



# ANTERO RESOURCES CORPORATION

Location: Tyler County, WV  
Field: Tyler  
Facility: Dry Run Pad

Slot: Slot D  
Well: Ripple Unit 2H  
Wellbore: Ripple Unit 2H PWB

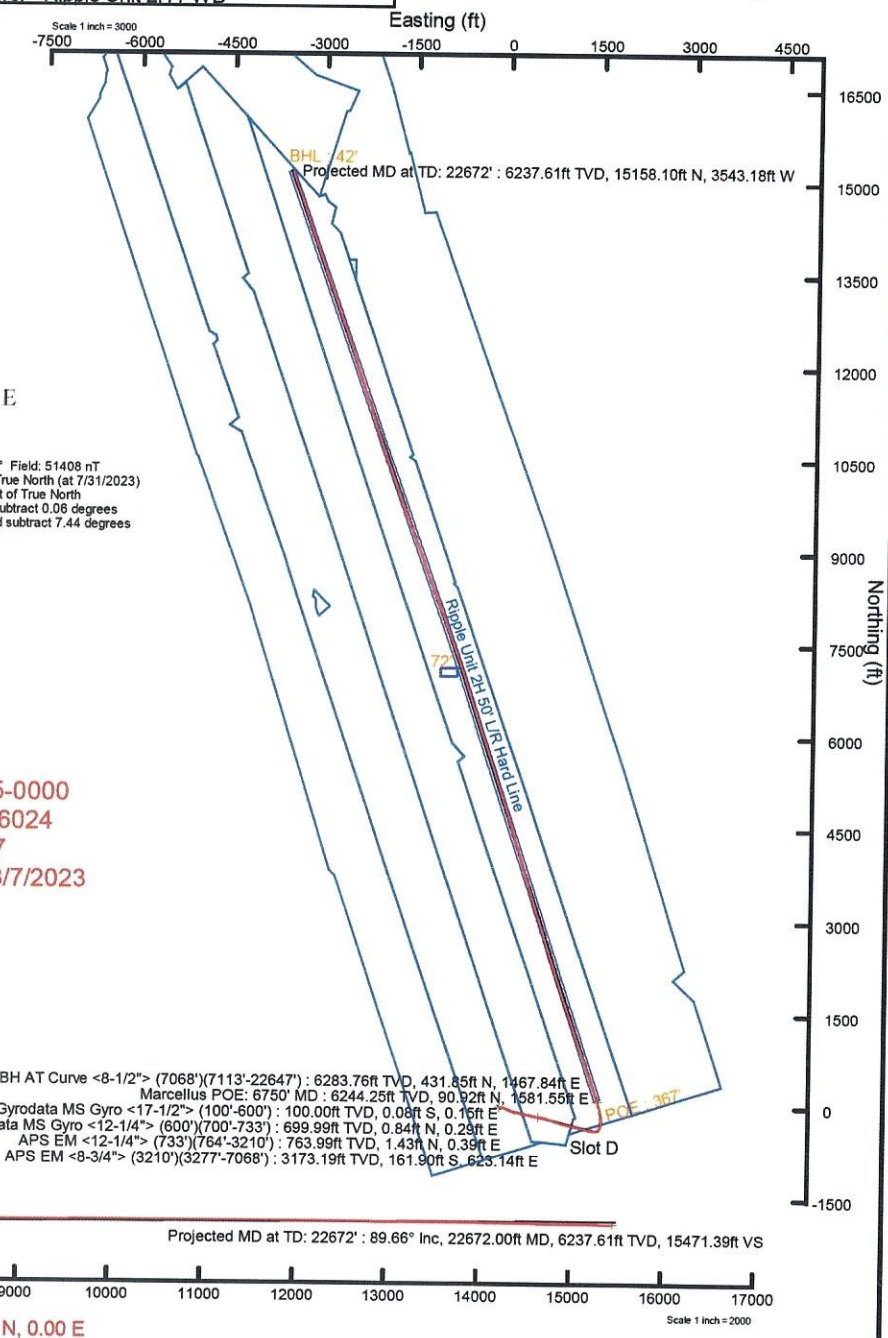
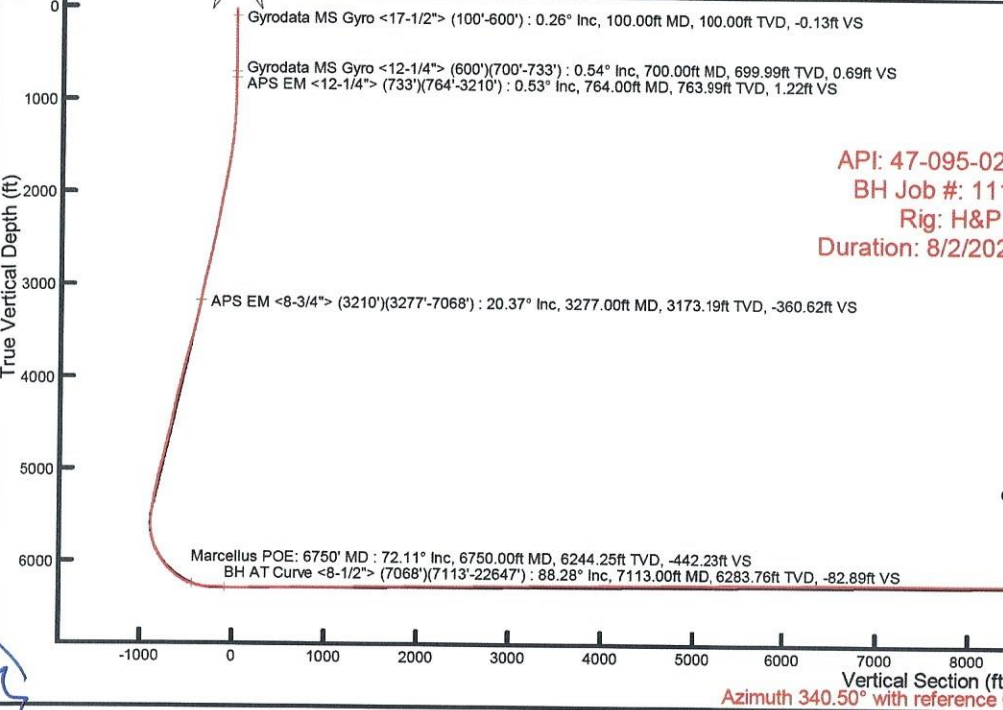


Plot reference wellpath is Ripple Unit 2H PWP Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1032.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot D): -1007 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-09-05; Database: WA_NPL_EASTERNUS_Oeth

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Dry Run Pad	1665236.690	14362894.350	39°33'6.8386"N	80°54'43.0140"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot D	-31.94	31.69	1665268.370	14362862.420
Comment	Ripple Unit 2H			
H&P 317 (RKB) to Ground level (At Slot: Slot D)				25.5ft
Mean Sea Level to Ground level (At Slot: Slot D)				-1007ft
H&P 317 (RKB) to Mean Sea Level				1032.5ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3210.00	21.550	98.980	3110.62	-158.45	599.42	0.94	-348.46
Proj. to Bottom	3281.00	21.550	98.980	3176.66	-162.52	625.18	0.00	-361.89
Drill Out	3361.00	21.550	98.980	3251.07	-167.11	654.21	0.00	-375.91
Turn	3465.58	22.389	104.104	3348.06	-174.96	692.50	2.00	-396.09
Curve KOP	5733.35	22.388	104.104	5444.88	-385.45	1530.24	0.00	-874.14
POE	6761.59	69.422	341.850	6243.00	112.90	1578.88	8.00	-420.62
Landing Pt.	7007.21	90.300	341.850	6286.00	341.38	1503.98	8.50	-180.24
Hold	14075.00	90.300	341.850	6248.99	7057.41	-697.64	0.00	6885.49
Turn	14210.09	90.300	340.499	6248.29	7185.27	-741.23	1.00	7020.56
BHL	22987.09	90.300	340.499	6203.90	15175.89	-3571.00	0.00	15497.45

Well Data			
Slot	Well	Wellbore	Wellpath
Slot D	Ripple Unit 2H	Ripple Unit 2H AWB	Ripple Unit 2H AWP Proj: 22672'
Slot D	Ripple Unit 2H	Ripple Unit 2H PWB	Ripple Unit 2H PWP Rev-C.0





# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999601	Report Generated	9/5/2023 at 3:33:59 PM
Convergence at slot	0.06° 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	-31.94	31.69	1665268.37	14362862.42	39°33'6.5226"N	80°54'42.6098"W
Facility Reference Pt			1665236.69	14362894.35	39°33'6.8386"N	80°54'43.0140"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	1032.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1032.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot D)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.50°



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Ripple Unit 2H
Field	Tyler		API	47-095-02865-0000
Facility	Dry Run Pad		Wellbore	Ripple Unit 2H AWB
Slot	Slot D			

WELLPATH DATA (246 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	119.630	0.00	0.00	0.00	0.00	1665268.37	14362862.42	39°33'6.5226"N	80°54'42.6098"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	119.630	25.50	0.00	0.00	0.00	1665268.37	14362862.42	39°33'6.5226"N	80°54'42.6098"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.260	119.630	100.00	-0.13	-0.08	0.15	1665268.52	14362862.34	39°33'6.5218"N	80°54'42.6080"W	0.17	119.630	0.35	0.35	0.00	Gyrodata MS Gyro <17-1/2"> (100'-600')
200.00	0.170	100.800	200.00	-0.37	-0.22	0.49	1665268.86	14362862.20	39°33'6.5204"N	80°54'42.6036"W	0.54	114.528	0.11	-0.09	-18.83	
300.00	0.090	231.700	300.00	-0.47	-0.30	0.57	1665268.94	14362862.12	39°33'6.5197"N	80°54'42.6025"W	0.65	117.597	0.24	-0.08	130.90	
400.00	0.070	199.830	400.00	-0.55	-0.41	0.49	1665268.86	14362862.01	39°33'6.5186"N	80°54'42.6036"W	0.64	129.563	0.05	-0.02	-31.87	
500.00	0.170	301.260	500.00	-0.48	-0.39	0.34	1665268.71	14362862.03	39°33'6.5188"N	80°54'42.6055"W	0.52	138.334	0.20	0.10	101.43	
600.00	0.390	0.240	600.00	-0.04	0.03	0.22	1665268.59	14362862.45	39°33'6.5229"N	80°54'42.6070"W	0.22	82.015	0.34	0.22	58.98	
700.00	0.540	8.970	699.99	0.69	0.84	0.29	1665268.66	14362863.26	39°33'6.5309"N	80°54'42.6061"W	0.89	19.340	0.17	0.15	8.73	Gyrodata MS Gyro <12-1/4"> (600')(700'-733')
733.00	0.550	2.310	732.99	0.97	1.15	0.32	1665268.69	14362863.57	39°33'6.5340"N	80°54'42.6057"W	1.19	15.766	0.19	0.03	-20.18	
764.00	0.530	24.250	763.99	1.22	1.43	0.39	1665268.76	14362863.85	39°33'6.5367"N	80°54'42.6049"W	1.48	15.244	0.67	-0.06	70.77	APS EM <12-1/4"> (733')(764'-3210')
855.00	1.290	93.770	854.98	1.12	1.74	1.58	1665269.95	14362864.16	39°33'6.5399"N	80°54'42.5896"W	2.36	42.247	1.33	0.84	76.40	
943.00	2.930	99.220	942.92	-0.36	1.32	4.79	1665273.16	14362863.74	39°33'6.5356"N	80°54'42.5486"W	4.97	74.617	1.88	1.86	6.19	
1033.00	4.240	103.470	1032.74	-3.27	0.18	10.30	1665278.66	14362862.59	39°33'6.5243"N	80°54'42.4784"W	10.30	89.026	1.48	1.46	4.72	
1127.00	5.640	106.440	1126.39	-7.88	-1.94	18.11	1665286.47	14362860.48	39°33'6.5033"N	80°54'42.3787"W	18.21	96.120	1.51	1.49	3.16	
1316.00	8.790	102.450	1313.87	-20.97	-7.68	41.12	1665309.48	14362854.74	39°33'6.4463"N	80°54'42.0849"W	41.84	100.585	1.69	1.67	-2.11	
1411.00	10.400	100.650	1407.54	-29.12	-10.83	56.64	1665324.99	14362851.59	39°33'6.4150"N	80°54'41.8869"W	57.67	100.829	1.72	1.69	-1.89	
1506.00	11.660	106.430	1500.78	-39.06	-15.13	74.28	1665342.62	14362847.29	39°33'6.3723"N	80°54'41.6618"W	75.80	101.517	1.76	1.33	6.08	
1601.00	12.260	118.060	1593.74	-52.14	-22.60	92.39	1665360.72	14362839.83	39°33'6.2984"N	80°54'41.4307"W	95.11	103.744	2.61	0.63	12.24	
1695.00	13.800	116.250	1685.31	-67.54	-32.25	111.25	1665379.58	14362830.18	39°33'6.2028"N	80°54'41.1900"W	115.83	106.166	1.69	1.64	-1.93	
1790.00	13.700	114.860	1777.59	-83.52	-41.99	131.62	1665399.94	14362820.45	39°33'6.1064"N	80°54'40.9301"W	138.16	107.694	0.36	-0.11	-1.46	
1885.00	14.060	115.380	1869.82	-99.53	-51.67	152.25	1665420.56	14362810.77	39°33'6.0105"N	80°54'40.6668"W	160.78	108.744	0.40	0.38	0.55	
1979.00	15.210	113.460	1960.77	-115.99	-61.47	173.88	1665442.18	14362800.98	39°33'5.9134"N	80°54'40.3908"W	184.43	109.469	1.33	1.22	-2.04	
2074.00	16.360	107.330	2052.19	-132.50	-70.42	198.09	1665466.38	14362792.03	39°33'5.8248"N	80°54'40.0819"W	210.23	109.569	2.13	1.21	-6.45	
2169.00	17.620	103.570	2143.04	-148.37	-77.78	224.84	1665493.12	14362784.67	39°33'5.7518"N	80°54'39.7405"W	237.91	109.082	1.76	1.33	-3.96	
2264.00	19.370	101.810	2233.13	-164.40	-84.38	254.24	1665522.51	14362778.08	39°33'5.6863"N	80°54'39.3652"W	267.87	108.360	1.93	1.84	-1.85	
2358.00	20.280	102.280	2321.56	-181.08	-91.03	285.42	1665553.67	14362771.43	39°33'5.6202"N	80°54'38.9673"W	299.58	107.690	0.98	0.97	0.50	
2453.00	21.570	102.380	2410.29	-198.98	-98.28	318.56	1665586.80	14362764.18	39°33'5.5482"N	80°54'38.5443"W	333.38	107.145	1.36	1.36	0.11	
2548.00	21.500	101.200	2498.66	-217.09	-105.40	352.70	1665620.92	14362757.06	39°33'5.4775"N	80°54'38.1086"W	368.11	106.639	0.46	-0.07	-1.24	
2642.00	21.880	101.870	2586.01	-235.00	-112.35	386.73	1665654.95	14362750.11	39°33'5.4085"N	80°54'37.6741"W	402.72	106.199	0.48	0.40	0.71	



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

### WELLPATH DATA (246 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
2737.00	22.860	103.650	2673.86	-254.31	-120.35	421.99	1665690.19	14362742.12	39°33'5.3291"N	80°54'37.2241"W	438.82	105.918	1.25	1.03	1.87	
2832.00	22.540	103.380	2761.50	-274.28	-128.91	457.64	1665725.82	14362733.56	39°33'5.2441"N	80°54'36.7692"W	475.45	105.732	0.35	-0.34	-0.28	
2927.00	23.220	102.940	2849.02	-294.21	-137.32	493.60	1665761.77	14362725.15	39°33'5.1606"N	80°54'36.3102"W	512.35	105.547	0.74	0.72	-0.46	
3021.00	22.720	102.130	2935.57	-313.67	-145.29	529.41	1665797.57	14362717.19	39°33'5.0816"N	80°54'35.8531"W	548.98	105.346	0.63	-0.53	-0.86	
3116.00	22.160	100.700	3023.38	-332.31	-152.47	564.95	1665833.09	14362710.01	39°33'5.0102"N	80°54'35.3995"W	585.16	105.103	0.82	-0.59	-1.51	
3210.00	21.550	98.980	3110.62	-349.46	-158.45	599.42	1665867.55	14362704.03	39°33'4.9507"N	80°54'34.9595"W	620.01	104.807	0.94	-0.65	-1.83	
3277.00	20.370	97.500	3173.19	-360.62	-161.90	623.14	1665891.26	14362700.59	39°33'4.9165"N	80°54'34.6568"W	643.83	104.564	1.93	-1.76	-2.21	APS EM <8-3/4"> (3210')(3277'-7068')
3372.00	21.680	97.230	3261.86	-376.02	-166.26	656.94	1665925.05	14362696.22	39°33'4.8730"N	80°54'34.2253"W	677.66	104.203	1.38	1.38	-0.28	
3466.00	24.020	99.780	3348.48	-393.19	-171.70	693.03	1665961.12	14362690.79	39°33'4.8189"N	80°54'33.7647"W	713.98	103.915	2.70	2.49	2.71	
3561.00	24.950	103.790	3434.94	-413.64	-179.76	731.54	1665999.62	14362682.73	39°33'4.7388"N	80°54'33.2731"W	753.31	103.806	2.00	0.98	4.22	
3656.00	24.470	106.930	3521.25	-436.33	-190.27	769.83	1666037.89	14362672.23	39°33'4.6346"N	80°54'32.7845"W	792.99	103.883	1.47	-0.51	3.31	
3750.00	23.920	110.160	3606.99	-460.05	-202.50	806.34	1666074.39	14362660.00	39°33'4.5133"N	80°54'32.3185"W	831.38	104.098	1.52	-0.59	3.44	
3845.00	23.180	107.270	3694.08	-483.54	-214.69	842.28	1666110.31	14362647.81	39°33'4.3925"N	80°54'31.8599"W	869.21	104.300	1.44	-0.78	-3.04	
3940.00	22.660	111.130	3781.59	-506.65	-226.84	877.20	1666145.22	14362635.67	39°33'4.2721"N	80°54'31.4142"W	906.06	104.499	1.67	-0.55	4.06	
4035.00	22.580	104.780	3869.29	-528.84	-238.09	911.91	1666179.92	14362624.42	39°33'4.1605"N	80°54'30.9712"W	942.48	104.633	2.57	-0.08	-6.68	
4129.00	21.720	107.920	3956.36	-549.57	-248.05	945.91	1666213.91	14362614.47	39°33'4.0618"N	80°54'30.5373"W	977.90	104.694	1.56	-0.91	3.34	
4226.00	20.370	109.830	4046.89	-571.18	-259.30	978.88	1666246.85	14362603.22	39°33'3.9503"N	80°54'30.1167"W	1012.64	104.837	1.56	-1.39	1.97	
4320.00	22.220	107.000	4134.47	-592.12	-270.05	1011.27	1666279.23	14362592.48	39°33'3.8437"N	80°54'29.7033"W	1046.70	104.951	2.25	1.97	-3.01	
4415.00	23.050	102.920	4222.16	-612.78	-279.46	1046.57	1666314.52	14362583.07	39°33'3.7503"N	80°54'29.2527"W	1083.24	104.950	1.87	0.87	-4.29	
4510.00	21.780	100.490	4309.98	-631.56	-286.83	1082.03	1666349.97	14362575.71	39°33'3.6772"N	80°54'28.8001"W	1119.40	104.846	1.65	-1.34	-2.56	
4604.00	22.580	103.570	4397.02	-650.13	-294.23	1116.73	1666384.65	14362568.30	39°33'3.6036"N	80°54'28.3573"W	1154.84	104.761	1.50	0.85	3.28	
4699.00	22.640	101.530	4484.72	-669.51	-302.17	1152.37	1666420.28	14362560.37	39°33'3.5248"N	80°54'27.9024"W	1191.33	104.693	0.83	0.06	-2.15	
4794.00	23.490	102.160	4572.13	-688.87	-309.81	1188.80	1666456.69	14362552.73	39°33'3.4489"N	80°54'27.4375"W	1228.50	104.607	0.93	0.89	0.66	
4889.00	22.960	102.020	4659.43	-708.49	-317.66	1225.43	1666493.31	14362544.89	39°33'3.3710"N	80°54'26.9699"W	1265.93	104.533	0.56	-0.56	-0.15	
4983.00	21.250	105.800	4746.52	-727.93	-326.12	1259.75	1666527.62	14362536.43	39°33'3.2870"N	80°54'26.5318"W	1301.28	104.514	2.37	-1.82	4.02	
5078.00	21.670	106.510	4834.94	-748.19	-335.79	1293.14	1666560.99	14362526.77	39°33'3.1911"N	80°54'26.1058"W	1336.02	104.556	0.52	0.44	0.75	
5173.00	22.320	107.470	4923.02	-769.35	-346.19	1327.16	1666595.00	14362516.37	39°33'3.0880"N	80°54'25.6716"W	1371.57	104.620	0.78	0.68	1.01	
5267.00	23.360	105.710	5009.65	-790.83	-356.59	1362.13	1666629.95	14362505.97	39°33'2.9848"N	80°54'25.2253"W	1408.03	104.670	1.32	1.11	-1.87	
5362.00	21.880	101.370	5097.35	-810.77	-365.18	1397.62	1666665.43	14362497.38	39°33'2.8995"N	80°54'24.7724"W	1444.54	104.643	2.35	-1.56	-4.57	
5459.00	21.310	103.530	5187.54	-829.65	-372.87	1432.47	1666700.27	14362489.70	39°33'2.8232"N	80°54'24.3275"W	1480.21	104.590	1.01	-0.59	2.23	



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
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Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

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5554.00	20.210	100.910	5276.37	-847.37	-380.02	1465.37	1666733.15	14362482.56	39°33'2.7522"N	80°54'23.9076"W	1513.85	104.538	1.52	-1.16	-2.76	
5648.00	18.660	99.540	5365.01	-862.89	-385.58	1496.15	1666763.92	14362476.99	39°33'2.6969"N	80°54'23.5148"W	1545.03	104.452	1.72	-1.65	-1.46	
5743.00	16.350	98.760	5455.61	-876.60	-390.14	1524.35	1666792.11	14362472.44	39°33'2.6516"N	80°54'23.1548"W	1573.49	104.356	2.44	-2.43	-0.82	
5837.00	19.410	76.510	5545.16	-884.51	-388.51	1552.66	1666820.41	14362474.07	39°33'2.6674"N	80°54'22.7934"W	1600.53	104.048	7.90	3.26	-23.67	
5932.00	20.170	64.460	5634.59	-884.44	-377.76	1582.80	1666850.53	14362484.81	39°33'2.7733"N	80°54'22.4085"W	1627.25	103.423	4.36	0.80	-12.68	
6027.00	21.840	45.100	5723.38	-875.12	-358.20	1610.13	1666877.85	14362504.37	39°33'2.9664"N	80°54'22.0593"W	1649.49	102.542	7.48	1.76	-20.38	
6121.00	25.530	27.740	5809.55	-853.84	-327.88	1631.98	1666899.69	14362534.67	39°33'3.2658"N	80°54'21.7800"W	1664.59	101.360	8.35	3.93	-18.47	
6216.00	29.900	13.060	5893.73	-819.93	-286.63	1646.88	1666914.59	14362575.91	39°33'3.6733"N	80°54'21.5892"W	1671.64	99.873	8.50	4.60	-15.45	
6310.00	34.990	1.620	5973.11	-774.97	-236.78	1652.95	1666920.65	14362625.73	39°33'4.1659"N	80°54'21.5111"W	1669.82	98.152	8.46	5.41	-12.17	
6367.00†	38.573	356.505	6018.76	-742.62	-202.69	1652.33	1666920.03	14362659.81	39°33'4.5029"N	80°54'21.5186"W	1664.71	96.994	8.26	6.29	-8.97	Sycamore: 6367' MD
6405.00	41.070	353.530	6047.95	-719.07	-178.46	1650.20	1666917.90	14362684.03	39°33'4.7424"N	80°54'21.5454"W	1659.82	96.172	8.26	6.57	-7.83	
6500.00	47.210	347.990	6116.12	-654.02	-113.27	1639.41	1666907.12	14362749.20	39°33'5.3868"N	80°54'21.6822"W	1643.32	93.952	7.63	6.46	-5.83	
6509.00†	47.953	347.569	6122.19	-647.43	-106.77	1638.01	1666905.72	14362755.69	39°33'5.4510"N	80°54'21.7001"W	1641.48	93.730	8.94	8.25	-4.67	Middlesex: 6509' MD
6594.00	55.030	344.020	6175.09	-581.25	-42.38	1621.60	1666889.32	14362820.06	39°33'6.0876"N	80°54'21.9087"W	1622.15	91.497	8.94	8.33	-4.18	
6658.00†	62.049	343.401	6208.47	-526.78	9.98	1606.29	1666874.01	14362872.40	39°33'6.6053"N	80°54'22.1035"W	1606.32	89.644	11.00	10.97	-0.97	Burkett: 6658' MD
6689.00	65.450	343.130	6222.18	-499.01	36.61	1598.28	1666866.01	14362899.01	39°33'6.8685"N	80°54'22.2053"W	1598.70	88.688	11.00	10.97	-0.87	
6750.00†	72.108	342.633	6244.25	-442.23	90.92	1581.55	1666849.28	14362953.30	39°33'7.4054"N	80°54'22.4182"W	1584.16	86.710	10.94	10.91	-0.82	Marcellus POE: 6750' MD
6783.00	75.710	342.380	6253.39	-410.55	121.15	1572.02	1666839.76	14362983.53	39°33'7.7043"N	80°54'22.5395"W	1576.68	85.593	10.94	10.92	-0.77	
6878.00	82.080	342.400	6271.68	-317.42	209.96	1543.83	1666811.58	14363072.30	39°33'8.5823"N	80°54'22.8982"W	1558.04	82.255	6.71	6.71	0.02	
6973.00	88.460	341.320	6279.51	-222.82	299.88	1514.36	1666782.13	14363162.18	39°33'9.4713"N	80°54'23.2731"W	1543.77	78.799	6.81	6.72	-1.14	
7068.00	88.120	340.190	6282.35	-127.87	389.53	1483.07	1666750.84	14363251.80	39°33'10.3577"N	80°54'23.6715"W	1533.37	75.283	1.24	-0.36	-1.19	
7113.00	88.280	340.240	6283.76	-82.89	431.85	1467.84	1666735.62	14363294.10	39°33'10.7761"N	80°54'23.8653"W	1530.05	73.606	0.37	0.36	0.11	BH AT Curve <8-1/2"> (7068')(7113'-22647')
7136.00	88.400	340.270	6284.43	-59.90	453.49	1460.07	1666727.86	14363315.73	39°33'10.9901"N	80°54'23.9642"W	1528.88	72.745	0.54	0.52	0.13	
7230.00	90.860	341.110	6285.03	34.09	542.20	1428.99	1666696.79	14363404.40	39°33'11.8671"N	80°54'24.3598"W	1528.40	69.222	2.77	2.62	0.89	
7325.00	90.830	341.470	6283.63	129.07	632.17	1398.52	1666666.33	14363494.33	39°33'12.7566"N	80°54'24.7476"W	1534.76	65.676	0.38	-0.03	0.38	
7419.00	91.050	341.240	6282.09	223.05	721.22	1368.48	1666636.30	14363583.35	39°33'13.6370"N	80°54'25.1301"W	1546.90	62.210	0.34	0.23	-0.24	
7514.00	90.770	341.300	6280.58	318.02	811.18	1337.97	1666605.81	14363673.27	39°33'14.5264"N	80°54'25.5183"W	1564.67	58.773	0.30	-0.29	0.06	
7609.00	91.020	341.590	6279.10	413.00	901.23	1307.75	1666575.59	14363763.29	39°33'15.4167"N	80°54'25.9030"W	1588.21	55.428	0.40	0.26	0.31	
7704.00	90.680	339.890	6277.69	507.99	990.90	1276.42	1666544.27	14363852.92	39°33'16.3033"N	80°54'26.3018"W	1615.90	52.177	1.82	-0.36	-1.79	
7798.00	90.580	341.110	6276.66	601.98	1079.50	1245.04	1666512.91	14363941.49	39°33'17.1793"N	80°54'26.7012"W	1647.86	49.073	1.30	-0.11	1.30	



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

### WELLPATH DATA (246 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
7893.00	90.620	340.690	6275.66	696.97	1169.26	1213.96	1666481.84	14364031.22	39°33'18.0667"N	80°54'27.0969"W	1685.49	46.074	0.44	0.04	-0.44	
7987.00	90.490	341.270	6274.75	790.96	1258.13	1183.32	1666451.22	14364120.04	39°33'18.9453"N	80°54'27.4868"W	1727.18	43.245	0.63	-0.14	0.62	
8082.00	90.400	340.740	6274.01	885.95	1347.95	1152.40	1666420.31	14364209.83	39°33'19.8334"N	80°54'27.8803"W	1773.42	40.528	0.57	-0.09	-0.56	
8177.00	90.550	340.660	6273.23	980.95	1437.61	1121.01	1666388.93	14364299.45	39°33'20.7198"N	80°54'28.2800"W	1823.01	37.946	0.18	0.16	-0.08	
8272.00	90.520	339.840	6272.34	1075.95	1527.02	1088.91	1666356.84	14364388.82	39°33'21.6038"N	80°54'28.6887"W	1875.50	35.492	0.86	-0.03	-0.86	
8366.00	90.710	340.370	6271.33	1169.94	1615.40	1056.92	1666324.87	14364477.17	39°33'22.4776"N	80°54'29.0959"W	1930.44	33.196	0.60	0.20	0.56	
8461.00	90.620	341.300	6270.23	1264.93	1705.13	1025.73	1666293.69	14364566.86	39°33'23.3647"N	80°54'29.4929"W	1989.87	31.029	0.98	-0.09	0.98	
8651.00	90.740	342.210	6267.97	1454.87	1885.56	966.25	1666234.24	14364747.23	39°33'25.1486"N	80°54'30.2499"W	2118.72	27.133	0.48	0.06	0.48	
8746.00	90.620	342.060	6266.84	1549.82	1975.98	937.11	1666205.11	14364837.60	39°33'26.0425"N	80°54'30.6208"W	2186.93	25.373	0.20	-0.13	-0.16	
8840.00	90.830	341.980	6265.65	1643.78	2065.38	908.10	1666176.10	14364926.97	39°33'26.9264"N	80°54'30.9901"W	2256.20	23.734	0.24	0.22	-0.09	
8935.00	90.680	342.280	6264.40	1738.73	2155.79	878.95	1666146.97	14365017.34	39°33'27.8202"N	80°54'31.3610"W	2328.08	22.182	0.35	-0.16	0.32	
9030.00	90.710	342.760	6263.25	1833.67	2246.39	850.42	1666118.44	14365107.91	39°33'28.7159"N	80°54'31.7242"W	2401.98	20.735	0.51	0.03	0.51	
9125.00	90.430	341.420	6262.31	1928.62	2336.78	821.20	1666089.24	14365198.26	39°33'29.6096"N	80°54'32.0960"W	2476.88	19.363	1.44	-0.29	-1.41	
9219.00	90.460	341.700	6261.58	2022.61	2425.95	791.47	1666059.52	14365287.40	39°33'30.4912"N	80°54'32.4744"W	2551.80	18.069	0.30	0.03	0.30	
9314.00	90.370	341.800	6260.89	2117.58	2516.17	761.72	1666029.79	14365377.58	39°33'31.3831"N	80°54'32.8531"W	2628.94	16.843	0.14	-0.09	0.11	
9409.00	90.520	342.260	6260.15	2212.54	2606.53	732.41	1666000.49	14365467.91	39°33'32.2765"N	80°54'33.2261"W	2707.48	15.695	0.51	0.16	0.48	
9503.00	90.770	342.780	6259.09	2306.48	2696.19	704.18	1665972.27	14365557.53	39°33'33.1629"N	80°54'33.5854"W	2786.63	14.637	0.61	0.27	0.55	
9598.00	90.460	342.100	6258.07	2401.42	2786.76	675.52	1665943.62	14365648.06	39°33'34.0582"N	80°54'33.9502"W	2867.46	13.626	0.79	-0.33	-0.72	
9693.00	90.490	341.990	6257.28	2496.38	2877.13	646.24	1665914.35	14365738.39	39°33'34.9517"N	80°54'34.3229"W	2948.81	12.659	0.12	0.03	-0.12	
9788.00	90.490	342.520	6256.47	2591.33	2967.60	617.28	1665885.40	14365828.83	39°33'35.8462"N	80°54'34.6914"W	3031.12	11.750	0.56	0.00	0.56	
9882.00	90.400	342.110	6255.74	2685.28	3057.16	588.73	1665856.86	14365918.35	39°33'36.7315"N	80°54'35.0549"W	3113.33	10.900	0.45	-0.10	-0.44	
9977.00	90.770	342.690	6254.77	2780.22	3147.70	560.00	1665828.15	14366008.86	39°33'37.6267"N	80°54'35.4204"W	3197.13	10.088	0.72	0.39	0.61	
10072.00	90.580	342.850	6253.65	2875.14	3238.43	531.87	1665800.02	14366099.56	39°33'38.5237"N	80°54'35.7785"W	3281.82	9.327	0.26	-0.20	0.17	
10167.00	90.400	342.500	6252.84	2970.07	3329.12	503.58	1665771.75	14366190.21	39°33'39.4203"N	80°54'36.1386"W	3366.99	8.602	0.41	-0.19	-0.37	
10261.00	90.710	342.500	6251.93	3064.01	3418.77	475.31	1665743.49	14366279.81	39°33'40.3065"N	80°54'36.4983"W	3451.65	7.915	0.33	0.33	0.00	
10356.00	90.740	343.490	6250.73	3158.91	3509.60	447.53	1665715.72	14366370.62	39°33'41.2046"N	80°54'36.8518"W	3538.02	7.267	1.04	0.03	1.04	
10451.00	90.860	344.460	6249.40	3253.72	3600.90	421.31	1665689.51	14366461.88	39°33'42.1072"N	80°54'37.1855"W	3625.47	6.673	1.03	0.13	1.02	
10545.00	90.280	343.610	6248.47	3347.54	3691.27	395.46	1665663.67	14366552.21	39°33'43.0006"N	80°54'37.5144"W	3712.39	6.115	1.09	-0.62	-0.90	
10640.00	90.580	343.450	6247.75	3442.40	3782.37	368.52	1665636.74	14366643.27	39°33'43.9012"N	80°54'37.8572"W	3800.28	5.565	0.36	0.32	-0.17	
10735.00	90.310	343.610	6247.01	3537.27	3873.47	341.59	1665609.82	14366734.34	39°33'44.8018"N	80°54'38.1999"W	3888.50	5.040	0.33	-0.28	0.17	



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

## WELLPATH DATA (246 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
10830.00	90.620	343.840	6246.24	3632.11	3964.66	314.97	1665583.21	14366825.49	39°33'45.7033"N	80°54'38.5387"W	3977.15	4.542	0.41	0.33	0.24	
10924.00	90.580	343.670	6245.26	3725.96	4054.90	288.67	1665556.93	14366915.69	39°33'46.5955"N	80°54'38.8733"W	4065.16	4.072	0.19	-0.04	-0.18	
11019.00	90.370	343.470	6244.47	3820.82	4146.02	261.80	1665530.07	14367006.78	39°33'47.4963"N	80°54'39.2152"W	4154.28	3.613	0.31	-0.22	-0.21	
11114.00	90.740	342.850	6243.55	3915.71	4236.94	234.28	1665502.56	14367097.66	39°33'48.3951"N	80°54'39.5654"W	4243.41	3.165	0.76	0.39	-0.65	
11208.00	90.460	342.480	6242.57	4009.64	4326.67	206.28	1665474.56	14367187.35	39°33'49.2822"N	80°54'39.9219"W	4331.58	2.730	0.49	-0.30	-0.39	
11303.00	90.430	342.580	6241.83	4104.58	4417.28	177.76	1665446.06	14367277.93	39°33'50.1780"N	80°54'40.2849"W	4420.86	2.304	0.11	-0.03	0.11	
11398.00	90.680	342.930	6240.91	4199.50	4508.01	149.60	1665417.91	14367368.62	39°33'51.0750"N	80°54'40.6433"W	4510.49	1.901	0.45	0.26	0.37	
11493.00	90.370	342.460	6240.04	4294.42	4598.70	121.34	1665389.66	14367459.28	39°33'51.9716"N	80°54'41.0030"W	4600.30	1.511	0.59	-0.33	-0.49	
11587.00	90.920	342.910	6238.98	4388.35	4688.44	93.36	1665361.70	14367548.97	39°33'52.8587"N	80°54'41.3590"W	4689.37	1.141	0.76	0.59	0.48	
11682.00	90.650	343.040	6237.68	4483.25	4779.26	65.55	1665333.90	14367639.77	39°33'53.7567"N	80°54'41.7130"W	4779.71	0.786	0.32	-0.28	0.14	
11777.00	90.430	342.810	6236.78	4578.16	4870.07	37.66	1665306.01	14367730.54	39°33'54.6544"N	80°54'42.0680"W	4870.22	0.443	0.34	-0.23	-0.24	
11871.00	90.490	342.690	6236.03	4672.09	4959.84	9.78	1665278.15	14367820.27	39°33'55.5419"N	80°54'42.4228"W	4959.85	0.113	0.14	0.06	-0.13	
11966.00	90.860	342.350	6234.91	4767.02	5050.45	-18.75	1665249.63	14367910.84	39°33'56.4377"N	80°54'42.7860"W	5050.48	359.787	0.53	0.39	-0.36	
12061.00	90.310	341.880	6233.94	4861.98	5140.85	-47.92	1665220.47	14368001.21	39°33'57.3315"N	80°54'43.1574"W	5141.08	359.466	0.76	-0.58	-0.49	
12155.00	90.650	342.600	6233.15	4955.93	5230.37	-76.59	1665191.81	14368090.69	39°33'58.2164"N	80°54'43.5224"W	5230.93	359.161	0.85	0.36	0.77	
12250.00	90.550	343.030	6232.16	5050.85	5321.12	-104.66	1665163.75	14368181.41	39°33'59.1137"N	80°54'43.8797"W	5322.15	358.873	0.46	-0.11	0.45	
12345.00	90.680	343.070	6231.14	5145.75	5411.99	-132.35	1665136.07	14368272.24	39°34'0.0120"N	80°54'44.2321"W	5413.61	358.599	0.14	0.14	0.04	
12439.00	90.430	341.700	6230.23	5239.69	5501.58	-160.80	1665107.64	14368361.79	39°34'0.8977"N	80°54'44.5942"W	5503.93	358.326	1.48	-0.27	-1.46	
12534.00	90.890	341.720	6229.13	5334.66	5591.77	-190.61	1665077.84	14368451.95	39°34'1.7894"N	80°54'44.9738"W	5595.02	358.048	0.48	0.48	0.02	
12629.00	90.000	340.930	6228.40	5429.65	5681.76	-221.03	1665047.43	14368541.90	39°34'2.6791"N	80°54'45.3611"W	5686.06	357.772	1.25	-0.94	-0.83	
12723.00	91.050	341.950	6227.53	5523.63	5770.87	-250.95	1665017.52	14368630.97	39°34'3.5600"N	80°54'45.7420"W	5776.32	357.510	1.56	1.12	1.09	
12816.00	90.180	341.160	6226.54	5616.61	5859.08	-280.37	1664988.11	14368719.15	39°34'4.4322"N	80°54'46.1166"W	5865.79	357.260	1.26	-0.94	-0.85	
12911.00	90.490	341.560	6225.98	5711.59	5949.10	-310.73	1664957.76	14368809.13	39°34'5.3221"N	80°54'46.5032"W	5957.21	357.010	0.53	0.33	0.42	
13006.00	90.250	341.230	6225.37	5806.58	6039.13	-341.04	1664927.47	14368899.13	39°34'6.2122"N	80°54'46.8891"W	6048.75	356.768	0.43	-0.25	-0.35	
13101.00	90.460	341.740	6224.78	5901.56	6129.21	-371.21	1664897.31	14368989.17	39°34'7.1028"N	80°54'47.2732"W	6140.44	356.534	0.58	0.22	0.54	
13195.00	90.580	342.000	6223.93	5995.53	6218.54	-400.46	1664868.07	14369078.47	39°34'7.9859"N	80°54'47.6456"W	6231.42	356.315	0.30	0.13	0.28	
13290.00	90.120	341.230	6223.34	6090.51	6308.69	-430.42	1664838.12	14369168.58	39°34'8.8772"N	80°54'48.0271"W	6323.36	356.097	0.94	-0.48	-0.81	
13385.00	90.250	341.920	6223.04	6185.49	6398.82	-460.44	1664808.11	14369258.67	39°34'9.7682"N	80°54'48.4094"W	6415.37	355.884	0.74	0.14	0.73	
13479.00	90.120	342.070	6222.73	6279.46	6488.22	-489.50	1664779.07	14369348.03	39°34'10.6520"N	80°54'48.7793"W	6506.66	355.686	0.21	-0.14	0.16	
13574.00	90.460	342.000	6222.25	6374.43	6578.58	-518.80	1664749.78	14369438.36	39°34'11.5454"N	80°54'49.1524"W	6599.01	355.491	0.37	0.36	-0.07	



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (246 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
13669.00	90.280	341.560	6221.64	6469.40	6668.82	-548.50	1664720.09	14369528.56	39°34'12.4375"N	80°54'49.5305"W	6691.34	355.298	0.50	-0.19	-0.46	
13763.00	90.580	342.130	6220.93	6563.37	6758.14	-577.79	1664690.81	14369617.84	39°34'13.3205"N	80°54'49.9034"W	6782.79	355.113	0.69	0.32	0.61	
13858.00	90.520	342.100	6220.02	6658.33	6848.54	-606.97	1664661.65	14369708.21	39°34'14.2143"N	80°54'50.2749"W	6875.39	354.935	0.07	-0.06	-0.03	
13953.00	90.280	341.970	6219.36	6753.29	6938.91	-636.27	1664632.36	14369798.54	39°34'15.1077"N	80°54'50.6479"W	6968.02	354.761	0.29	-0.25	-0.14	
14048.00	90.000	341.590	6219.13	6848.27	7029.14	-665.97	1664602.67	14369888.74	39°34'15.9998"N	80°54'51.0261"W	7060.62	354.588	0.50	-0.29	-0.40	
14142.00	90.520	339.930	6218.70	6942.26	7117.89	-696.94	1664571.71	14369977.45	39°34'16.8772"N	80°54'51.4206"W	7151.93	354.408	1.85	0.55	-1.77	
14237.00	90.150	339.890	6218.15	7037.26	7207.11	-729.57	1664539.09	14370066.63	39°34'17.7592"N	80°54'51.8362"W	7243.94	354.220	0.39	-0.39	-0.04	
14332.00	90.180	339.750	6217.87	7132.25	7296.27	-762.35	1664506.33	14370155.77	39°34'18.6408"N	80°54'52.2536"W	7335.99	354.035	0.15	0.03	-0.15	
14427.00	90.220	340.050	6217.54	7227.24	7385.49	-794.99	1664473.70	14370244.94	39°34'19.5228"N	80°54'52.6694"W	7428.15	353.856	0.32	0.04	0.32	
14522.00	90.310	339.800	6217.10	7322.24	7474.72	-827.60	1664441.10	14370334.14	39°34'20.4050"N	80°54'53.0848"W	7520.39	353.682	0.28	0.09	-0.26	
14616.00	90.150	340.010	6216.72	7416.23	7562.99	-859.90	1664408.82	14370422.38	39°34'21.2778"N	80°54'53.4961"W	7611.72	353.513	0.28	-0.17	0.22	
14711.00	89.720	339.780	6216.83	7511.22	7652.20	-892.55	1664376.17	14370511.55	39°34'22.1598"N	80°54'53.9120"W	7704.08	353.347	0.51	-0.45	-0.24	
14805.00	90.120	339.790	6216.96	7605.22	7740.41	-925.03	1664343.71	14370599.73	39°34'23.0319"N	80°54'54.3258"W	7795.49	353.185	0.43	0.43	0.01	
14900.00	90.060	340.200	6216.81	7700.21	7829.68	-957.53	1664311.22	14370688.96	39°34'23.9144"N	80°54'54.7397"W	7888.01	353.028	0.44	-0.06	0.43	
14995.00	90.120	340.260	6216.66	7795.21	7919.08	-989.67	1664279.10	14370778.32	39°34'24.7983"N	80°54'55.1490"W	7980.68	352.877	0.09	0.06	0.06	
15090.00	90.000	339.680	6216.56	7890.21	8008.33	-1022.21	1664246.57	14370867.54	39°34'25.6807"N	80°54'55.5634"W	8073.31	352.726	0.62	-0.13	-0.61	
15184.00	90.030	340.030	6216.54	7984.20	8096.58	-1054.58	1664214.21	14370955.75	39°34'26.5532"N	80°54'55.9758"W	8164.97	352.579	0.37	0.03	0.37	
15279.00	89.780	339.720	6216.70	8079.20	8185.78	-1087.27	1664181.54	14371044.92	39°34'27.4351"N	80°54'56.3921"W	8257.67	352.434	0.42	-0.26	-0.33	
15373.00	90.150	340.270	6216.75	8173.19	8274.11	-1119.42	1664149.40	14371133.21	39°34'28.3083"N	80°54'56.8018"W	8349.49	352.295	0.71	0.39	0.59	
15468.00	90.150	340.280	6216.51	8268.19	8363.54	-1151.49	1664117.35	14371222.60	39°34'29.1924"N	80°54'57.2101"W	8442.43	352.161	0.01	0.00	0.01	
15563.00	89.450	340.040	6216.84	8363.19	8452.90	-1183.73	1664085.12	14371311.92	39°34'30.0759"N	80°54'57.6208"W	8535.38	352.028	0.78	-0.74	-0.25	
15657.00	89.780	339.480	6217.47	8457.18	8541.09	-1216.25	1664052.61	14371400.08	39°34'30.9478"N	80°54'58.0350"W	8627.25	351.896	0.69	0.35	-0.60	
15752.00	90.000	339.190	6217.65	8552.16	8629.98	-1249.77	1664019.10	14371488.93	39°34'31.8266"N	80°54'58.4621"W	8720.00	351.760	0.38	0.23	-0.31	
15846.00	90.250	340.420	6217.45	8646.15	8718.20	-1282.22	1663986.66	14371577.12	39°34'32.6988"N	80°54'58.8755"W	8811.98	351.633	1.34	0.27	1.31	
15941.00	89.750	339.960	6217.45	8741.15	8807.57	-1314.42	1663954.48	14371666.46	39°34'33.5825"N	80°54'59.2856"W	8905.11	351.512	0.72	-0.53	-0.48	
16036.00	90.120	340.020	6217.55	8836.14	8896.84	-1346.93	1663921.99	14371755.69	39°34'34.4650"N	80°54'59.6997"W	8998.22	351.391	0.39	0.39	0.06	
16131.00	89.750	339.420	6217.66	8931.13	8985.95	-1379.85	1663889.07	14371844.76	39°34'35.3460"N	80°55'0.1191"W	9091.27	351.270	0.74	-0.39	-0.63	
16226.00	90.340	338.890	6217.59	9026.11	9074.73	-1413.66	1663855.28	14371933.51	39°34'36.2237"N	80°55'0.5498"W	9184.18	351.146	0.83	0.62	-0.56	
16320.00	90.310	339.800	6217.05	9120.08	9162.69	-1446.81	1663822.14	14372021.43	39°34'37.0933"N	80°55'0.9722"W	9276.21	351.027	0.97	-0.03	0.97	
16415.00	90.370	339.680	6216.49	9215.07	9251.81	-1479.71	1663789.25	14372110.51	39°34'37.9744"N	80°55'1.3912"W	9369.39	350.913	0.14	0.06	-0.13	





# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (246 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	
16509.00	89.320	339.400	6216.75	9309.06	9339.87	-1512.57	1663756.41	14372198.55	39°34'38.8451"N	80°55'1.8098"W	9461.56	350.801	1.16	-1.12	-0.30		
16604.00	90.220	338.880	6217.13	9404.03	9428.65	-1546.39	1663722.60	14372287.28	39°34'39.7228"N	80°55'2.2408"W	9554.62	350.686	1.09	0.95	-0.55		
16699.00	90.180	339.930	6216.79	9499.01	9517.57	-1579.81	1663689.19	14372376.17	39°34'40.6020"N	80°55'2.6665"W	9647.80	350.575	1.11	-0.04	1.11		
16793.00	90.520	339.810	6216.22	9593.00	9605.83	-1612.16	1663656.86	14372464.39	39°34'41.4745"N	80°55'3.0786"W	9740.17	350.473	0.38	0.36	-0.13		
16888.00	90.120	339.350	6215.69	9687.99	9694.86	-1645.31	1663623.72	14372553.39	39°34'42.3547"N	80°55'3.5009"W	9833.48	350.368	0.64	-0.42	-0.48		
16983.00	90.490	339.800	6215.18	9782.97	9783.88	-1678.46	1663590.59	14372642.38	39°34'43.2349"N	80°55'3.9232"W	9926.81	350.265	0.61	0.39	0.47		
17077.00	90.030	339.010	6214.76	9876.96	9871.87	-1711.52	1663557.53	14372730.33	39°34'44.1048"N	80°55'4.3445"W	10019.14	350.164	0.97	-0.49	-0.84		
17171.00	90.620	339.860	6214.22	9970.94	9959.88	-1744.54	1663524.53	14372818.30	39°34'44.9749"N	80°55'4.7651"W	10111.51	350.065	1.10	0.63	0.90		
17266.00	90.000	339.510	6213.71	10065.92	10048.97	-1777.52	1663491.56	14372907.36	39°34'45.8557"N	80°55'5.1853"W	10204.97	349.969	0.75	-0.65	-0.37		
17361.00	89.940	340.170	6213.76	10160.92	10138.15	-1810.26	1663458.83	14372996.50	39°34'46.7373"N	80°55'5.6024"W	10298.50	349.876	0.70	-0.06	0.69		
17456.00	90.280	340.600	6213.58	10255.92	10227.64	-1842.16	1663426.95	14373085.95	39°34'47.6220"N	80°55'6.0087"W	10392.21	349.790	0.58	0.36	0.45		
17550.00	90.180	340.260	6213.20	10349.92	10316.20	-1873.64	1663395.48	14373174.48	39°34'48.4977"N	80°55'6.4098"W	10484.97	349.706	0.38	-0.11	-0.36		
17645.00	90.220	340.060	6212.87	10444.91	10405.56	-1905.88	1663363.25	14373263.81	39°34'49.3811"N	80°55'6.8205"W	10578.67	349.621	0.21	0.04	-0.21		
17740.00	90.090	340.210	6212.61	10539.91	10494.91	-1938.16	1663330.98	14373353.12	39°34'50.2644"N	80°55'7.2318"W	10672.38	349.537	0.21	-0.14	0.16		
17834.00	89.780	341.340	6212.72	10633.91	10583.67	-1969.12	1663300.04	14373441.84	39°34'51.1419"N	80°55'7.6260"W	10765.29	349.460	1.25	-0.33	1.20		
17929.00	89.970	341.500	6212.93	10728.90	10673.72	-1999.39	1663269.79	14373531.85	39°34'52.0322"N	80°55'8.0116"W	10859.36	349.390	0.26	0.20	0.17		
18024.00	90.120	341.590	6212.85	10823.88	10763.83	-2029.46	1663239.73	14373621.93	39°34'52.9230"N	80°55'8.3946"W	10953.48	349.323	0.18	0.16	0.09		
18118.00	90.060	341.820	6212.70	10917.86	10853.08	-2058.97	1663210.23	14373711.14	39°34'53.8054"N	80°55'8.7705"W	11046.66	349.258	0.25	-0.06	0.24		
18213.00	90.220	341.690	6212.47	11012.84	10943.30	-2088.71	1663180.50	14373801.33	39°34'54.6973"N	80°55'9.1493"W	11140.85	349.194	0.22	0.17	-0.14		
18308.00	90.220	341.470	6212.11	11107.82	11033.43	-2118.73	1663150.49	14373891.43	39°34'55.5884"N	80°55'9.5316"W	11235.02	349.130	0.23	0.00	-0.23		
18403.00	90.460	341.990	6211.54	11202.79	11123.64	-2148.51	1663120.72	14373981.60	39°34'56.4802"N	80°55'9.9110"W	11329.23	349.068	0.60	0.25	0.55		
18497.00	89.940	341.540	6211.21	11296.77	11212.92	-2177.92	1663091.32	14374070.84	39°34'57.3628"N	80°55'10.2856"W	11422.48	349.008	0.73	-0.55	-0.48		
18592.00	90.060	341.610	6211.21	11391.75	11303.05	-2207.95	1663061.31	14374160.94	39°34'58.2539"N	80°55'10.6681"W	11516.68	348.947	0.15	0.13	0.07		
18686.00	89.940	341.630	6211.21	11485.74	11392.26	-2237.59	1663031.68	14374250.11	39°34'59.1358"N	80°55'11.0456"W	11609.92	348.888	0.13	-0.13	0.02		
18781.00	90.090	341.540	6211.19	11580.72	11482.39	-2267.60	1663001.68	14374340.20	39°35'0.0269"N	80°55'11.4279"W	11704.16	348.829	0.18	0.16	-0.09		
18876.00	90.400	341.550	6210.78	11675.70	11572.51	-2297.67	1662971.62	14374430.28	39°35'0.9177"N	80°55'11.8109"W	11798.40	348.770	0.33	0.33	0.01		
18970.00	89.660	342.050	6210.73	11769.68	11661.80	-2327.03	1662942.27	14374519.54	39°35'1.8005"N	80°55'12.1849"W	11891.71	348.715	0.95	-0.79	0.53		
19065.00	89.690	341.730	6211.27	11864.65	11752.09	-2356.56	1662912.76	14374609.80	39°35'2.6932"N	80°55'12.5610"W	11986.04	348.661	0.34	0.03	-0.34		
19160.00	89.660	341.490	6211.81	11959.63	11842.24	-2386.53	1662882.80	14374699.91	39°35'3.5844"N	80°55'12.9428"W	12080.32	348.606	0.25	-0.03	-0.25		
19254.00	89.660	340.530	6212.37	12053.62	11931.12	-2417.12	1662852.22	14374788.75	39°35'4.4631"N	80°55'13.3325"W	12173.50	348.547	1.02	0.00	-1.02		



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

## WELLPATH DATA (246 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
19349.00	89.820	341.340	6212.80	12148.62	12020.91	-2448.15	1662821.21	14374878.51	39°35'5.3507"N	80°55'13.7278"W	12267.67	348.489	0.87	0.17	0.85	
19443.00	89.660	341.690	6213.23	12242.60	12110.06	-2477.95	1662791.41	14374967.62	39°35'6.2321"N	80°55'14.1074"W	12360.98	348.436	0.41	-0.17	0.37	
19538.00	89.690	341.550	6213.77	12337.58	12200.21	-2507.90	1662761.47	14375057.74	39°35'7.1233"N	80°55'14.4890"W	12455.31	348.384	0.15	0.03	-0.15	
19633.00	89.720	341.510	6214.26	12432.56	12290.32	-2538.00	1662731.39	14375147.80	39°35'8.0141"N	80°55'14.8724"W	12549.63	348.332	0.05	0.03	-0.04	
19728.00	89.750	341.770	6214.70	12527.54	12380.48	-2567.92	1662701.48	14375237.93	39°35'8.9055"N	80°55'15.2536"W	12643.99	348.282	0.28	0.03	0.27	
19822.00	89.630	341.190	6215.20	12621.53	12469.61	-2597.78	1662671.63	14375327.03	39°35'9.7866"N	80°55'15.6339"W	12737.33	348.232	0.63	-0.13	-0.62	
19917.00	89.820	340.800	6215.66	12716.52	12559.43	-2628.72	1662640.71	14375416.81	39°35'10.6746"N	80°55'16.0280"W	12831.58	348.179	0.46	0.20	-0.41	
20012.00	89.720	340.500	6216.04	12811.52	12649.06	-2660.19	1662609.24	14375506.41	39°35'11.5607"N	80°55'16.4291"W	12925.77	348.123	0.33	-0.11	-0.32	
20201.00	89.720	340.570	6216.96	13000.52	12827.26	-2723.17	1662546.29	14375684.53	39°35'13.3224"N	80°55'17.2315"W	13113.13	348.014	0.04	0.00	0.04	
20296.00	89.720	340.470	6217.43	13095.52	12916.82	-2754.85	1662514.62	14375774.06	39°35'14.2079"N	80°55'17.6351"W	13207.33	347.961	0.11	0.00	-0.11	
20390.00	89.720	340.510	6217.89	13189.52	13005.42	-2786.25	1662483.24	14375862.62	39°35'15.0838"N	80°55'18.0351"W	13300.53	347.908	0.04	0.00	0.04	
20485.00	89.750	340.500	6218.33	13284.52	13094.97	-2817.95	1662451.55	14375952.14	39°35'15.9691"N	80°55'18.4391"W	13394.75	347.856	0.03	0.03	-0.01	
20580.00	89.630	340.140	6218.84	13379.52	13184.42	-2849.94	1662419.57	14376041.55	39°35'16.8535"N	80°55'18.8467"W	13488.93	347.803	0.40	-0.13	-0.38	
20675.00	89.780	340.640	6219.33	13474.51	13273.91	-2881.83	1662387.70	14376131.01	39°35'17.7382"N	80°55'19.2530"W	13583.14	347.751	0.55	0.16	0.53	
20769.00	89.780	340.830	6219.69	13568.51	13362.65	-2912.84	1662356.70	14376219.71	39°35'18.6154"N	80°55'19.6481"W	13676.44	347.703	0.20	0.00	0.20	
20864.00	89.820	340.660	6220.02	13663.51	13452.33	-2944.17	1662325.38	14376309.35	39°35'19.5021"N	80°55'20.0473"W	13770.74	347.655	0.18	0.04	-0.18	
20959.00	89.630	340.320	6220.48	13758.51	13541.88	-2975.90	1662293.67	14376398.86	39°35'20.3873"N	80°55'20.4515"W	13865.01	347.606	0.41	-0.20	-0.36	
21054.00	89.780	340.120	6220.97	13853.51	13631.27	-3008.04	1662261.53	14376488.22	39°35'21.2711"N	80°55'20.8612"W	13959.22	347.556	0.26	0.16	-0.21	
21148.00	89.140	340.080	6221.85	13947.50	13719.65	-3040.04	1662229.55	14376576.57	39°35'22.1449"N	80°55'21.2689"W	14052.43	347.506	0.68	-0.68	-0.04	
21243.00	89.390	340.700	6223.07	14042.49	13809.14	-3071.92	1662197.68	14376666.01	39°35'23.0295"N	80°55'21.6751"W	14146.69	347.458	0.70	0.26	0.65	
21338.00	89.540	340.690	6223.96	14137.49	13898.79	-3103.32	1662166.29	14376755.63	39°35'23.9158"N	80°55'22.0753"W	14241.03	347.413	0.16	0.16	-0.01	
21433.00	89.230	340.380	6224.98	14232.48	13988.35	-3134.98	1662134.65	14376845.16	39°35'24.8013"N	80°55'22.4786"W	14335.35	347.368	0.46	-0.33	-0.33	
21527.00	89.350	340.520	6226.14	14326.47	14076.93	-3166.43	1662103.21	14376933.70	39°35'25.6770"N	80°55'22.8794"W	14428.66	347.323	0.20	0.13	0.15	
21622.00	89.320	340.830	6227.25	14421.47	14166.57	-3197.87	1662071.79	14377023.31	39°35'26.5632"N	80°55'23.2800"W	14523.02	347.280	0.33	-0.03	0.33	
21717.00	89.480	340.740	6228.24	14516.46	14256.27	-3229.13	1662040.53	14377112.97	39°35'27.4500"N	80°55'23.6784"W	14617.41	347.238	0.19	0.17	-0.09	
21812.00	89.350	340.620	6229.21	14611.46	14345.92	-3260.56	1662009.12	14377202.58	39°35'28.3362"N	80°55'24.0788"W	14711.79	347.195	0.19	-0.14	-0.13	
21906.00	89.290	340.560	6230.33	14705.45	14434.57	-3291.80	1661977.89	14377291.20	39°35'29.2127"N	80°55'24.4769"W	14805.16	347.153	0.09	-0.06	-0.06	
22001.00	89.450	341.360	6231.37	14800.44	14524.37	-3322.79	1661946.92	14377380.96	39°35'30.1004"N	80°55'24.8717"W	14899.60	347.114	0.86	0.17	0.84	
22096.00	89.380	341.300	6232.34	14895.42	14614.36	-3353.20	1661916.52	14377470.92	39°35'30.9901"N	80°55'25.2592"W	14994.12	347.077	0.10	-0.07	-0.06	
22190.00	89.480	340.800	6233.28	14989.41	14703.26	-3383.72	1661886.01	14377559.78	39°35'31.8690"N	80°55'25.6481"W	15087.59	347.040	0.54	0.11	-0.53	



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

## WELLPATH DATA (246 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
22285.00	89.510	340.880	6234.11	15084.41	14793.00	-3414.90	1661854.84	14377649.48	39°35'32.7561"N	80°55'26.0454"W	15182.04	347.001	0.09	0.03	0.08	
22380.00	89.510	340.870	6234.93	15179.40	14882.75	-3446.02	1661823.73	14377739.20	39°35'33.6434"N	80°55'26.4420"W	15276.50	346.963	0.01	0.00	-0.01	
22475.00	89.380	340.560	6235.85	15274.40	14972.42	-3477.40	1661792.37	14377828.83	39°35'34.5298"N	80°55'26.8418"W	15370.93	346.925	0.35	-0.14	-0.33	
22569.00	89.420	340.320	6236.83	15368.39	15060.99	-3508.86	1661760.91	14377917.36	39°35'35.4055"N	80°55'27.2428"W	15464.33	346.885	0.26	0.04	-0.26	
22647.00	89.660	340.670	6237.46	15446.39	15134.51	-3534.91	1661734.88	14377990.85	39°35'36.1323"N	80°55'27.5747"W	15541.84	346.853	0.54	0.31	0.45	
22672.00‡	89.660	340.670	6237.61	15471.39	15158.10	-3543.18	1661726.61	14378014.43	39°35'36.3655"N	80°55'27.6802"W	15566.70	346.843	0.00	0.00	0.00	Projected MD at TD: 22672'

## HOLE & CASING SECTIONS - Ref Wellbore: Ripple Unit 2H AWB Ref Wellpath: Ripple Unit 2H AWP Proj: 22672'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.14	0.24
17.5in Open Hole	125.50	620.00	494.50	125.50	620.00	-0.14	0.24	0.17	0.22
13.375in Casing Surface	25.50	600.00	574.50	25.50	600.00	0.00	0.00	0.03	0.22
12.25in Open Hole	620.00	3281.00	2661.00	620.00	3176.94	0.17	0.22	-162.08	624.52
9.625in Casing Intermediate	25.50	3251.00	3225.50	25.50	3148.85	0.00	0.00	-160.66	614.08
8.75in Open Hole	3281.00	7136.00	3855.00	3176.94	6284.43	-162.08	624.52	453.49	1460.07
8.5in Open Hole	7136.00	22672.00	15536.00	6284.43	6237.61	453.49	1460.07	15158.10	-3543.18
5.5in Casing Production	25.50	22652.00	22626.50	25.50	6237.49	0.00	0.00	15139.22	-3536.56



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Ripple Unit 2H BHL Rev-5	6190.48	17591.17	-4426.34	1660843.81	14380446.53	39°36'0.4192"N	80°55'38.9364"W	point
Ripple Unit 2H BHL Rev-6	6203.90	15175.89	-3571.00	1661698.80	14378032.22	39°35'36.5416"N	80°55'28.0353"W	point
Ripple Unit 2H POE Rev-5	6243.00	112.90	1578.88	1666846.62	14362975.27	39°33'7.6226"N	80°54'22.4520"W	point
Ripple Unit 2H LP Rev-4	6286.00	341.38	1503.98	1666771.75	14363203.67	39°33'9.8816"N	80°54'23.4052"W	point

WELLPATH COMPOSITION - Ref Wellbore: Ripple Unit 2H AWB Ref Wellpath: Ripple Unit 2H AWP Proj: 22672'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	600.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-600')	Ripple Unit 2H AWB	6/23/2023
600.00	733.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4"> (600')(700'-733')	Ripple Unit 2H AWB	6/24/2023
733.00	3210.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (733')(764'-3210')	Ripple Unit 2H AWB	6/23/2023
3210.00	7068.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3210')(3277'-7068')	Ripple Unit 2H AWB	7/28/2023
7068.00	22672.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH AT Curve <8-1/2"> (7068')(7113'-22647')	Ripple Unit 2H AWB	7/28/2023



# Actual Wellpath Report

Ripple Unit 2H AWP Proj: 22672'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 2H
Field	Tyler	API	47-095-02865-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 2H AWB
Slot	Slot D		

COMMENTS
<p>Wellpath general comments API: 47-095-02865-0000 BH Job #: 111856024 Rig: H&amp;P 317 Duration: 8/2/2023-8/7/2023 Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-600') Gyrodata MS Gyro &lt;12-1/4"&gt; (600')(700'-733') APS EM &lt;12-1/4"&gt; (733')(764'-3210') APS EM &lt;8-3/4"&gt; (3210')(3277'-7068') BH AT Curve &lt;8-1/2"&gt; (7068')(7113'-22647') Sycamore: 6367' MD Middlesex: 6509' MD Burkett: 6658' MD Marcellus POE: 6750' MD Projected MD at TD: 22672'</p>

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