.26	0.10	1672528.87	14347558.44	39°30'35.1276"N	80°53'10.1307"W	0.28	20.070	0.45	0.45	0.00	Gyrodatta MS Gyro <12-1/4">(100'-2519')
215.00	0.370	79.440	215.00	0.43	0.64	0.53	1672529.30	14347558.82	39°30'35.1313"N	80°53'10.1252"W	0.83	39.723	0.37	-0.01	59.37	
315.00	0.530	153.250	315.00	-0.08	0.28	1.05	1672529.82	14347558.46	39°30'35.1278"N	80°53'10.1185"W	1.09	75.037	0.56	0.16	73.81	
415.00	0.570	151.590	414.99	-1.02	-0.57	1.50	1672530.27	14347557.61	39°30'35.1193"N	80°53'10.1129"W	1.60	110.792	0.04	0.04	-1.66	
515.00	0.510	151.850	514.99	-1.95	-1.40	1.94	1672530.71	14347556.78	39°30'35.1111"N	80°53'10.1072"W	2.40	125.724	0.06	-0.06	0.26	
615.00	0.490	160.430	614.98	-2.82	-2.19	2.30	1672531.07	14347555.99	39°30'35.1033"N	80°53'10.1027"W	3.18	133.674	0.08	-0.02	8.58	
715.00	0.420	156.610	714.98	-3.61	-2.93	2.59	1672531.36	14347555.25	39°30'35.0960"N	80°53'10.0990"W	3.91	138.592	0.08	-0.07	-3.82	
815.00	0.360	156.720	814.98	-4.29	-3.56	2.86	1672531.63	14347554.62	39°30'35.0898"N	80°53'10.0956"W	4.56	141.244	0.06	-0.06	0.11	
915.00	0.310	148.660	914.98	-4.87	-4.08	3.12	1672531.89	14347554.10	39°30'35.0846"N	80°53'10.0922"W	5.14	142.569	0.07	-0.05	-8.06	
1015.00	0.320	155.920	1014.97	-5.41	-4.56	3.38	1672532.14	14347553.62	39°30'35.0798"N	80°53'10.0890"W	5.68	143.509	0.04	0.01	7.26	
1115.00	0.340	143.690	1114.97	-5.97	-5.06	3.67	1672532.43	14347553.12	39°30'35.0749"N	80°53'10.0853"W	6.25	144.068	0.07	0.02	-12.23	
1215.00	0.250	122.820	1214.97	-6.43	-5.42	4.02	1672532.79	14347552.77	39°30'35.0714"N	80°53'10.0807"W	6.75	143.380	0.14	-0.09	-20.87	
1315.00	0.250	121.830	1314.97	-6.77	-5.65	4.39	1672533.16	14347552.53	39°30'35.0691"N	80°53'10.0760"W	7.16	142.125	0.00	0.00	-0.99	
1415.00	0.160	102.680	1414.97	-7.01	-5.79	4.72	1672533.48	14347552.39	39°30'35.0677"N	80°53'10.0719"W	7.47	140.864	0.11	-0.09	-19.15	
1515.00	0.060	63.370	1514.97	-7.08	-5.80	4.90	1672533.67	14347552.38	39°30'35.0676"N	80°53'10.0696"W	7.59	139.827	0.12	-0.10	-39.31	
1615.00	0.050	88.120	1614.97	-7.08	-5.78	4.99	1672533.76	14347552.41	39°30'35.0678"N	80°53'10.0684"W	7.63	139.188	0.03	-0.01	24.75	
1715.00	0.050	333.370	1714.97	-7.05	-5.74	5.01	1672533.78	14347552.45	39°30'35.0682"N	80°53'10.0681"W	7.62	138.852	0.08	0.00	-114.75	
1815.00	0.070	301.150	1814.97	-6.96	-5.67	4.94	1672533.71	14347552.52	39°30'35.0689"N	80°53'10.0690"W	7.52	138.911	0.04	0.02	-32.22	
1915.00	0.150	208.000	1914.97	-7.00	-5.75	4.83	1672533.60	14347552.43	39°30'35.0681"N	80°53'10.0705"W	7.51	139.988	0.17	0.08	-93.15	
2015.00	0.090	214.670	2014.97	-7.14	-5.93	4.72	1672533.49	14347552.25	39°30'35.0663"N	80°53'10.0718"W	7.58	141.476	0.06	-0.06	6.67	
2115.00	0.160	225.210	2114.97	-7.25	-6.09	4.58	1672533.35	14347552.09	39°30'35.0647"N	80°53'10.0737"W	7.62	143.085	0.07	0.07	10.54	
2215.00	0.170	196.550	2214.97	-7.43	-6.33	4.44	1672533.20	14347551.85	39°30'35.0623"N	80°53'10.0755"W	7.73	144.994	0.08	0.01	-28.66	
2315.00	0.220	214.270	2314.97	-7.67	-6.63	4.29	1672533.05	14347551.55	39°30'35.0594"N	80°53'10.0774"W	7.90	147.140	0.08	0.05	17.72	
2415.00	0.290	204.840	2414.97	-7.96	-7.02	4.07	1672532.84	14347551.16	39°30'35.0555"N	80°53'10.0802"W	8.12	149.900	0.08	0.07	-9.43	
2515.00	0.590	206.090	2514.96	-8.51	-7.71	3.74	1672532.51	14347550.47	39°30'35.0487"N	80°53'10.0844"W	8.57	154.147	0.30	0.30	1.25	
2534.00	0.650	205.270	2533.96	-8.66	-7.90	3.65	1672532.42	14347550.28	39°30'35.0469"N	80°53'10.0856"W	8.70	155.207	0.32	0.32	-4.32	
2663.00	0.310	233.860	2662.96	-9.28	-8.77	3.05	1672531.82	14347549.42	39°30'35.0383"N	80°53'10.0931"W	9.28	160.789	0.31	-0.26	22.16	WFT EM <8-3/4">(2519')(2648'-6190')
2758.00	3.380	78.620	2757.91	-9.73	-8.37	5.59	1672534.36	14347549.82	39°30'35.0422"N	80°53'10.0607"W	10.06	146.233	3.86	3.23	-163.41	

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Maggie Unit 2H AWP Proj: 22728'

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Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (251 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
2852.00	4.950	72.130	2851.66	-10.16	-6.57	12.17	1672540.94	14347551.61	39°30'35.0599"N	80°53'9.9768"W	13.83	118.380	1.74	1.67	-6.90	
2947.00	7.460	82.950	2946.09	-11.51	-4.56	22.19	1672550.95	14347553.62	39°30'35.0796"N	80°53'9.8489"W	22.66	101.611	2.90	2.64	11.39	
3042.00	10.420	87.930	3039.93	-15.26	-3.49	36.90	1672565.66	14347554.69	39°30'35.0900"N	80°53'9.6612"W	37.07	95.406	3.22	3.12	5.24	
3137.00	13.250	89.690	3132.90	-21.23	-3.12	56.38	1672585.13	14347555.06	39°30'35.0934"N	80°53'9.4127"W	56.47	93.171	3.00	2.98	1.85	
3232.00	16.160	90.860	3224.78	-29.17	-3.26	80.49	1672609.23	14347554.92	39°30'35.0917"N	80°53'9.1051"W	80.56	92.321	3.08	3.06	1.23	
3327.00	18.650	88.230	3315.43	-38.12	-2.99	108.90	1672637.62	14347555.19	39°30'35.0941"N	80°53'8.7427"W	108.94	91.574	2.75	2.62	-2.77	
3421.00	21.540	89.590	3403.70	-48.03	-2.40	141.18	1672669.90	14347555.78	39°30'35.0995"N	80°53'8.3307"W	141.20	90.976	3.11	3.07	1.45	
3520.00	23.440	90.860	3495.16	-60.46	-2.57	179.05	1672707.75	14347555.61	39°30'35.0973"N	80°53'7.8476"W	179.07	90.822	1.98	1.92	1.28	
3614.00	23.940	92.800	3581.24	-73.84	-3.78	216.79	1672745.47	14347554.40	39°30'35.0849"N	80°53'7.3661"W	216.82	90.999	0.99	0.53	2.06	
3709.00	23.470	90.680	3668.23	-87.31	-4.95	254.96	1672783.63	14347553.23	39°30'35.0729"N	80°53'6.8792"W	255.01	91.112	1.02	-0.49	-2.23	
3804.00	22.910	91.980	3755.55	-100.25	-5.81	292.36	1672821.01	14347552.37	39°30'35.0639"N	80°53'6.4020"W	292.41	91.139	0.80	-0.59	1.37	
3898.00	22.100	89.810	3842.40	-112.45	-6.38	328.33	1672856.96	14347551.80	39°30'35.0578"N	80°53'5.9431"W	328.39	91.114	1.23	-0.86	-2.31	
3993.00	22.040	91.480	3930.43	-124.39	-6.79	364.02	1672892.64	14347551.40	39°30'35.0533"N	80°53'5.4878"W	364.08	91.068	0.66	-0.06	1.76	
4088.00	20.870	94.890	4018.85	-137.43	-8.69	398.70	1672927.31	14347549.49	39°30'35.0341"N	80°53'5.0453"W	398.79	91.248	1.80	-1.23	3.59	
4182.00	21.610	94.140	4106.47	-150.97	-11.37	432.64	1672961.24	14347546.82	39°30'35.0072"N	80°53'4.6123"W	432.79	91.505	0.84	0.79	-0.80	
4277.00	21.710	94.050	4194.76	-164.67	-13.87	467.62	1672996.20	14347544.32	39°30'34.9820"N	80°53'4.1661"W	467.83	91.699	0.11	0.11	-0.09	
4372.00	22.570	93.010	4282.75	-178.33	-16.07	503.35	1673031.92	14347542.12	39°30'34.9598"N	80°53'3.7102"W	503.61	91.828	0.99	0.91	-1.09	
4467.00	21.710	91.660	4370.75	-191.31	-17.53	539.12	1673067.68	14347540.65	39°30'34.9449"N	80°53'3.2539"W	539.41	91.863	1.05	-0.91	-1.42	
4561.00	21.280	92.340	4458.21	-203.60	-18.73	573.54	1673102.09	14347539.45	39°30'34.9326"N	80°53'2.8147"W	573.85	91.871	0.53	-0.46	0.72	
4656.00	20.370	90.540	4547.01	-215.35	-19.59	607.30	1673135.83	14347538.59	39°30'34.9237"N	80°53'2.3840"W	607.62	91.848	1.17	-0.96	-1.89	
4750.00	21.310	89.230	4634.86	-226.12	-19.52	640.74	1673169.26	14347538.67	39°30'34.9240"N	80°53'1.9574"W	641.04	91.745	1.12	1.00	-1.39	
4845.00	22.680	90.180	4722.94	-237.48	-19.34	676.32	1673204.82	14347538.84	39°30'34.9253"N	80°53'1.5035"W	676.60	91.638	1.49	1.44	1.00	
4940.00	23.330	92.160	4810.38	-250.24	-20.11	713.43	1673241.92	14347538.08	39°30'34.9172"N	80°53'1.0299"W	713.72	91.615	1.06	0.68	2.08	
5035.00	22.680	91.490	4897.83	-263.38	-21.30	750.54	1673279.01	14347536.89	39°30'34.9050"N	80°53'0.5565"W	750.84	91.625	0.74	-0.68	-0.71	
5132.00	22.580	91.780	4987.36	-276.48	-22.36	787.85	1673316.30	14347535.83	39°30'34.8940"N	80°53'0.0806"W	788.17	91.626	0.15	-0.10	0.30	
5226.00	23.510	92.450	5073.86	-289.69	-23.72	824.62	1673353.06	14347534.47	39°30'34.8801"N	80°52'59.6114"W	824.96	91.648	1.03	0.99	0.71	
5321.00	22.950	90.690	5161.16	-302.80	-24.76	862.07	1673390.50	14347533.43	39°30'34.8694"N	80°52'59.1336"W	862.43	91.645	0.94	-0.59	-1.85	
5416.00	22.030	93.350	5248.93	-315.77	-26.02	898.38	1673426.79	14347532.17	39°30'34.8564"N	80°52'58.6704"W	898.78	91.659	1.44	-0.97	2.80	
5511.00	21.580	91.970	5337.14	-328.74	-27.66	933.63	1673462.02	14347530.53	39°30'34.8398"N	80°52'58.2207"W	934.04	91.697	0.72	-0.47	-1.45	
5605.00	21.920	92.550	5424.45	-341.32	-29.04	968.43	1673496.81	14347529.15	39°30'34.8257"N	80°52'57.7767"W	968.87	91.717	0.43	0.36	0.62	

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Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 2H
Field	Tyler		API	47-095-02638-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 2H AWP
Slot	Slot #06			

WELLPATH DATA (251 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
5700.00	21.670	90.950	5512.66	-353.77	-30.12	1003.68	1673532.05	14347528.08	39°30'34.8146"N	80°52'57.3269"W	1004.14	91.719	0.68	-0.26	-1.68	
5795.00	21.920	91.850	5600.87	-366.01	-30.98	1038.95	1673567.30	14347527.21	39°30'34.8056"N	80°52'56.8771"W	1039.41	91.708	0.44	0.26	0.95	
5921.00	18.480	77.740	5719.17	-376.67	-27.50	1082.00	1673610.34	14347530.70	39°30'34.8395"N	80°52'56.3277"W	1082.35	91.456	4.72	-2.73	-11.20	
5953.00	16.670	65.420	5749.68	-376.80	-24.51	1091.14	1673619.47	14347533.68	39°30'34.8689"N	80°52'56.2111"W	1091.41	91.287	12.90	-5.66	-38.50	
5985.00	15.820	53.470	5780.41	-375.03	-20.00	1098.82	1673627.15	14347538.19	39°30'34.9133"N	80°52'56.1130"W	1099.00	91.043	10.76	-2.66	-37.34	
6016.00	15.990	47.760	5810.23	-372.06	-14.62	1105.38	1673633.70	14347543.57	39°30'34.9665"N	80°52'56.0293"W	1105.47	90.758	5.08	0.55	-18.42	
6048.00	17.110	43.940	5840.90	-368.17	-8.26	1111.91	1673640.23	14347549.92	39°30'35.0292"N	80°52'55.9458"W	1111.94	90.426	4.88	3.50	-11.94	
6079.00	18.710	38.170	5870.40	-363.38	-1.07	1118.14	1673646.47	14347557.11	39°30'35.1002"N	80°52'55.8661"W	1118.14	90.055	7.70	5.16	-18.61	
6142.00	22.070	27.560	5929.47	-349.73	17.38	1129.87	1673658.19	14347575.55	39°30'35.2824"N	80°52'55.7162"W	1130.01	89.119	7.91	5.33	-16.84	
6205.00	25.260	18.060	5987.18	-330.83	40.67	1139.52	1673667.83	14347598.83	39°30'35.5124"N	80°52'55.5927"W	1140.25	87.956	7.88	5.06	-15.08	
6281.00	28.890	12.700	6054.85	-302.22	74.01	1148.59	1673676.90	14347632.16	39°30'35.8418"N	80°52'55.4764"W	1150.97	86.313	5.75	4.78	-7.05	BH AT Curve <8-1/2">(6205')(6281'-22703')
6385.00	32.450	11.090	6144.29	-256.65	125.91	1159.48	1673687.79	14347684.04	39°30'36.3547"N	80°52'55.3366"W	1166.30	83.802	3.51	3.42	-1.55	
6480.00	38.220	7.380	6221.77	-208.18	180.12	1168.17	1673696.47	14347738.23	39°30'36.8903"N	80°52'55.2249"W	1181.97	81.235	6.48	6.07	-3.91	
6576.00	44.990	1.330	6293.54	-149.63	243.60	1172.78	1673701.08	14347801.68	39°30'37.5176"N	80°52'55.1650"W	1197.81	78.266	8.19	7.05	-6.30	
6595.00†	46.470	359.501	6306.80	-136.79	257.20	1172.87	1673701.17	14347815.28	39°30'37.6521"N	80°52'55.1635"W	1200.74	77.631	10.40	7.79	-9.62	Middlesex: 6595' MD
6670.00	52.560	353.080	6355.50	-81.78	314.03	1169.04	1673697.35	14347872.09	39°30'38.2138"N	80°52'55.2115"W	1210.49	74.964	10.40	8.12	-8.56	
6739.00†	58.302	347.745	6394.66	-25.76	369.99	1159.50	1673687.81	14347928.02	39°30'38.7669"N	80°52'55.3323"W	1217.10	72.303	10.47	8.32	-7.73	Burkett: 6739' MD
6765.00	60.520	345.910	6407.89	-3.49	391.78	1154.40	1673682.70	14347949.80	39°30'38.9824"N	80°52'55.3970"W	1219.06	71.254	10.47	8.53	-7.06	
6778.00†	61.599	344.953	6414.18	7.85	402.79	1151.53	1673679.84	14347960.80	39°30'39.0912"N	80°52'55.4334"W	1219.95	70.721	10.50	8.30	-7.36	Tully: 6778' MD
6812.00	64.450	342.540	6429.60	38.12	431.87	1143.05	1673671.36	14347989.87	39°30'39.3787"N	80°52'55.5412"W	1221.91	69.302	10.50	8.39	-7.10	
6861.00	68.940	340.480	6448.98	83.10	474.53	1128.77	1673657.09	14348032.52	39°30'39.8006"N	80°52'55.7227"W	1224.46	67.198	9.94	9.16	-4.20	
6880.00†	70.587	341.356	6455.56	100.93	491.38	1122.94	1673651.26	14348049.36	39°30'39.9671"N	80°52'55.7967"W	1225.74	66.367	9.69	8.67	4.61	Marcellus POE: 6880' MD
6956.00	77.210	344.700	6476.63	173.85	561.17	1101.67	1673630.00	14348119.13	39°30'40.6573"N	80°52'56.0669"W	1236.37	63.007	9.69	8.71	4.40	
7052.00	86.830	345.260	6489.94	268.59	652.89	1077.07	1673605.41	14348210.81	39°30'41.5640"N	80°52'56.3793"W	1259.50	58.777	10.04	10.02	0.58	
7099.00	90.460	344.800	6491.05	315.46	698.27	1064.94	1673593.28	14348256.17	39°30'42.0127"N	80°52'56.5333"W	1273.45	56.747	7.79	7.72	-0.98	
7147.00	90.580	342.380	6490.61	363.41	744.31	1051.38	1673579.73	14348302.19	39°30'42.4679"N	80°52'56.7056"W	1288.18	54.704	5.05	0.25	-5.04	
7242.00	90.680	337.700	6489.57	458.36	833.58	1018.96	1673547.32	14348391.42	39°30'43.3506"N	80°52'57.1177"W	1316.48	50.715	4.93	0.11	-4.93	
7337.00	90.280	335.400	6488.77	553.05	920.72	981.16	1673509.53	14348478.53	39°30'44.2123"N	80°52'57.5986"W	1345.51	46.820	2.46	-0.42	-2.42	
7432.00	90.280	333.080	6488.31	647.37	1006.27	939.87	1673468.27	14348564.05	39°30'45.0584"N	80°52'58.1239"W	1376.93	43.046	2.44	0.00	-2.44	
7526.00	89.380	333.610	6488.59	740.51	1090.28	897.70	1673426.11	14348648.02	39°30'45.8892"N	80°52'58.6605"W	1412.30	39.467	1.11	-0.96	0.56	

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Actual Wellpath Report

Maggie Unit 2H AWP Proj: 22728'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 2H
Field	Tyler		API	47-095-02638-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (251 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
7621.00	88.980	336.080	6489.95	834.93	1176.26	857.33	1673385.76	14348733.96	39°30'46.7395"N	80°52'59.1742"W	1455.54	36.087	2.63	-0.42	2.60	
7716.00	90.490	340.370	6490.39	929.78	1264.45	822.10	1673350.54	14348822.13	39°30'47.6116"N	80°52'59.6223"W	1508.21	33.030	4.79	1.59	4.52	
7811.00	90.520	341.580	6489.55	1024.78	1354.26	791.13	1673319.58	14348911.90	39°30'48.4996"N	80°53'0.0159"W	1568.41	30.293	1.27	0.03	1.27	
7906.00	90.460	340.620	6488.74	1119.77	1444.13	760.36	1673288.83	14349001.73	39°30'49.3882"N	80°53'0.4071"W	1632.08	27.768	1.01	-0.06	-1.01	
8001.00	90.340	340.110	6488.07	1214.76	1533.61	728.44	1673256.92	14349091.17	39°30'50.2729"N	80°53'0.8129"W	1697.81	25.407	0.55	-0.13	-0.54	
8096.00	90.310	340.140	6487.54	1309.75	1622.95	696.14	1673224.63	14349180.48	39°30'51.1563"N	80°53'1.2235"W	1765.95	23.216	0.04	-0.03	0.03	
8190.00	90.220	340.700	6487.10	1403.74	1711.51	664.64	1673193.15	14349269.00	39°30'52.0320"N	80°53'1.6240"W	1836.03	21.223	0.60	-0.10	0.60	
8285.00	90.220	342.120	6486.74	1498.73	1801.55	634.36	1673162.87	14349359.01	39°30'52.9223"N	80°53'2.0089"W	1909.97	19.398	1.49	0.00	1.49	
8380.00	90.400	345.140	6486.22	1593.63	1892.69	607.59	1673136.11	14349450.11	39°30'53.8234"N	80°53'2.3490"W	1987.82	17.798	3.18	0.19	3.18	
8475.00	90.460	345.190	6485.51	1688.39	1984.52	583.26	1673111.80	14349541.90	39°30'54.7313"N	80°53'2.6578"W	2068.46	16.378	0.08	0.06	0.05	
8570.00	90.430	344.060	6484.77	1783.20	2076.11	558.08	1673086.62	14349633.46	39°30'55.6369"N	80°53'2.9777"W	2149.81	15.046	1.19	-0.03	-1.19	
8664.00	90.430	342.940	6484.07	1877.11	2166.24	531.38	1673059.94	14349723.55	39°30'56.5279"N	80°53'3.3168"W	2230.46	13.783	1.19	0.00	-1.19	
8758.00	90.430	343.140	6483.36	1971.06	2256.15	503.96	1673032.53	14349813.42	39°30'57.4169"N	80°53'3.6652"W	2311.75	12.592	0.21	0.00	0.21	
8853.00	90.370	344.200	6482.70	2065.96	2347.31	477.25	1673005.83	14349904.55	39°30'58.3182"N	80°53'4.0045"W	2395.34	11.493	1.12	-0.06	1.12	
8948.00	90.430	343.770	6482.03	2160.83	2438.62	451.04	1672979.63	14349995.83	39°30'59.2210"N	80°53'4.3375"W	2479.98	10.479	0.46	0.06	-0.45	
9043.00	90.460	342.600	6481.30	2255.76	2529.56	423.56	1672952.16	14350086.72	39°31'0.1201"N	80°53'4.6866"W	2564.77	9.506	1.23	0.03	-1.23	
9138.00	90.800	341.180	6480.25	2350.75	2619.84	394.03	1672922.65	14350176.97	39°31'1.0128"N	80°53'5.0619"W	2649.31	8.553	1.54	0.36	-1.49	
9232.00	90.920	341.950	6478.84	2444.73	2709.01	364.31	1672892.94	14350266.10	39°31'1.8944"N	80°53'5.4397"W	2733.39	7.659	0.83	0.13	0.82	
9327.00	90.620	340.430	6477.56	2539.72	2798.92	333.69	1672862.32	14350355.98	39°31'2.7835"N	80°53'5.8290"W	2818.74	6.799	1.63	-0.32	-1.60	
9421.00	90.740	341.930	6476.45	2633.71	2887.89	303.36	1672832.01	14350444.91	39°31'3.6631"N	80°53'6.2145"W	2903.78	5.997	1.60	0.13	1.60	
9516.00	90.740	341.180	6475.22	2728.70	2978.00	273.31	1672801.97	14350534.99	39°31'4.5541"N	80°53'6.5965"W	2990.52	5.244	0.79	0.00	-0.79	
9611.00	90.680	341.250	6474.04	2823.69	3067.93	242.72	1672771.39	14350624.88	39°31'5.4433"N	80°53'6.9854"W	3077.52	4.524	0.10	-0.06	0.07	
9706.00	90.680	341.360	6472.92	2918.68	3157.91	212.27	1672740.96	14350714.83	39°31'6.3330"N	80°53'7.3724"W	3165.04	3.846	0.12	0.00	0.12	
9799.00	90.680	342.150	6471.81	3011.67	3246.23	183.16	1672711.85	14350803.11	39°31'7.2063"N	80°53'7.7425"W	3251.39	3.229	0.85	0.00	0.85	
9894.00	90.340	340.900	6470.97	3106.66	3336.33	153.05	1672681.76	14350893.17	39°31'8.0971"N	80°53'8.1252"W	3339.84	2.627	1.36	-0.36	-1.32	
9989.00	90.310	340.390	6470.43	3201.66	3425.96	121.57	1672650.29	14350982.77	39°31'8.9833"N	80°53'8.5254"W	3428.12	2.032	0.54	-0.03	-0.54	
10084.00	90.370	339.740	6469.86	3296.64	3515.27	89.18	1672617.91	14351072.04	39°31'9.8664"N	80°53'8.9373"W	3516.40	1.453	0.69	0.06	-0.68	
10180.00	90.280	339.930	6469.32	3392.62	3605.38	56.09	1672584.83	14351162.11	39°31'10.7574"N	80°53'9.3581"W	3605.82	0.891	0.22	-0.09	0.20	
10274.00	90.310	339.800	6468.84	3486.59	3693.63	23.73	1672552.49	14351250.33	39°31'11.6301"N	80°53'9.7696"W	3693.71	0.368	0.14	0.03	-0.14	
10369.00	90.310	339.200	6468.32	3581.55	3782.62	-9.54	1672519.23	14351338.28	39°31'12.5099"N	80°53'10.1927"W	3782.63	359.856	0.63	0.00	-0.63	

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Actual Wellpath Report

Maggie Unit 2H AWP Proj: 22728'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWP
Slot	Slot #06		

WELLPATH DATA (251 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
10464.00	90.310	338.200	6467.81	3676.47	3871.12	-44.05	1672484.74	14351427.75	39°31'13.3851"N	80°53'10.6316"W	3871.37	359.348	1.05	0.00	-1.05	
10559.00	90.310	339.910	6467.29	3771.40	3959.84	-78.01	1672450.80	14351516.43	39°31'14.2624"N	80°53'11.0635"W	3960.61	358.871	1.80	0.00	1.80	
10654.00	90.310	340.400	6466.78	3866.39	4049.20	-110.25	1672418.56	14351605.76	39°31'15.1459"N	80°53'11.4736"W	4050.70	358.440	0.52	0.00	0.52	
10749.00	90.370	340.500	6466.22	3961.38	4138.72	-142.04	1672386.78	14351695.24	39°31'16.0311"N	80°53'11.8778"W	4141.16	358.034	0.12	0.06	0.11	
10843.00	90.400	340.740	6465.58	4065.38	4227.39	-173.24	1672355.60	14351783.88	39°31'16.9078"N	80°53'12.2744"W	4230.94	357.653	0.26	0.03	0.26	
10938.00	90.250	340.450	6465.05	4150.37	4316.99	-204.80	1672324.05	14351873.44	39°31'17.7938"N	80°53'12.6757"W	4321.85	357.284	0.34	-0.16	-0.31	
11032.00	90.250	339.880	6464.64	4244.36	4405.42	-236.69	1672292.17	14351961.83	39°31'18.6681"N	80°53'13.0813"W	4411.77	356.925	0.61	0.00	-0.61	
11127.00	90.250	338.720	6464.22	4339.31	4494.28	-270.27	1672258.61	14352050.66	39°31'19.5468"N	80°53'13.5084"W	4502.40	356.559	1.22	0.00	-1.22	
11222.00	90.310	338.460	6463.76	4434.22	4582.72	-304.95	1672223.94	14352139.07	39°31'20.4213"N	80°53'13.9495"W	4592.86	356.193	0.28	0.06	-0.27	
11316.00	90.250	338.710	6463.30	4528.13	4670.23	-339.27	1672189.63	14352226.54	39°31'21.2866"N	80°53'14.3860"W	4682.54	355.845	0.27	-0.06	0.27	
11411.00	90.250	339.510	6462.88	4623.07	4758.99	-373.15	1672155.77	14352315.26	39°31'22.1642"N	80°53'14.8169"W	4773.59	355.517	0.84	0.00	0.84	
11506.00	90.220	341.260	6462.49	4718.06	4848.47	-405.04	1672123.90	14352404.71	39°31'23.0490"N	80°53'15.2224"W	4865.36	355.225	1.84	-0.03	1.84	
11600.00	90.150	341.470	6462.19	4812.06	4937.54	-435.07	1672093.87	14352493.74	39°31'23.9297"N	80°53'15.6043"W	4956.67	354.964	0.24	-0.07	0.22	
11695.00	90.310	342.660	6461.81	4907.04	5027.92	-464.33	1672064.63	14352584.09	39°31'24.8233"N	80°53'15.9761"W	5049.32	354.724	1.26	0.17	1.25	
11789.00	90.310	344.150	6461.30	5000.96	5118.00	-491.17	1672037.80	14352674.13	39°31'25.7140"N	80°53'16.3173"W	5141.52	354.518	1.59	0.00	1.59	
11884.00	90.280	344.730	6460.81	5095.79	5209.52	-516.65	1672012.32	14352765.61	39°31'26.6188"N	80°53'16.6410"W	5235.08	354.336	0.61	-0.03	0.61	
11979.00	90.310	345.170	6460.32	5190.58	5301.26	-541.32	1671987.67	14352857.31	39°31'27.5258"N	80°53'16.9543"W	5328.83	354.170	0.46	0.03	0.46	
12074.00	90.340	346.520	6459.78	5285.25	5393.37	-564.55	1671964.44	14352949.39	39°31'28.4364"N	80°53'17.2493"W	5422.84	354.024	1.42	0.03	1.42	
12169.00	90.430	346.330	6459.14	5379.83	5485.72	-586.85	1671942.16	14353041.70	39°31'29.3494"N	80°53'17.5324"W	5517.02	353.894	0.22	0.09	-0.20	
12263.00	90.680	345.190	6458.23	5473.51	5576.82	-609.97	1671919.04	14353132.77	39°31'30.2501"N	80°53'17.8260"W	5610.08	353.758	1.24	0.27	-1.21	
12358.00	90.580	342.340	6457.19	5568.40	5668.02	-636.53	1671892.50	14353223.93	39°31'31.1517"N	80°53'18.1635"W	5703.65	353.592	3.00	-0.11	-3.00	
12453.00	90.280	339.380	6456.48	5663.38	5757.75	-667.67	1671861.37	14353313.63	39°31'32.0390"N	80°53'18.5595"W	5796.34	353.386	3.13	-0.32	-3.12	
12547.00	90.370	338.910	6455.94	5757.33	5845.59	-701.13	1671827.92	14353401.43	39°31'32.9075"N	80°53'18.9852"W	5887.49	353.160	0.51	0.10	-0.50	
12641.00	90.220	338.770	6455.46	5851.25	5933.25	-735.07	1671794.00	14353489.06	39°31'33.7743"N	80°53'19.4168"W	5978.61	352.938	0.22	-0.16	-0.15	
12735.00	90.400	340.160	6454.95	5945.21	6021.28	-768.04	1671761.04	14353577.04	39°31'34.6447"N	80°53'19.8362"W	6070.06	352.731	1.49	0.19	1.48	
12829.00	90.370	341.320	6454.32	6039.20	6110.01	-799.04	1671730.05	14353665.74	39°31'35.5221"N	80°53'20.2304"W	6162.04	352.549	1.23	-0.03	1.23	
12923.00	90.400	342.010	6453.69	6133.20	6199.24	-828.61	1671700.49	14353754.93	39°31'36.4043"N	80°53'20.6064"W	6254.37	352.387	0.73	0.03	0.73	
13017.00	90.310	342.000	6453.10	6227.18	6288.64	-857.65	1671671.46	14353844.30	39°31'37.2882"N	80°53'20.9756"W	6346.85	352.234	0.10	-0.10	-0.01	
13112.00	90.310	341.430	6452.59	6322.18	6378.84	-887.46	1671641.67	14353934.46	39°31'38.1801"N	80°53'21.3545"W	6440.28	352.080	0.60	0.00	-0.60	
13206.00	90.340	341.030	6452.06	6416.17	6467.84	-917.70	1671611.44	14354023.43	39°31'39.0600"N	80°53'21.7391"W	6532.62	351.924	0.43	0.03	-0.43	

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Actual Wellpath Report

Maggie Unit 2H AWP Proj: 22728'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (251 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
13300.00	90.340	339.460	6451.50	6510.16	6556.30	-949.47	1671579.68	14354111.86	39°31'39.9347"N	80°53'22.1432"W	6624.70	351.760	1.67	0.00	-1.67	
13395.00	90.310	338.460	6450.96	6605.09	6644.97	-983.58	1671545.59	14354200.48	39°31'40.8114"N	80°53'22.5770"W	6717.37	351.580	1.05	-0.03	-1.05	
13490.00	90.340	338.060	6450.42	6699.97	6733.21	-1018.76	1671510.41	14354288.69	39°31'41.6840"N	80°53'23.0247"W	6809.84	351.396	0.42	0.03	-0.42	
13585.00	90.280	337.760	6449.91	6794.83	6821.23	-1054.49	1671474.70	14354376.68	39°31'42.5544"N	80°53'23.4793"W	6902.26	351.212	0.32	-0.06	-0.32	
13679.00	90.310	336.440	6449.42	6888.59	6907.82	-1091.07	1671438.14	14354463.23	39°31'43.4106"N	80°53'23.9447"W	6993.46	351.024	1.40	0.03	-1.40	
13774.00	90.250	336.970	6448.96	6983.31	6995.08	-1128.64	1671400.59	14354550.45	39°31'44.2734"N	80°53'24.4228"W	7085.54	350.834	0.56	-0.06	0.56	
13869.00	90.340	339.460	6448.47	7078.19	7083.28	-1163.89	1671365.35	14354638.62	39°31'45.1456"N	80°53'24.8713"W	7178.27	350.669	2.62	0.09	2.62	
13964.00	90.370	342.980	6447.88	7173.17	7173.21	-1194.47	1671334.78	14354728.52	39°31'46.0348"N	80°53'25.2602"W	7271.98	350.546	3.71	0.03	3.71	
14059.00	90.310	344.520	6447.32	7268.06	7264.41	-1221.05	1671308.21	14354819.68	39°31'46.9365"N	80°53'25.5980"W	7366.32	350.459	1.62	-0.06	1.62	
14153.00	90.490	344.090	6446.66	7361.91	7354.90	-1246.48	1671282.79	14354910.14	39°31'47.8311"N	80°53'25.9211"W	7459.78	350.381	0.50	0.19	-0.46	
14248.00	90.280	345.120	6446.02	7456.73	7446.49	-1271.70	1671257.58	14355001.69	39°31'48.7366"N	80°53'26.2415"W	7554.30	350.309	1.11	-0.22	1.08	
14342.00	90.090	343.690	6445.72	7550.57	7537.03	-1296.97	1671232.32	14355092.19	39°31'49.6317"N	80°53'26.5626"W	7647.80	350.236	1.53	-0.20	-1.52	
14436.00	90.030	342.180	6445.62	7644.52	7626.89	-1324.55	1671204.75	14355182.01	39°31'50.5202"N	80°53'26.9133"W	7741.05	350.148	1.61	-0.06	-1.61	
14530.00	90.090	340.710	6445.52	7738.51	7716.00	-1354.46	1671174.85	14355271.09	39°31'51.4012"N	80°53'27.2936"W	7833.98	350.044	1.57	0.06	-1.56	
14624.00	90.090	339.270	6445.37	7832.49	7804.32	-1386.63	1671142.70	14355359.37	39°31'52.2745"N	80°53'27.7028"W	7926.55	349.925	1.53	0.00	-1.53	
14719.00	90.120	339.210	6445.20	7927.44	7893.15	-1420.30	1671109.04	14355448.17	39°31'53.1529"N	80°53'28.1312"W	8019.92	349.799	0.07	0.03	-0.06	
14813.00	89.880	338.100	6445.20	8021.36	7980.70	-1454.51	1671074.84	14355535.68	39°31'54.0186"N	80°53'28.5665"W	8112.17	349.671	1.21	-0.26	-1.18	
14907.00	90.090	338.550	6445.22	8115.25	8068.06	-1489.23	1671040.14	14355623.00	39°31'54.8823"N	80°53'29.0082"W	8204.35	349.542	0.53	0.22	0.48	
15001.00	90.250	338.880	6444.95	8209.17	8155.64	-1523.35	1671006.03	14355710.56	39°31'55.7484"N	80°53'29.4423"W	8296.69	349.420	0.39	0.17	0.35	
15095.00	90.580	339.220	6444.27	8303.10	8243.43	-1556.96	1670972.43	14355798.30	39°31'56.6164"N	80°53'29.8699"W	8389.17	349.304	0.50	0.35	0.36	
15190.00	90.650	338.680	6443.25	8398.03	8332.08	-1591.08	1670938.33	14355886.92	39°31'57.4930"N	80°53'30.3040"W	8482.64	349.189	0.57	0.07	-0.57	
15285.00	90.550	339.290	6442.25	8492.96	8420.76	-1625.15	1670904.27	14355975.56	39°31'58.3698"N	80°53'30.7375"W	8576.15	349.077	0.65	-0.11	0.64	
15379.00	90.520	340.820	6441.37	8586.94	8509.11	-1657.21	1670872.22	14356063.88	39°31'59.2434"N	80°53'31.1453"W	8668.99	348.979	1.63	-0.03	1.63	
15474.00	91.020	341.070	6440.10	8681.93	8598.90	-1688.22	1670841.22	14356153.63	39°32'0.1312"N	80°53'31.5397"W	8763.06	348.892	0.59	0.53	0.26	
15570.00	90.980	339.200	6438.42	8777.90	8689.17	-1720.84	1670808.62	14356243.87	39°32'1.0237"N	80°53'31.9546"W	8857.93	348.798	1.95	-0.04	-1.95	
15664.00	90.830	340.260	6436.94	8871.86	8777.34	-1753.40	1670776.07	14356332.00	39°32'1.8955"N	80°53'32.3689"W	8950.76	348.703	1.14	-0.16	1.13	
15759.00	90.800	342.710	6435.58	8966.84	8867.40	-1783.56	1670745.92	14356422.03	39°32'2.7860"N	80°53'32.7524"W	9044.99	348.627	2.58	-0.03	2.58	
15853.00	90.860	343.440	6434.22	9060.77	8957.32	-1810.92	1670718.57	14356511.91	39°32'3.6750"N	80°53'33.1003"W	9138.55	348.570	0.78	0.06	0.78	
15948.00	90.860	342.890	6432.80	9155.70	9048.24	-1838.43	1670691.07	14356602.79	39°32'4.5739"N	80°53'33.4500"W	9233.12	348.515	0.58	0.00	-0.58	
16043.00	91.020	341.230	6431.24	9250.67	9138.61	-1867.69	1670661.83	14356693.12	39°32'5.4674"N	80°53'33.8221"W	9327.51	348.449	1.76	0.17	-1.75	

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Actual Wellpath Report

Maggie Unit 2H AWP Proj: 22728'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (251 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
16138.00	90.920	341.350	6429.63	9345.66	9228.57	-1898.16	1670631.37	14356783.05	39°32'6.3569"N	80°53'34.2096"W	9421.76	348.377	0.16	-0.11	0.13	
16232.00	90.980	342.160	6428.07	9439.64	9317.83	-1927.59	1670601.96	14356872.28	39°32'7.2394"N	80°53'34.5838"W	9515.13	348.312	0.86	0.06	0.86	
16327.00	90.950	343.870	6426.47	9534.57	9408.67	-1955.33	1670574.22	14356963.08	39°32'8.1376"N	80°53'34.9365"W	9609.71	348.260	1.80	-0.03	1.80	
16421.00	91.050	344.560	6424.83	9628.41	9499.11	-1980.90	1670548.66	14357053.49	39°32'9.0317"N	80°53'35.2615"W	9703.46	348.221	0.74	0.11	0.73	
16516.00	90.490	343.470	6423.55	9723.28	9590.43	-2007.06	1670522.52	14357144.77	39°32'9.9345"N	80°53'35.5940"W	9798.20	348.180	1.29	-0.59	-1.15	
16611.00	90.340	341.600	6422.87	9818.24	9681.05	-2035.57	1670494.02	14357235.34	39°32'10.8304"N	80°53'35.9565"W	9892.73	348.126	1.97	-0.16	-1.97	
16705.00	90.310	339.990	6422.33	9912.23	9769.81	-2066.49	1670463.11	14357324.07	39°32'11.7081"N	80°53'36.3498"W	9985.97	348.057	1.71	-0.03	-1.71	
16800.00	90.280	339.150	6421.84	10007.20	9858.83	-2099.65	1670429.96	14357413.06	39°32'12.5883"N	80°53'36.7717"W	10079.93	347.977	0.88	-0.03	-0.88	
16895.00	90.310	340.500	6421.35	10102.17	9948.00	-2132.41	1670397.21	14357502.19	39°32'13.4700"N	80°53'37.1885"W	10173.98	347.901	1.42	0.03	1.42	
16995.00	90.400	344.210	6420.73	10202.13	10043.28	-2162.72	1670366.92	14357597.43	39°32'14.4120"N	80°53'37.5739"W	10273.50	347.848	3.71	0.09	3.71	
17085.00	90.370	345.480	6420.13	10291.93	10130.14	-2186.25	1670343.40	14357684.26	39°32'15.2708"N	80°53'37.8729"W	10363.37	347.821	1.41	-0.03	1.41	
17180.00	90.400	345.070	6419.49	10386.68	10222.02	-2210.39	1670319.26	14357776.10	39°32'16.1791"N	80°53'38.1797"W	10458.28	347.798	0.43	0.03	-0.43	
17275.00	90.370	344.780	6418.85	10481.46	10313.75	-2235.10	1670294.57	14357867.79	39°32'17.0860"N	80°53'38.4937"W	10553.16	347.772	0.31	-0.03	-0.31	
17370.00	90.400	343.670	6418.21	10576.31	10405.17	-2260.92	1670268.75	14357959.18	39°32'17.9898"N	80°53'38.8219"W	10647.97	347.741	1.17	0.03	-1.17	
17463.00	90.250	343.280	6417.69	10669.23	10494.32	-2287.38	1670242.31	14358048.30	39°32'18.8713"N	80°53'39.1582"W	10740.71	347.704	0.45	-0.16	-0.42	
17558.00	90.520	343.580	6417.05	10764.15	10585.38	-2314.47	1670215.23	14358139.31	39°32'19.7715"N	80°53'39.5026"W	10835.45	347.667	0.42	0.28	0.32	
17653.00	90.460	344.150	6416.24	10859.04	10676.63	-2340.87	1670188.84	14358230.53	39°32'20.6737"N	80°53'39.8382"W	10930.24	347.633	0.60	-0.06	0.60	
17748.00	90.400	342.450	6415.52	10953.96	10767.62	-2368.17	1670161.55	14358321.48	39°32'21.5732"N	80°53'40.1853"W	11024.96	347.596	1.79	-0.06	-1.79	
17843.00	90.310	341.290	6414.93	11048.95	10857.90	-2397.73	1670132.00	14358411.73	39°32'22.4658"N	80°53'40.5612"W	11119.49	347.547	1.22	-0.09	-1.22	
17937.00	90.370	340.040	6414.38	11142.94	10946.59	-2428.85	1670100.90	14358500.39	39°32'23.3428"N	80°53'40.9572"W	11212.81	347.490	1.33	0.06	-1.33	
18032.00	90.830	338.390	6413.38	11237.88	11035.40	-2462.56	1670067.20	14358589.16	39°32'24.2209"N	80°53'41.3861"W	11308.83	347.421	1.80	0.48	-1.74	
18127.00	90.770	338.480	6412.06	11332.77	11123.74	-2497.47	1670032.30	14358677.47	39°32'25.0944"N	80°53'41.8304"W	11400.66	347.346	0.11	-0.06	0.09	
18222.00	90.710	338.390	6410.83	11427.66	11212.09	-2532.39	1669997.40	14358765.77	39°32'25.9679"N	80°53'42.2748"W	11494.51	347.273	0.11	-0.06	-0.09	
18317.00	90.710	340.600	6409.65	11522.61	11301.06	-2565.66	1669964.14	14358854.71	39°32'26.8476"N	80°53'42.6981"W	11588.64	347.209	2.33	0.00	2.33	
18412.00	90.980	341.550	6408.25	11617.60	11390.91	-2596.47	1669933.34	14358944.52	39°32'27.7360"N	80°53'43.0900"W	11683.08	347.159	1.04	0.28	1.00	
18507.00	90.920	340.900	6406.68	11712.58	11480.84	-2627.04	1669902.79	14359034.42	39°32'28.6252"N	80°53'43.4789"W	11777.57	347.112	0.69	-0.06	-0.68	
18602.00	91.020	338.810	6405.07	11807.54	11570.01	-2659.75	1669870.09	14359123.55	39°32'29.5069"N	80°53'43.8952"W	11871.79	347.054	2.20	0.11	-2.20	
18697.00	90.890	338.590	6403.48	11902.45	11658.51	-2694.25	1669835.60	14359212.02	39°32'30.3819"N	80°53'44.3343"W	11965.78	346.988	0.27	-0.14	-0.23	
18791.00	91.020	339.300	6401.92	11996.37	11746.22	-2728.02	1669801.84	14359299.69	39°32'31.2492"N	80°53'44.7640"W	12058.85	346.925	0.77	0.14	0.76	
18886.00	90.980	339.710	6400.26	12091.32	11835.19	-2761.28	1669768.60	14359388.63	39°32'32.1289"N	80°53'45.1872"W	12153.04	346.867	0.43	-0.04	0.43	

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Actual Wellpath Report

Maggie Unit 2H AWP Proj: 22728'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Maggie Unit 2H
Field	Tyler		API	47-095-02638-0000
Facility	Gamehenge East Pad		Wellbore	Maggie Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (251 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
18981.00	90.920	339.060	6398.68	12186.26	11924.10	-2794.72	1669735.17	14359477.50	39°32'33.0080"N	80°53'45.6127"W	12247.23	346.809	0.69	-0.06	-0.68	
19076.00	91.020	339.420	6397.08	12281.20	12012.92	-2828.39	1669701.52	14359566.28	39°32'33.8862"N	80°53'46.0412"W	12341.39	346.751	0.39	0.11	0.38	
19171.00	90.650	338.930	6395.69	12376.13	12101.70	-2862.16	1669667.76	14359655.03	39°32'34.7640"N	80°53'46.4709"W	12435.56	346.694	0.65	-0.39	-0.52	
19266.00	90.650	338.790	6394.61	12471.06	12190.30	-2896.42	1669633.51	14359743.60	39°32'35.6401"N	80°53'46.9069"W	12529.67	346.634	0.15	0.00	-0.15	
19361.00	90.550	337.980	6393.62	12565.94	12278.62	-2931.41	1669598.54	14359831.88	39°32'36.5133"N	80°53'47.3523"W	12623.69	346.572	0.86	-0.11	-0.85	
19456.00	90.490	338.080	6392.76	12660.80	12366.71	-2966.95	1669563.01	14359919.94	39°32'37.3844"N	80°53'47.8047"W	12717.64	346.509	0.12	-0.06	0.11	
19551.00	90.490	338.390	6391.94	12755.68	12454.94	-3002.17	1669527.80	14360008.13	39°32'38.2568"N	80°53'48.2530"W	12811.66	346.448	0.33	0.00	0.33	
19645.00	90.430	340.020	6391.19	12849.63	12542.81	-3035.54	1669494.44	14360095.96	39°32'39.1256"N	80°53'48.6777"W	12904.91	346.395	1.74	-0.06	1.73	
19740.00	90.520	340.860	6390.40	12944.62	12632.32	-3067.35	1669462.65	14360185.44	39°32'40.0106"N	80°53'49.0824"W	12999.39	346.352	0.89	0.09	0.88	
19835.00	90.770	342.300	6389.33	13039.60	12722.45	-3097.36	1669432.65	14360275.53	39°32'40.9017"N	80°53'49.4642"W	13094.06	346.317	1.54	0.26	1.52	
19931.00	90.580	343.240	6388.20	13135.55	12814.13	-3125.80	1669404.23	14360367.18	39°32'41.8082"N	80°53'49.8258"W	13189.87	346.291	1.00	-0.20	0.98	
20026.00	90.620	342.830	6387.21	13230.49	12904.99	-3153.52	1669376.52	14360458.00	39°32'42.7065"N	80°53'50.1783"W	13284.71	346.268	0.43	0.04	-0.43	
20121.00	90.650	341.870	6386.15	13325.46	12995.51	-3182.32	1669347.73	14360548.49	39°32'43.6015"N	80°53'50.5447"W	13379.48	346.240	1.01	0.03	-1.01	
20215.00	90.520	341.260	6385.19	13419.46	13084.69	-3212.04	1669318.02	14360637.62	39°32'44.4831"N	80°53'50.9228"W	13473.17	346.208	0.66	-0.14	-0.65	
20310.00	90.650	340.150	6384.22	13514.45	13174.34	-3243.43	1669286.64	14360727.24	39°32'45.3696"N	80°53'51.3222"W	13567.73	346.169	1.18	0.14	-1.17	
20404.00	90.710	340.390	6383.11	13608.43	13262.82	-3275.16	1669254.92	14360815.68	39°32'46.2443"N	80°53'51.7259"W	13661.22	346.129	0.26	0.06	0.26	
20499.00	90.650	341.220	6381.98	13703.42	13352.53	-3306.39	1669223.70	14360905.36	39°32'47.1313"N	80°53'52.1233"W	13755.81	346.092	0.88	-0.06	0.87	
20593.00	90.650	342.730	6380.91	13797.40	13441.91	-3335.48	1669194.63	14360994.70	39°32'48.0150"N	80°53'52.4933"W	13849.56	346.064	1.61	0.00	1.61	
20689.00	90.680	343.750	6379.80	13893.33	13533.82	-3363.16	1669166.96	14361086.58	39°32'48.9237"N	80°53'52.8453"W	13945.44	346.045	1.06	0.03	1.06	
20784.00	90.770	343.800	6378.60	13988.22	13625.03	-3389.70	1669140.43	14361177.75	39°32'49.8255"N	80°53'53.1828"W	14040.35	346.029	0.11	0.09	0.05	
20880.00	90.680	342.880	6377.38	14084.13	13716.99	-3417.22	1669112.92	14361269.68	39°32'50.7347"N	80°53'53.5328"W	14136.24	346.011	0.96	-0.09	-0.96	
20975.00	90.680	342.510	6376.26	14179.09	13807.69	-3445.48	1669084.67	14361360.33	39°32'51.6313"N	80°53'53.8922"W	14231.08	345.989	0.39	0.00	-0.39	
21069.00	90.580	342.360	6375.22	14273.06	13897.30	-3473.84	1669056.32	14361449.91	39°32'52.5173"N	80°53'54.2530"W	14324.89	345.966	0.19	-0.11	-0.16	
21164.00	90.650	342.170	6374.20	14368.03	13987.78	-3502.78	1669027.39	14361540.35	39°32'53.4119"N	80°53'54.6211"W	14419.69	345.941	0.21	0.07	-0.20	
21259.00	90.520	341.730	6373.23	14463.02	14078.10	-3532.21	1668997.97	14361630.64	39°32'54.3049"N	80°53'54.9955"W	14514.45	345.915	0.48	-0.14	-0.46	
21353.00	90.680	342.400	6372.25	14557.00	14167.53	-3561.16	1668969.04	14361720.03	39°32'55.1890"N	80°53'55.3637"W	14608.24	345.890	0.73	0.17	0.71	
21448.00	90.620	341.940	6371.17	14651.97	14257.96	-3590.24	1668939.96	14361810.42	39°32'56.0831"N	80°53'55.7337"W	14703.03	345.866	0.49	-0.06	-0.48	
21543.00	90.860	343.500	6369.94	14746.92	14348.66	-3618.46	1668911.76	14361901.09	39°32'56.9798"N	80°53'56.0926"W	14797.88	345.846	1.66	0.25	1.64	
21638.00	90.000	343.540	6369.23	14841.83	14439.75	-3645.41	1668884.82	14361992.14	39°32'57.8804"N	80°53'56.4353"W	14892.80	345.831	0.91	-0.91	0.04	
21733.00	91.720	346.120	6367.80	14936.61	14531.42	-3670.26	1668859.98	14362083.78	39°32'58.7867"N	80°53'56.7513"W	14987.76	345.825	3.26	1.81	2.72	

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Actual Wellpath Report

Maggie Unit 2H AWP Proj: 22728'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (251 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
21829.00	92.620	345.670	6364.17	15032.20	14624.46	-3693.64	1668836.61	14362176.78	39°32'59.7065"N	80°53'57.0484"W	15083.69	345.825	1.05	0.94	-0.47	
21924.00	90.280	339.310	6361.76	15127.09	14714.97	-3722.20	1668808.06	14362267.25	39°33'0.6014"N	80°53'57.4117"W	15178.45	345.805	7.13	-2.46	-6.69	
22019.00	90.740	335.930	6360.92	15221.90	14802.80	-3758.37	1668771.91	14362355.05	39°33'1.4698"N	80°53'57.8721"W	15272.47	345.754	3.59	0.48	-3.56	
22114.00	91.480	336.780	6359.08	15316.55	14889.81	-3796.46	1668733.83	14362442.02	39°33'2.3301"N	80°53'58.3572"W	15366.18	345.696	1.19	0.78	0.89	
22208.00	91.080	337.990	6356.98	15410.33	14976.56	-3832.60	1668697.71	14362528.73	39°33'3.1879"N	80°53'58.8173"W	15459.17	345.646	1.36	-0.43	1.29	
22303.00	90.830	338.150	6355.39	15505.19	15064.67	-3868.07	1668662.25	14362616.81	39°33'4.0591"N	80°53'59.2689"W	15553.34	345.600	0.31	-0.26	0.17	
22398.00	91.080	338.670	6353.81	15600.07	15152.99	-3903.02	1668627.31	14362705.10	39°33'4.9324"N	80°53'59.7139"W	15647.58	345.556	0.61	0.26	0.55	
22493.00	90.180	337.960	6352.77	15694.95	15241.26	-3938.12	1668592.23	14362793.33	39°33'5.8052"N	80°54'0.1607"W	15741.82	345.512	1.21	-0.95	-0.75	
22588.00	89.780	336.880	6352.80	15789.75	15328.98	-3974.60	1668555.76	14362881.01	39°33'6.6725"N	80°54'0.6251"W	15835.88	345.464	1.21	-0.42	-1.14	
22703.00	89.320	336.870	6353.70	15904.44	15434.73	-4019.76	1668510.62	14362986.73	39°33'7.7182"N	80°54'1.2002"W	15949.59	345.402	0.40	-0.40	-0.01	
22728.00	89.320	336.870	6354.00	15929.37	15457.72	-4029.58	1668500.80	14363009.71	39°33'7.9456"N	80°54'1.3252"W	15974.32	345.389	0.00	0.00	0.00	Projected MD at TD: 22728' MD

HOLE & CASING SECTIONS - Ref Wellbore: Maggie Unit 2H AWB Ref Wellpath: Maggie Unit 2H AWP Proj: 22728'									
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	0.23	0.09
17.5in Open Hole	110.00	474.40	364.40	110.00	474.39	0.23	0.09	-1.07	1.77
13.375in Casing Surface	30.00	474.40	444.40	30.00	474.39	0.00	0.00	-1.07	1.77
12.25in Open Hole	474.40	2603.30	2128.90	474.39	2603.26	-1.07	1.77	-8.48	3.32
9.625in Casing Intermediate	30.00	2603.30	2573.30	30.00	2603.26	0.00	0.00	-8.48	3.32
8.75in Open Hole	2603.00	6309.00	3706.00	2602.96	6079.26	-8.48	3.32	87.42	1151.55
8.5in Open Hole	6309.00	22728.00	16419.00	6079.26	6354.00	87.42	1151.55	15457.72	-4029.58
5.5in Casing Production	30.00	22728.00	22698.00	30.00	6354.00	0.00	0.00	15457.72	-4029.58

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Maggie Unit 2H AWP Proj: 22728'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWB
Slot	Slot #06		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Maggie Unit 2H - POE - Rev-3	6459.00	505.52	1112.34	1673640.66	14348063.50	39°30'40.1071"N	80°52'55.9318"W	point
Maggie Unit 2H - BHL - Rev-3	6494.00	15438.18	-4003.57	1668526.80	14362990.17	39°33'7.7521"N	80°54'0.9935"W	point
Maggie Unit 2H - LP - Rev-3	6494.00	704.17	1044.28	1673572.63	14348262.07	39°30'42.0713"N	80°52'56.7968"W	point
Maggie Unit 2H - 50' L/R Hardline	6550.00	7971.85	-1445.62	1671083.73	14355526.84	39°31'53.9310"N	80°53'28.4531"W	rectangle
2D Rectangle 15788.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Maggie Unit 2H AWB Ref Wellpath: Maggie Unit 2H AWP Proj: 22728'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	2534.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <12-1/4">(100'-2519')	Maggie Unit 2H AWB	1/3/2020
2534.00	6205.00	OWSG MWD rev2 + HRGM	02 WFT EM <8-3/4">(2519')(2648'-6190')	Maggie Unit 2H AWB	1/3/2020
6205.00	22728.00	BH AutoTrak Curve (2019) (Short spacing)	03 BH AT Curve <8-1/2">(6205')(6281'-22703')	Maggie Unit 2H AWB	2/13/2020

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Maggie Unit 2H AWP Proj: 22728'

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Operator	ANTERO RESOURCES CORPORATION	Well	Maggie Unit 2H
Field	Tyler	API	47-095-02638-0000
Facility	Gamehenge East Pad	Wellbore	Maggie Unit 2H AWB
Slot	Slot #06		

COMMENTS

Wellpath general comments

API: 47-095-02638-0000

BHI Job #: 110276137A

Rig: H&P 519

Duration: 02/16/2020-02/18/2020

Gyrodatta MS Gyro <12-1/4">(100'-2519')

WFT EM <8-3/4">(2519')(2648'-6190')

BH AT Curve <8-1/2">(6205')(6281'-22703')

Middlesex: 6595' MD

Burkett: 6739' MD

Tully: 6778' MD

Marcellus POE: 6880' MD

Projected MD at TD: 22728' MD

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