



# ANTERO RESOURCES CORPORATION

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

Slot: Slot C  
 Well: Ripple Unit 1H  
 Wellbore: Ripple Unit 1H PWB

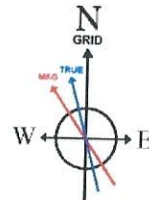


Plot reference wellpath is Ripple Unit 1H PWP Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1032.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1007 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-08-04; Database: WA_MPL_EASTERNUS_Deth

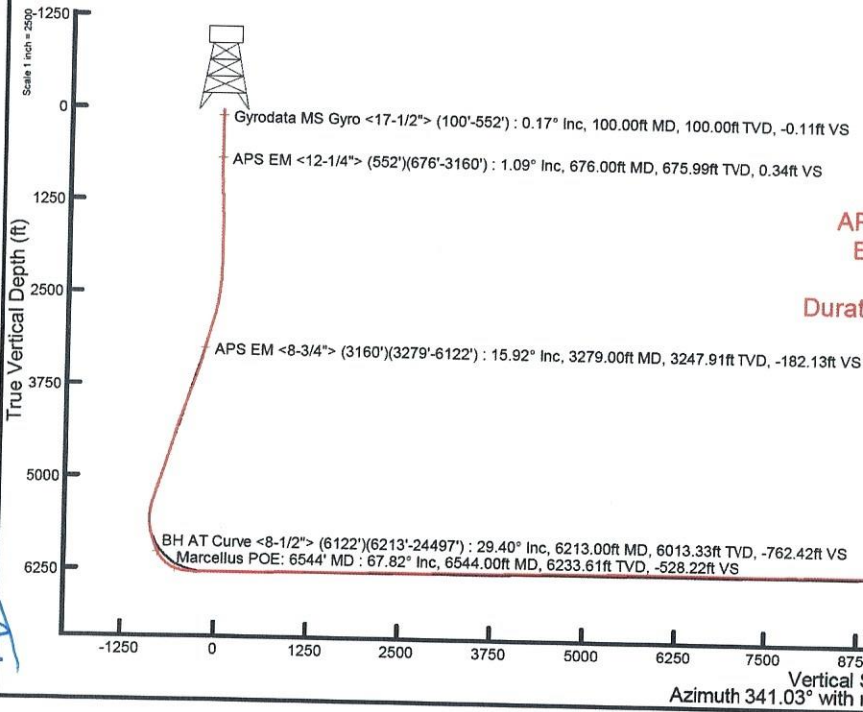
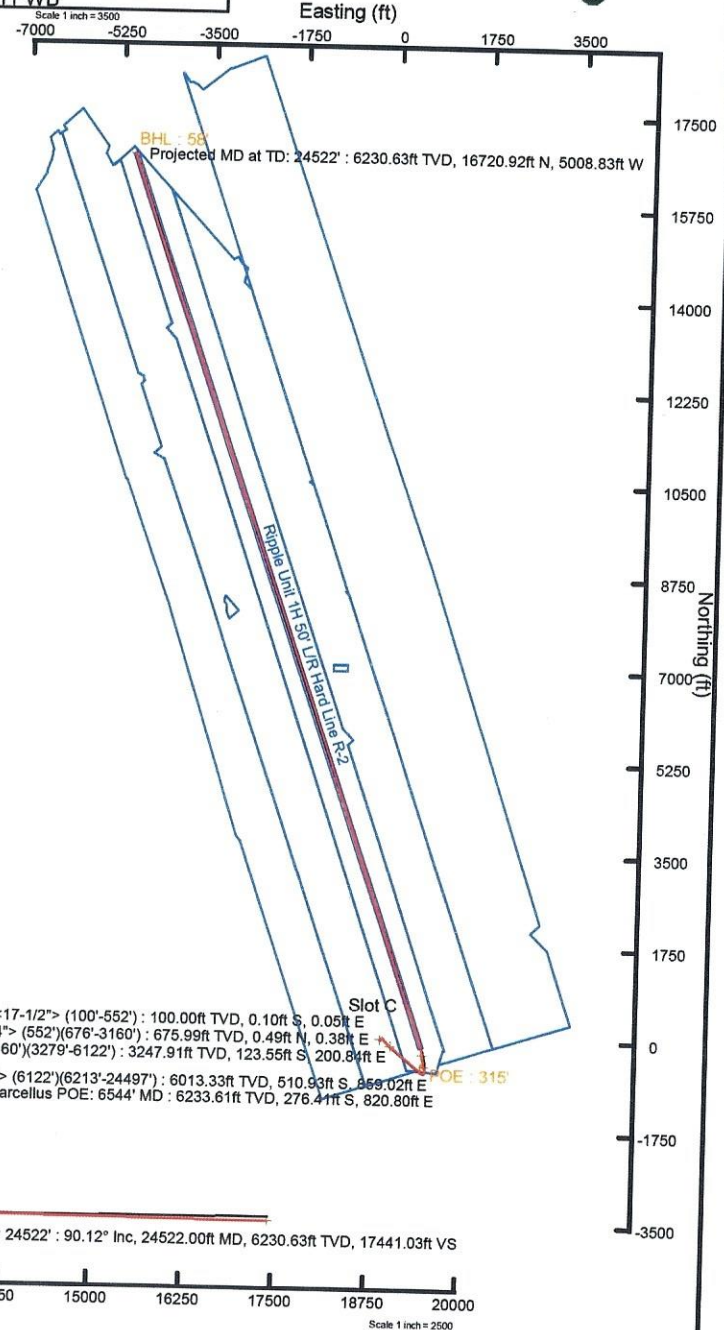
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Dry Run Pad	1865236.690	14362894.350	39°33'6.8388"N	80°54'43.0140"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot C	-21.30	21.13	1865257.810	14362873.080
Comment	Ripple Unit 1H			
H&P 317 (RKB) to Ground level (At Slot: Slot C)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot C)	-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)	VS (ft)
Tie On	3160.00	17.710	134.880	3134.00	-100.56	175.29	-152.08
Proj. to Bottom	3234.00	17.710	134.880	3204.49	-116.45	191.24	-172.29
Drill Out	3314.00	17.710	134.880	3280.70	-133.62	208.48	-194.13
End of 3D Arc	3478.11	20.392	129.066	3435.82	-169.26	248.38	-240.81
Curve KOP	5529.11	20.392	129.066	5358.29	-619.64	803.24	-847.09
Build / Avoid No-Go	6096.81	30.000	0.000	6898.77	-538.59	884.32	-793.98
POE	6625.13	70.043	341.027	6233.00	-151.11	799.72	-402.87
Landing Pt.	6878.35	90.300	341.027	6276.00	83.61	719.02	-154.67
BHL	24479.00	90.300	341.027	6183.84	16727.78	-5003.37	17445.74

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Ripple Unit 1H	Ripple Unit 1H AAWB	Ripple Unit 1H AWP Proj: 24522'
Slot C	Ripple Unit 1H	Ripple Unit 1H PWB	Ripple Unit 1H PWP Rev-C.0



User specified (HDGM) Dip: 66.20° Field: 51411 nT  
 Magnetic North is 7.38 degrees West of True North (at 7/21/2023)  
 Grid North is 0.06 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.06 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.44 degrees





# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Ripple Unit 1H
Field	Tyler		API	47-095-02864-0000
Facility	Dry Run Pad		Wellbore	Ripple Unit 1H AWB
Slot	Slot C			

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	8/4/2023 at 2:22:18 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	-21.30	21.13	1665257.81	14362873.06	39°33'6.6279"N	80°54'42.7446"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 C)	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	341.03°



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 2 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (265 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	150.520	0.00	0.00	0.00	0.00	1665257.81	14362873.06	39°33'6.6279"N	80°54'42.7446"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	150.520	25.50	0.00	0.00	0.00	1665257.81	14362873.06	39°33'6.6279"N	80°54'42.7446"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.170	150.520	100.00	-0.11	-0.10	0.05	1665257.86	14362872.96	39°33'6.6270"N	80°54'42.7439"W	0.11	150.520	0.23	0.23	0.00	Gyrodata MS Gyro <17-1/2"> (100'-552')
200.00	0.140	146.650	200.00	-0.37	-0.33	0.19	1665258.00	14362872.73	39°33'6.6247"N	80°54'42.7421"W	0.38	149.279	0.03	-0.03	-3.87	
300.00	0.140	174.390	300.00	-0.61	-0.55	0.27	1665258.08	14362872.51	39°33'6.6225"N	80°54'42.7411"W	0.62	153.590	0.07	0.00	27.74	
400.00	0.100	229.210	400.00	-0.76	-0.73	0.22	1665258.03	14362872.33	39°33'6.6207"N	80°54'42.7418"W	0.76	163.254	0.12	-0.04	54.82	
500.00	0.170	303.910	500.00	-0.68	-0.70	0.03	1665257.84	14362872.36	39°33'6.6210"N	80°54'42.7442"W	0.70	177.531	0.17	0.07	74.70	
552.00	0.130	306.670	552.00	-0.57	-0.63	-0.08	1665257.73	14362872.43	39°33'6.6218"N	80°54'42.7456"W	0.63	187.376	0.08	-0.08	5.31	
676.00	1.090	29.280	675.99	0.34	0.49	0.38	1665258.19	14362873.55	39°33'6.6328"N	80°54'42.7397"W	0.62	38.176	0.87	0.77	66.62	APS EM <12-1/4"> (552')(676'-3160')
764.00	2.520	43.070	763.95	1.80	2.63	2.11	1665259.92	14362875.69	39°33'6.6539"N	80°54'42.7176"W	3.37	38.781	1.69	1.63	15.67	
815.00	2.970	45.110	814.89	2.90	4.38	3.82	1665261.62	14362877.44	39°33'6.6712"N	80°54'42.6958"W	5.81	41.045	0.90	0.88	4.00	
943.00	4.040	44.340	942.65	6.38	9.95	9.32	1665267.12	14362883.00	39°33'6.7262"N	80°54'42.6255"W	13.63	43.123	0.84	0.84	-0.60	
1032.00	4.900	43.280	1031.37	9.56	14.96	14.11	1665271.92	14362888.01	39°33'6.7756"N	80°54'42.5642"W	20.56	43.338	0.97	0.97	-1.19	
1127.00	4.870	43.080	1126.03	13.34	20.86	19.65	1665277.45	14362893.91	39°33'6.8339"N	80°54'42.4935"W	28.65	43.293	0.04	-0.03	-0.21	
1222.00	4.910	44.570	1220.68	17.04	26.70	25.26	1665283.06	14362899.75	39°33'6.8916"N	80°54'42.4218"W	36.75	43.411	0.14	0.04	1.57	
1316.00	4.790	46.340	1314.35	20.47	32.27	30.92	1665288.72	14362905.32	39°33'6.9466"N	80°54'42.3494"W	44.69	43.772	0.20	-0.13	1.88	
1411.00	3.310	47.780	1409.11	23.21	36.85	35.82	1665293.62	14362909.90	39°33'6.9918"N	80°54'42.2868"W	51.39	44.184	1.56	-1.56	1.52	
1506.00	1.870	56.400	1504.01	24.68	39.56	39.14	1665296.94	14362912.60	39°33'7.0185"N	80°54'42.2444"W	55.65	44.699	1.57	-1.52	9.07	
1600.00	0.370	85.170	1597.99	25.00	40.43	40.72	1665298.52	14362913.47	39°33'7.0271"N	80°54'42.2242"W	57.38	45.206	1.66	-1.60	30.61	
1695.00	0.330	203.100	1692.99	24.72	40.20	40.92	1665298.71	14362913.25	39°33'7.0249"N	80°54'42.2217"W	57.37	45.506	0.63	-0.04	124.14	
1790.00	0.240	196.440	1787.99	24.35	39.76	40.76	1665298.55	14362912.81	39°33'7.0205"N	80°54'42.2238"W	56.94	45.708	0.10	-0.09	-7.01	
1884.00	0.170	220.920	1881.98	24.12	39.47	40.61	1665298.40	14362912.51	39°33'7.0176"N	80°54'42.2256"W	56.63	45.817	0.12	-0.07	26.04	
1979.00	0.170	169.880	1976.98	23.91	39.22	40.54	1665298.34	14362912.27	39°33'7.0152"N	80°54'42.2265"W	56.41	45.948	0.15	0.00	-53.73	
2074.00	0.070	261.480	2071.98	23.78	39.07	40.51	1665298.30	14362912.12	39°33'7.0137"N	80°54'42.2269"W	56.28	46.033	0.20	-0.11	96.42	
2169.00	1.050	144.680	2166.98	22.96	38.36	40.96	1665298.75	14362911.40	39°33'7.0066"N	80°54'42.2212"W	56.11	46.877	1.14	1.03	-122.95	
2263.00	3.060	136.270	2260.91	19.85	35.84	43.19	1665300.98	14362908.89	39°33'6.9817"N	80°54'42.1928"W	56.12	50.312	2.16	2.14	-8.95	
2358.00	4.790	136.160	2355.69	13.95	31.15	47.69	1665305.48	14362904.19	39°33'6.9353"N	80°54'42.1354"W	56.96	56.850	1.82	1.82	-0.12	
2453.00	6.820	133.500	2450.20	5.35	24.40	54.53	1665312.32	14362897.45	39°33'6.8686"N	80°54'42.0481"W	59.74	65.891	2.15	2.14	-2.80	
2547.00	8.700	133.200	2543.33	-5.89	15.69	63.76	1665321.54	14362888.75	39°33'6.7824"N	80°54'41.9304"W	65.66	76.173	2.00	2.00	-0.32	
2642.00	11.170	134.650	2636.90	-20.49	4.31	75.55	1665333.33	14362877.36	39°33'6.6698"N	80°54'41.7801"W	75.67	86.738	2.61	2.60	1.53	



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'  
Page 3 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (265 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	14.570	137.060	2729.50	-39.65	-10.91	90.24	1665348.01	14362862.15	39°33'6.5192"N	80°54'41.5927"W	90.89	96.896	3.62	3.58	2.54	
2832.00	17.130	138.370	2820.88	-63.49	-30.12	107.67	1665365.44	14362842.95	39°33'6.3292"N	80°54'41.3704"W	111.81	105.629	2.72	2.69	1.38	
2926.00	17.370	137.840	2910.65	-89.16	-50.87	126.29	1665384.05	14362822.21	39°33'6.1240"N	80°54'41.1330"W	136.15	111.940	0.31	0.26	-0.56	
3021.00	16.850	134.580	3001.45	-114.52	-71.05	145.61	1665403.37	14362802.04	39°33'5.9244"N	80°54'40.8865"W	162.02	116.008	1.15	-0.55	-3.43	
3115.00	17.920	135.010	3091.15	-139.72	-90.84	165.54	1665423.29	14362782.26	39°33'5.7286"N	80°54'40.6324"W	188.83	118.755	1.15	1.14	0.46	
3160.00	17.710	134.880	3134.00	-152.08	-100.56	175.29	1665433.03	14362772.54	39°33'5.6324"N	80°54'40.5081"W	202.08	119.843	0.47	-0.47	-0.29	
3279.00	15.920	128.750	3247.91	-182.13	-123.55	200.84	1665458.57	14362749.56	39°33'5.4049"N	80°54'40.1821"W	235.80	121.599	2.12	-1.50	-5.15	APS EM <8-3/4"> (3160')(3279'-6122')
3374.00	17.510	126.870	3338.90	-204.98	-140.29	222.44	1665480.16	14362732.83	39°33'5.2393"N	80°54'39.9066"W	262.98	122.238	1.77	1.67	-1.98	
3469.00	19.720	125.180	3428.92	-229.80	-158.10	246.98	1665504.69	14362715.03	39°33'5.0630"N	80°54'39.2604"W	293.24	122.624	2.39	2.33	-1.78	
3563.00	20.460	126.770	3517.20	-256.23	-177.07	273.10	1665530.80	14362696.06	39°33'4.8753"N	80°54'39.2604"W	325.48	122.958	0.98	0.79	1.69	
3658.00	20.370	129.830	3606.24	-284.10	-197.60	299.10	1665556.79	14362675.54	39°33'4.6721"N	80°54'38.9287"W	358.48	123.451	1.13	-0.09	3.22	
3753.00	20.550	128.700	3695.24	-312.33	-218.61	324.81	1665582.49	14362654.53	39°33'4.4642"N	80°54'38.6008"W	391.53	123.943	0.46	0.19	-1.19	
3847.00	21.160	131.310	3783.09	-341.00	-240.13	350.43	1665608.10	14362633.03	39°33'4.2513"N	80°54'38.2740"W	424.81	124.421	1.18	0.65	2.78	
3942.00	22.160	133.940	3871.38	-371.85	-263.88	376.21	1665633.87	14362609.28	39°33'4.0163"N	80°54'37.9451"W	459.53	125.047	1.47	1.05	2.77	
4037.00	22.970	130.980	3959.11	-403.84	-288.47	403.11	1665660.75	14362584.70	39°33'3.7730"N	80°54'37.6021"W	495.69	125.588	1.47	0.85	-3.12	
4132.00	22.850	132.390	4046.62	-436.08	-313.06	430.72	1665688.36	14362560.12	39°33'3.5296"N	80°54'37.2498"W	532.48	126.011	0.59	-0.13	1.48	
4226.00	22.820	126.980	4133.26	-467.20	-336.34	458.77	1665716.39	14362536.86	39°33'3.2994"N	80°54'36.8921"W	568.85	126.246	2.23	-0.03	-5.76	
4321.00	21.570	126.510	4221.22	-496.86	-357.81	487.52	1665745.14	14362515.40	39°33'3.0869"N	80°54'36.5253"W	604.73	126.276	1.33	-1.32	-0.49	
4415.00	20.610	127.010	4308.92	-524.81	-378.05	514.62	1665772.23	14362495.16	39°33'2.8866"N	80°54'36.1796"W	638.56	126.301	1.04	-1.02	0.53	
4510.00	19.930	126.520	4398.04	-552.01	-397.75	540.99	1665798.58	14362475.47	39°33'2.6916"N	80°54'35.8433"W	671.47	126.324	0.74	-0.72	-0.52	
4605.00	19.140	126.290	4487.57	-578.15	-416.60	566.55	1665824.13	14362456.63	39°33'2.5050"N	80°54'35.5172"W	703.23	126.328	0.84	-0.83	-0.24	
4700.00	19.220	129.150	4577.30	-604.22	-435.69	591.23	1665848.80	14362437.54	39°33'2.3161"N	80°54'35.2023"W	734.43	126.387	0.99	0.08	3.01	
4795.00	17.780	133.860	4667.39	-630.41	-455.62	613.82	1665871.38	14362417.63	39°33'2.1189"N	80°54'34.9142"W	764.44	126.585	2.18	-1.52	4.96	
4889.00	18.450	130.700	4756.73	-656.02	-475.26	635.45	1665893.00	14362397.99	39°33'1.9246"N	80°54'34.6384"W	793.51	126.794	1.26	0.71	-3.36	
4984.00	19.330	129.240	4846.62	-682.36	-495.01	659.02	1665916.57	14362378.25	39°33'1.7291"N	80°54'34.3377"W	824.22	126.911	1.05	0.93	-1.54	
5078.00	21.120	130.200	4934.82	-710.12	-515.79	684.01	1665941.54	14362357.48	39°33'1.5236"N	80°54'34.0190"W	856.68	127.019	1.94	1.90	1.02	
5173.00	22.280	130.330	5023.08	-740.31	-538.49	710.81	1665968.33	14362334.79	39°33'1.2989"N	80°54'33.6771"W	891.75	127.147	1.22	1.22	0.14	
5268.00	21.970	128.090	5111.09	-770.71	-561.11	738.52	1665996.04	14362312.18	39°33'1.0751"N	80°54'33.3236"W	927.50	127.226	0.95	-0.33	-2.36	
5362.00	20.950	129.050	5198.57	-799.72	-582.54	765.41	1666022.92	14362290.75	39°33'0.8630"N	80°54'32.9806"W	961.88	127.274	1.15	-1.09	1.02	
5457.00	20.240	128.700	5287.50	-828.01	-603.52	791.43	1666048.92	14362269.79	39°33'0.6554"N	80°54'32.6488"W	995.29	127.328	0.76	-0.75	-0.37	



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'  
Page 4 of 13



## REFERENCE WELLPATH IDENTIFICATION

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Facility	Dry Run Pad			Wellbore	Ripple Unit 1H AWB
Slot	Slot C				

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5552.00	16.050	122.660	5377.76	-852.21	-620.89	815.32	1666072.81	14362252.42	39°33'0.4835"N	80°54'32.3440"W	1024.82	127.290	4.83	-4.41	-6.36	
5646.00	9.400	102.190	5469.45	-866.39	-629.53	833.80	1666091.27	14362243.78	39°33'0.3979"N	80°54'32.1083"W	1044.76	127.054	8.44	-7.07	-21.78	
5741.00	8.230	80.430	5563.35	-871.51	-630.04	848.09	1666105.56	14362243.27	39°33'0.3927"N	80°54'31.9258"W	1056.51	126.609	3.69	-1.23	-22.91	
5835.00	11.640	48.670	5655.99	-869.00	-622.65	861.86	1666119.32	14362250.66	39°33'0.4656"N	80°54'31.7500"W	1063.25	125.846	6.73	3.63	-33.79	
5932.00	16.280	23.130	5750.19	-855.17	-603.66	874.56	1666132.02	14362269.64	39°33'0.6532"N	80°54'31.5875"W	1062.67	124.615	7.84	4.78	-26.33	
6027.00	16.060	354.460	5841.58	-832.48	-578.30	878.53	1666135.99	14362295.00	39°33'0.9038"N	80°54'31.5365"W	1051.78	123.355	8.33	-0.23	-30.18	
6122.00	22.000	341.230	5931.39	-801.86	-548.33	871.53	1666128.99	14362324.95	39°33'1.2001"N	80°54'31.6255"W	1029.67	122.176	7.69	6.25	-13.93	
6207.00†	28.912	341.685	6008.09	-765.35	-513.71	859.94	1666117.40	14362359.56	39°33'1.5424"N	80°54'31.7731"W	1001.69	120.853	8.14	8.13	0.54	Sycamore: 6207' MD
6213.00	29.400	341.710	6013.33	-762.42	-510.93	859.02	1666116.48	14362362.33	39°33'1.5698"N	80°54'31.7848"W	999.48	120.744	8.14	8.13	0.41	BH AT Curve <8-1/2"> (6122')(6213'-2449')
6282.00	34.430	348.610	6071.90	-726.12	-475.69	849.84	1666107.31	14362397.56	39°33'1.9182"N	80°54'31.9014"W	973.92	119.238	8.99	7.29	10.00	
6332.00†	40.882	350.952	6111.46	-695.96	-445.64	844.47	1666101.94	14362427.59	39°33'2.2152"N	80°54'31.9696"W	954.85	117.822	13.22	12.90	4.68	Middlesex: 6332' MD
6377.00	46.720	352.590	6143.93	-665.37	-414.83	840.04	1666097.51	14362458.40	39°33'2.5198"N	80°54'32.0258"W	936.88	116.281	13.22	12.97	3.64	
6470.00†	58.555	352.600	6200.27	-593.09	-341.66	830.53	1666088.01	14362531.54	39°33'3.2431"N	80°54'32.1463"W	898.06	112.361	12.73	12.73	0.01	Burkett: 6470' MD
6472.00	58.810	352.600	6201.30	-591.41	-339.96	830.31	1666087.79	14362533.23	39°33'3.2598"N	80°54'32.1490"W	897.21	112.266	12.73	12.73	0.00	
6544.00†	67.821	350.472	6233.61	-528.22	-276.41	820.80	1666078.28	14362596.76	39°33'3.8880"N	80°54'32.2696"W	866.10	108.611	12.79	12.52	-2.96	Marcellus POE: 6544' MD
6566.00	70.580	349.880	6241.42	-507.92	-256.15	817.29	1666074.78	14362617.01	39°33'4.0883"N	80°54'32.3141"W	856.49	107.402	12.79	12.54	-2.69	
6661.00	79.090	346.940	6266.25	-417.07	-166.43	798.85	1666056.34	14362706.70	39°33'4.9752"N	80°54'32.5485"W	816.00	101.769	9.44	8.96	-3.09	
6756.00	87.200	344.890	6277.58	-323.18	-75.03	775.90	1666033.40	14362798.06	39°33'5.8788"N	80°54'32.8402"W	779.52	95.523	8.80	8.54	-2.16	
6850.00	90.400	341.190	6279.55	-229.29	14.83	748.49	1666006.00	14362887.89	39°33'6.7672"N	80°54'33.1890"W	748.64	88.865	5.20	3.40	-3.94	
6945.00	90.520	340.500	6278.79	-134.29	104.57	717.32	1665974.84	14362977.59	39°33'7.6544"N	80°54'33.5858"W	724.90	81.706	0.74	0.13	-0.73	
7040.00	90.120	339.890	6278.26	-39.30	193.95	685.13	1665942.67	14363066.93	39°33'8.5381"N	80°54'33.9955"W	712.06	74.194	0.77	-0.42	-0.64	
7134.00	90.650	339.970	6277.63	54.68	282.24	652.88	1665910.42	14363155.19	39°33'9.4110"N	80°54'34.4062"W	711.27	66.621	0.57	0.56	0.09	
7229.00	90.650	340.200	6276.55	149.66	371.55	620.52	1665878.08	14363244.46	39°33'10.2940"N	80°54'34.8181"W	723.25	59.088	0.24	0.00	0.24	
7324.00	91.140	340.710	6275.07	244.64	461.07	588.74	1665846.31	14363333.94	39°33'11.1790"N	80°54'35.2227"W	747.80	51.934	0.74	0.52	0.54	
7418.00	90.340	337.850	6273.85	338.58	548.97	555.49	1665813.08	14363421.81	39°33'12.0481"N	80°54'35.6460"W	780.98	45.338	3.16	-0.85	-3.04	
7513.00	89.940	338.030	6273.62	433.44	637.01	519.81	1665777.41	14363509.82	39°33'12.9186"N	80°54'36.1004"W	822.19	39.215	0.46	-0.42	0.19	
7608.00	90.580	339.720	6273.19	528.37	725.63	485.57	1665743.19	14363598.39	39°33'13.7947"N	80°54'36.5364"W	873.11	33.790	1.90	0.67	1.78	
7702.00	90.710	339.820	6272.13	622.34	813.82	453.07	1665710.70	14363686.55	39°33'14.6667"N	80°54'36.9502"W	931.44	29.106	0.17	0.14	0.11	
7797.00	91.170	340.140	6270.57	717.31	903.07	420.55	1665678.19	14363775.77	39°33'15.5491"N	80°54'37.3642"W	996.19	24.971	0.59	0.48	0.34	
7892.00	91.480	340.980	6268.38	812.28	992.63	388.94	1665646.60	14363865.29	39°33'16.4346"N	80°54'37.7666"W	1066.11	21.397	0.94	0.33	0.88	



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'  
Page 5 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (265 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
7986.00	91.690	341.440	6265.78	906.25	1081.58	358.68	1665616.34	14363954.21	39°33'17.3140"N	80°54'38.1519"W	1139.51	18.347	0.54	0.22	0.49	
8081.00	90.120	341.320	6264.28	1001.23	1171.60	328.35	1665586.03	14364044.19	39°33'18.2039"N	80°54'38.5379"W	1216.74	15.656	1.66	-1.65	-0.13	
8176.00	90.550	341.370	6263.72	1096.23	1261.60	297.96	1665555.65	14364134.16	39°33'19.0938"N	80°54'38.9247"W	1296.31	13.288	0.46	0.45	0.05	
8270.00	90.740	341.970	6262.66	1190.21	1350.83	268.40	1665526.11	14364223.35	39°33'19.9759"N	80°54'39.3010"W	1377.24	11.238	0.67	0.20	0.64	
8365.00	90.370	340.840	6261.74	1285.20	1440.86	238.11	1665495.83	14364313.35	39°33'20.8661"N	80°54'39.6866"W	1460.41	9.384	1.25	-0.39	-1.19	
8460.00	90.740	341.240	6260.82	1380.20	1530.70	207.25	1665464.97	14364403.15	39°33'21.7543"N	80°54'40.0795"W	1544.67	7.711	0.57	0.39	0.42	
8555.00	90.650	342.160	6259.67	1475.19	1620.89	177.42	1665435.16	14364493.30	39°33'22.6459"N	80°54'40.4592"W	1630.57	6.247	0.97	-0.09	0.97	
8650.00	90.400	342.070	6258.80	1570.16	1711.30	148.25	1665406.00	14364583.67	39°33'23.5397"N	80°54'40.8305"W	1717.71	4.951	0.28	-0.26	-0.09	
8744.00	90.580	341.510	6257.99	1664.15	1800.59	118.87	1665376.63	14364672.92	39°33'24.4225"N	80°54'41.2044"W	1804.51	3.777	0.63	0.19	-0.60	
8839.00	90.310	340.680	6257.26	1759.15	1890.46	88.09	1665345.87	14364762.76	39°33'25.3110"N	80°54'41.5962"W	1892.51	2.668	0.92	-0.28	-0.87	
8934.00	90.740	341.910	6256.39	1854.14	1980.43	57.63	1665315.42	14364852.70	39°33'26.2005"N	80°54'41.9840"W	1981.27	1.667	1.37	0.45	1.29	
9029.00	90.490	341.790	6255.37	1949.13	2070.70	28.04	1665285.84	14364942.93	39°33'27.0930"N	80°54'42.3607"W	2070.89	0.776	0.29	-0.26	-0.13	
9124.00	90.430	341.150	6254.60	2044.12	2160.77	-2.15	1665255.66	14365032.97	39°33'27.9835"N	80°54'42.7450"W	2160.78	359.943	0.68	-0.06	-0.67	
9218.00	90.550	341.030	6253.80	2138.12	2249.70	-32.61	1665225.21	14365121.85	39°33'28.8626"N	80°54'43.1328"W	2249.93	359.169	0.18	0.13	-0.13	
9313.00	90.400	340.940	6253.01	2233.11	2339.51	-63.57	1665194.27	14365211.63	39°33'29.7506"N	80°54'43.5269"W	2340.37	358.444	0.18	-0.16	-0.09	
9407.00	90.400	341.630	6252.36	2327.11	2428.54	-93.73	1665164.12	14365300.62	39°33'30.6307"N	80°54'43.9108"W	2430.35	357.790	0.73	0.00	0.73	
9502.00	90.650	342.180	6251.49	2422.09	2518.84	-123.23	1665134.63	14365390.88	39°33'31.5234"N	80°54'44.2864"W	2521.85	357.199	0.64	0.26	0.58	
9597.00	90.340	340.600	6250.66	2517.09	2608.86	-153.55	1665104.33	14365480.87	39°33'32.4135"N	80°54'44.6723"W	2613.38	356.632	1.69	-0.33	-1.66	
9692.00	90.550	340.590	6249.93	2612.08	2698.46	-185.11	1665072.78	14365570.44	39°33'33.2993"N	80°54'45.0742"W	2704.80	356.076	0.22	0.22	-0.01	
9786.00	90.650	341.360	6248.94	2706.07	2787.32	-215.75	1665042.15	14365659.26	39°33'34.1779"N	80°54'45.4643"W	2795.66	355.574	0.83	0.11	0.82	
9881.00	90.220	340.700	6248.22	2801.07	2877.16	-246.63	1665011.28	14365749.06	39°33'35.0660"N	80°54'45.8575"W	2887.71	355.101	0.83	-0.45	-0.69	
9976.00	91.020	341.920	6247.19	2896.06	2967.14	-277.07	1664980.85	14365839.01	39°33'35.9556"N	80°54'46.2450"W	2980.05	354.665	1.54	0.84	1.28	
10071.00	90.710	341.470	6245.76	2991.04	3057.32	-306.90	1664951.03	14365929.16	39°33'36.8472"N	80°54'46.6248"W	3072.69	354.268	0.58	-0.33	-0.47	
10165.00	90.740	341.840	6244.57	3085.03	3146.54	-336.49	1664921.46	14366018.34	39°33'37.7292"N	80°54'47.0014"W	3164.48	353.896	0.39	0.03	0.39	
10260.00	90.150	341.250	6243.83	3180.02	3236.65	-366.56	1664891.40	14366108.41	39°33'38.6201"N	80°54'47.3842"W	3257.34	353.539	0.88	-0.62	-0.62	
10355.00	90.680	341.890	6243.14	3275.01	3326.77	-396.59	1664861.38	14366198.50	39°33'39.5111"N	80°54'47.7666"W	3350.33	353.202	0.87	0.56	0.67	
10449.00	90.120	341.560	6242.49	3369.01	3416.03	-426.07	1664831.92	14366287.72	39°33'40.3936"N	80°54'48.1418"W	3442.50	352.890	0.69	-0.60	-0.35	
10544.00	90.400	341.380	6242.06	3464.00	3506.10	-456.26	1664801.74	14366377.76	39°33'41.2841"N	80°54'48.5262"W	3535.67	352.586	0.35	0.29	-0.19	
10639.00	90.490	341.760	6241.32	3558.99	3596.23	-486.29	1664771.72	14366467.85	39°33'42.1751"N	80°54'48.9086"W	3628.96	352.299	0.41	0.09	0.40	
10734.00	90.650	341.710	6240.37	3653.98	3686.44	-516.06	1664741.95	14366558.02	39°33'43.0669"N	80°54'49.2876"W	3722.38	352.031	0.18	0.17	-0.05	



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'  
Page 6 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION			Well	Ripple Unit 1H
Field	Tyler			API	47-095-02864-0000
Facility	Dry Run Pad			Wellbore	Ripple Unit 1H AWB
Slot	Slot C				

## WELLPATH DATA (265 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
10828.00	90.460	341.050	6239.46	3747.98	3775.51	-546.07	1664711.96	14366647.06	39°33'43.9475"N	80°54'49.6697"W	3814.80	351.770	0.73	-0.20	-0.70	
10923.00	90.460	341.190	6238.70	3842.97	3865.40	-576.81	1664681.23	14366736.91	39°33'44.8362"N	80°54'50.0611"W	3908.20	351.513	0.15	0.00	0.15	
11017.00	90.950	341.740	6237.54	3936.96	3954.52	-606.69	1664651.36	14366825.99	39°33'45.7172"N	80°54'50.4415"W	4000.78	351.278	0.78	0.52	0.59	
11112.00	90.740	341.540	6236.14	4031.95	4044.67	-636.61	1664621.45	14366916.11	39°33'46.6085"N	80°54'50.8224"W	4094.46	351.055	0.31	-0.22	-0.21	
11207.00	90.180	341.180	6235.38	4126.94	4134.68	-666.98	1664591.10	14367006.08	39°33'47.4985"N	80°54'51.2090"W	4188.13	350.836	0.70	-0.59	-0.38	
11302.00	90.800	341.800	6234.57	4221.93	4224.77	-697.13	1664560.96	14367096.13	39°33'48.3890"N	80°54'51.5930"W	4281.90	350.630	0.92	0.65	0.65	
11397.00	92.310	339.210	6231.99	4316.88	4314.28	-728.82	1664529.28	14367185.60	39°33'49.2740"N	80°54'51.9965"W	4375.40	350.411	3.15	1.59	-2.73	
11491.00	90.620	341.890	6229.59	4410.84	4402.87	-760.11	1664498.01	14367274.16	39°33'50.1499"N	80°54'52.3949"W	4468.00	350.205	3.37	-1.80	2.85	
11586.00	90.680	341.860	6228.51	4505.82	4493.15	-789.66	1664468.47	14367364.41	39°33'51.0424"N	80°54'52.7711"W	4562.01	350.032	0.07	0.06	-0.03	
11681.00	90.890	342.370	6227.21	4600.79	4583.55	-818.83	1664439.31	14367454.77	39°33'51.9362"N	80°54'53.1425"W	4656.12	349.871	0.58	0.22	0.54	
11775.00	90.250	341.320	6226.27	4694.78	4672.87	-848.12	1664410.03	14367544.05	39°33'52.8192"N	80°54'53.5154"W	4749.21	349.713	1.31	-0.68	-1.12	
11870.00	90.370	341.660	6225.76	4789.77	4762.95	-878.28	1664379.88	14367634.10	39°33'53.7098"N	80°54'53.8994"W	4843.25	349.552	0.38	0.13	0.36	
11965.00	90.520	341.990	6225.02	4884.76	4853.21	-907.91	1664350.26	14367724.32	39°33'54.6021"N	80°54'54.2767"W	4937.40	349.404	0.38	0.16	0.35	
12059.00	90.280	341.270	6224.36	4978.75	4942.42	-937.53	1664320.65	14367813.49	39°33'55.4840"N	80°54'54.6538"W	5030.55	349.259	0.81	-0.26	-0.77	
12154.00	90.580	341.610	6223.65	5073.75	5032.47	-967.77	1664290.43	14367903.51	39°33'56.3743"N	80°54'55.0389"W	5124.68	349.115	0.48	0.32	0.36	
12249.00	90.620	342.410	6222.66	5168.73	5122.82	-997.11	1664261.10	14367993.83	39°33'57.2676"N	80°54'55.4124"W	5218.96	348.986	0.84	0.04	0.84	
12344.00	90.770	342.330	6221.50	5263.70	5213.35	-1025.88	1664232.34	14368084.32	39°33'58.1626"N	80°54'55.7787"W	5313.33	348.868	0.18	0.16	-0.08	
12438.00	90.310	341.440	6220.62	5357.68	5302.69	-1055.10	1664203.13	14368173.62	39°33'59.0458"N	80°54'56.1508"W	5406.64	348.747	1.07	-0.49	-0.95	
12533.00	90.520	341.880	6219.93	5452.67	5392.86	-1085.00	1664173.25	14368263.76	39°33'59.9372"N	80°54'56.5314"W	5500.92	348.624	0.51	0.22	0.46	
12627.00	89.970	341.020	6219.53	5546.67	5481.97	-1114.90	1664143.36	14368352.83	39°34'0.8182"N	80°54'56.9121"W	5594.20	348.504	1.09	-0.59	-0.91	
12722.00	90.340	341.760	6219.27	5641.66	5572.01	-1145.22	1664113.05	14368442.83	39°34'1.7083"N	80°54'57.2982"W	5688.48	348.386	0.87	0.39	0.78	
12817.00	90.490	342.090	6218.58	5736.65	5662.32	-1174.69	1664083.59	14368533.10	39°34'2.6012"N	80°54'57.6735"W	5782.88	348.280	0.38	0.16	0.35	
12911.00	90.430	341.240	6217.83	5830.64	5751.54	-1204.26	1664054.03	14368622.29	39°34'3.4832"N	80°54'58.0500"W	5876.26	348.174	0.91	-0.06	-0.90	
13006.00	90.000	341.630	6217.47	5925.64	5841.60	-1234.50	1664023.80	14368712.31	39°34'4.3736"N	80°54'58.4351"W	5970.61	348.067	0.61	-0.45	0.41	
13101.00	90.150	339.910	6217.35	6020.63	5931.29	-1265.79	1663992.52	14368801.97	39°34'5.2603"N	80°54'58.8336"W	6064.85	347.953	1.82	0.16	-1.81	
13196.00	90.520	342.260	6216.79	6115.62	6021.15	-1296.59	1663961.74	14368891.80	39°34'6.1488"N	80°54'59.2257"W	6159.17	347.848	2.50	0.39	2.47	
13385.00	90.490	341.830	6215.13	6304.59	6200.94	-1354.85	1663903.51	14369071.51	39°34'7.9262"N	80°54'59.9675"W	6347.23	347.675	0.23	-0.02	-0.23	
13480.00	90.370	340.660	6214.41	6399.58	6290.89	-1385.39	1663872.98	14369161.43	39°34'8.8155"N	80°55'0.3565"W	6441.63	347.580	1.24	-0.13	-1.23	
13574.00	89.970	340.530	6214.13	6493.58	6379.55	-1416.62	1663841.76	14369250.05	39°34'9.6920"N	80°55'0.7542"W	6534.94	347.480	0.45	-0.43	-0.14	
13669.00	89.940	340.310	6214.21	6588.57	6469.06	-1448.46	1663809.93	14369339.52	39°34'10.5769"N	80°55'1.1597"W	6629.23	347.379	0.23	-0.03	-0.23	



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 7 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (265 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
13764.00	90.150	340.310	6214.13	6683.56	6558.50	-1480.47	1663777.94	14369428.93	39°34'11.4612"N	80°55'1.5674"W	6723.52	347.280	0.22	0.22	0.00	
13858.00	90.280	340.650	6213.78	6777.56	6647.10	-1511.87	1663746.54	14369517.49	39°34'12.3371"N	80°55'1.9674"W	6816.87	347.186	0.39	0.14	0.36	
13953.00	90.370	340.750	6213.24	6872.56	6736.76	-1543.27	1663715.16	14369607.12	39°34'13.2235"N	80°55'2.3673"W	6911.27	347.097	0.14	0.09	0.11	
14048.00	89.850	341.270	6213.06	6967.56	6826.59	-1574.19	1663684.26	14369696.91	39°34'14.1116"N	80°55'2.7610"W	7005.74	347.015	0.77	-0.55	0.55	
14143.00	89.910	340.770	6213.26	7062.55	6916.42	-1605.08	1663653.37	14369786.71	39°34'14.9997"N	80°55'3.1545"W	7100.23	346.935	0.53	0.06	-0.53	
14238.00	89.850	340.360	6213.46	7157.55	7006.01	-1636.69	1663621.77	14369876.26	39°34'15.8854"N	80°55'3.5571"W	7194.65	346.851	0.44	-0.06	-0.43	
14332.00	90.180	341.540	6213.43	7251.55	7094.86	-1667.37	1663591.11	14369965.07	39°34'16.7638"N	80°55'3.9478"W	7288.15	346.775	1.30	0.35	1.26	
14427.00	90.090	341.290	6213.21	7346.55	7184.91	-1697.65	1663560.84	14370055.08	39°34'17.6540"N	80°55'4.3334"W	7382.74	346.706	0.28	-0.09	-0.26	
14522.00	90.000	341.020	6213.13	7441.55	7274.81	-1728.34	1663530.17	14370144.95	39°34'18.5429"N	80°55'4.7242"W	7477.30	346.636	0.30	-0.09	-0.28	
14617.00	90.060	340.910	6213.08	7536.55	7364.62	-1759.32	1663499.20	14370234.72	39°34'19.4307"N	80°55'5.1189"W	7571.84	346.565	0.13	0.06	-0.12	
14711.00	90.280	341.300	6212.81	7630.55	7453.55	-1789.76	1663468.77	14370323.62	39°34'20.3100"N	80°55'5.5065"W	7665.42	346.498	0.48	0.23	0.41	
14806.00	90.000	341.340	6212.57	7725.54	7543.55	-1820.19	1663438.35	14370413.58	39°34'21.1997"N	80°55'5.8940"W	7760.04	346.434	0.30	-0.29	0.04	
14901.00	90.220	340.690	6212.39	7820.54	7633.38	-1851.09	1663407.46	14370503.38	39°34'22.0878"N	80°55'6.2877"W	7854.62	346.369	0.72	0.23	-0.68	
14995.00	89.720	340.290	6212.44	7914.54	7721.98	-1882.49	1663376.08	14370591.94	39°34'22.9638"N	80°55'6.6875"W	7948.13	346.300	0.68	-0.53	-0.43	
15090.00	90.150	340.620	6212.55	8009.53	7811.51	-1914.27	1663344.31	14370681.43	39°34'23.8488"N	80°55'7.0924"W	8042.64	346.231	0.57	0.45	0.35	
15184.00	90.490	341.220	6212.02	8103.53	7900.34	-1944.99	1663313.60	14370770.23	39°34'24.7271"N	80°55'7.4837"W	8136.24	346.169	0.73	0.36	0.64	
15279.00	90.220	340.890	6211.43	8198.53	7990.19	-1975.84	1663282.77	14370860.05	39°34'25.6154"N	80°55'7.8765"W	8230.86	346.110	0.45	-0.28	-0.35	
15373.00	90.030	340.880	6211.23	8292.53	8079.01	-2006.62	1663252.00	14370948.83	39°34'26.4935"N	80°55'8.2686"W	8324.48	346.051	0.20	-0.20	-0.01	
15468.00	90.090	341.140	6211.13	8387.53	8168.84	-2037.53	1663221.10	14371038.62	39°34'27.3815"N	80°55'8.6624"W	8419.11	345.995	0.28	0.06	0.27	
15563.00	89.690	340.250	6211.31	8482.53	8258.50	-2068.94	1663189.70	14371128.24	39°34'28.2679"N	80°55'9.0624"W	8513.71	345.936	1.03	-0.42	-0.94	
15658.00	90.250	340.640	6211.36	8577.52	8348.02	-2100.73	1663157.92	14371217.73	39°34'29.1530"N	80°55'9.4674"W	8608.28	345.875	0.72	0.59	0.41	
15752.00	89.660	340.540	6211.44	8671.52	8436.67	-2131.97	1663126.69	14371306.35	39°34'29.9999"N	80°55'9.8653"W	8701.88	345.818	0.64	-0.63	-0.11	
15847.00	90.620	340.940	6211.20	8766.51	8526.36	-2163.31	1663095.37	14371395.99	39°34'30.8916"N	80°55'10.2645"W	8796.51	345.763	1.09	1.01	0.42	
15942.00	90.280	340.260	6210.46	8861.51	8615.96	-2194.86	1663063.83	14371485.56	39°34'31.8019"N	80°55'10.6664"W	8891.13	345.708	0.80	-0.36	-0.72	
16036.00	90.920	341.750	6209.47	8955.50	8704.83	-2225.46	1663033.25	14371574.40	39°34'32.6805"N	80°55'11.0561"W	8984.81	345.659	1.73	0.68	1.59	
16226.00	90.370	340.680	6207.33	9145.48	8884.70	-2286.63	1662972.09	14371754.19	39°34'34.4587"N	80°55'11.8354"W	9174.23	345.567	0.63	-0.29	-0.56	
16321.00	89.880	339.810	6207.13	9240.47	8974.10	-2318.74	1662940.00	14371843.56	39°34'35.3426"N	80°55'12.2444"W	9268.83	345.513	1.05	-0.52	-0.92	
16415.00	90.490	340.800	6206.82	9334.46	9062.60	-2350.42	1662908.33	14371932.03	39°34'36.2176"N	80°55'12.6480"W	9362.44	345.460	1.24	0.65	1.05	
16510.00	90.220	340.740	6206.23	9429.46	9152.30	-2381.71	1662877.05	14372021.69	39°34'37.1043"N	80°55'13.0465"W	9457.12	345.413	0.29	-0.28	-0.06	
16604.00	90.370	340.420	6205.75	9523.46	9240.95	-2412.96	1662845.81	14372110.30	39°34'37.9808"N	80°55'13.4447"W	9550.79	345.366	0.38	0.16	-0.34	





# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 8 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (265 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
16699.00	90.030	340.330	6205.42	9618.45	9330.43	-2444.87	1662813.92	14372199.75	39°34'38.8654"N	80°55'13.8511"W	9645.43	345.317	0.37	-0.36	-0.09	
16794.00	90.980	341.670	6204.58	9713.44	9420.25	-2475.80	1662783.01	14372289.53	39°34'39.7534"N	80°55'14.2451"W	9740.16	345.275	1.73	1.00	1.41	
16888.00	90.250	340.500	6203.57	9807.43	9509.17	-2506.27	1662752.55	14372378.41	39°34'40.6324"N	80°55'14.6332"W	9833.90	345.235	1.47	-0.78	-1.24	
16983.00	90.620	341.060	6202.85	9902.43	9598.87	-2537.54	1662721.29	14372468.08	39°34'41.5192"N	80°55'15.0316"W	9928.61	345.192	0.71	0.39	0.59	
17077.00	90.150	339.680	6202.22	9996.42	9687.40	-2569.12	1662689.72	14372556.57	39°34'42.3945"N	80°55'15.4338"W	10022.28	345.147	1.55	-0.50	-1.47	
17172.00	90.180	340.650	6201.95	10091.41	9776.76	-2601.35	1662657.50	14372645.90	39°34'43.2780"N	80°55'15.8445"W	10116.92	345.100	1.02	0.03	1.02	
17266.00	90.180	340.170	6201.65	10185.40	9865.32	-2632.87	1662626.00	14372734.42	39°34'44.1535"N	80°55'16.2460"W	10210.61	345.057	0.51	0.00	-0.51	
17361.00	90.280	340.720	6201.27	10280.39	9954.84	-2664.67	1662594.21	14372823.91	39°34'45.0385"N	80°55'16.6511"W	10305.30	345.015	0.59	0.11	0.58	
17456.00	90.150	340.640	6200.91	10375.39	10044.49	-2696.10	1662562.80	14372913.52	39°34'45.9248"N	80°55'17.0515"W	10400.03	344.975	0.16	-0.14	-0.08	
17551.00	90.150	340.540	6200.66	10470.39	10134.09	-2727.67	1662531.24	14373003.08	39°34'46.8106"N	80°55'17.4537"W	10494.76	344.935	0.11	0.00	-0.11	
17645.00	90.250	340.320	6200.34	10564.38	10222.66	-2759.15	1662499.77	14373091.62	39°34'47.6862"N	80°55'17.8548"W	10588.47	344.895	0.26	0.11	-0.23	
17740.00	90.150	340.360	6200.00	10659.38	10312.12	-2791.11	1662467.82	14373181.04	39°34'48.5707"N	80°55'18.2620"W	10683.17	344.855	0.11	-0.11	0.04	
17835.00	90.280	340.490	6199.65	10754.37	10401.63	-2822.94	1662436.00	14373270.52	39°34'49.4556"N	80°55'18.6675"W	10777.89	344.816	0.19	0.14	0.14	
17930.00	90.280	340.560	6199.18	10849.36	10491.19	-2854.61	1662404.34	14373360.04	39°34'50.3410"N	80°55'19.0711"W	10872.63	344.779	0.07	0.00	0.07	
18024.00	90.920	340.960	6198.20	10943.36	10579.94	-2885.59	1662373.38	14373448.75	39°34'51.2184"N	80°55'19.4656"W	10966.39	344.744	0.80	0.68	0.43	
18119.00	89.780	340.630	6197.62	11038.35	10669.65	-2916.84	1662342.14	14373538.43	39°34'52.1053"N	80°55'19.8638"W	11061.16	344.710	1.25	-1.20	-0.35	
18214.00	90.060	340.910	6197.75	11133.35	10759.35	-2948.13	1662310.87	14373628.09	39°34'52.9920"N	80°55'20.2624"W	11155.94	344.677	0.42	0.29	0.29	
18308.00	90.090	340.890	6197.63	11227.35	10848.17	-2978.88	1662280.12	14373716.88	39°34'53.8702"N	80°55'20.6542"W	11249.74	344.645	0.04	0.03	-0.02	
18403.00	90.180	340.940	6197.41	11322.35	10937.95	-3009.95	1662249.07	14373806.62	39°34'54.7577"N	80°55'21.0500"W	11344.54	344.614	0.11	0.09	0.05	
18498.00	89.970	340.370	6197.28	11417.35	11027.59	-3041.42	1662217.61	14373896.22	39°34'55.6439"N	80°55'21.4509"W	11439.31	344.581	0.64	-0.22	-0.60	
18592.00	89.940	340.460	6197.35	11511.34	11116.15	-3072.93	1662186.12	14373984.75	39°34'56.5194"N	80°55'21.8524"W	11533.07	344.547	0.10	-0.03	0.10	
18687.00	90.000	340.920	6197.40	11606.34	11205.80	-3104.34	1662154.72	14374074.37	39°34'57.4058"N	80°55'22.2526"W	11627.85	344.516	0.49	0.06	0.48	
18781.00	89.940	340.890	6197.45	11700.34	11294.63	-3135.09	1662123.98	14374163.16	39°34'58.2840"N	80°55'22.6444"W	11721.67	344.487	0.07	-0.06	-0.03	
18876.00	90.030	340.510	6197.48	11795.34	11384.29	-3166.49	1662092.59	14374252.78	39°34'59.1704"N	80°55'23.0444"W	11816.46	344.456	0.41	0.09	-0.40	
18971.00	89.880	340.600	6197.55	11890.34	11473.87	-3198.11	1662060.98	14374342.33	39°35'0.0560"N	80°55'23.4473"W	11911.24	344.425	0.18	-0.16	0.09	
19065.00	90.000	340.980	6197.65	11984.33	11562.64	-3229.04	1662030.06	14374431.06	39°35'0.9335"N	80°55'23.8414"W	12005.06	344.397	0.42	0.13	0.40	
19160.00	89.970	340.880	6197.68	12079.33	11652.43	-3260.08	1661999.04	14374520.81	39°35'1.8212"N	80°55'24.2369"W	12099.88	344.370	0.11	-0.03	-0.11	
19255.00	89.970	340.710	6197.73	12174.33	11742.14	-3291.33	1661967.80	14374610.49	39°35'2.7081"N	80°55'24.6350"W	12194.70	344.342	0.18	0.00	-0.18	
19349.00	89.940	340.770	6197.80	12268.33	11830.88	-3322.34	1661936.80	14374699.19	39°35'3.5854"N	80°55'25.0301"W	12288.51	344.314	0.07	-0.03	0.06	
19444.00	89.910	340.210	6197.92	12363.33	11920.42	-3354.07	1661905.09	14374788.70	39°35'4.4706"N	80°55'25.4343"W	12383.30	344.285	0.59	-0.03	-0.59	



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 9 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (265 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
19539.00	89.940	340.990	6198.05	12458.32	12010.03	-3385.62	1661873.55	14374878.27	39°35'5.3565"N	80°55'25.8364"W	12478.11	344.257	0.82	0.03	0.82	
19633.00	90.000	340.650	6198.10	12552.32	12098.81	-3416.50	1661842.68	14374967.01	39°35'6.2342"N	80°55'26.2299"W	12571.94	344.231	0.37	0.06	-0.36	
19728.00	89.910	340.400	6198.17	12647.32	12188.37	-3448.18	1661811.02	14375056.54	39°35'7.1196"N	80°55'26.6334"W	12666.74	344.203	0.28	-0.09	-0.26	
19823.00	90.000	340.610	6198.25	12742.32	12277.93	-3479.88	1661779.33	14375146.06	39°35'8.0050"N	80°55'27.0374"W	12761.55	344.176	0.24	0.09	0.22	
19918.00	90.000	340.840	6198.25	12837.31	12367.60	-3511.24	1661747.98	14375235.70	39°35'8.8915"N	80°55'27.4370"W	12856.38	344.150	0.24	0.00	0.24	
20012.00	90.000	341.320	6198.25	12931.31	12456.52	-3541.72	1661717.51	14375324.59	39°35'9.7706"N	80°55'27.8253"W	12950.24	344.128	0.51	0.00	0.51	
20107.00	89.850	340.450	6198.37	13026.31	12546.29	-3572.83	1661686.42	14375414.31	39°35'10.6580"N	80°55'28.2217"W	13045.09	344.105	0.93	-0.16	-0.92	
20201.00	89.510	340.810	6198.90	13120.31	12634.96	-3604.00	1661655.25	14375502.95	39°35'11.5347"N	80°55'28.6189"W	13138.92	344.080	0.53	-0.36	0.38	
20296.00	89.540	340.660	6199.68	13215.30	12724.64	-3635.35	1661623.92	14375592.59	39°35'12.4212"N	80°55'29.0183"W	13233.75	344.056	0.16	0.03	-0.16	
20391.00	89.630	340.850	6200.37	13310.30	12814.33	-3666.66	1661592.62	14375682.25	39°35'13.3079"N	80°55'29.4173"W	13328.59	344.032	0.22	0.09	0.20	
20485.00	89.230	340.980	6201.31	13404.30	12903.16	-3697.39	1661561.90	14375771.04	39°35'14.1861"N	80°55'29.8089"W	13422.45	344.010	0.45	-0.43	0.14	
20580.00	89.380	340.670	6202.46	13499.29	12992.88	-3728.59	1661530.71	14375860.73	39°35'15.0731"N	80°55'30.2065"W	13517.30	343.988	0.36	0.16	-0.33	
20675.00	89.320	340.760	6203.54	13594.28	13082.54	-3759.97	1661499.35	14375950.35	39°35'15.9595"N	80°55'30.6062"W	13612.14	343.965	0.11	-0.06	0.09	
20770.00	89.170	340.730	6204.79	13689.27	13172.22	-3791.29	1661468.04	14376040.00	39°35'16.8461"N	80°55'31.0054"W	13706.98	343.943	0.16	-0.16	-0.03	
20864.00	89.260	340.910	6206.08	13783.26	13261.00	-3822.17	1661437.17	14376128.73	39°35'17.7237"N	80°55'31.3989"W	13800.83	343.922	0.21	0.10	0.19	
20959.00	89.260	340.580	6207.30	13878.25	13350.67	-3853.50	1661405.86	14376218.38	39°35'18.6102"N	80°55'31.7980"W	13895.68	343.900	0.35	0.00	-0.35	
21054.00	89.200	340.720	6208.58	13973.24	13440.30	-3884.97	1661374.40	14376307.97	39°35'19.4963"N	80°55'32.1991"W	13990.52	343.878	0.16	-0.06	0.15	
21149.00	89.660	340.870	6209.53	14068.24	13530.01	-3916.22	1661343.16	14376397.64	39°35'20.3831"N	80°55'32.5973"W	14085.38	343.857	0.51	0.48	0.16	
21244.00	89.570	340.430	6210.16	14163.23	13619.64	-3947.70	1661311.70	14376487.23	39°35'21.2692"N	80°55'32.9984"W	14180.23	343.836	0.47	-0.09	-0.46	
21338.00	89.450	340.600	6210.97	14257.22	13708.25	-3979.05	1661280.36	14376575.81	39°35'22.1453"N	80°55'33.3980"W	14274.07	343.814	0.22	-0.13	0.18	
21433.00	89.450	340.790	6211.88	14352.22	13797.91	-4010.46	1661248.96	14376665.43	39°35'23.0316"N	80°55'33.7982"W	14368.92	343.793	0.20	0.00	0.20	
21528.00	89.570	340.760	6212.69	14447.21	13887.60	-4041.74	1661217.70	14376755.09	39°35'23.9184"N	80°55'34.1968"W	14463.79	343.773	0.13	0.13	-0.03	
21623.00	89.420	340.760	6213.53	14542.21	13977.30	-4073.04	1661186.41	14376844.75	39°35'24.8051"N	80°55'34.5957"W	14558.65	343.754	0.16	-0.16	0.00	
21717.00	89.450	340.970	6214.46	14636.20	14066.10	-4103.85	1661155.61	14376933.51	39°35'25.6830"N	80°55'34.9883"W	14652.53	343.735	0.23	0.03	0.22	
21812.00	89.480	340.490	6215.34	14731.20	14155.77	-4135.20	1661124.27	14377023.15	39°35'26.5695"N	80°55'35.3878"W	14747.40	343.716	0.51	0.03	-0.51	
21907.00	89.540	340.950	6216.16	14826.19	14245.44	-4166.57	1661092.91	14377112.78	39°35'27.4559"N	80°55'35.7875"W	14842.26	343.697	0.49	0.06	0.48	
22001.00	89.480	340.600	6216.96	14920.19	14334.19	-4197.52	1661061.98	14377201.50	39°35'28.3334"N	80°55'36.1820"W	14936.14	343.678	0.38	-0.06	-0.37	
22096.00	89.450	340.850	6217.85	15015.18	14423.86	-4228.88	1661030.63	14377291.14	39°35'29.2199"N	80°55'36.5816"W	15031.01	343.660	0.27	-0.03	0.26	
22191.00	89.880	340.520	6218.40	15110.18	14513.52	-4260.30	1660999.22	14377380.75	39°35'30.1061"N	80°55'36.9820"W	15125.88	343.641	0.57	0.45	-0.35	
22286.00	89.820	340.740	6218.65	15205.18	14603.14	-4291.81	1660967.73	14377470.34	39°35'30.9922"N	80°55'37.3836"W	15220.75	343.622	0.24	-0.06	0.23	



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 10 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (265 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
22380.00	89.720	340.880	6219.03	15299.17	14691.91	-4322.70	1660936.84	14377559.08	39°35'31.8698"N	80°55'37.7773"W	15314.64	343.605	0.18	-0.11	0.15	
22475.00	89.630	340.630	6219.57	15394.17	14781.60	-4354.02	1660905.54	14377648.73	39°35'32.7565"N	80°55'38.1764"W	15409.52	343.587	0.28	-0.09	-0.26	
22570.00	89.450	340.530	6220.33	15489.17	14871.20	-4385.60	1660873.97	14377738.29	39°35'33.6422"N	80°55'38.5789"W	15504.39	343.569	0.22	-0.19	-0.11	
22664.00	89.480	340.590	6221.21	15583.16	14959.83	-4416.89	1660842.70	14377826.89	39°35'34.5184"N	80°55'38.9776"W	15598.25	343.551	0.07	0.03	0.06	
22759.00	89.420	340.530	6222.12	15678.15	15049.41	-4448.50	1660811.09	14377916.43	39°35'35.4040"N	80°55'39.3805"W	15693.12	343.533	0.09	-0.06	-0.06	
22854.00	89.510	340.570	6223.01	15773.14	15138.99	-4480.13	1660779.47	14378005.97	39°35'36.2896"N	80°55'39.7837"W	15787.99	343.515	0.10	0.09	0.04	
22949.00	89.450	340.830	6223.87	15868.14	15228.64	-4511.53	1660748.09	14378095.59	39°35'37.1759"N	80°55'40.1838"W	15882.87	343.498	0.28	-0.06	0.27	
23043.00	89.480	341.770	6224.75	15962.13	15317.68	-4541.67	1660717.96	14378184.59	39°35'38.0561"N	80°55'40.5679"W	15976.80	343.485	1.00	0.03	1.00	
23137.00	89.420	341.760	6225.65	16056.12	15406.95	-4571.08	1660688.56	14378273.83	39°35'38.9386"N	80°55'40.9427"W	16070.75	343.475	0.06	-0.06	-0.01	
23232.00	89.450	341.790	6226.59	16151.11	15497.18	-4600.79	1660658.87	14378364.02	39°35'39.8306"N	80°55'41.3213"W	16165.70	343.465	0.04	0.03	0.03	
23326.00	89.540	341.670	6227.41	16245.10	15586.44	-4630.26	1660629.41	14378453.25	39°35'40.7130"N	80°55'41.6968"W	16259.66	343.455	0.16	0.10	-0.13	
23421.00	89.450	341.690	6228.25	16340.09	15676.62	-4660.12	1660599.56	14378543.39	39°35'41.6045"N	80°55'42.0773"W	16354.61	343.445	0.10	-0.09	0.02	
23515.00	89.540	341.470	6229.08	16434.08	15765.80	-4689.82	1660569.87	14378632.54	39°35'42.4862"N	80°55'42.4558"W	16448.55	343.434	0.25	0.10	-0.23	
23609.00	89.260	341.520	6230.06	16528.07	15854.94	-4719.65	1660540.05	14378721.64	39°35'43.3673"N	80°55'42.8360"W	16542.50	343.423	0.30	-0.30	0.05	
23703.00	89.720	341.600	6230.90	16622.06	15944.11	-4749.38	1660510.33	14378810.77	39°35'44.2489"N	80°55'43.2149"W	16636.44	343.412	0.50	0.49	0.09	
23798.00	89.690	341.590	6231.39	16717.06	16034.25	-4779.38	1660480.35	14378900.87	39°35'45.1400"N	80°55'43.5971"W	16731.39	343.402	0.03	-0.03	-0.01	
23892.00	90.000	341.340	6231.64	16811.05	16123.37	-4809.26	1660450.48	14378989.96	39°35'46.0210"N	80°55'43.9779"W	16825.34	343.391	0.42	0.33	-0.27	
23986.00	90.150	341.480	6231.52	16905.05	16212.47	-4839.22	1660420.53	14379079.02	39°35'46.9018"N	80°55'44.3598"W	16919.28	343.380	0.22	0.16	0.15	
24080.00	90.120	341.480	6231.30	16999.05	16301.60	-4869.08	1660390.68	14379168.12	39°35'47.7829"N	80°55'44.7403"W	17013.23	343.370	0.03	-0.03	0.00	
24175.00	90.090	341.570	6231.13	17094.04	16391.70	-4899.19	1660360.59	14379258.18	39°35'48.6737"N	80°55'45.1240"W	17108.18	343.360	0.10	-0.03	0.09	
24269.00	89.910	341.460	6231.13	17188.04	16480.85	-4928.99	1660330.80	14379347.30	39°35'49.5550"N	80°55'45.5038"W	17202.13	343.349	0.22	-0.19	-0.12	
24363.00	90.310	341.790	6230.95	17282.03	16570.06	-4958.62	1660301.18	14379436.47	39°35'50.4369"N	80°55'45.8815"W	17296.09	343.340	0.55	0.43	0.35	
24458.00	89.970	341.450	6230.71	17377.03	16660.21	-4988.58	1660271.23	14379526.59	39°35'51.3281"N	80°55'46.2632"W	17391.05	343.331	0.51	-0.36	-0.36	
24497.00	90.120	341.600	6230.68	17416.03	16697.20	-5000.94	1660258.88	14379563.56	39°35'51.6938"N	80°55'46.4207"W	17430.03	343.327	0.54	0.38	0.38	
24522.00†	90.120	341.600	6230.63	17441.03	16720.92	-5008.83	1660250.99	14379587.27	39°35'51.9283"N	80°55'46.5213"W	17455.02	343.324	0.00	0.00	0.00	Projected MD at TD: 24522'



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 11 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## HOLE & CASING SECTIONS - Ref Wellbore: Ripple Unit 1H AWB Ref Wellpath: Ripple Unit 1H AWP Proj: 24522'

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	-0.16	0.09
17.5in Open Hole	125.50	615.00	489.50	125.50	615.00	-0.16	0.09	-0.30	-0.02
13.375in Casing Surface	25.50	595.00	569.50	25.50	595.00	0.00	0.00	-0.45	-0.08
12.25in Open Hole	615.00	3234.00	2619.00	615.00	3204.71	-0.30	-0.02	-115.46	191.20
9.625in Casing Intermediate	25.50	3204.00	3178.50	25.50	3175.99	0.00	0.00	-109.66	184.76
8.75in Open Hole	3234.00	6238.00	3004.00	3204.71	6034.91	-115.46	191.20	-498.87	855.36
8.5in Open Hole	6238.00	24522.00	18284.00	6034.91	6230.63	-498.87	855.36	16720.92	-5008.83
5.5in Casing Production	25.50	24502.00	24476.50	25.50	6230.67	0.00	0.00	16701.95	-5002.51



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 12 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Ripple Unit 1H BHL Rev-4	6180.85	17269.22	-5189.52	1660070.37	14380135.35	39°35'57.3486"N	80°55'48.8242"W	point
Ripple Unit 1H BHL Rev-5	6183.84	16727.78	-5003.37	1660256.45	14379594.13	39°35'51.9961"N	80°55'46.4516"W	point
Ripple Unit 1H POE Rev-4	6233.00	-151.11	799.72	1666057.21	14362722.01	39°33'5.1266"N	80°54'32.5371"W	point
Ripple Unit 1H LP Rev-4	6276.00	83.61	719.02	1665976.54	14362956.63	39°33'7.4472"N	80°54'33.5643"W	point
Ripple Unit 1H 50' L/R Hard Line R-2	6650.00	8288.34	-2101.83	1663156.83	14371158.07	39°34'28.5631"N	80°55'9.4820"W	rectangle

2D Rectangle 17848.6 x 100.

## WELLPATH COMPOSITION - Ref Wellbore: Ripple Unit 1H AWB Ref Wellpath: Ripple Unit 1H AWP Proj: 24522'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	552.00	Gyrodatta 2015 - GC+WIR+DPIPE			
552.00	3160.00	BH NaviTrak (2019) (Axial Corr+HRGM)	01 Gyrodatta MS Gyro <17-1/2"> (100'-552')	Ripple Unit 1H AWB	6/25/2023
3160.00	6122.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (552')(676'-3160')	Ripple Unit 1H AWB	6/25/2023
6122.00	24522.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	03 APS EM <8-3/4"> (3160')(3279'-6122')	Ripple Unit 1H AWB	7/21/2023
			04 BH AT Curve <8-1/2"> (6122')(6213'-24497')	Ripple Unit 1H AWB	7/21/2023



# Actual Wellpath Report

Ripple Unit 1H AWP Proj: 24522'

Page 13 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Ripple Unit 1H
Field	Tyler	API	47-095-02864-0000
Facility	Dry Run Pad	Wellbore	Ripple Unit 1H AWB
Slot	Slot C		

## COMMENTS

### Wellpath general comments

API: 47-095-02864-0000

BH Job #: 111856026

Rig: H&P 317

Duration: 7/23/2023-7/30/2023

Gyrodata MS Gyro <17-1/2"> (100'-552')

APS EM <12-1/4"> (552')(676'-3160')

APS EM <8-3/4"> (3160')(3279'-6122')

BH AT Curve <8-1/2"> (6122')(6213'-24497')

Sycamore: 6207' MD

Middlesex: 6332' MD

Burkett: 6470' MD

Marcellus POE: 6544' MD

Projected MD at TD: 24522'

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