



# ANTERO RESOURCES CORPORATION

Location: Wetzel County, WV  
 Field: Wetzel  
 Facility: Big Run Pad

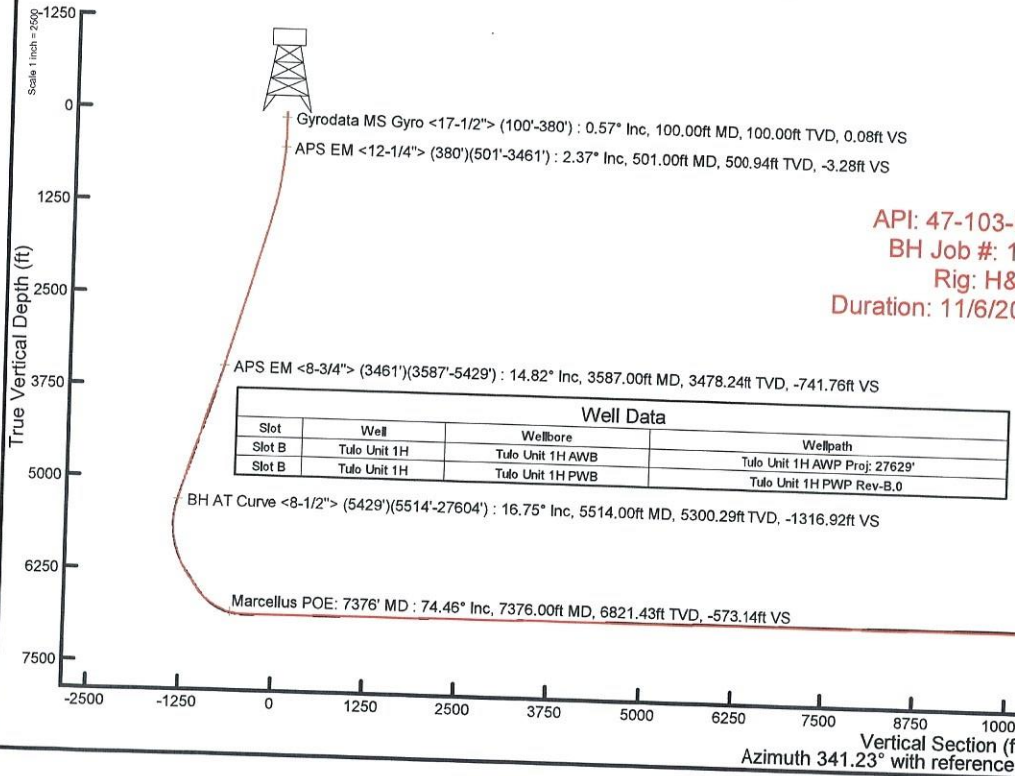
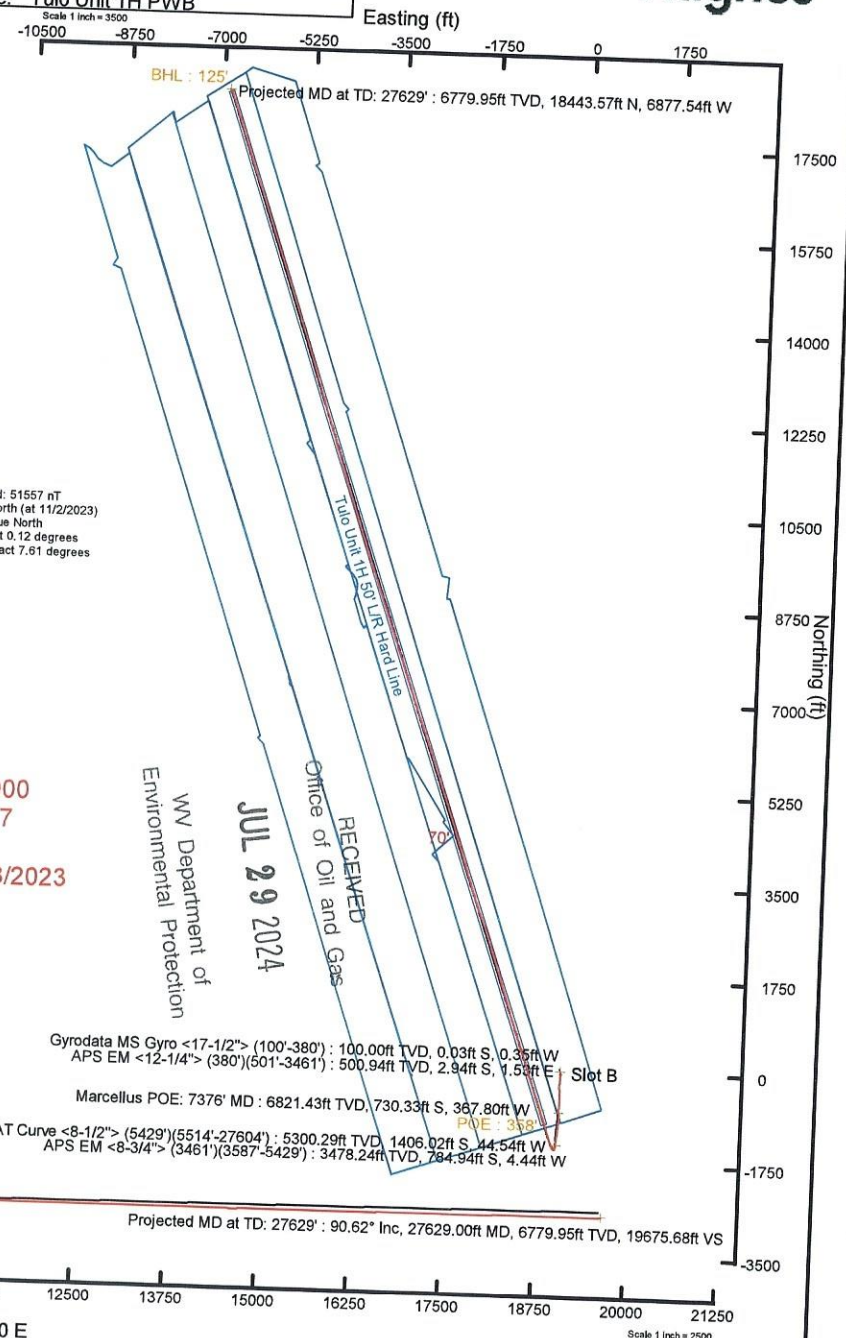
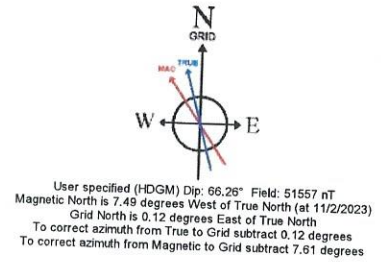
Slot: Slot B  
 Well: Tulo Unit 1H  
 Wellbore: Tulo Unit 1H PWB



Plot reference wellpath is Tulo Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1280 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot B): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-11-21; Database: WA_MPL_EASTERNMS_Data

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Big Run Pad	1691442.110	14364002.040	39°33'17.4032"N	80°49'8.3073"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot B	-14.22	4.76	1691446.870	14363987.830
Comment	Tulo Unit 1H			
H&P 531 (RKB) to Ground level (At Slot: Slot B)	30ft			
Mean Sea Level to Ground level (At Slot: Slot B)	-1250ft			
H&P 531 (RKB) to Mean Sea Level	1280ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	3461.00	16.610	180.660	3356.94	-750.94	-6.30	1.18	-708.98
Proj. to Bottom	3535.00	16.610	180.660	3427.86	-772.09	-6.55	0.00	-728.93
Drill Out	3615.00	16.610	180.660	3504.52	-794.96	-6.81	0.00	-750.49
End of 3D Arc	3761.10	19.275	184.563	3643.50	-839.89	-8.97	2.00	-792.33
Curve KOP	5501.33	19.275	184.563	5286.19	-1412.51	-54.67	0.00	-1319.80
Turn	6564.38	35.000	341.000	6296.87	-1290.25	-176.77	5.00	-1164.76
KOP 2	6864.38	35.000	341.000	6542.61	-1127.55	-232.79	0.00	-892.68
POE	7350.90	73.921	341.230	6820.00	-760.08	-358.29	8.00	-604.37
Landing Pt.	7556.88	90.400	341.230	6848.00	-567.53	-423.73	8.00	-401.01
BHL	27591.88	90.400	341.230	6708.13	18401.49	-6870.26	0.00	19633.51



API: 47-103-03602-0000  
 BH Job #: 111994417  
 Rig: H&P 531  
 Duration: 11/6/2023-11/13/2023

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Tulo Unit 1H
Field	Wetzel		API	47-103-03602-0000
Facility	Big Run Pad		Wellbore	Tulo Unit 1H AWB
Slot	Slot B			

REPORT SETUP INFORMATION				
Projection System	NAD27 / UTM Zone 17 North, US feet		Software System	WellArchitect® 6.0
North Reference	Grid		User	Edsaryar
Scale	0.999603		Report Generated	11/21/2023 at 6:21:50 PM
Convergence at slot	0.12° East		Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-14.22	4.76	1691446.87	14363987.83	39°33'17.2626"N	80°49'8.2469"W
Facility Reference Pt			1691442.11	14364002.04	39°33'17.4032"N	80°49'8.3073"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature		
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Facility Vertical Datum	
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Mean Sea Level	
MD Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot B)	
Field Vertical Reference	Mean Sea Level	Section Origin	N 0.00, E 0.00 ft
		Section Azimuth	341.23°

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Tulo Unit 1H AWP Proj: 27629'  
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REFERENCE WELLPATH IDENTIFICATION				
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Field	Wetzel		API	47-103-03602-0000
Facility	Big Run Pad		Wellbore	Tulo Unit 1H AWB
Slot	Slot B			

**WELLPATH DATA (294 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	265.310	0.00	0.00	0.00	0.00	1691446.87	14363987.83	39°33'17.2626"N	80°49'8.2469"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	265.310	30.00	0.00	0.00	0.00	1691446.87	14363987.83	39°33'17.2626"N	80°49'8.2469"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.570	265.310	100.00	0.08	-0.03	-0.35	1691446.52	14363987.80	39°33'17.2623"N	80°49'8.2513"W	0.35	265.310	0.81	0.81	0.00	Gyrodata MS Gyro <17-1/2"> (100'-380')
200.00	0.460	289.480	199.99	0.45	0.06	-1.22	1691445.65	14363987.89	39°33'17.2633"N	80°49'8.2625"W	1.22	273.034	0.24	-0.11	24.17	
300.00	0.490	109.470	299.99	0.44	0.06	-1.20	1691445.67	14363987.89	39°33'17.2632"N	80°49'8.2622"W	1.20	272.683	0.95	0.03	179.99	
380.00	0.870	112.640	379.99	-0.18	-0.29	-0.31	1691446.56	14363987.54	39°33'17.2597"N	80°49'8.2509"W	0.43	227.052	0.48	0.48	3.96	
501.00	2.370	156.570	500.94	-3.28	-2.94	1.53	1691448.40	14363984.89	39°33'17.2335"N	80°49'8.2275"W	3.31	152.526	1.52	1.24	36.31	APS EM <12-1/4"> (380')(501'-3461')
591.00	4.740	168.940	590.76	-8.82	-8.30	2.98	1691449.85	14363979.53	39°33'17.1805"N	80°49'8.2090"W	8.82	160.230	2.75	2.63	13.74	
681.00	6.460	173.330	680.33	-17.45	-16.98	4.28	1691451.15	14363970.86	39°33'17.0947"N	80°49'8.1927"W	17.51	165.837	1.97	1.91	4.88	
771.00	7.280	173.010	769.68	-27.99	-27.67	5.57	1691452.43	14363960.17	39°33'16.9891"N	80°49'8.1766"W	28.22	168.624	0.91	0.91	-0.36	
860.00	7.130	173.950	857.98	-38.89	-38.76	6.83	1691453.70	14363949.09	39°33'16.8794"N	80°49'8.1607"W	39.35	169.999	0.21	-0.17	1.06	
950.00	8.420	178.240	947.15	-50.64	-50.90	7.63	1691454.49	14363936.95	39°33'16.7594"N	80°49'8.1509"W	51.47	171.479	1.57	1.43	4.77	
1039.00	10.620	185.010	1034.92	-64.38	-65.58	7.11	1691453.98	14363922.27	39°33'16.6143"N	80°49'8.1578"W	65.97	173.813	2.77	2.47	7.61	
1134.00	12.990	187.050	1127.91	-82.01	-84.90	5.03	1691451.90	14363902.96	39°33'16.4234"N	80°49'8.1848"W	85.05	176.606	2.53	2.49	2.15	
1228.00	15.110	188.240	1219.09	-102.43	-107.51	1.98	1691448.85	14363880.36	39°33'16.2000"N	80°49'8.2244"W	107.53	178.944	2.28	2.26	1.27	
1322.00	15.280	184.130	1309.81	-124.76	-131.99	-0.67	1691446.20	14363855.89	39°33'15.9581"N	80°49'8.2588"W	132.00	180.289	1.16	0.18	-4.37	
1417.00	14.940	181.770	1401.52	-147.76	-156.72	-1.95	1691444.92	14363831.17	39°33'15.7137"N	80°49'8.2758"W	156.73	180.711	0.74	-0.36	-2.48	
1511.00	15.630	182.390	1492.20	-170.92	-181.48	-2.85	1691444.02	14363806.42	39°33'15.4690"N	80°49'8.2879"W	181.51	180.899	0.75	0.73	0.66	
1606.00	16.260	180.920	1583.54	-195.37	-207.57	-3.60	1691443.28	14363780.34	39°33'15.2112"N	80°49'8.2982"W	207.60	180.992	0.79	0.66	-1.55	
1700.00	17.060	181.600	1673.60	-220.69	-234.51	-4.19	1691442.68	14363753.41	39°33'14.9450"N	80°49'8.3065"W	234.55	181.024	0.88	0.85	0.72	
1795.00	17.630	180.750	1764.27	-247.31	-262.83	-4.77	1691442.10	14363725.11	39°33'14.6651"N	80°49'8.3146"W	262.87	181.040	0.66	0.60	-0.89	
1889.00	17.220	179.800	1853.96	-273.92	-290.97	-4.91	1691441.96	14363696.97	39°33'14.3869"N	80°49'8.3170"W	291.01	180.966	0.53	-0.44	-1.01	
1983.00	16.710	179.660	1943.87	-299.93	-318.40	-4.78	1691442.09	14363669.56	39°33'14.1159"N	80°49'8.3161"W	318.44	180.860	0.54	-0.54	-0.15	
2078.00	16.330	175.280	2034.95	-325.84	-345.37	-3.60	1691443.27	14363642.60	39°33'13.8493"N	80°49'8.3017"W	345.39	180.597	1.37	-0.40	-4.61	
2172.00	16.230	175.040	2125.18	-351.42	-371.63	-1.38	1691445.50	14363616.35	39°33'13.5897"N	80°49'8.2740"W	371.63	180.212	0.13	-0.11	-0.26	
2267.00	16.030	173.850	2216.44	-377.11	-397.89	1.18	1691448.05	14363590.09	39°33'13.3301"N	80°49'8.2421"W	397.90	179.830	0.41	-0.21	-1.25	
2361.00	16.470	179.290	2306.69	-402.45	-424.12	2.73	1691449.60	14363563.88	39°33'13.0708"N	80°49'8.2229"W	424.13	179.631	1.69	0.47	5.79	
2456.00	17.100	179.920	2397.65	-428.48	-451.56	2.92	1691449.79	14363536.45	39°33'12.7997"N	80°49'8.2212"W	451.57	179.630	0.69	0.66	0.66	
2551.00	17.870	182.150	2488.26	-455.33	-480.09	2.39	1691449.26	14363507.93	39°33'12.5177"N	80°49'8.2287"W	480.10	179.714	1.07	0.81	2.35	
2645.00	17.600	181.820	2577.79	-482.10	-508.71	1.40	1691448.27	14363479.33	39°33'12.2349"N	80°49'8.2421"W	508.71	179.842	0.31	-0.29	-0.35	

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION		
Field	Wetzel	Well	Tulo Unit 1H
Facility	Big Run Pad	API	47-103-03602-0000
Slot	Slot B	Wellbore	Tulo Unit 1H AWB

## WELLPATH DATA (294 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
2740.00	17.840	183.620	2668.28	-509.00	-537.59	0.03	1691446.90	14363450.46	39°33'11.9495"N	80°49'8.2604"W	537.59	179.997	0.63	0.25	1.89	
2836.00	17.370	182.110	2759.79	-535.99	-566.58	-1.43	1691445.44	14363421.47	39°33'11.6630"N	80°49'8.2797"W	566.58	180.145	0.68	-0.49	-1.57	
2930.00	16.710	179.590	2849.66	-561.93	-594.12	-1.85	1691445.02	14363393.95	39°33'11.3908"N	80°49'8.2858"W	594.12	180.178	1.05	-0.70	-2.68	
3025.00	17.310	181.190	2940.50	-588.17	-621.91	-2.05	1691444.82	14363366.17	39°33'11.1162"N	80°49'8.2890"W	621.91	180.189	0.80	0.63	1.68	
3119.00	17.100	181.730	3030.30	-614.26	-649.70	-2.75	1691444.12	14363338.39	39°33'10.8415"N	80°49'8.2988"W	649.71	180.243	0.28	-0.22	0.57	
3214.00	17.120	181.070	3121.09	-640.50	-677.64	-3.44	1691443.43	14363310.46	39°33'10.5654"N	80°49'8.3082"W	677.65	180.291	0.21	0.02	-0.69	
3308.00	17.660	183.400	3210.80	-666.72	-705.71	-4.54	1691442.33	14363282.40	39°33'10.2880"N	80°49'8.3230"W	705.72	180.369	0.94	0.57	2.48	
3402.00	17.170	182.080	3300.49	-692.89	-733.81	-5.89	1691440.98	14363254.32	39°33'10.0103"N	80°49'8.3410"W	733.83	180.460	0.67	-0.52	-1.40	
3461.00	16.610	180.660	3356.94	-708.98	-750.94	-6.30	1691440.57	14363237.19	39°33'9.8410"N	80°49'8.3467"W	750.97	180.481	1.18	-0.95	-2.41	
3587.00	14.820	172.620	3478.24	-741.76	-784.94	-4.44	1691442.43	14363203.20	39°33'9.5049"N	80°49'8.3238"W	784.95	180.324	2.23	-1.42	-6.38	APS EM <8-3/4"> (3461')(3587'-5429')
3682.00	16.990	178.320	3569.61	-766.95	-810.87	-2.47	1691444.40	14363177.29	39°33'9.2487"N	80°49'8.2993"W	810.87	180.175	2.81	2.28	6.00	
3776.00	18.500	173.140	3659.14	-794.67	-839.40	-0.29	1691446.58	14363148.76	39°33'8.9666"N	80°49'8.2722"W	839.40	180.020	2.32	1.61	-5.51	
3871.00	21.630	176.070	3748.36	-826.35	-871.84	2.71	1691449.58	14363116.33	39°33'8.6459"N	80°49'8.2347"W	871.85	179.822	3.46	3.29	3.08	
3966.00	21.810	180.080	3836.62	-859.98	-906.96	3.89	1691450.76	14363081.23	39°33'8.2988"N	80°49'8.2206"W	906.97	179.754	1.57	0.19	4.22	
4062.00	21.510	189.890	3925.87	-892.31	-942.15	0.84	1691447.71	14363046.06	39°33'7.9511"N	80°49'8.2604"W	942.15	179.949	3.78	-0.31	10.22	
4157.00	20.390	189.650	4014.59	-922.15	-975.62	-4.93	1691441.95	14363012.60	39°33'7.6204"N	80°49'8.3349"W	975.63	180.289	1.18	-1.18	-0.25	
4251.00	18.960	185.450	4103.11	-950.48	-1006.97	-9.12	1691437.75	14362981.26	39°33'7.3107"N	80°49'8.3892"W	1007.01	180.519	2.14	-1.52	-4.47	
4346.00	17.650	183.840	4193.30	-977.85	-1036.70	-11.55	1691435.32	14362951.54	39°33'7.0168"N	80°49'8.4210"W	1036.77	180.638	1.48	-1.38	-1.69	
4440.00	16.890	186.950	4283.06	-1003.31	-1064.48	-14.16	1691432.72	14362923.78	39°33'6.7424"N	80°49'8.4550"W	1064.57	180.762	1.27	-0.81	3.31	
4535.00	16.010	180.410	4374.18	-1028.12	-1091.28	-15.92	1691430.95	14362896.99	39°33'6.4775"N	80°49'8.4782"W	1091.40	180.836	2.16	-0.93	-6.88	
4629.00	20.680	182.940	4463.38	-1055.80	-1120.83	-16.87	1691430.01	14362867.44	39°33'6.1854"N	80°49'8.4910"W	1120.96	180.862	5.04	4.97	2.69	
4724.00	22.770	189.200	4551.64	-1087.63	-1155.74	-20.67	1691426.21	14362832.55	39°33'5.8405"N	80°49'8.5405"W	1155.93	181.025	3.28	2.20	6.59	
4818.00	20.260	183.470	4639.09	-1118.77	-1189.95	-24.56	1691422.32	14362798.35	39°33'5.5025"N	80°49'8.5911"W	1190.21	181.183	3.48	-2.67	-6.10	
4913.00	19.140	184.270	4728.53	-1148.32	-1221.90	-26.72	1691420.16	14362766.41	39°33'5.1867"N	80°49'8.6194"W	1222.20	181.253	1.21	-1.18	0.84	
5007.00	17.460	187.910	4817.78	-1175.11	-1251.24	-29.81	1691417.08	14362737.09	39°33'4.8968"N	80°49'8.6596"W	1251.60	181.365	2.16	-1.79	3.87	
5101.00	17.410	186.830	4907.46	-1200.39	-1279.17	-33.42	1691413.46	14362709.17	39°33'4.6209"N	80°49'8.7064"W	1279.61	181.497	0.35	-0.05	-1.15	
5196.00	18.250	187.900	4997.90	-1226.50	-1308.02	-37.15	1691409.73	14362680.33	39°33'4.3359"N	80°49'8.7548"W	1308.55	181.627	0.95	0.88	1.13	
5291.00	17.820	185.320	5088.23	-1253.06	-1337.23	-40.55	1691406.34	14362651.14	39°33'4.0472"N	80°49'8.7989"W	1337.84	181.737	0.95	-0.45	-2.72	
5385.00	19.200	184.920	5177.36	-1280.35	-1366.95	-43.21	1691403.68	14362621.42	39°33'3.7535"N	80°49'8.8336"W	1367.63	181.810	1.47	1.47	-0.43	
5429.00	17.710	181.290	5219.10	-1293.26	-1380.85	-43.98	1691402.91	14362607.53	39°33'3.6162"N	80°49'8.8438"W	1381.55	181.824	4.27	-3.39	-8.25	

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Slot	Slot B			

WELLPATH DATA (294 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
5514.00	16.750	181.270	5300.29	-1316.92	-1406.02	-44.54	1691402.35	14362582.37	39°33'3.3674"N	80°49'8.8516"W	1406.73	181.814	1.13	-1.13	-0.02	BH AT Curve <8-1/2"> (5429')(5514'-27604')
5608.00	17.100	199.650	5390.28	-1340.49	-1432.60	-49.49	1691397.40	14362555.80	39°33'3.1049"N	80°49'8.9155"W	1433.45	181.979	5.68	0.37	19.55	
5703.00	12.850	211.300	5482.05	-1358.22	-1454.79	-59.68	1691387.21	14362533.62	39°33'2.8857"N	80°49'9.0462"W	1456.02	182.349	5.46	-4.47	12.26	
5798.00	7.700	227.280	5575.52	-1367.59	-1468.15	-69.86	1691377.04	14362520.27	39°33'2.7539"N	80°49'9.1764"W	1469.81	182.724	6.15	-5.42	16.82	
5892.00	7.690	268.900	5668.74	-1368.24	-1472.55	-80.78	1691366.12	14362515.87	39°33'2.7107"N	80°49'9.3160"W	1474.76	183.140	5.80	-0.01	44.28	
5987.00	8.740	291.380	5762.79	-1361.66	-1470.04	-93.86	1691353.05	14362518.38	39°33'2.7357"N	80°49'9.4829"W	1473.03	183.653	3.53	1.11	23.66	
6081.00	12.690	320.090	5855.19	-1347.41	-1459.50	-107.15	1691339.77	14362528.91	39°33'2.8401"N	80°49'9.6522"W	1463.43	184.199	6.94	4.20	30.54	
6176.00	16.750	338.180	5947.10	-1323.98	-1438.77	-118.94	1691327.98	14362549.63	39°33'3.0452"N	80°49'9.8023"W	1443.68	184.726	6.41	4.27	19.04	
6270.00	20.020	338.030	6036.29	-1294.38	-1411.27	-130.00	1691316.92	14362577.13	39°33'3.3173"N	80°49'9.9427"W	1417.24	185.263	3.48	3.48	-0.16	
6364.00	23.120	336.230	6123.70	-1259.92	-1379.45	-143.46	1691303.47	14362608.93	39°33'3.6320"N	80°49'10.1138"W	1386.89	185.937	3.37	3.30	-1.91	
6458.00	26.360	340.790	6209.07	-1220.66	-1342.84	-157.77	1691289.16	14362645.53	39°33'3.9941"N	80°49'10.2955"W	1352.07	186.701	4.00	3.45	4.85	
6553.00	33.600	342.250	6291.31	-1173.22	-1297.83	-172.74	1691274.20	14362690.52	39°33'4.4393"N	80°49'10.4855"W	1309.27	187.582	7.66	7.62	1.54	
6647.00	34.950	341.730	6368.98	-1120.29	-1247.48	-189.11	1691257.83	14362740.84	39°33'4.9372"N	80°49'10.6932"W	1261.74	188.620	1.47	1.44	-0.55	
6742.00	34.920	341.400	6446.86	-1065.89	-1195.87	-206.32	1691240.63	14362792.43	39°33'5.4476"N	80°49'10.9115"W	1213.54	189.789	0.20	-0.03	-0.35	
6836.00	35.780	341.600	6523.53	-1011.50	-1144.30	-223.57	1691223.39	14362843.99	39°33'5.9576"N	80°49'11.1305"W	1165.94	191.055	0.92	0.91	0.21	
6841.00†	36.128	341.593	6527.58	-1008.57	-1141.51	-224.50	1691222.46	14362846.77	39°33'5.9852"N	80°49'11.1422"W	1163.38	191.126	6.96	6.96	-0.13	Sycamore: 6841' MD
6931.00	42.390	341.490	6597.23	-951.64	-1087.52	-242.53	1691204.44	14362900.75	39°33'6.5192"N	80°49'11.3710"W	1114.23	192.572	6.96	6.96	-0.11	
6993.00†	48.128	341.483	6640.85	-907.62	-1045.78	-256.50	1691190.47	14362942.47	39°33'6.9320"N	80°49'11.5484"W	1076.77	193.781	9.26	9.26	-0.01	Middlesex: 6993' MD
7025.00	51.090	341.480	6661.59	-883.25	-1022.67	-264.24	1691182.73	14362965.57	39°33'7.1606"N	80°49'11.6466"W	1056.26	194.488	9.26	9.26	-0.01	
7119.00	58.570	341.540	6715.69	-806.47	-949.85	-288.59	1691158.39	14363038.36	39°33'7.8808"N	80°49'11.9556"W	992.72	196.901	7.96	7.96	0.06	
7156.00†	60.399	340.943	6734.48	-774.60	-919.67	-298.85	1691148.14	14363068.53	39°33'8.1792"N	80°49'12.0857"W	967.00	198.002	5.13	4.94	-1.61	Burkett: 7156' MD
7196.00†	62.378	340.322	6753.63	-739.48	-886.54	-310.49	1691136.50	14363101.64	39°33'8.5069"N	80°49'12.2335"W	939.34	199.302	5.13	4.95	-1.55	Tully: 7196' MD
7214.00	63.270	340.050	6761.86	-723.47	-871.48	-315.92	1691131.08	14363116.70	39°33'8.6559"N	80°49'12.3024"W	926.97	199.926	5.13	4.95	-1.51	
7308.00	68.810	339.640	6800.01	-637.63	-790.87	-345.51	1691101.50	14363197.28	39°33'9.4531"N	80°49'12.6782"W	863.05	203.599	5.91	5.89	-0.44	
7376.00†	74.460	339.940	6821.43	-573.14	-730.33	-367.80	1691079.22	14363257.79	39°33'10.0519"N	80°49'12.9611"W	817.71	206.730	8.32	8.31	0.44	Marcellus POE: 7376' MD
7402.00	76.620	340.050	6827.92	-547.97	-706.67	-376.41	1691070.61	14363281.44	39°33'10.2858"N	80°49'13.0704"W	800.67	208.042	8.32	8.31	0.42	
7496.00	85.780	341.540	6842.29	-455.19	-619.04	-406.92	1691040.11	14363369.04	39°33'11.1525"N	80°49'13.4577"W	740.81	213.318	9.87	9.74	1.59	
7590.00	90.030	340.740	6845.72	-361.27	-530.17	-437.28	1691009.77	14363457.87	39°33'12.0315"N	80°49'13.8430"W	687.23	219.515	4.60	4.52	-0.85	
7684.00	90.280	340.960	6845.47	-267.27	-441.37	-468.11	1690978.94	14363546.64	39°33'12.9097"N	80°49'14.2344"W	643.38	226.684	0.35	0.27	0.23	
7778.00	90.280	340.860	6845.01	-173.28	-352.54	-498.86	1690948.21	14363635.43	39°33'13.7882"N	80°49'14.6246"W	610.85	234.751	0.11	0.00	-0.11	

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION		
Field	Wetzel	Well	Tulo Unit 1H
Facility	Big Run Pad	API	47-103-03602-0000
Slot	Slot B	Wellbore	Tulo Unit 1H AWB

## WELLPATH DATA (294 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
7873.00	90.280	341.400	6844.55	-78.28	-262.65	-529.58	1690917.50	14363725.29	39°33'14.6773"N	80°49'15.0146"W	591.13	243.621	0.57	0.00	0.57	
7968.00	90.430	341.250	6843.96	16.72	-172.65	-560.00	1690887.10	14363815.25	39°33'15.5673"N	80°49'15.4007"W	586.01	252.865	0.22	0.16	-0.16	
8062.00	90.550	341.790	6843.15	110.72	-83.50	-589.79	1690857.31	14363904.36	39°33'16.4490"N	80°49'15.7788"W	595.67	261.942	0.59	0.13	0.57	
8156.00	90.550	341.350	6842.25	204.71	5.67	-619.51	1690827.61	14363993.50	39°33'17.3309"N	80°49'16.1559"W	619.53	270.525	0.47	0.00	-0.47	
8251.00	90.580	341.460	6841.31	299.70	95.71	-649.80	1690797.33	14364083.50	39°33'18.2213"N	80°49'16.5403"W	656.81	278.379	0.12	0.03	0.12	
8345.00	90.310	341.110	6840.58	393.70	184.73	-679.96	1690767.18	14364172.49	39°33'19.1018"N	80°49'16.9231"W	704.61	285.200	0.47	-0.29	-0.37	
8439.00	90.680	341.490	6839.77	487.70	273.77	-710.10	1690737.06	14364261.49	39°33'19.9823"N	80°49'17.3056"W	761.04	291.084	0.56	0.39	0.40	
8534.00	91.140	341.930	6838.26	582.68	363.96	-739.91	1690707.26	14364351.64	39°33'20.8743"N	80°49'17.6839"W	824.58	296.192	0.67	0.48	0.46	
8629.00	89.910	340.690	6837.39	677.67	453.94	-770.35	1690676.83	14364441.59	39°33'21.7642"N	80°49'18.0703"W	894.15	300.509	1.84	-1.29	-1.31	
8723.00	90.150	340.860	6837.34	771.67	542.70	-801.30	1690645.89	14364530.31	39°33'22.6420"N	80°49'18.4632"W	967.78	304.109	0.31	0.26	0.18	
8818.00	90.220	340.920	6837.04	866.67	632.46	-832.40	1690614.80	14364620.04	39°33'23.5298"N	80°49'18.8580"W	1045.42	307.228	0.10	0.07	0.06	
8913.00	90.340	341.210	6836.57	961.67	722.32	-863.23	1690583.99	14364709.86	39°33'24.4185"N	80°49'19.2493"W	1125.57	309.922	0.33	0.13	0.31	
9007.00	90.830	342.460	6835.61	1055.65	811.63	-892.53	1690554.70	14364799.14	39°33'25.3017"N	80°49'19.6211"W	1206.38	312.282	1.43	0.52	1.33	
9102.00	90.950	341.320	6834.14	1150.64	901.91	-922.06	1690525.18	14364889.38	39°33'26.1946"N	80°49'19.9958"W	1289.82	314.367	1.21	0.13	-1.20	
9196.00	90.150	341.710	6833.23	1244.63	991.06	-951.86	1690495.39	14364978.49	39°33'27.0762"N	80°49'20.3741"W	1374.13	316.156	0.95	-0.85	0.41	
9291.00	90.770	342.540	6832.47	1339.61	1081.47	-981.02	1690466.25	14365068.86	39°33'27.9703"N	80°49'20.7440"W	1460.12	317.788	1.09	0.65	0.87	
9385.00	90.220	342.110	6831.66	1433.59	1171.02	-1009.55	1690437.72	14365158.39	39°33'28.8560"N	80°49'21.1062"W	1546.12	319.235	0.74	-0.59	-0.46	
9480.00	90.180	341.750	6831.33	1528.58	1261.34	-1039.02	1690408.26	14365248.67	39°33'29.7492"N	80°49'21.4801"W	1634.18	320.520	0.38	-0.04	-0.38	
9575.00	90.180	342.290	6831.03	1623.57	1351.70	-1068.35	1690378.95	14365338.99	39°33'30.6428"N	80°49'21.8522"W	1722.92	321.678	0.57	0.00	0.57	
9668.00	90.120	341.650	6830.79	1716.57	1440.13	-1097.13	1690350.18	14365427.39	39°33'31.5173"N	80°49'22.2175"W	1810.43	322.699	0.69	-0.06	-0.69	
9762.00	90.030	341.400	6830.66	1810.56	1529.29	-1126.92	1690320.40	14365516.51	39°33'32.3991"N	80°49'22.5956"W	1899.65	323.614	0.28	-0.10	-0.27	
9857.00	89.720	342.470	6830.87	1905.55	1619.60	-1156.38	1690290.95	14365606.79	39°33'33.2923"N	80°49'22.9694"W	1990.05	324.474	1.17	-0.33	1.13	
9952.00	90.980	341.950	6830.29	2000.54	1710.06	-1185.40	1690261.94	14365697.20	39°33'34.1868"N	80°49'23.3377"W	2080.74	325.271	1.43	1.33	-0.55	
10046.00	90.340	342.840	6829.21	2094.51	1799.65	-1213.83	1690233.53	14365786.76	39°33'35.0728"N	80°49'23.6984"W	2170.74	326.001	1.17	-0.68	0.95	
10141.00	90.000	341.970	6828.93	2189.49	1890.20	-1242.55	1690204.82	14365877.28	39°33'35.9683"N	80°49'24.0628"W	2262.03	326.681	0.98	-0.36	-0.92	
10235.00	90.740	341.970	6828.32	2283.48	1979.58	-1271.64	1690175.74	14365966.62	39°33'36.8523"N	80°49'24.4320"W	2352.83	327.284	0.79	0.79	0.00	
10330.00	90.120	341.810	6827.61	2378.47	2069.87	-1301.17	1690146.22	14366056.88	39°33'37.7452"N	80°49'24.8068"W	2444.87	327.846	0.67	-0.65	-0.17	
10424.00	90.550	341.570	6827.06	2472.46	2159.11	-1330.70	1690116.70	14366146.08	39°33'38.6277"N	80°49'25.1816"W	2536.24	328.354	0.52	0.46	-0.12	
10519.00	90.030	341.460	6826.58	2567.46	2249.21	-1360.82	1690086.59	14366236.14	39°33'39.5188"N	80°49'25.5639"W	2628.83	328.825	0.56	-0.55	-0.12	
10613.00	90.310	341.940	6826.30	2661.46	2338.45	-1390.33	1690057.09	14366325.35	39°33'40.4014"N	80°49'25.9385"W	2720.55	329.266	0.59	0.30	0.51	

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tulo Unit 1H
Field	Wetzel	API	47-103-03602-0000
Facility	Big Run Pad	Wellbore	Tulo Unit 1H AWB
Slot	Slot B		

## WELLPATH DATA (294 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
10708.00	91.170	342.280	6825.07	2756.44	2428.85	-1419.51	1690027.92	14366415.71	39°33'41.2954"N	80°49'26.3088"W	2813.24	329.696	0.97	0.91	0.36	
10803.00	90.090	341.160	6824.02	2851.42	2519.05	-1449.31	1689998.14	14366505.87	39°33'42.1874"N	80°49'26.6870"W	2906.22	330.086	1.64	-1.14	-1.18	
10897.00	90.370	341.350	6823.65	2945.42	2608.06	-1479.52	1689967.94	14366594.85	39°33'43.0677"N	80°49'27.0705"W	2998.49	330.434	0.36	0.30	0.20	
10992.00	90.090	338.910	6823.27	3040.40	2697.40	-1511.80	1689935.67	14366684.15	39°33'43.9513"N	80°49'27.4805"W	3092.17	330.731	2.59	-0.29	-2.57	
11086.00	90.030	336.760	6823.17	3134.23	2784.45	-1547.26	1689900.22	14366771.17	39°33'44.8123"N	80°49'27.9311"W	3185.46	330.940	2.29	-0.06	-2.29	
11181.00	90.430	337.570	6822.79	3228.99	2872.00	-1584.13	1689863.37	14366858.68	39°33'45.6783"N	80°49'28.3996"W	3279.92	331.120	0.95	0.42	0.85	
11275.00	90.180	338.690	6822.29	3322.85	2959.23	-1619.15	1689828.37	14366945.88	39°33'46.5411"N	80°49'28.8445"W	3373.23	331.315	1.22	-0.27	1.19	
11370.00	90.250	341.960	6821.93	3417.82	3048.67	-1651.13	1689796.40	14367035.29	39°33'47.4257"N	80°49'29.2506"W	3467.08	331.561	3.44	0.07	3.44	
11465.00	90.370	341.850	6821.42	3512.81	3138.97	-1680.63	1689766.91	14367125.55	39°33'48.3187"N	80°49'29.6251"W	3560.57	331.835	0.17	0.13	-0.12	
11559.00	90.280	341.500	6820.88	3606.81	3228.21	-1710.19	1689737.37	14367214.75	39°33'49.2012"N	80°49'30.0003"W	3653.22	332.087	0.38	-0.10	-0.37	
11654.00	90.030	341.490	6820.62	3701.81	3318.29	-1740.34	1689707.23	14367304.80	39°33'50.0921"N	80°49'30.3830"W	3746.98	332.324	0.26	-0.26	-0.01	
11748.00	90.310	341.480	6820.35	3795.81	3407.43	-1770.19	1689677.39	14367393.90	39°33'50.9736"N	80°49'30.7619"W	3839.81	332.548	0.30	0.30	-0.01	
11843.00	90.580	342.380	6819.61	3890.79	3497.74	-1799.65	1689647.94	14367484.17	39°33'51.8667"N	80°49'31.1359"W	3933.56	332.773	0.99	0.28	0.95	
11937.00	90.650	342.300	6818.60	3984.77	3587.30	-1828.17	1689619.43	14367573.70	39°33'52.7525"N	80°49'31.4978"W	4026.28	332.996	0.11	0.07	-0.09	
12032.00	90.180	341.340	6817.91	4079.76	3677.56	-1857.81	1689589.80	14367663.92	39°33'53.6450"N	80°49'31.8740"W	4120.18	333.198	1.13	-0.49	-1.01	
12126.00	89.850	341.610	6817.89	4173.76	3766.69	-1887.67	1689559.95	14367753.01	39°33'54.5265"N	80°49'32.2532"W	4213.22	333.382	0.45	-0.35	0.29	
12221.00	90.180	342.290	6817.86	4268.75	3857.01	-1917.11	1689530.53	14367843.30	39°33'55.4198"N	80°49'32.6268"W	4307.18	333.571	0.80	0.35	0.72	
12315.00	90.030	342.150	6817.69	4362.74	3946.52	-1945.81	1689501.83	14367932.78	39°33'56.3050"N	80°49'32.9911"W	4400.14	333.755	0.22	-0.16	-0.15	
12410.00	90.090	342.270	6817.59	4457.73	4036.98	-1974.84	1689472.82	14368023.20	39°33'57.1995"N	80°49'33.3595"W	4494.13	333.933	0.14	0.06	0.13	
12504.00	89.940	341.910	6817.57	4551.71	4126.42	-2003.74	1689443.93	14368112.61	39°33'58.0841"N	80°49'33.7264"W	4587.19	334.099	0.41	-0.16	-0.38	
12599.00	89.750	341.360	6817.82	4646.71	4216.58	-2033.68	1689414.01	14368202.73	39°33'58.9757"N	80°49'34.1063"W	4681.39	334.252	0.61	-0.20	-0.58	
12693.00	90.310	342.260	6817.77	4740.71	4305.88	-2063.02	1689384.67	14368292.00	39°33'59.8589"N	80°49'34.4788"W	4774.59	334.400	1.13	0.60	0.96	
12788.00	89.880	342.070	6817.62	4835.69	4396.32	-2092.11	1689355.59	14368382.39	39°34'0.7532"N	80°49'34.8481"W	4868.73	334.551	0.49	-0.45	-0.20	
12882.00	90.370	342.360	6817.41	4929.68	4485.82	-2120.83	1689326.89	14368471.87	39°34'1.6384"N	80°49'35.2125"W	4961.91	334.696	0.61	0.52	0.31	
12977.00	90.220	342.670	6816.92	5024.65	4576.43	-2149.37	1689298.36	14368562.44	39°34'2.5344"N	80°49'35.5747"W	5056.04	334.842	0.36	-0.16	0.33	
13072.00	90.400	342.290	6816.41	5119.63	4667.03	-2177.97	1689269.77	14368652.99	39°34'3.4303"N	80°49'35.9377"W	5150.21	334.983	0.44	0.19	-0.40	
13166.00	90.150	341.440	6815.96	5213.62	4756.35	-2207.23	1689240.53	14368742.29	39°34'4.3137"N	80°49'36.3091"W	5243.54	335.106	0.94	-0.27	-0.90	
13261.00	90.890	340.630	6815.09	5308.61	4846.19	-2238.10	1689209.67	14368832.09	39°34'5.2022"N	80°49'36.7011"W	5338.04	335.211	1.15	0.78	-0.85	
13355.00	90.090	340.840	6814.29	5402.61	4934.92	-2269.11	1689178.67	14368920.79	39°34'6.0798"N	80°49'37.0949"W	5431.61	335.307	0.88	-0.85	0.22	
13449.00	90.180	340.310	6814.07	5496.60	5023.57	-2300.37	1689147.42	14369009.40	39°34'6.9565"N	80°49'37.4919"W	5525.22	335.396	0.57	0.10	-0.56	

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Tulo Unit 1H
Field	Wetzel		API	47-103-03602-0000
Facility	Big Run Pad		Wellbore	Tulo Unit 1H AWB
Slot	Slot B			

WELLPATH DATA (294 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
13544.00	90.060	340.710	6813.87	5591.59	5113.13	-2332.07	1689115.73	14369098.92	39°34'7.8422"N	80°49'37.8945"W	5619.84	335.483	0.44	-0.13	0.42	
13638.00	90.180	340.480	6813.67	5685.59	5201.79	-2363.30	1689084.51	14369187.54	39°34'8.7190"N	80°49'38.2911"W	5713.47	335.567	0.28	0.13	-0.24	
13732.00	90.220	340.780	6813.34	5779.58	5290.47	-2394.48	1689053.35	14369276.19	39°34'9.5961"N	80°49'38.6870"W	5807.11	335.648	0.32	0.04	0.32	
13827.00	90.340	340.840	6812.88	5874.58	5380.19	-2425.70	1689022.14	14369365.87	39°34'10.4834"N	80°49'39.0836"W	5901.73	335.731	0.14	0.13	0.06	
14016.00	90.400	341.120	6811.66	6063.57	5558.87	-2487.29	1688960.57	14369544.48	39°34'12.2505"N	80°49'39.8657"W	6089.96	335.894	0.15	0.03	0.15	
14110.00	90.310	340.950	6811.08	6157.57	5647.76	-2517.84	1688930.03	14369633.34	39°34'13.1296"N	80°49'40.2536"W	6183.59	335.972	0.20	-0.10	-0.18	
14205.00	90.490	340.710	6810.41	6252.56	5737.49	-2549.04	1688898.85	14369723.03	39°34'14.0170"N	80°49'40.6498"W	6278.25	336.046	0.32	0.19	-0.25	
14299.00	90.090	340.400	6809.94	6346.56	5826.13	-2580.33	1688867.57	14369811.63	39°34'14.8936"N	80°49'41.0472"W	6371.96	336.112	0.54	-0.43	-0.33	
14394.00	90.120	340.430	6809.76	6441.55	5915.63	-2612.17	1688835.74	14369901.10	39°34'15.7788"N	80°49'41.4517"W	6466.70	336.175	0.04	0.03	0.03	
14488.00	90.340	340.590	6809.39	6535.54	6004.25	-2643.54	1688804.39	14369989.68	39°34'16.6552"N	80°49'41.8500"W	6560.43	336.237	0.29	0.23	0.17	
14583.00	90.060	340.370	6809.06	6630.53	6093.78	-2675.28	1688772.66	14370079.18	39°34'17.5407"N	80°49'42.2532"W	6655.17	336.298	0.37	-0.29	-0.23	
14677.00	90.490	340.790	6808.60	6724.52	6182.43	-2706.53	1688741.42	14370167.80	39°34'18.4175"N	80°49'42.6501"W	6748.91	336.357	0.64	0.46	0.45	
14772.00	90.370	340.690	6807.89	6819.51	6272.12	-2737.87	1688710.09	14370257.44	39°34'19.3044"N	80°49'43.0481"W	6843.64	336.418	0.16	-0.13	-0.11	
14867.00	90.280	340.530	6807.35	6914.51	6361.73	-2769.41	1688678.57	14370347.02	39°34'20.1906"N	80°49'43.4486"W	6938.38	336.475	0.19	-0.09	-0.17	
14961.00	90.090	340.360	6807.05	7008.50	6450.30	-2800.87	1688647.12	14370435.56	39°34'21.0666"N	80°49'43.8483"W	7032.16	336.528	0.27	-0.20	-0.18	
15056.00	90.180	340.360	6806.83	7103.49	6539.78	-2832.80	1688615.20	14370525.00	39°34'21.9515"N	80°49'44.2538"W	7126.95	336.579	0.09	0.09	0.00	
15150.00	90.220	340.790	6806.50	7197.48	6628.42	-2864.06	1688583.95	14370613.61	39°34'22.8282"N	80°49'44.6509"W	7220.72	336.631	0.46	0.04	0.46	
15245.00	90.180	340.290	6806.17	7292.47	6718.00	-2895.71	1688552.31	14370703.15	39°34'23.7141"N	80°49'45.0529"W	7315.51	336.682	0.53	-0.04	-0.53	
15339.00	90.370	340.560	6805.71	7386.46	6806.56	-2927.20	1688520.83	14370791.68	39°34'24.5900"N	80°49'45.4529"W	7409.31	336.730	0.35	0.20	0.29	
15434.00	89.970	341.000	6805.43	7481.46	6896.27	-2958.48	1688489.57	14370881.35	39°34'25.4772"N	80°49'45.8501"W	7504.07	336.781	0.63	-0.42	0.46	
15529.00	89.940	341.110	6805.51	7576.46	6986.12	-2989.32	1688458.74	14370971.16	39°34'26.3658"N	80°49'46.2418"W	7598.81	336.834	0.12	-0.03	0.12	
15624.00	90.030	341.260	6805.53	7671.46	7076.04	-3019.96	1688428.12	14371061.05	39°34'27.2551"N	80°49'46.6309"W	7693.54	336.888	0.18	0.09	0.16	
15718.00	90.000	340.880	6805.51	7765.46	7164.96	-3050.45	1688397.63	14371149.93	39°34'28.1344"N	80°49'47.0182"W	7787.29	336.938	0.41	-0.03	-0.40	
15813.00	90.220	340.120	6805.32	7860.45	7254.51	-3082.17	1688365.93	14371239.45	39°34'29.0201"N	80°49'47.4210"W	7882.11	336.981	0.83	0.23	-0.80	
15907.00	90.000	340.750	6805.14	7954.44	7343.08	-3113.64	1688334.47	14371327.98	39°34'29.8960"N	80°49'47.8208"W	7975.94	337.022	0.71	-0.23	0.67	
16001.00	89.910	340.040	6805.22	8048.43	7431.63	-3145.18	1688302.94	14371416.50	39°34'30.7718"N	80°49'48.2215"W	8069.78	337.061	0.76	-0.10	-0.76	
16096.00	89.970	341.480	6805.32	8143.42	7521.32	-3176.49	1688271.65	14371506.15	39°34'31.6588"N	80°49'48.6191"W	8164.58	337.104	1.52	0.06	1.52	
16190.00	89.720	339.630	6805.57	8237.41	7609.96	-3207.78	1688240.37	14371594.75	39°34'32.5354"N	80°49'49.0165"W	8258.41	337.143	1.99	-0.27	-1.97	
16284.00	89.910	341.340	6805.88	8331.40	7698.55	-3239.18	1688208.98	14371683.31	39°34'33.4116"N	80°49'49.4154"W	8352.25	337.181	1.83	0.20	1.82	
16379.00	89.820	340.850	6806.10	8426.40	7788.43	-3269.96	1688178.22	14371773.15	39°34'34.3004"N	80°49'49.8063"W	8447.03	337.225	0.52	-0.09	-0.52	

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Tulo Unit 1H
Field	Wetzel		API	47-103-03602-0000
Facility	Big Run Pad		Wellbore	Tulo Unit 1H AWB
Slot	Slot B			

WELLPATH DATA (294 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
16474.00	90.150	340.480	6806.12	8521.39	7878.07	-3301.41	1688146.78	14371862.76	39°34'35.1869"N	80°49'50.2058"W	8541.86	337.263	0.52	0.35	-0.39	
16568.00	90.490	341.060	6805.60	8615.39	7966.82	-3332.37	1688115.83	14371951.48	39°34'36.0647"N	80°49'50.5991"W	8635.68	337.301	0.72	0.36	0.62	
16662.00	90.680	341.190	6804.64	8709.38	8055.76	-3362.78	1688085.43	14372040.38	39°34'36.9443"N	80°49'50.9853"W	8729.47	337.343	0.24	0.20	0.14	
16757.00	90.280	341.100	6803.84	8804.38	8145.66	-3393.48	1688054.74	14372130.24	39°34'37.8333"N	80°49'51.3752"W	8824.26	337.383	0.43	-0.42	-0.09	
16852.00	90.280	340.670	6803.38	8899.38	8235.42	-3424.59	1688023.65	14372219.97	39°34'38.7210"N	80°49'51.7703"W	8919.08	337.421	0.45	0.00	-0.45	
16946.00	89.970	340.530	6803.17	8993.37	8324.09	-3455.81	1687992.44	14372308.60	39°34'39.5979"N	80°49'52.1669"W	9012.94	337.454	0.36	-0.33	-0.15	
17041.00	90.150	341.150	6803.07	9088.37	8413.82	-3486.99	1687961.27	14372398.30	39°34'40.4854"N	80°49'52.5630"W	9107.77	337.489	0.68	0.19	0.65	
17135.00	90.180	340.670	6802.80	9182.37	8502.65	-3517.73	1687930.54	14372487.09	39°34'41.3638"N	80°49'52.9535"W	9201.61	337.524	0.51	0.03	-0.51	
17230.00	90.220	340.850	6802.47	9277.36	8592.35	-3549.04	1687899.25	14372576.75	39°34'42.2509"N	80°49'53.3511"W	9296.46	337.557	0.19	0.04	0.19	
17325.00	89.820	340.870	6802.44	9372.36	8682.10	-3580.19	1687868.11	14372666.46	39°34'43.1385"N	80°49'53.7468"W	9391.30	337.590	0.42	-0.42	0.02	
17419.00	90.000	340.760	6802.59	9466.36	8770.87	-3611.08	1687837.23	14372755.20	39°34'44.0165"N	80°49'54.1392"W	9485.15	337.622	0.22	0.19	-0.12	
17514.00	90.120	340.760	6802.49	9561.35	8860.57	-3642.38	1687805.94	14372844.86	39°34'44.9035"N	80°49'54.5368"W	9580.01	337.654	0.13	0.13	0.00	
17608.00	89.850	340.540	6802.51	9655.35	8949.26	-3673.53	1687774.81	14372933.52	39°34'45.7806"N	80°49'54.9325"W	9673.88	337.683	0.37	-0.29	-0.23	
17703.00	90.060	340.760	6802.59	9750.34	9038.89	-3705.00	1687743.34	14373023.12	39°34'46.6671"N	80°49'55.3323"W	9768.76	337.711	0.32	0.22	0.23	
17797.00	90.060	341.130	6802.49	9844.34	9127.74	-3735.69	1687712.67	14373111.93	39°34'47.5458"N	80°49'55.7221"W	9862.61	337.742	0.39	0.00	0.39	
17892.00	89.750	340.950	6802.65	9939.34	9217.59	-3766.56	1687681.81	14373201.74	39°34'48.4343"N	80°49'56.1142"W	9957.45	337.774	0.38	-0.33	-0.19	
18081.00	89.780	340.590	6803.42	10128.33	9396.04	-3828.81	1687619.59	14373380.12	39°34'50.1991"N	80°49'56.9050"W	10146.20	337.830	0.19	0.02	-0.19	
18175.00	90.090	341.060	6803.53	10222.33	9484.82	-3859.68	1687588.73	14373468.87	39°34'51.0772"N	80°49'57.2972"W	10240.07	337.857	0.60	0.33	0.50	
18270.00	90.430	341.160	6803.10	10317.33	9574.71	-3890.44	1687557.98	14373558.72	39°34'51.9661"N	80°49'57.6878"W	10334.92	337.887	0.37	0.36	0.11	
18365.00	89.910	340.980	6802.81	10412.33	9664.57	-3921.26	1687527.18	14373648.54	39°34'52.8547"N	80°49'58.0793"W	10429.77	337.916	0.58	-0.55	-0.19	
18459.00	90.340	341.110	6802.61	10506.33	9753.47	-3951.79	1687496.66	14373737.41	39°34'53.7339"N	80°49'58.4672"W	10523.63	337.944	0.48	0.46	0.14	
18554.00	89.820	340.620	6802.48	10601.32	9843.22	-3982.93	1687465.53	14373827.12	39°34'54.6215"N	80°49'58.8627"W	10618.51	337.970	0.75	-0.55	-0.52	
18648.00	90.000	340.980	6802.62	10695.32	9931.99	-4013.84	1687434.63	14373915.86	39°34'55.4994"N	80°49'59.2555"W	10712.39	337.995	0.43	0.19	0.38	
18743.00	89.970	340.690	6802.65	10790.32	10021.73	-4045.03	1687403.45	14374005.56	39°34'56.3869"N	80°49'59.6516"W	10807.28	338.020	0.31	-0.03	-0.31	
18837.00	90.400	341.440	6802.35	10884.32	10110.64	-4075.53	1687372.96	14374094.43	39°34'57.2662"N	80°50'0.0391"W	10901.15	338.046	0.92	0.46	0.80	
18932.00	90.340	341.390	6801.73	10979.31	10200.68	-4105.81	1687342.70	14374184.44	39°34'58.1567"N	80°50'0.4237"W	10995.98	338.075	0.08	-0.06	-0.05	
19026.00	90.060	340.990	6801.40	11073.31	10289.66	-4136.12	1687312.40	14374273.39	39°34'59.0366"N	80°50'0.8087"W	11089.84	338.101	0.52	-0.30	-0.43	
19121.00	90.150	341.560	6801.23	11168.31	10379.63	-4166.62	1687281.92	14374363.32	39°34'59.9264"N	80°50'1.1960"W	11184.70	338.128	0.61	0.09	0.60	
19216.00	89.750	341.020	6801.31	11263.31	10469.61	-4197.09	1687251.45	14374453.26	39°35'0.8162"N	80°50'1.5831"W	11279.55	338.155	0.71	-0.42	-0.57	
19310.00	90.180	340.720	6801.37	11357.31	10558.42	-4227.90	1687220.66	14374542.04	39°35'1.6945"N	80°50'1.9745"W	11373.45	338.177	0.56	0.46	-0.32	

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tulo Unit 1H
Field	Wetzel	API	47-103-03602-0000
Facility	Big Run Pad	Wellbore	Tulo Unit 1H AWB
Slot	Slot B		

### WELLPATH DATA (294 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
19405.00	89.910	342.310	6801.30	11452.31	10648.52	-4258.01	1687190.55	14374632.10	39°35'2.5855"N	80°50'2.3570"W	11468.29	338.205	1.70	-0.28	1.67	
19499.00	90.120	341.630	6801.27	11546.30	10737.90	-4287.11	1687161.47	14374721.44	39°35'3.4694"N	80°50'2.7265"W	11562.08	338.236	0.76	0.22	-0.72	
19594.00	90.150	342.300	6801.05	11641.29	10828.23	-4316.52	1687132.07	14374811.74	39°35'4.3627"N	80°50'3.1001"W	11656.88	338.266	0.71	0.03	0.71	
19688.00	89.780	341.810	6801.10	11735.28	10917.66	-4345.48	1687103.12	14374901.13	39°35'5.2470"N	80°50'3.4679"W	11750.68	338.296	0.65	-0.39	-0.52	
19783.00	89.880	341.520	6801.39	11830.28	11007.83	-4375.37	1687073.25	14374991.27	39°35'6.1388"N	80°50'3.8474"W	11845.52	338.323	0.32	0.11	-0.31	
19877.00	89.880	341.920	6801.58	11924.27	11097.09	-4404.85	1687043.78	14375080.49	39°35'7.0215"N	80°50'4.2219"W	11939.35	338.350	0.43	0.00	0.43	
19972.00	90.000	342.250	6801.68	12019.26	11187.48	-4434.07	1687014.57	14375170.85	39°35'7.9154"N	80°50'4.5930"W	12034.15	338.379	0.37	0.13	0.35	
20067.00	89.720	341.900	6801.92	12114.25	11277.87	-4463.31	1686985.34	14375261.20	39°35'8.8093"N	80°50'4.9643"W	12128.95	338.408	0.47	-0.29	-0.37	
20161.00	89.970	341.870	6802.17	12208.24	11367.21	-4492.54	1686956.13	14375350.51	39°35'9.6928"N	80°50'5.3355"W	12222.78	338.435	0.27	0.27	-0.03	
20255.00	89.750	341.730	6802.40	12302.24	11456.51	-4521.90	1686926.78	14375439.77	39°35'10.5758"N	80°50'5.7084"W	12316.62	338.461	0.28	-0.23	-0.15	
20350.00	90.000	342.770	6802.61	12397.22	11546.99	-4550.86	1686897.83	14375530.21	39°35'11.4706"N	80°50'6.0762"W	12411.41	338.490	1.13	0.26	1.09	
20445.00	89.910	341.600	6802.68	12492.21	11637.43	-4579.92	1686868.77	14375620.62	39°35'12.3649"N	80°50'6.4453"W	12506.22	338.518	1.24	-0.09	-1.23	
20634.00	90.060	342.200	6802.73	12681.19	11817.08	-4638.64	1686810.08	14375800.19	39°35'14.1415"N	80°50'7.1911"W	12694.89	338.568	0.33	0.08	0.32	
20728.00	90.060	342.130	6802.63	12775.18	11906.56	-4667.43	1686781.30	14375889.64	39°35'15.0264"N	80°50'7.5567"W	12788.71	338.595	0.07	0.00	-0.07	
20823.00	90.120	342.100	6802.48	12870.17	11996.97	-4696.61	1686752.14	14375980.01	39°35'15.9204"N	80°50'7.9273"W	12883.53	338.621	0.07	0.06	-0.03	
20917.00	89.780	341.980	6802.57	12964.16	12086.39	-4725.59	1686723.17	14376069.39	39°35'16.8047"N	80°50'8.2954"W	12977.36	338.645	0.38	-0.36	-0.13	
21011.00	90.060	342.000	6802.70	13058.15	12175.78	-4754.65	1686694.11	14376158.75	39°35'17.6887"N	80°50'8.6645"W	13071.20	338.669	0.30	0.30	0.02	
21105.00	90.180	342.620	6802.50	13152.13	12265.33	-4783.22	1686665.56	14376248.27	39°35'18.5743"N	80°50'9.0273"W	13165.01	338.695	0.67	0.13	0.66	
21199.00	89.880	341.760	6802.45	13246.12	12354.83	-4811.97	1686636.82	14376337.73	39°35'19.4593"N	80°50'9.3924"W	13258.84	338.720	0.97	-0.32	-0.91	
21293.00	90.150	341.970	6802.43	13340.11	12444.16	-4841.23	1686607.58	14376427.02	39°35'20.3427"N	80°50'9.7641"W	13352.70	338.742	0.36	0.29	0.22	
21388.00	90.030	341.900	6802.28	13435.11	12534.48	-4870.68	1686578.13	14376517.30	39°35'21.2359"N	80°50'10.1383"W	13447.55	338.765	0.15	-0.13	-0.07	
21481.00	90.090	342.190	6802.18	13528.10	12622.95	-4899.35	1686549.47	14376605.74	39°35'22.1108"N	80°50'10.5024"W	13540.40	338.787	0.32	0.06	0.31	
21576.00	89.660	341.480	6802.39	13623.09	12713.21	-4928.97	1686519.87	14376695.97	39°35'23.0034"N	80°50'10.8786"W	13635.27	338.808	0.87	-0.45	-0.75	
21670.00	89.880	341.940	6802.76	13717.09	12802.46	-4958.47	1686490.38	14376785.18	39°35'23.8860"N	80°50'11.2533"W	13729.15	338.828	0.54	0.23	0.49	
21765.00	89.780	341.790	6803.05	13812.08	12892.74	-4988.04	1686460.82	14376875.43	39°35'24.7788"N	80°50'11.6289"W	13824.01	338.849	0.19	-0.11	-0.16	
21953.00	90.000	342.790	6803.41	14000.04	13071.83	-5045.23	1686403.66	14377054.44	39°35'26.5498"N	80°50'12.3552"W	14011.68	338.895	0.54	0.12	0.53	
22047.00	89.850	342.700	6803.53	14094.01	13161.60	-5073.11	1686375.78	14377144.18	39°35'27.4375"N	80°50'12.7093"W	14105.46	338.921	0.19	-0.16	-0.10	
22141.00	89.820	342.680	6803.80	14187.98	13251.34	-5101.08	1686347.83	14377233.88	39°35'28.3250"N	80°50'13.0645"W	14199.26	338.946	0.04	-0.03	-0.02	
22236.00	89.850	341.850	6804.07	14282.96	13341.83	-5130.02	1686318.90	14377324.33	39°35'29.2197"N	80°50'13.4320"W	14294.10	338.968	0.87	0.03	-0.87	
22330.00	89.660	341.990	6804.48	14376.96	13431.18	-5159.19	1686289.74	14377413.65	39°35'30.1034"N	80°50'13.8026"W	14387.98	338.987	0.25	-0.20	0.15	

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tulo Unit 1H
Field	Wetzel	API	47-103-03602-0000
Facility	Big Run Pad	Wellbore	Tulo Unit 1H AWB
Slot	Slot B		

### WELLPATH DATA (294 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
25444.00	90.310	341.030	6792.41	17490.89	16378.79	-6163.28	1685286.05	14380360.09	39°35'59.2529"N	80°50'26.5616"W	17500.02	339.379	0.17	0.00	0.17	
25632.00	90.340	340.190	6791.34	17678.87	16556.12	-6225.69	1685223.66	14380537.35	39°36'1.0066"N	80°50'27.3550"W	17687.98	339.392	0.45	0.02	-0.45	
25727.00	90.250	337.810	6790.85	17773.79	16644.81	-6259.73	1685189.63	14380625.99	39°36'1.8837"N	80°50'27.7879"W	17782.96	339.390	2.51	-0.09	-2.51	
25821.00	90.400	340.950	6790.32	17867.73	16732.77	-6292.83	1685156.55	14380713.93	39°36'2.7537"N	80°50'28.2087"W	17876.95	339.390	3.34	0.16	3.34	
25915.00	90.340	340.920	6789.71	17961.73	16821.61	-6323.54	1685125.86	14380802.73	39°36'3.6322"N	80°50'28.5990"W	17970.92	339.398	0.07	-0.06	-0.03	
26009.00	90.250	340.980	6789.23	18055.73	16910.46	-6354.22	1685095.19	14380891.55	39°36'4.5109"N	80°50'28.9889"W	18064.88	339.406	0.12	-0.10	0.06	
26104.00	90.280	341.180	6788.79	18150.73	17000.33	-6385.02	1685064.40	14380981.38	39°36'5.3996"N	80°50'29.3804"W	18159.84	339.415	0.21	0.03	0.21	
26199.00	90.220	341.050	6788.37	18245.72	17090.22	-6415.77	1685033.66	14381071.23	39°36'6.2885"N	80°50'29.7712"W	18254.80	339.424	0.15	-0.06	-0.14	
26293.00	90.250	341.070	6787.99	18339.72	17179.13	-6446.28	1685003.16	14381160.10	39°36'7.1677"N	80°50'30.1590"W	18348.76	339.432	0.04	0.03	0.02	
26387.00	90.250	341.070	6787.58	18433.72	17268.04	-6476.77	1684972.68	14381248.98	39°36'8.0470"N	80°50'30.5466"W	18442.72	339.440	0.00	0.00	0.00	
26482.00	90.170	342.090	6787.23	18528.72	17358.17	-6506.79	1684942.68	14381339.08	39°36'8.9383"N	80°50'30.9280"W	18537.65	339.451	1.08	-0.08	1.07	
26576.00	90.370	341.080	6786.79	18622.71	17447.36	-6536.48	1684912.99	14381428.23	39°36'9.8203"N	80°50'31.3054"W	18631.58	339.462	1.10	0.21	-1.07	
26671.00	90.250	340.990	6786.27	18717.71	17537.20	-6567.36	1684882.13	14381518.03	39°36'10.7087"N	80°50'31.6978"W	18726.55	339.470	0.16	-0.13	-0.09	
26766.00	90.220	341.070	6785.88	18812.71	17627.04	-6598.24	1684851.26	14381607.83	39°36'11.5972"N	80°50'32.0903"W	18821.51	339.478	0.09	-0.03	0.08	
26860.00	90.370	341.130	6785.40	18906.71	17715.97	-6628.69	1684820.83	14381696.73	39°36'12.4766"N	80°50'32.4773"W	18915.47	339.486	0.17	0.16	0.06	
26954.00	90.220	341.050	6784.91	19000.71	17804.89	-6659.15	1684790.38	14381785.62	39°36'13.3560"N	80°50'32.8645"W	19009.43	339.494	0.18	-0.16	-0.09	
27049.00	90.310	341.310	6784.47	19095.71	17894.81	-6689.80	1684759.74	14381875.50	39°36'14.2452"N	80°50'33.2540"W	19104.39	339.502	0.29	0.09	0.27	
27143.00	90.400	341.170	6783.89	19189.70	17983.82	-6720.03	1684729.52	14381964.47	39°36'15.1254"N	80°50'33.6382"W	19198.35	339.511	0.18	0.10	-0.15	
27237.00	90.120	340.960	6783.47	19283.70	18072.73	-6750.53	1684699.03	14382053.35	39°36'16.0047"N	80°50'34.0259"W	19292.31	339.518	0.37	-0.30	-0.22	
27332.00	90.430	341.110	6783.01	19378.70	18162.57	-6781.40	1684668.17	14382143.16	39°36'16.8931"N	80°50'34.4184"W	19387.28	339.526	0.36	0.33	0.16	
27426.00	90.620	341.090	6782.15	19472.70	18251.50	-6811.85	1684637.74	14382232.05	39°36'17.7725"N	80°50'34.8054"W	19481.24	339.533	0.20	0.20	-0.02	
27520.00	90.620	341.060	6781.13	19566.69	18340.42	-6842.34	1684607.26	14382320.93	39°36'18.6518"N	80°50'35.1929"W	19575.20	339.541	0.03	0.00	-0.03	
27604.00	90.620	341.220	6780.22	19650.69	18419.90	-6869.49	1684580.12	14382400.38	39°36'19.4379"N	80°50'35.5380"W	19659.16	339.548	0.19	0.00	0.19	
27629.00‡	90.620	341.220	6779.95	19675.68	18443.57	-6877.54	1684572.08	14382424.04	39°36'19.6719"N	80°50'35.6403"W	19684.15	339.550	0.00	0.00	0.00	Projected MD at TD: 27629'

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tulo Unit 1H
Field	Wetzel	API	47-103-03602-0000
Facility	Big Run Pad	Wellbore	Tulo Unit 1H AWB
Slot	Slot B		

### HOLE & CASING SECTIONS - Ref Wellbore: Tulo Unit 1H AWB Ref Wellpath: Tulo Unit 1H AWP Proj: 27629'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.04	-0.63
17.5in Open Hole	130.00	381.00	251.00	130.00	380.99	-0.04	-0.63	-0.30	-0.30
13.375in Casing Surface	30.00	361.00	331.00	30.00	360.99	0.00	0.00	-0.19	-0.57
12.25in Open Hole	381.00	3535.00	3154.00	380.99	3428.06	-0.30	-0.30	-771.40	-5.76
9.625in Casing Intermediate	30.00	3505.00	3475.00	30.00	3399.18	0.00	0.00	-763.27	-6.17
8.75in Open Hole	3535.00	5501.00	1966.00	3428.06	5287.84	-771.40	-5.76	-1402.26	-44.46
8.5in Open Hole	5501.00	27629.00	22128.00	5287.84	6779.95	-1402.26	-44.46	18443.57	-6877.54
5.5in Casing Production	30.00	27609.00	27579.00	30.00	6780.17	0.00	0.00	18424.63	-6871.10

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tulo Unit 1H
Field	Wetzel	API	47-103-03602-0000
Facility	Big Run Pad	Wellbore	Tulo Unit 1H AWB
Slot	Slot B		

### TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Tulo Unit 1H BHL Rev-4	6708.13	18401.49	-6870.26	1684579.35	14382381.98	39°36'19.2559"N	80°50'35.5483"W	point
Tulo Unit 1H POE Rev-2	6785.00	-1014.14	-271.95	1691175.03	14362974.09	39°33'7.2449"N	80°49'11.7447"W	point
Tulo Unit 1H POE Rev-4	6820.00	-760.08	-358.29	1691088.72	14363228.06	39°33'9.7577"N	80°49'12.8405"W	point
Tulo Unit 1H LP Rev-4	6848.00	-567.53	-423.73	1691023.31	14363420.53	39°33'11.6619"N	80°49'13.6710"W	point
Tulo Unit 1H 50' L/R Hard Line	7000.00	8693.67	-3571.11	1687877.19	14372678.04	39°34'43.2527"N	80°49'53.6305"W	rectangle
2D Rectangle 20506.2 x 100.								

### WELLPATH COMPOSITION - Ref Wellbore: Tulo Unit 1H AWB Ref Wellpath: Tulo Unit 1H AWP Proj: 27629'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	380.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-380')		
380.00	3461.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (380')(501'-3461')	Tulo Unit 1H AWB	10/18/2023
3461.00	5429.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3461')(3587'-5429')	Tulo Unit 1H AWB	10/18/2023
5429.00	27629.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5429')(5514'-27604')	Tulo Unit 1H AWB	11/2/2023

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# Actual Wellpath Report

Tulo Unit 1H AWP Proj: 27629'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION		
Field	Wetzel	Well	Tulo Unit 1H
Facility	Big Run Pad	API	47-103-03602-0000
Slot	Slot B	Wellbore	Tulo Unit 1H AWB

## COMMENTS

Wellpath general comments  
 API: 47-103-03602-0000  
 BH Job #: 111994417  
 Rig: H&P 531  
 Duration: 11/6/2023-11/13/2023  
 Gyrodata MS Gyro <17-1/2"> (100'-380')  
 APS EM <12-1/4"> (380')(501'-3461')  
 APS EM <8-3/4"> (3461')(3587'-5429')  
 BH AT Curve <8-1/2"> (5429')(5514'-27604')  
 Sycamore: 6841' MD  
 Middlesex: 6993' MD  
 Burkett: 7156' MD  
 Tully: 7196' MD  
 Marcellus POE: 7376' MD  
 Projected MD at TD: 27629'

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