



ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
Field: Tyler
Facility: Grand Pad

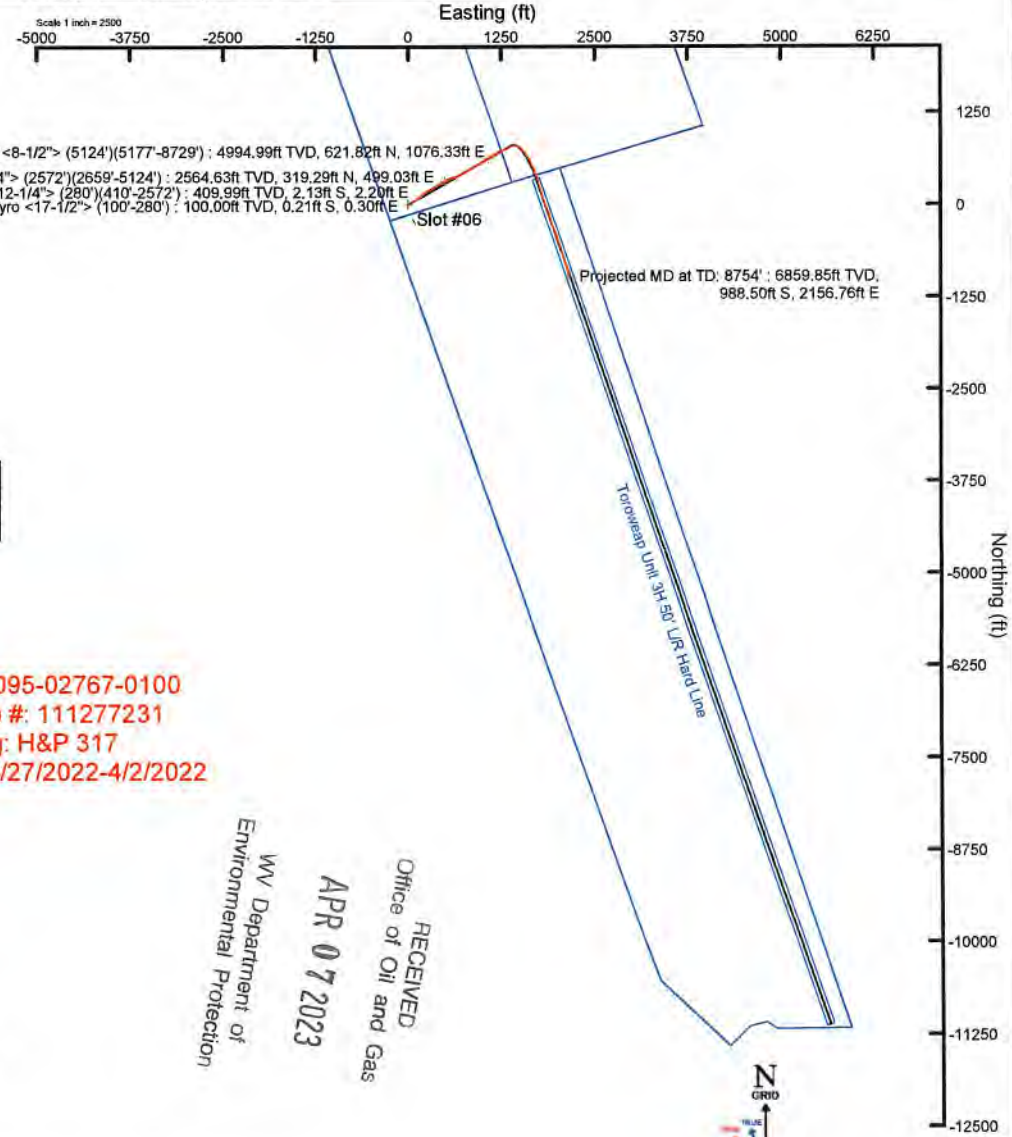
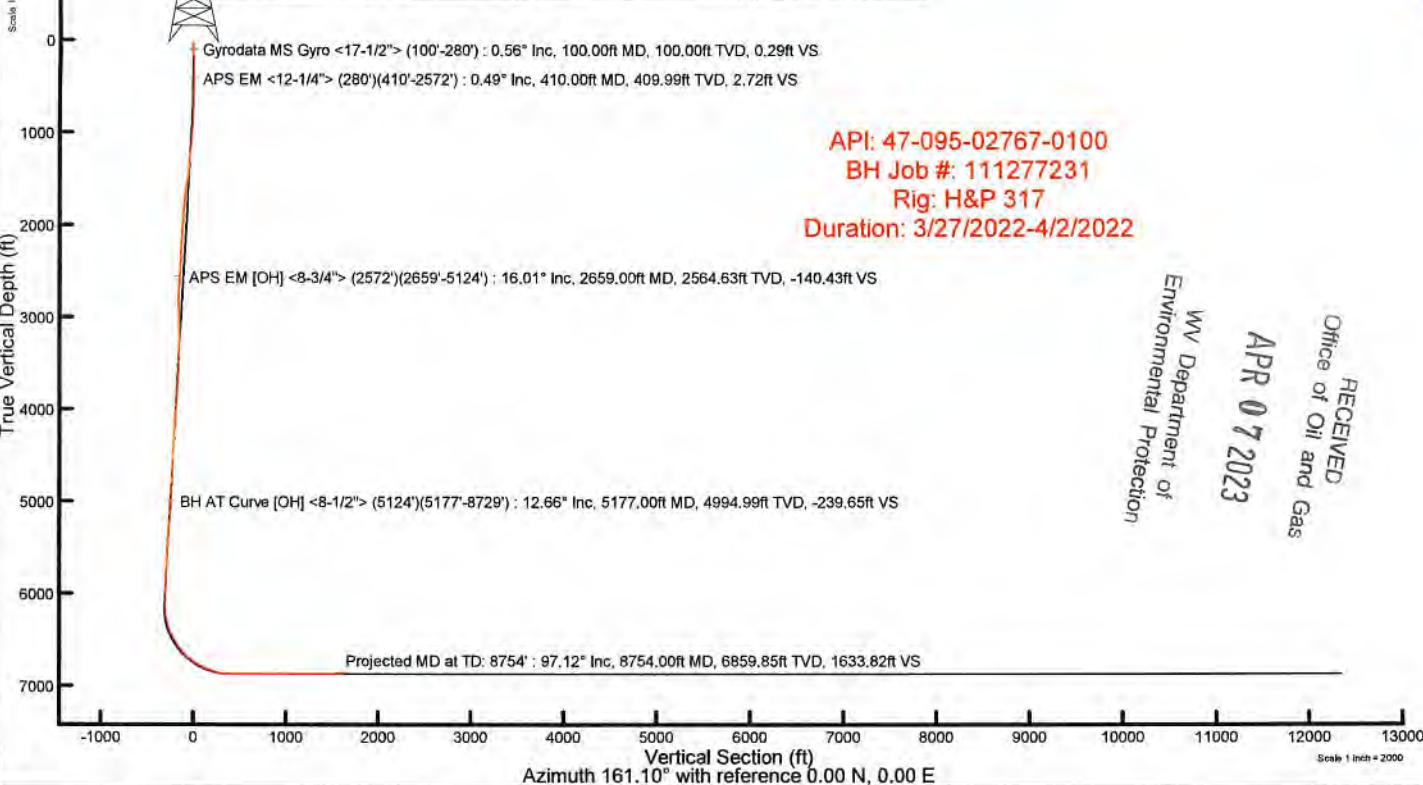
Slot: Slot #06
Well: Toroweap Unit 3H
Wellbore: Toroweap Unit 3H PWB

1) Slot reference wellpath is Toroweap Unit 3H PWP Rev-A.1	Grid System: NAD2011 / UTM Zone 17 North, US Feet
True vertical depths are referenced to H&P 317 (RKB)	Depth Reference: Grid truth
2) Wellbore wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1265.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #06) -1243 feet	Depths are in feet
3) Other wellbore MDs are referenced to each well's default MD datum.	Created by: mhaynes on 2022-04-10, Database: WA_MPL_EASTTERRAIS_Oils

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Grand Pad	1693813.570	14346645.540	39°30'25.7868"N	80°46'35.4904"W
Slot	Local E (ft)	Grid East (US ft)	Latitude	Longitude
Slot #06	196.89	1693753.730	39°30'27.7340"N	80°46'39.2440"W
Comment: Toroweap Unit 3H				
H&P 317 (RKB) to Ground level (At Slot: Slot #06)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot #06)	-1243ft			
H&P 317 (RKB) to Mean Sea Level	1268.5ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	25.50	0.000	60.036	25.50	0.00	0.00	0.00	0.00
KOP 1	430.00	0.000	60.036	430.00	0.00	0.00	0.00	0.00
End of Build	978.76	16.463	60.036	971.24	39.10	67.83	3.00	-15.02
Curve KOP	6362.26	16.463	60.036	6134.06	801.09	1389.56	0.00	-307.80
POE	7344.04	74.817	161.101	6849.00	349.30	1716.37	8.00	225.50
Landing Pt.	7533.83	90.000	161.101	6874.00	171.83	1777.13	8.00	413.07
BHL	19467.85	90.000	161.101	6874.00	-11118.85	5642.54	0.00	12347.10

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Toroweap Unit 3H	Toroweap Unit 3H AWB	Toroweap Unit 3H AWP Proj: 8754'
Slot #06	Toroweap Unit 3H	Toroweap Unit 3H PWB	Toroweap Unit 3H PWP Rev-A.1



API: 47-095-02767-0100
BH Job #: 111277231
Rig: H&P 317
Duration: 3/27/2022-4/2/2022

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User specified (HDGM) Dip: 66.41° Field: 51736 nT
Magnetic North is 7.46 degrees West of True North (at 25/Mar/2022)
Grid North is 0.12 degrees East of True North
To correct azimuth from True to Grid subtract 0.12 degrees
To correct azimuth from Magnetic to Grid subtract 7.58 degrees



Actual Wellpath Report

Toroweap Unit 3H AWP Proj: 8754'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Toroweap Unit 3H
Field	Tyler	API	47-095-02767-0100
Facility	Grand Pad	Wellbore	Toroweap Unit 3H 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	Edsaryar
Scale	0.999603	Report Generated	10/Apr/2022 at 22:01
Convergence at slot	0.12° 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	196.89	-60.26	1693753.73	14346846.35	39°30'27.7340"N	80°48'39.2440"W
Facility Reference Pt			1693813.97	14346649.54	39°30'25.7868"N	80°48'38.4804"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1268.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1268.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #06)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.10°

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Toroweap Unit 3H AWP Proj: 8754'
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Field	Tyler	API	47-095-02767-0100
Facility	Grand Pad	Wellbore	Toroweap Unit 3H AWB
Slot	Slot #06		

WELLPATH DATA (99 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]
0.00†	0.000	124.740	0.00	0.00	0.00	0.00	1693753.73	14346846.35	39°30'27.7340"N	80°48'39.2440"W	0.00	0.000	0.00	0.00	0.00
25.50	0.000	124.740	25.50	0.00	0.00	0.00	1693753.73	14346846.35	39°30'27.7340"N	80°48'39.2440"W	0.00	0.000	0.00	0.00	0.00
100.00	0.560	124.740	100.00	0.29	-0.21	0.30	1693754.03	14346846.14	39°30'27.7319"N	80°48'39.2402"W	0.36	124.740	0.75	0.75	0.00
200.00	0.590	130.070	199.99	1.13	-0.82	1.09	1693754.82	14346845.53	39°30'27.7259"N	80°48'39.2300"W	1.37	126.746	0.06	0.03	5.33
280.00	0.410	141.630	279.99	1.75	-1.31	1.59	1693755.32	14346845.04	39°30'27.7210"N	80°48'39.2237"W	2.06	129.461	0.26	-0.22	14.45
410.00	0.490	144.840	409.99	2.72	-2.13	2.20	1693755.93	14346844.22	39°30'27.7129"N	80°48'39.2160"W	3.06	134.067	0.06	0.06	2.47
500.00	2.040	84.510	499.96	3.46	-2.29	4.01	1693757.74	14346844.06	39°30'27.7113"N	80°48'39.1928"W	4.62	119.685	2.05	1.72	-67.03
591.00	3.520	76.110	590.86	4.08	-1.46	8.34	1693762.06	14346844.89	39°30'27.7193"N	80°48'39.1376"W	8.46	99.945	1.68	1.63	-9.23
681.00	5.290	69.900	680.59	4.24	0.63	14.92	1693768.64	14346846.98	39°30'27.7398"N	80°48'39.0536"W	14.93	87.591	2.03	1.97	-6.90
773.00	7.240	63.380	772.03	3.37	4.68	24.08	1693777.80	14346851.03	39°30'27.7797"N	80°48'38.9366"W	24.53	78.996	2.25	2.12	-7.09
863.00	9.620	56.410	861.06	0.70	11.39	35.42	1693789.13	14346857.73	39°30'27.8457"N	80°48'38.7918"W	37.20	72.180	2.87	2.64	-7.74
953.00	11.900	54.270	949.47	-3.89	20.97	49.22	1693802.93	14346867.31	39°30'27.9401"N	80°48'38.6155"W	53.50	66.927	2.57	2.53	-2.38
1043.00	14.360	53.670	1037.11	-9.92	33.00	65.74	1693819.45	14346879.34	39°30'28.0587"N	80°48'38.4043"W	73.56	63.347	2.74	2.73	-0.67
1137.00	17.270	53.910	1127.54	-17.54	48.13	86.41	1693840.11	14346894.46	39°30'28.2078"N	80°48'38.1402"W	98.91	60.885	3.10	3.10	0.26
1292.00	18.050	53.900	1218.06	-26.06	65.11	109.70	1693863.39	14346911.43	39°30'28.3751"N	80°48'37.8426"W	127.57	59.312	0.82	0.82	-0.01
1327.00	17.350	51.020	1308.57	-35.28	82.69	132.61	1693886.28	14346929.00	39°30'28.5484"N	80°48'37.5499"W	156.27	58.054	1.18	-0.74	-3.03
1421.00	18.120	50.980	1398.10	-45.12	100.71	154.86	1693908.53	14346947.02	39°30'28.7261"N	80°48'37.2656"W	184.72	56.963	0.82	0.82	-0.04
1516.00	18.330	50.450	1488.33	-55.47	119.52	177.85	1693931.51	14346965.82	39°30'28.9115"N	80°48'36.9717"W	214.28	56.098	0.28	0.22	-0.56
1611.00	20.060	50.500	1578.05	-66.47	139.40	201.95	1693955.60	14346985.69	39°30'29.1075"N	80°48'36.6638"W	245.39	55.384	1.82	1.82	0.05
1705.00	23.540	52.780	1865.32	-78.04	161.01	229.34	1693982.98	14347007.30	39°30'29.3205"N	80°48'36.3136"W	280.22	54.929	3.81	3.70	2.43
1800.00	25.450	59.720	1751.78	-88.04	182.79	262.09	1694015.71	14347029.06	39°30'29.5350"N	80°48'35.8953"W	319.53	55.107	3.63	2.01	7.31
1895.00	24.380	60.860	1837.94	-95.55	202.63	296.84	1694050.45	14347048.90	39°30'29.7304"N	80°48'35.4514"W	359.41	55.682	1.23	-1.13	1.20
1990.00	21.480	61.190	1925.42	-102.03	220.56	329.21	1694082.81	14347066.82	39°30'29.9070"N	80°48'35.0379"W	396.27	56.179	3.06	-3.05	0.35
2085.00	19.620	60.340	2014.37	-108.00	236.84	358.32	1694111.90	14347083.09	39°30'30.0672"N	80°48'34.6661"W	429.51	56.536	1.98	-1.96	-0.89
2179.00	17.040	58.100	2103.60	-114.05	251.93	383.73	1694137.30	14347098.18	39°30'30.2158"N	80°48'34.3415"W	459.04	56.714	2.84	-2.74	-2.38
2274.00	16.300	59.010	2194.60	-119.97	266.15	406.97	1694160.54	14347112.39	39°30'30.3559"N	80°48'34.0446"W	486.27	56.817	0.83	-0.78	0.96
2369.00	15.550	60.780	2285.96	-125.05	279.23	429.52	1694183.08	14347125.47	39°30'30.4847"N	80°48'33.7566"W	512.30	56.972	0.94	-0.79	1.86
2463.00	15.930	60.860	2376.43	-129.60	291.66	451.78	1694205.33	14347137.89	39°30'30.6071"N	80°48'33.4722"W	537.75	57.154	0.40	0.40	0.09
2558.00	16.450	60.180	2467.66	-134.46	304.70	474.84	1694228.38	14347150.93	39°30'30.7355"N	80°48'33.1777"W	564.19	57.312	0.58	0.55	-0.72
2572.00	16.430	60.500	2481.09	-135.20	306.66	478.28	1694231.82	14347152.89	39°30'30.7548"N	80°48'33.1337"W	568.15	57.333	0.66	-0.14	2.29

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Toroweap Unit 3H
Field	Tyler	API	47-095-02767-0100
Facility	Grand Pad	Wellbore	Toroweap Unit 3H AWB
Slot	Slot #06		

WELLPATH DATA (99 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)	
2659.00	16.010	56.800	2564.63	-140.43	319.29	499.03	1694252.56	14347165.51	39°30'30.8792"N	80°48'32.8687"W	592.43	57.388	1.28	-0.48	-4.25	
2754.00	15.230	55.450	2656.12	-147.03	333.54	520.27	1694273.79	14347179.75	39°30'31.0196"N	80°48'32.5973"W	618.00	57.337	0.91	-0.82	-1.42	
2848.00	13.340	63.300	2747.22	-151.83	345.41	540.13	1694293.64	14347191.63	39°30'31.1365"N	80°48'32.3436"W	641.13	57.401	2.87	-2.01	8.35	
2943.00	13.450	73.290	2839.65	-152.90	353.52	560.50	1694314.01	14347199.73	39°30'31.2162"N	80°48'32.0834"W	662.68	57.760	2.44	0.12	10.52	
3040.00	13.320	76.560	2934.02	-151.41	359.36	582.18	1694335.68	14347205.56	39°30'31.2734"N	80°48'31.8067"W	684.16	58.314	0.79	-0.13	3.37	
3135.00	12.270	74.650	3026.66	-149.74	364.57	602.56	1694356.05	14347210.78	39°30'31.3246"N	80°48'31.5466"W	704.26	58.824	1.19	-1.11	-2.01	
3229.00	12.520	78.670	3118.47	-147.78	369.22	622.18	1694375.66	14347215.42	39°30'31.3701"N	80°48'31.2961"W	723.48	59.314	0.96	0.27	4.28	
3324.00	12.880	74.820	3211.14	-145.73	374.01	642.49	1694395.97	14347220.22	39°30'31.4170"N	80°48'31.0368"W	743.43	59.795	0.97	0.38	-4.05	
3419.00	15.450	64.930	3303.26	-146.41	382.15	664.18	1694417.65	14347228.35	39°30'31.4970"N	80°48'30.7599"W	766.28	60.085	3.71	2.71	-10.41	
3513.00	15.340	62.760	3393.89	-149.56	393.15	686.58	1694440.03	14347239.34	39°30'31.6052"N	80°48'30.4738"W	791.17	60.204	0.62	-0.12	-2.31	
3608.00	14.450	63.360	3485.70	-152.98	404.21	708.35	1694461.79	14347250.40	39°30'31.7141"N	80°48'30.1958"W	815.56	60.289	0.95	-0.94	0.63	
3702.00	15.870	59.460	3576.42	-157.15	416.01	729.90	1694483.34	14347262.19	39°30'31.8302"N	80°48'29.9205"W	840.13	60.319	1.86	1.51	-4.15	
3797.00	15.070	59.510	3667.98	-162.25	428.87	751.73	1694505.16	14347275.05	39°30'31.9569"N	80°48'29.6417"W	865.46	60.295	0.84	-0.84	0.05	
3892.00	14.060	58.050	3759.93	-167.34	441.24	772.16	1694525.59	14347287.42	39°30'32.0788"N	80°48'29.3806"W	889.34	60.255	1.13	-1.06	-1.54	
3987.00	15.920	57.870	3851.69	-172.93	454.28	792.99	1694546.40	14347300.45	39°30'32.2072"N	80°48'29.1145"W	913.90	60.193	1.96	1.96	-0.19	
4082.00	15.840	56.160	3943.07	-179.25	468.43	814.79	1694568.20	14347314.59	39°30'32.3466"N	80°48'28.8360"W	939.85	60.105	0.50	-0.08	-1.80	
4176.00	16.720	54.730	4033.30	-186.37	483.38	836.49	1694589.89	14347329.54	39°30'32.4939"N	80°48'28.5588"W	966.11	59.978	1.03	0.94	-1.52	
4271.00	16.310	53.800	4124.38	-194.19	499.15	858.41	1694611.80	14347345.30	39°30'32.6493"N	80°48'28.2787"W	992.99	59.823	0.51	-0.43	-0.98	
4366.00	15.980	60.990	4215.64	-200.45	513.37	880.61	1694633.99	14347359.52	39°30'32.7894"N	80°48'27.9950"W	1019.33	59.759	2.13	-0.35	7.57	
4460.00	15.290	58.840	4306.16	-205.35	526.06	902.54	1694655.91	14347372.20	39°30'32.9143"N	80°48'27.7150"W	1044.66	59.763	0.96	-0.73	-2.29	
4555.00	15.780	63.520	4397.69	-209.72	538.30	924.82	1694678.18	14347384.44	39°30'33.0348"N	80°48'27.4304"W	1070.07	59.798	1.42	0.52	4.93	
4650.00	17.300	64.010	4488.76	-213.17	550.25	949.08	1694702.43	14347396.39	39°30'33.1524"N	80°48'27.1205"W	1097.06	59.896	1.61	1.60	0.52	
4745.00	17.420	61.930	4579.43	-217.17	563.14	974.32	1694727.66	14347409.26	39°30'33.2792"N	80°48'26.7981"W	1125.36	59.973	0.67	0.13	-2.19	
4840.00	17.010	59.020	4670.18	-222.35	576.98	998.78	1694752.12	14347423.10	39°30'33.4155"N	80°48'26.4856"W	1153.46	59.986	1.00	-0.43	-3.06	
4934.00	16.160	58.660	4760.27	-228.04	590.86	1021.75	1694775.07	14347436.98	39°30'33.5522"N	80°48'26.1923"W	1180.29	59.960	0.91	-0.90	-0.38	
5029.00	15.370	61.730	4851.70	-232.94	603.70	1044.13	1694797.44	14347449.81	39°30'33.6786"N	80°48'25.9064"W	1206.09	59.964	1.21	-0.83	3.23	
5124.00	14.530	60.820	4943.48	-237.12	615.47	1065.62	1694818.92	14347461.58	39°30'33.7946"N	80°48'25.6318"W	1230.59	59.990	0.92	-0.88	-0.96	
5177.00	12.660	57.700	4994.99	-239.65	621.82	1076.33	1694829.63	14347467.92	39°30'33.8570"N	80°48'25.4950"W	1243.04	59.984	3.79	-3.53	-5.89	
5241.00	13.680	59.030	5057.31	-242.86	629.46	1088.75	1694842.05	14347475.56	39°30'33.9323"N	80°48'25.3363"W	1257.62	59.966	1.66	1.59	2.08	
5336.00	15.960	58.450	5149.14	-248.07	642.08	1109.52	1694862.80	14347488.17	39°30'34.0566"N	80°48'25.0711"W	1281.91	59.942	2.41	2.40	-0.61	

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Field	Tyler		API	47-095-02767-0100
Facility	Grand Pad		Wellbore	Toroweap Unit 3H AWB
Slot	Slot #06			

WELLPATH DATA (99 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]	
5431.00	18.830	55.990	5239.79	-254.93	657.49	1133.36	1694886.64	14347503.58	39°30'34.2084"N	80°48'24.7664"W	1310.27	59.881	3.12	3.02	-2.59	
5526.00	19.160	60.570	5329.62	-261.77	673.73	1159.65	1694912.92	14347519.81	39°30'34.3683"N	80°48'24.4306"W	1341.15	59.844	1.61	0.35	4.82	
5621.00	19.000	60.930	5419.40	-267.35	688.90	1186.74	1694940.00	14347534.98	39°30'34.5177"N	80°48'24.0845"W	1372.20	59.865	0.21	-0.17	0.38	
5716.00	18.920	61.160	5509.25	-272.74	703.85	1213.75	1694967.00	14347549.91	39°30'34.6648"N	80°48'23.7395"W	1403.06	59.891	0.12	-0.08	0.24	
5811.00	18.790	61.560	5599.15	-277.94	718.56	1240.70	1694993.93	14347564.62	39°30'34.8097"N	80°48'23.3953"W	1433.76	59.922	0.19	-0.14	0.42	
5906.00	18.920	64.380	5689.05	-282.27	732.51	1268.04	1695021.26	14347578.57	39°30'34.9469"N	80°48'23.0461"W	1464.41	59.986	0.97	0.14	2.97	
6001.00	17.360	64.130	5779.33	-285.80	745.35	1294.68	1695047.89	14347591.40	39°30'35.0733"N	80°48'22.7058"W	1493.90	60.071	1.64	-1.64	-0.26	
6096.00	17.320	63.830	5870.01	-289.31	757.77	1320.12	1695073.33	14347603.82	39°30'35.1955"N	80°48'22.3809"W	1522.15	60.143	0.10	-0.04	-0.32	
6191.00	18.250	64.300	5960.47	-292.86	770.46	1346.22	1695099.41	14347616.50	39°30'35.3204"N	80°48'22.0476"W	1551.10	60.217	0.99	0.98	0.49	
6286.00	18.840	62.880	6050.54	-296.81	783.90	1373.28	1695126.46	14347629.94	39°30'35.4527"N	80°48'21.7020"W	1581.26	60.281	0.78	0.62	-1.49	
6381.00	18.410	70.100	6140.58	-299.27	796.00	1401.04	1695154.21	14347642.04	39°30'35.5717"N	80°48'21.3475"W	1611.37	60.397	2.47	-0.45	7.60	
6476.00	18.720	90.530	6230.73	-294.45	800.97	1430.42	1695183.58	14347647.00	39°30'35.6202"N	80°48'20.9725"W	1639.41	60.753	6.82	0.33	21.51	
6571.00	22.230	114.130	6319.86	-277.08	793.47	1462.13	1695215.27	14347639.51	39°30'35.5453"N	80°48'20.5681"W	1663.55	61.512	9.36	3.69	24.84	
6665.00	26.850	127.600	6405.42	-247.21	773.22	1495.22	1695248.35	14347619.27	39°30'35.3445"N	80°48'20.1465"W	1683.31	62.655	7.69	4.91	14.33	
6760.00	30.780	135.460	6488.67	-207.37	742.79	1529.29	1695282.41	14347588.84	39°30'35.0429"N	80°48'19.7126"W	1700.13	64.094	5.74	4.14	8.27	
6854.00	35.530	142.330	6567.37	-159.79	703.99	1562.88	1695315.99	14347550.06	39°30'34.6588"N	80°48'19.2851"W	1714.12	65.751	6.44	5.05	7.31	
6949.00	42.160	148.000	6641.34	-102.52	655.03	1596.69	1695349.79	14347501.12	39°30'34.1742"N	80°48'18.8551"W	1725.83	67.695	7.91	6.98	5.97	
7044.00	50.930	155.030	6706.66	-34.62	594.40	1629.24	1695382.32	14347440.52	39°30'33.5743"N	80°48'18.4415"W	1734.29	69.956	10.67	9.23	7.40	
7092.00	55.030	155.570	6735.56	3.51	559.59	1646.25	1695398.32	14347405.72	39°30'33.2299"N	80°48'18.2382"W	1737.81	71.216	8.59	8.54	1.12	
7139.00	58.820	156.350	6761.20	42.72	523.63	1661.28	1695414.35	14347369.77	39°30'32.8741"N	80°48'18.0346"W	1741.85	72.505	8.18	8.06	1.66	
7187.00	61.890	156.390	6784.94	84.29	485.41	1678.00	1695431.06	14347331.57	39°30'32.4961"N	80°48'17.8224"W	1746.80	73.866	6.40	6.40	0.08	
7234.00	64.140	157.870	6806.27	126.07	446.82	1694.27	1695447.33	14347293.00	39°30'32.1143"N	80°48'17.6158"W	1752.20	75.226	5.55	4.79	3.15	
7329.00	71.420	160.210	6842.17	213.90	364.74	1725.67	1695478.71	14347210.95	39°30'31.3024"N	80°48'17.2176"W	1763.79	78.065	7.99	7.66	2.46	
7425.00	81.630	163.720	6864.52	307.10	276.09	1754.47	1695507.50	14347122.33	39°30'30.4256"N	80°48'16.8526"W	1776.06	81.057	11.21	10.64	3.66	
7520.00	89.290	165.440	6872.03	401.55	184.86	1779.62	1695532.64	14347031.14	39°30'29.5235"N	80°48'16.5342"W	1789.20	84.070	8.26	8.06	1.81	
7615.00	90.620	160.450	6872.11	496.47	94.07	1807.48	1695560.48	14346940.38	39°30'28.6256"N	80°48'16.1814"W	1809.92	87.021	5.44	1.40	-5.25	
7710.00	90.150	160.280	6871.47	591.46	4.60	1839.40	1695592.39	14346850.95	39°30'27.7406"N	80°48'15.7766"W	1839.40	89.857	0.53	-0.49	-0.18	
7805.00	90.520	161.420	6870.91	686.46	-85.14	1870.56	1695623.54	14346761.24	39°30'26.8530"N	80°48'15.3815"W	1872.50	92.606	1.26	0.39	1.20	
7901.00	90.180	161.620	6870.33	782.45	-176.19	1900.99	1695653.96	14346670.23	39°30'25.9525"N	80°48'14.9958"W	1909.14	95.295	0.41	-0.35	0.21	
7995.00	90.680	161.470	6869.62	876.45	-265.35	1930.74	1695683.70	14346581.10	39°30'25.0706"N	80°48'14.6187"W	1948.89	97.825	0.56	0.53	-0.16	

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Actual Wellpath Report

Toroweap Unit 3H AWP Proj: 8754'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Toroweap Unit 3H
Field	Tyler	API	47-095-02767-0100
Facility	Grand Pad	Wellbore	Toroweap Unit 3H AWB
Slot	Slot #06		

WELLPATH DATA (99 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]
8090.00	89.720	159.620	6869.29	971.44	-354.92	1962.38	1695715.33	14346491.57	39°30'24.1847"N	80°48'14.2175"W	1994.22	100.252	2.19	-1.01	-1.95
8184.00	89.690	161.570	6869.78	1065.43	-443.58	1993.61	1695746.55	14346402.95	39°30'23.3078"N	80°48'13.8215"W	2042.36	102.544	2.07	-0.03	2.07
8279.00	89.020	160.170	6870.84	1160.42	-533.32	2024.74	1695777.67	14346313.24	39°30'22.4201"N	80°48'13.4269"W	2093.80	104.757	1.63	-0.71	-1.47
8373.00	89.910	163.730	6871.72	1254.39	-622.68	2053.86	1695806.77	14346223.92	39°30'21.5364"N	80°48'13.0579"W	2146.18	106.866	3.90	0.95	3.79
8468.00	89.420	162.050	6872.28	1349.34	-713.47	2081.81	1695834.71	14346133.17	39°30'20.6385"N	80°48'12.7038"W	2200.67	108.917	1.84	-0.52	-1.77
8562.00	90.490	161.350	6872.35	1443.33	-802.71	2111.32	1695864.21	14346043.96	39°30'19.7558"N	80°48'12.3298"W	2258.77	110.816	1.36	1.14	-0.74
8657.00	93.110	166.770	6869.37	1538.11	-893.97	2137.39	1695890.27	14345952.73	39°30'18.8533"N	80°48'11.9997"W	2316.82	112.697	6.33	2.76	5.71
8729.00	97.120	169.400	6862.95	1609.27	-964.12	2152.20	1695905.07	14345882.62	39°30'18.1597"N	80°48'11.8128"W	2358.28	114.131	6.65	5.57	3.65
8754.00‡	97.120	169.400	6859.85	1633.82	-988.50	2156.76	1695909.63	14345858.24	39°30'17.9186"N	80°48'11.7553"W	2372.50	114.623	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Toroweap Unit 3H AWB Ref Wellpath: Toroweap Unit 3H AWP Proj: 8754'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	-0.24	0.34
17.5in Open Hole	105.50	346.00	240.50	105.50	345.99	-0.24	0.34	-1.70	1.89
13.375in Casing Surface	25.50	326.00	300.50	25.50	325.99	0.00	0.00	-1.58	1.80
12.25in Open Hole	346.00	2649.00	2303.00	345.99	2555.02	-1.70	1.89	317.78	496.71
9.625in Casing Intermediate	25.50	2629.00	2603.50	25.50	2535.80	0.00	0.00	314.82	492.03
8.75in Open Hole	2649.00	5201.00	2552.00	2555.02	5018.39	317.78	496.71	624.65	1080.86
8.5in Open Hole	5201.00	8754.00	3553.00	5018.39	6859.85	624.65	1080.86	-988.50	2156.76

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Toroweap Unit 3H AWP Proj: 8754'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Toroweap Unit 3H
Field	Tyler	API	47-095-02767-0100
Facility	Grand Pad	Wellbore	Toroweap Unit 3H AWB
Slot	Slot #06		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Toroweap Unit 3H POE Rev-1	6849.00	349.30	1716.37	1695469.42	14347195.51	39°30'31.1500"N	80°48'17.3366"W	point
Toroweap Unit 3H BHL Rev-1	6874.00	-11118.85	5642.54	1699394.02	14335731.93	39°28'37.7193"N	80°47'27.5849"W	point
Toroweap Unit 3H LP Rev-1	6874.00	171.84	1777.13	1695530.15	14347018.12	39°30'29.3948"N	80°48'16.5664"W	point
Toroweap Unit 3H 50' L/R Hard Line	7000.00	-5384.78	3679.46	1697431.72	14341463.72	39°29'34.4354"N	80°47'52.4551"W	rectangle
2D Rectangle 12121.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Toroweap Unit 3H AWB Ref Wellpath: Toroweap Unit 3H AWP Proj: 8754'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
25.50	280.00	Gyrodata 2015 - GC+WMR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-280')	Toroweap Unit 3H AWB	25/Mar/2022	
280.00	2572.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (280')(410'-2572')	Toroweap Unit 3H AWB	25/Mar/2022	
2572.00	5124.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2572')(2659'-5124')	Toroweap Unit 3H AWB	25/Mar/2022	
5124.00	8754.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5124')(5177'-8729')	Toroweap Unit 3H AWB	25/Mar/2022	

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Toroweap Unit 3H AWP Proj: 8754'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Toroweap Unit 3H
Field	Tyler	API	47-095-02767-0100
Facility	Grand Pad	Wellbore	Toroweap Unit 3H AWB
Slot	Slot #06		

COMMENTS
<p>Wellpath general comments API: 47-095-02767-0100 BH Job #: 111277231 Rig: H&P 317 Duration: 3/27/2022-4/2/2022 Gyrodata MS Gyro <17-1/2"> (100'-280') APS EM <12-1/4"> (280')(410'-2572') APS EM [OH] <8-3/4"> (2572')(2659'-5124') BH AT Curve [OH] <8-1/2"> (5124')(5177'-8729') Projected MD at TD: 8754'</p>

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