



ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV
Field: Ritchie
Facility: Jackson Pad

Slot: Slot A
Well: Maul Unit 1H
Wellbore: Maul Unit 1H PWB

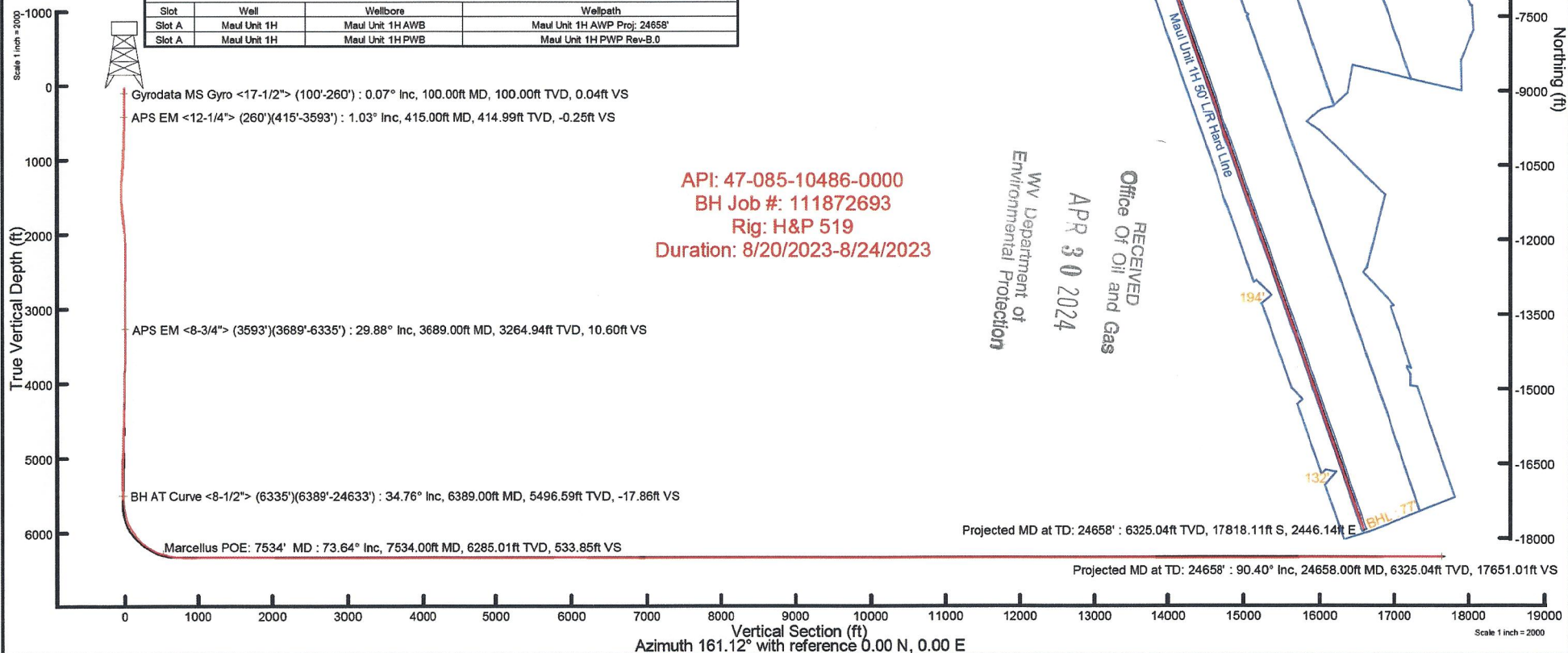


Plot reference wellpath is Maul Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1055 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot A): -1035 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-09-05; Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Jackson Pad	1645046.400	14267246.330	39°17'21.2374"N	80°59'1.0934"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot A	44.97	-1.37	1645045.030	14267291.280	39°17'21.6819"N
Comment: Maul Unit 1H					
H&P 519 (RKB) to Ground level (At Slot: Slot A)			30ft		
Mean Sea Level to Ground level (At Slot: Slot A)			-1035ft		
H&P 519 (RKB) to Mean Sea Level			1065ft		

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3593.00	30.380	248.920	3181.91	-478.39	-1373.81	1.10	8.11
Proj. to Bottom	3863.00	30.380	248.920	3242.30	-491.13	-1406.84	0.00	9.47
Drill Out	3743.00	30.380	248.920	3311.32	-505.68	-1444.59	0.00	11.02
End of 3D Arc	3894.48	34.523	252.404	3439.11	-532.44	-1521.28	3.00	11.53
Curve KOP	6584.69	34.523	252.404	5655.58	-993.35	-2974.60	0.00	-22.64
POE	7521.70	70.761	161.118	6289.00	-1578.03	-3103.48	8.00	488.89
Landing Pt.	7752.19	90.000	161.118	6329.00	-1801.33	-3027.10	8.00	724.89
BHL	24714.89	90.000	161.118	6329.00	-17841.71	2459.28	0.00	17677.58

Well Data			
Slot	Well	Wellbore	Wellpath
Slot A	Maul Unit 1H	Maul Unit 1H AWP	Maul Unit 1H AWP Proj: 24658'
Slot A	Maul Unit 1H	Maul Unit 1H PWB	Maul Unit 1H PWP Rev-B.0





Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	9/5/2023 at 5:04:33 PM
Convergence at slot	0.01° 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	44.97	-1.37	1645045.03	14267291.28	39°17'21.6819"N	80°59'1.1107"W
Facility Reference Pt			1645046.40	14267246.33	39°17'21.2374"N	80°59'1.0934"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1065.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1065.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot A)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.12°

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Maul Unit 1H AWP Proj: 24658'

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Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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	129.200	0.00	0.00	0.00	0.00	1645045.03	14267291.28	39°17'21.6819"N	80°59'1.1107"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	129.200	30.00	0.00	0.00	0.00	1645045.03	14267291.28	39°17'21.6819"N	80°59'1.1107"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.070	129.200	100.00	0.04	-0.03	0.03	1645045.06	14267291.25	39°17'21.6816"N	80°59'1.1103"W	0.04	129.200	0.10	0.10	0.00	Gyrodata MS Gyro <17-1/2"> (100'-260')
200.00	0.110	311.650	200.00	0.00	0.00	0.01	1645045.04	14267291.28	39°17'21.6819"N	80°59'1.1106"W	0.01	101.875	0.18	0.04	-177.55	
260.00	0.120	337.230	260.00	-0.11	0.09	-0.06	1645044.97	14267291.37	39°17'21.6828"N	80°59'1.1115"W	0.11	328.159	0.09	0.02	42.63	
415.00	1.030	250.390	414.99	-0.25	-0.22	-1.43	1645043.60	14267291.06	39°17'21.6797"N	80°59'1.1290"W	1.45	261.139	0.66	0.59	-56.03	APS EM <12-1/4"> (260')(415'-3593')
505.00	2.850	254.290	504.94	-0.37	-1.10	-4.35	1645040.68	14267290.18	39°17'21.6710"N	80°59'1.1661"W	4.49	255.797	2.03	2.02	4.33	
593.00	4.860	260.370	592.73	-1.09	-2.32	-10.13	1645034.90	14267288.96	39°17'21.6590"N	80°59'1.2396"W	10.39	257.119	2.33	2.28	6.91	
683.00	7.680	258.640	682.19	-2.49	-4.14	-19.79	1645025.25	14267287.14	39°17'21.6410"N	80°59'1.3624"W	20.22	258.184	3.14	3.13	-1.92	
773.00	9.950	261.980	771.12	-4.74	-6.41	-33.39	1645011.66	14267284.87	39°17'21.6186"N	80°59'1.5354"W	34.00	259.133	2.58	2.52	3.71	
862.00	12.550	261.930	858.40	-8.00	-8.84	-50.58	1644994.47	14267282.44	39°17'21.5946"N	80°59'1.7540"W	51.34	260.086	2.92	2.92	-0.06	
951.00	15.630	261.240	944.71	-11.92	-12.02	-72.00	1644973.05	14267279.26	39°17'21.5632"N	80°59'2.0266"W	73.00	260.520	3.47	3.46	-0.78	
1042.00	18.930	260.350	1031.59	-16.45	-16.37	-98.68	1644946.39	14267274.92	39°17'21.5203"N	80°59'2.3658"W	100.03	260.583	3.64	3.63	-0.98	
1136.00	22.160	261.790	1119.60	-22.18	-21.46	-131.27	1644913.82	14267269.83	39°17'21.4701"N	80°59'2.7803"W	133.01	260.717	3.48	3.44	1.53	
1230.00	25.120	261.000	1205.71	-28.88	-27.11	-168.53	1644876.57	14267264.18	39°17'21.4142"N	80°59'3.2542"W	170.69	260.862	3.17	3.15	-0.84	
1325.00	28.290	259.240	1290.56	-35.52	-34.47	-210.57	1644834.54	14267256.82	39°17'21.3416"N	80°59'3.7890"W	213.37	260.704	3.44	3.34	-1.85	
1420.00	30.990	254.220	1373.14	-40.03	-45.33	-256.24	1644788.89	14267245.97	39°17'21.2343"N	80°59'4.3698"W	260.22	259.969	3.86	2.84	-5.28	
1514.00	32.810	249.990	1452.95	-40.83	-60.63	-303.47	1644741.69	14267230.68	39°17'21.0832"N	80°59'4.9705"W	309.46	258.702	3.07	1.94	-4.50	
1608.00	35.590	246.550	1530.69	-38.15	-80.23	-352.50	1644692.67	14267211.08	39°17'20.8895"N	80°59'5.5942"W	361.52	257.178	3.60	2.96	-3.66	
1702.00	36.230	244.290	1606.83	-32.67	-103.17	-402.63	1644642.56	14267188.15	39°17'20.6629"N	80°59'6.2318"W	415.64	255.628	1.57	0.68	-2.40	
1797.00	36.910	244.100	1683.13	-25.84	-127.81	-453.59	1644591.63	14267163.52	39°17'20.4194"N	80°59'6.8799"W	471.25	254.264	0.73	0.72	-0.20	
1892.00	37.450	243.040	1758.82	-18.30	-153.36	-504.99	1644540.24	14267137.98	39°17'20.1669"N	80°59'7.5338"W	527.77	253.107	0.88	0.57	-1.12	
1986.00	37.570	242.660	1833.38	-10.06	-179.48	-555.92	1644489.33	14267111.87	39°17'19.9089"N	80°59'8.1816"W	584.18	252.107	0.28	0.13	-0.40	
2081.00	37.470	242.660	1908.73	-1.55	-206.05	-607.32	1644437.96	14267085.31	39°17'19.6463"N	80°59'8.8353"W	641.32	251.259	0.11	-0.11	0.00	
2176.00	36.820	245.190	1984.46	5.64	-231.27	-658.83	1644386.47	14267060.10	39°17'19.3972"N	80°59'9.4905"W	698.24	250.657	1.75	-0.68	2.66	
2270.00	35.790	246.620	2060.21	10.71	-254.00	-709.63	1644335.69	14267037.38	39°17'19.1726"N	80°59'10.1366"W	753.72	250.306	1.42	-1.10	1.52	
2365.00	33.290	250.540	2138.47	13.15	-273.71	-759.72	1644285.61	14267017.68	39°17'18.9778"N	80°59'10.7738"W	807.53	250.187	3.52	-2.63	4.13	
2459.00	32.100	251.250	2217.58	13.36	-290.34	-807.70	1644237.66	14267001.06	39°17'18.8136"N	80°59'11.3840"W	858.30	250.228	1.33	-1.27	0.76	
2544.00	31.990	251.320	2289.63	13.23	-304.81	-850.41	1644194.96	14266986.59	39°17'18.6706"N	80°59'11.9273"W	903.39	250.281	0.14	-0.13	0.08	
2648.00	32.120	250.490	2377.77	13.43	-322.87	-902.57	1644142.82	14266968.54	39°17'18.4922"N	80°59'12.5907"W	958.58	250.317	0.44	0.13	-0.80	

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Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'

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Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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
2743.00	32.020	251.540	2458.27	13.53	-339.27	-950.27	1644095.14	14266952.14	39°17'18.3301"N	80°59'13.1973"W	1009.02	250.352	0.60	-0.11	1.11	
2837.00	31.580	251.330	2538.16	13.25	-355.04	-997.22	1644048.21	14266936.38	39°17'18.1743"N	80°59'13.7945"W	1058.54	250.403	0.48	-0.47	-0.22	
2932.00	31.650	253.350	2619.07	12.19	-370.15	-1044.67	1644000.78	14266921.28	39°17'18.0251"N	80°59'14.3980"W	1108.31	250.490	1.12	0.07	2.13	
3026.00	31.720	252.550	2699.06	10.62	-384.63	-1091.87	1643953.60	14266906.81	39°17'17.8821"N	80°59'14.9983"W	1157.64	250.595	0.45	0.07	-0.85	
3121.00	31.180	251.840	2780.10	9.68	-399.78	-1139.07	1643906.42	14266891.66	39°17'17.7324"N	80°59'15.5986"W	1207.18	250.660	0.69	-0.57	-0.75	
3215.00	31.930	252.240	2860.20	8.89	-414.95	-1185.86	1643859.65	14266876.50	39°17'17.5825"N	80°59'16.1937"W	1256.36	250.714	0.83	0.80	0.43	
3310.00	32.480	252.810	2940.58	7.65	-430.15	-1234.15	1643811.37	14266861.30	39°17'17.4323"N	80°59'16.8080"W	1306.97	250.785	0.66	0.58	0.60	
3404.00	31.870	251.620	3020.15	6.69	-445.43	-1281.82	1643763.73	14266846.03	39°17'17.2813"N	80°59'17.4142"W	1357.01	250.838	0.94	-0.65	-1.27	
3499.00	31.150	250.270	3101.14	6.83	-461.64	-1328.75	1643716.82	14266829.83	39°17'17.1212"N	80°59'18.0111"W	1406.65	250.842	1.06	-0.76	-1.42	
3593.00	30.380	248.920	3181.91	8.11	-478.39	-1373.81	1643671.77	14266813.08	39°17'16.9557"N	80°59'18.5843"W	1454.72	250.801	1.10	-0.82	-1.44	
3689.00	29.880	247.370	3264.94	10.60	-496.33	-1418.53	1643627.07	14266795.15	39°17'16.7785"N	80°59'19.1531"W	1502.86	250.716	0.96	-0.52	-1.61	APS EM <8-3/4"> (3593')(3689'-6335')
3785.00	31.360	246.480	3347.56	14.19	-515.50	-1463.51	1643582.10	14266775.99	39°17'16.5891"N	80°59'19.7252"W	1551.65	250.596	1.61	1.54	-0.93	
3879.00	35.380	250.960	3426.05	16.24	-534.15	-1511.69	1643533.95	14266757.35	39°17'16.4048"N	80°59'20.3379"W	1603.29	250.539	5.01	4.28	4.77	
3974.00	36.210	250.610	3503.11	16.57	-552.43	-1564.16	1643481.50	14266739.07	39°17'16.2241"N	80°59'21.0053"W	1658.85	250.548	0.90	0.87	-0.37	
4069.00	36.420	252.010	3579.66	16.38	-570.46	-1617.45	1643428.23	14266721.05	39°17'16.0460"N	80°59'21.6831"W	1715.10	250.573	0.90	0.22	1.47	
4163.00	36.380	253.810	3655.32	14.64	-586.85	-1670.76	1643374.94	14266704.66	39°17'15.8841"N	80°59'22.3611"W	1770.83	250.646	1.14	-0.04	1.91	
4258.00	36.510	253.740	3731.74	12.03	-602.62	-1724.95	1643320.77	14266688.90	39°17'15.7283"N	80°59'23.0503"W	1827.19	250.743	0.14	0.14	-0.07	
4352.00	35.600	256.760	3807.74	8.06	-616.72	-1778.43	1643267.31	14266674.81	39°17'15.5890"N	80°59'23.7305"W	1882.33	250.875	2.12	-0.97	3.21	
4447.00	34.670	253.300	3885.44	4.31	-630.82	-1831.24	1643214.53	14266660.72	39°17'15.4497"N	80°59'24.4021"W	1936.84	250.992	2.31	-0.98	-3.64	
4541.00	34.310	250.330	3962.92	3.66	-647.42	-1881.80	1643163.99	14266644.12	39°17'15.2857"N	80°59'25.0451"W	1990.05	251.015	1.83	-0.38	-3.16	
4636.00	33.920	252.130	4041.58	3.56	-664.57	-1932.24	1643113.57	14266626.98	39°17'15.1162"N	80°59'25.6867"W	2043.33	251.020	1.14	-0.41	1.89	
4730.00	33.250	252.520	4119.88	2.47	-680.35	-1981.78	1643064.05	14266611.20	39°17'14.9602"N	80°59'26.3168"W	2095.31	251.052	0.75	-0.71	0.41	
4824.00	32.400	250.440	4198.88	2.14	-696.53	-2030.09	1643015.75	14266595.03	39°17'14.8004"N	80°59'26.9313"W	2146.26	251.063	1.50	-0.90	-2.21	
4919.00	34.290	254.160	4278.24	1.02	-712.36	-2079.83	1642966.04	14266579.21	39°17'14.6440"N	80°59'27.5638"W	2198.44	251.093	2.93	1.99	3.92	
5013.00	33.640	253.670	4356.20	-1.54	-726.90	-2130.29	1642915.60	14266564.67	39°17'14.5003"N	80°59'28.2056"W	2250.89	251.159	0.75	-0.69	-0.52	
5108.00	32.970	252.200	4435.60	-3.20	-742.20	-2180.16	1642865.75	14266549.37	39°17'14.3491"N	80°59'28.8398"W	2303.03	251.200	1.10	-0.71	-1.55	
5202.00	34.190	254.610	4513.92	-5.29	-757.03	-2229.98	1642815.95	14266534.55	39°17'14.2026"N	80°59'29.4735"W	2354.97	251.249	1.92	1.30	2.56	
5297.00	34.750	254.130	4592.24	-8.33	-771.52	-2281.76	1642764.19	14266520.07	39°17'14.0595"N	80°59'30.1320"W	2408.66	251.318	0.66	0.59	-0.51	
5391.00	35.370	253.690	4669.18	-10.96	-786.49	-2333.64	1642712.33	14266505.11	39°17'13.9116"N	80°59'30.7919"W	2462.60	251.375	0.71	0.66	-0.47	
5486.00	33.810	251.840	4747.39	-12.53	-802.45	-2385.14	1642660.84	14266489.15	39°17'13.7539"N	80°59'31.4470"W	2516.51	251.405	1.98	-1.64	-1.95	

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Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

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5580.00	32.650	250.090	4826.02	-12.40	-819.24	-2433.84	1642612.17	14266472.37	39°17'13.5880"N	80°59'32.0663"W	2568.02	251.397	1.60	-1.23	-1.86	
5676.00	34.680	255.900	4905.93	-14.21	-834.71	-2484.69	1642561.33	14266456.90	39°17'13.4350"N	80°59'32.7131"W	2621.16	251.431	3.96	2.11	6.05	
5771.00	35.120	257.210	4983.85	-19.36	-847.35	-2537.56	1642508.49	14266444.27	39°17'13.3102"N	80°59'33.3854"W	2675.29	251.535	0.91	0.46	1.38	
5866.00	32.960	253.260	5062.58	-23.23	-860.84	-2588.96	1642457.11	14266430.78	39°17'13.1769"N	80°59'34.0392"W	2728.33	251.608	3.25	-2.27	-4.16	
5960.00	32.070	251.410	5141.84	-24.31	-876.17	-2637.11	1642408.98	14266415.47	39°17'13.0255"N	80°59'34.6515"W	2778.85	251.621	1.42	-0.95	-1.97	
6054.00	35.250	252.160	5220.07	-24.93	-892.44	-2686.59	1642359.52	14266399.20	39°17'12.8647"N	80°59'35.2809"W	2830.94	251.624	3.41	3.38	0.80	
6149.00	35.780	251.480	5297.40	-25.60	-909.66	-2739.02	1642307.11	14266381.99	39°17'12.6945"N	80°59'35.9477"W	2886.13	251.628	0.70	0.56	-0.72	
6243.00	33.460	247.940	5374.76	-24.33	-928.12	-2789.11	1642257.04	14266363.53	39°17'12.5121"N	80°59'36.5847"W	2939.48	251.594	3.27	-2.47	-3.77	
6335.00	32.940	245.300	5451.74	-20.39	-948.10	-2835.34	1642210.83	14266343.56	39°17'12.3146"N	80°59'37.1727"W	2989.66	251.511	1.67	-0.57	-2.87	
6389.00	34.760	247.250	5496.59	-17.86	-960.19	-2862.88	1642183.30	14266331.48	39°17'12.1952"N	80°59'37.5230"W	3019.61	251.459	3.92	3.37	3.61	BH AT Curve <8-1/2"> (6335')-(6389'-24633')
6455.00	34.770	245.720	5550.81	-14.82	-975.20	-2897.39	1642148.81	14266316.47	39°17'12.0468"N	80°59'37.9618"W	3057.10	251.398	1.32	0.02	-2.32	
6549.00	34.050	239.170	5628.39	-6.85	-999.72	-2944.43	1642101.78	14266291.96	39°17'11.8045"N	80°59'38.5602"W	3109.52	251.246	4.01	-0.77	-6.97	
6643.00	34.020	235.490	5706.29	5.69	-1028.11	-2988.70	1642057.53	14266263.58	39°17'11.5240"N	80°59'39.1232"W	3160.59	251.017	2.19	-0.03	-3.91	
6738.00	35.980	228.990	5784.14	23.37	-1061.49	-3031.68	1642014.57	14266230.21	39°17'11.1940"N	80°59'39.6698"W	3212.14	250.703	4.43	2.06	-6.84	
6832.00	37.150	215.190	5859.76	50.47	-1102.88	-3068.94	1641977.33	14266188.84	39°17'10.7850"N	80°59'40.1437"W	3261.09	250.233	8.82	1.24	-14.68	
6927.00	38.610	203.230	5934.85	89.35	-1153.63	-3097.20	1641949.07	14266138.11	39°17'10.2834"N	80°59'40.5032"W	3305.07	249.571	7.87	1.54	-12.59	
7021.00	40.880	200.420	6007.13	134.92	-1209.42	-3119.51	1641926.78	14266082.34	39°17'9.7320"N	80°59'40.7869"W	3345.75	248.809	3.08	2.41	-2.99	
7091.00†	44.559	194.564	6058.57	173.17	-1254.69	-3133.68	1641912.61	14266037.09	39°17'9.2846"N	80°59'40.9673"W	3375.53	248.179	7.73	5.26	-8.37	Sycamore: 7091' MD
7116.00	45.940	192.660	6076.17	188.14	-1271.95	-3137.86	1641908.43	14266019.84	39°17'9.1140"N	80°59'41.0204"W	3385.85	247.935	7.73	5.52	-7.62	
7210.00	51.210	182.420	6138.43	251.20	-1341.65	-3146.83	1641899.47	14265950.16	39°17'8.4251"N	80°59'41.1345"W	3420.90	246.909	9.90	5.61	-10.89	
7227.00†	52.521	180.259	6148.93	263.75	-1355.02	-3147.14	1641899.16	14265936.80	39°17'8.2929"N	80°59'41.1384"W	3426.45	246.705	12.63	7.71	-12.71	Middlesex: 7227' MD
7305.00	58.980	171.250	6192.87	326.04	-1419.16	-3142.18	1641904.11	14265872.69	39°17'7.6590"N	80°59'41.0754"W	3447.80	245.694	12.63	8.28	-11.55	
7399.00	64.860	166.600	6237.11	408.15	-1500.47	-3126.17	1641920.11	14265791.42	39°17'6.8554"N	80°59'40.8719"W	3467.62	244.360	7.63	6.26	-4.95	
7429.00†	66.775	166.102	6249.40	435.40	-1527.06	-3119.71	1641926.57	14265764.83	39°17'6.5925"N	80°59'40.7898"W	3473.40	243.919	6.56	6.38	-1.66	Burkett: 7429' MD
7494.00	70.930	165.070	6272.85	495.83	-1585.76	-3104.62	1641941.66	14265706.16	39°17'6.0124"N	80°59'40.5979"W	3486.16	242.943	6.56	6.39	-1.59	
7504.00†	71.608	164.873	6276.06	505.28	-1594.91	-3102.16	1641944.11	14265697.02	39°17'5.9220"N	80°59'40.5667"W	3488.14	242.791	7.04	6.78	-1.97	Tully: 7504' MD
7534.00†	73.645	164.290	6285.01	533.85	-1622.50	-3094.55	1641951.72	14265669.43	39°17'5.6492"N	80°59'40.4699"W	3494.10	242.332	7.04	6.79	-1.94	Marcellus POE: 7534' MD
7546.00	74.460	164.060	6288.31	545.38	-1633.60	-3091.40	1641954.87	14265658.33	39°17'5.5395"N	80°59'40.4298"W	3496.49	242.146	7.04	6.79	-1.91	
7588.00	74.290	164.190	6299.62	585.77	-1672.51	-3080.34	1641965.93	14265619.44	39°17'5.1549"N	80°59'40.2892"W	3505.11	241.500	0.50	-0.40	0.31	
7682.00	80.940	162.350	6319.78	677.46	-1760.38	-3053.91	1641992.35	14265531.61	39°17'4.2865"N	80°59'39.9531"W	3524.95	240.039	7.33	7.07	-1.96	

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Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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
7777.00	87.850	161.980	6329.05	771.93	-1850.32	-3024.97	1642021.28	14265441.70	39°17'3.3974"N	80°59'39.5851"W	3546.00	238.547	7.28	7.27	-0.39	
7871.00	89.820	161.950	6330.96	865.90	-1939.68	-2995.87	1642050.36	14265352.38	39°17'2.5142"N	80°59'39.2152"W	3568.98	237.079	2.10	2.10	-0.03	
7965.00	91.200	161.900	6330.12	959.88	-2029.04	-2966.71	1642079.51	14265263.06	39°17'1.6310"N	80°59'38.8444"W	3594.21	235.630	1.47	1.47	-0.05	
8060.00	89.880	162.140	6329.23	1054.87	-2119.39	-2937.39	1642108.82	14265172.74	39°17'0.7380"N	80°59'38.4715"W	3622.16	234.189	1.41	-1.39	0.25	
8154.00	90.250	162.750	6329.12	1148.84	-2209.01	-2909.04	1642137.16	14265083.15	39°16'59.8522"N	80°59'38.1110"W	3652.70	232.788	0.76	0.39	0.65	
8249.00	90.860	160.460	6328.20	1243.83	-2299.15	-2879.06	1642167.13	14264993.05	39°16'58.9613"N	80°59'37.7299"W	3684.44	231.390	2.49	0.64	-2.41	
8343.00	90.220	157.270	6327.31	1337.74	-2386.81	-2845.17	1642201.00	14264905.43	39°16'58.0948"N	80°59'37.2990"W	3713.74	230.007	3.46	-0.68	-3.39	
8438.00	90.620	158.300	6326.62	1432.57	-2474.76	-2809.26	1642236.90	14264817.52	39°16'57.2256"N	80°59'36.8424"W	3743.84	228.622	1.16	0.42	1.08	
8532.00	90.150	158.480	6325.99	1526.46	-2562.15	-2774.64	1642271.51	14264730.16	39°16'56.3618"N	80°59'36.4022"W	3776.67	227.280	0.54	-0.50	0.19	
8627.00	89.140	157.770	6326.58	1621.33	-2650.30	-2739.24	1642306.89	14264642.04	39°16'55.4905"N	80°59'35.9522"W	3811.50	225.945	1.30	-1.06	-0.75	
8721.00	90.310	158.720	6327.03	1715.21	-2737.60	-2704.41	1642341.71	14264554.78	39°16'54.6276"N	80°59'35.5092"W	3848.15	224.650	1.60	1.24	1.01	
8816.00	89.320	159.740	6327.33	1810.15	-2826.43	-2670.72	1642375.39	14264465.99	39°16'53.7496"N	80°59'35.0809"W	3888.63	223.377	1.50	-1.04	1.07	
8910.00	89.290	160.320	6328.47	1904.13	-2914.77	-2638.62	1642407.47	14264377.68	39°16'52.8765"N	80°59'34.6727"W	3931.69	222.153	0.62	-0.03	0.62	
9005.00	89.570	160.190	6329.42	1999.11	-3004.18	-2606.52	1642439.55	14264288.31	39°16'51.9927"N	80°59'34.2647"W	3977.32	220.946	0.32	0.29	-0.14	
9099.00	89.200	159.850	6330.43	2093.09	-3092.52	-2574.41	1642471.66	14264200.01	39°16'51.1196"N	80°59'33.8564"W	4023.83	219.776	0.53	-0.39	-0.36	
9194.00	89.450	160.400	6331.55	2188.07	-3181.85	-2542.11	1642503.94	14264110.71	39°16'50.2366"N	80°59'33.4458"W	4072.65	218.623	0.64	0.26	0.58	
9288.00	89.350	159.880	6332.53	2282.05	-3270.25	-2510.18	1642535.86	14264022.34	39°16'49.3628"N	80°59'33.0398"W	4122.57	217.509	0.56	-0.11	-0.55	
9382.00	89.480	160.260	6333.49	2376.03	-3358.62	-2478.14	1642567.89	14263934.01	39°16'48.4894"N	80°59'32.6324"W	4173.91	216.422	0.43	0.14	0.40	
9477.00	89.820	160.140	6334.07	2471.01	-3448.00	-2445.96	1642600.05	14263844.66	39°16'47.6060"N	80°59'32.2233"W	4227.46	215.351	0.38	0.36	-0.13	
9571.00	89.570	160.140	6334.57	2565.00	-3536.41	-2414.03	1642631.97	14263756.29	39°16'46.7321"N	80°59'31.8173"W	4281.79	214.318	0.27	-0.27	0.00	
9666.00	89.750	160.340	6335.13	2659.98	-3625.81	-2381.91	1642664.08	14263666.92	39°16'45.8485"N	80°59'31.4090"W	4338.21	213.302	0.28	0.19	0.21	
9760.00	89.880	160.230	6335.44	2753.97	-3714.30	-2350.20	1642695.77	14263578.47	39°16'44.9738"N	80°59'31.0058"W	4395.39	212.323	0.18	0.14	-0.12	
9854.00	89.750	159.600	6335.74	2847.95	-3802.59	-2317.92	1642728.04	14263490.22	39°16'44.1012"N	80°59'30.5954"W	4453.36	211.365	0.68	-0.14	-0.67	
9949.00	90.710	159.570	6335.36	2942.92	-3891.62	-2284.78	1642761.17	14263401.23	39°16'43.2213"N	80°59'30.1742"W	4512.75	210.417	1.01	1.01	-0.03	
10043.00	91.020	160.840	6333.94	3036.89	-3980.05	-2252.95	1642792.98	14263312.83	39°16'42.3472"N	80°59'29.7695"W	4573.47	209.513	1.39	0.33	1.35	
10138.00	89.720	159.860	6333.33	3131.88	-4069.51	-2221.01	1642824.91	14263223.40	39°16'41.4629"N	80°59'29.3634"W	4636.14	208.624	1.71	-1.37	-1.03	
10232.00	90.120	162.290	6333.46	3225.87	-4158.43	-2190.52	1642855.39	14263134.53	39°16'40.5841"N	80°59'28.9758"W	4700.10	207.779	2.62	0.43	2.59	
10327.00	90.120	161.990	6333.26	3320.86	-4248.85	-2161.39	1642884.51	14263044.14	39°16'39.6904"N	80°59'28.6055"W	4767.00	206.962	0.32	0.00	-0.32	
10421.00	89.940	161.690	6333.21	3414.85	-4338.17	-2132.09	1642913.80	14262954.86	39°16'38.8075"N	80°59'28.2330"W	4833.79	206.173	0.37	-0.19	-0.32	
10516.00	89.510	160.820	6333.67	3509.85	-4428.12	-2101.56	1642944.31	14262864.94	39°16'37.9184"N	80°59'27.8449"W	4901.52	205.389	1.02	-0.45	-0.92	

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Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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
10610.00	90.120	161.970	6333.97	3603.84	-4517.21	-2071.57	1642974.29	14262775.89	39°16'37.0379"N	80°59'27.4637"W	4969.57	204.636	1.38	0.65	1.22	
10704.00	89.880	162.320	6333.97	3697.83	-4606.68	-2042.75	1643003.10	14262686.45	39°16'36.1535"N	80°59'27.0973"W	5039.28	203.914	0.45	-0.26	0.37	
10799.00	89.940	162.080	6334.12	3792.81	-4697.13	-2013.71	1643032.13	14262596.03	39°16'35.2595"N	80°59'26.7281"W	5110.59	203.205	0.26	0.06	-0.25	
10893.00	90.060	161.990	6334.12	3886.80	-4786.55	-1984.72	1643061.11	14262506.65	39°16'34.3757"N	80°59'26.3596"W	5181.72	202.521	0.16	0.13	-0.10	
10988.00	90.120	161.790	6333.97	3981.79	-4876.84	-1955.19	1643090.63	14262416.40	39°16'33.4832"N	80°59'25.9842"W	5254.18	201.846	0.22	0.06	-0.21	
11082.00	90.310	161.970	6333.62	4075.78	-4966.18	-1925.95	1643119.85	14262327.09	39°16'32.6002"N	80°59'25.6126"W	5326.56	201.197	0.28	0.20	0.19	
11176.00	89.820	161.980	6333.51	4169.77	-5055.57	-1896.87	1643148.92	14262237.74	39°16'31.7167"N	80°59'25.2428"W	5399.71	200.566	0.52	-0.52	0.01	
11271.00	90.340	161.920	6333.38	4264.76	-5145.89	-1867.43	1643178.35	14262147.46	39°16'30.8239"N	80°59'24.8686"W	5474.26	199.946	0.55	0.55	-0.06	
11365.00	89.970	161.520	6333.12	4358.75	-5235.15	-1837.95	1643207.82	14262058.24	39°16'29.9417"N	80°59'24.4938"W	5548.41	199.345	0.58	-0.39	-0.43	
11460.00	90.090	162.550	6333.07	4453.74	-5325.52	-1808.65	1643237.11	14261967.91	39°16'29.0485"N	80°59'24.1214"W	5624.26	198.758	1.09	0.13	1.08	
11554.00	90.120	162.080	6332.90	4547.72	-5415.07	-1780.09	1643265.65	14261878.38	39°16'28.1633"N	80°59'23.7584"W	5700.15	198.197	0.50	0.03	-0.50	
11649.00	90.000	161.780	6332.80	4642.71	-5505.39	-1750.63	1643295.11	14261788.11	39°16'27.2706"N	80°59'23.3838"W	5777.02	197.640	0.34	-0.13	-0.32	
11743.00	89.910	161.810	6332.88	4736.70	-5594.68	-1721.26	1643324.46	14261698.85	39°16'26.3880"N	80°59'23.0105"W	5853.48	197.101	0.10	-0.10	0.03	
11837.00	90.430	162.410	6332.60	4830.69	-5684.14	-1692.38	1643353.33	14261609.43	39°16'25.5039"N	80°59'22.6435"W	5930.73	196.580	0.84	0.55	0.64	
11932.00	89.910	161.450	6332.32	4925.68	-5774.45	-1662.92	1643382.78	14261519.15	39°16'24.6112"N	80°59'22.2690"W	6009.12	196.065	1.15	-0.55	-1.01	
12026.00	88.890	161.240	6333.30	5019.67	-5863.50	-1632.85	1643412.84	14261430.13	39°16'23.7310"N	80°59'21.8868"W	6086.61	195.561	1.11	-1.09	-0.22	
12121.00	90.150	162.050	6334.10	5114.66	-5953.66	-1602.94	1643442.74	14261340.01	39°16'22.8398"N	80°59'21.5065"W	6165.67	195.069	1.58	1.33	0.85	
12215.00	90.120	162.070	6333.87	5208.65	-6043.09	-1573.98	1643471.68	14261250.62	39°16'21.9559"N	80°59'21.1385"W	6244.71	194.599	0.04	-0.03	0.02	
12310.00	90.180	162.390	6333.63	5303.63	-6133.56	-1544.99	1643500.66	14261160.18	39°16'21.0617"N	80°59'20.7700"W	6325.15	194.138	0.34	0.06	0.34	
12404.00	90.250	161.920	6333.27	5397.61	-6223.04	-1516.18	1643529.46	14261070.74	39°16'20.1773"N	80°59'20.4039"W	6405.08	193.693	0.51	0.07	-0.50	
12499.00	90.120	161.900	6332.97	5492.60	-6313.34	-1486.69	1643558.94	14260980.48	39°16'19.2847"N	80°59'20.0289"W	6486.02	193.251	0.14	-0.14	-0.02	
12593.00	90.090	161.920	6332.79	5586.59	-6402.69	-1457.50	1643588.12	14260891.16	39°16'18.4015"N	80°59'19.6579"W	6566.49	192.824	0.04	-0.03	0.02	
12687.00	91.050	161.020	6331.86	5680.58	-6491.82	-1427.63	1643617.98	14260802.07	39°16'17.5206"N	80°59'19.2782"W	6646.94	192.403	1.40	1.02	-0.96	
12782.00	91.940	161.720	6329.38	5775.55	-6581.81	-1397.29	1643648.30	14260712.12	39°16'16.6312"N	80°59'18.8926"W	6728.49	191.986	1.19	0.94	0.74	
12876.00	90.180	162.010	6327.64	5869.52	-6671.12	-1368.04	1643677.54	14260622.84	39°16'15.7484"N	80°59'18.5208"W	6809.94	191.589	1.90	-1.87	0.31	
12970.00	90.180	161.370	6327.35	5963.52	-6760.36	-1338.51	1643707.06	14260533.64	39°16'14.8663"N	80°59'18.1455"W	6891.59	191.199	0.68	0.00	-0.68	
13065.00	89.140	161.660	6327.91	6058.51	-6850.45	-1308.39	1643737.17	14260443.58	39°16'13.9758"N	80°59'17.7627"W	6974.28	190.813	1.14	-1.09	0.31	
13159.00	89.420	161.720	6329.09	6152.50	-6939.69	-1278.86	1643766.69	14260354.38	39°16'13.0938"N	80°59'17.3874"W	7056.54	190.441	0.30	0.30	0.06	
13253.00	89.350	161.890	6330.10	6246.49	-7028.98	-1249.51	1643796.02	14260265.12	39°16'12.2112"N	80°59'17.0143"W	7139.18	190.080	0.20	-0.07	0.18	
13348.00	89.450	162.090	6331.09	6341.47	-7119.32	-1220.14	1643825.38	14260174.82	39°16'11.3183"N	80°59'16.6410"W	7223.12	189.725	0.24	0.11	0.21	

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Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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
13442.00	89.380	162.260	6332.05	6435.45	-7208.80	-1191.36	1643854.14	14260085.37	39°16'10.4338"N	80°59'16.2754"W	7306.59	189.384	0.20	-0.07	0.18	
13537.00	89.450	161.890	6333.02	6530.43	-7299.19	-1162.13	1643883.37	14259995.03	39°16'9.5404"N	80°59'15.9038"W	7391.12	189.046	0.40	0.07	-0.39	
13631.00	89.260	161.680	6334.08	6624.42	-7388.47	-1132.75	1643912.74	14259905.78	39°16'8.6579"N	80°59'15.5303"W	7474.80	188.716	0.30	-0.20	-0.22	
13726.00	89.690	162.320	6334.95	6719.40	-7478.82	-1103.39	1643942.08	14259815.47	39°16'7.7649"N	80°59'15.1573"W	7559.77	188.393	0.81	0.45	0.67	
13820.00	89.450	161.880	6335.66	6813.39	-7568.26	-1074.50	1643970.96	14259726.06	39°16'6.8808"N	80°59'14.7901"W	7644.16	188.081	0.53	-0.26	-0.47	
13915.00	89.540	161.740	6336.50	6908.37	-7658.51	-1044.85	1644000.60	14259635.84	39°16'5.9888"N	80°59'14.4132"W	7729.46	187.769	0.18	0.09	-0.15	
14009.00	91.390	161.880	6335.73	7002.36	-7747.81	-1015.50	1644029.93	14259546.58	39°16'5.1062"N	80°59'14.0403"W	7814.08	187.467	1.97	1.97	0.15	
14104.00	89.820	162.420	6334.73	7097.34	-7838.23	-986.39	1644059.04	14259456.20	39°16'4.2124"N	80°59'13.6702"W	7900.05	187.173	1.75	-1.65	0.57	
14198.00	90.280	162.220	6334.65	7191.32	-7927.79	-957.84	1644087.58	14259366.68	39°16'3.3272"N	80°59'13.3074"W	7985.44	186.889	0.53	0.49	-0.21	
14292.00	90.980	161.350	6333.61	7285.30	-8017.07	-928.46	1644116.94	14259277.43	39°16'2.4447"N	80°59'12.9340"W	8070.65	186.606	1.19	0.74	-0.93	
14387.00	89.750	160.130	6333.01	7380.29	-8106.75	-897.12	1644148.27	14259187.79	39°16'1.5583"N	80°59'12.5358"W	8156.24	186.315	1.82	-1.29	-1.28	
14481.00	90.120	160.850	6333.12	7474.29	-8195.35	-865.73	1644179.65	14259099.22	39°16'0.6825"N	80°59'12.1368"W	8240.95	186.030	0.86	0.39	0.77	
14575.00	90.120	160.680	6332.92	7568.29	-8284.10	-834.76	1644210.60	14259010.51	39°15'59.8053"N	80°59'11.7432"W	8326.06	185.754	0.18	0.00	-0.18	
14670.00	89.940	160.740	6332.87	7663.28	-8373.77	-803.38	1644241.97	14258920.88	39°15'58.9190"N	80°59'11.3444"W	8412.22	185.480	0.20	-0.19	0.06	
14764.00	90.400	161.350	6332.59	7757.28	-8462.67	-772.85	1644272.49	14258832.01	39°15'58.0403"N	80°59'10.9564"W	8497.89	185.218	0.81	0.49	0.65	
14859.00	90.250	160.820	6332.05	7852.28	-8552.54	-742.05	1644303.28	14258742.18	39°15'57.1520"N	80°59'10.5650"W	8584.67	184.959	0.58	-0.16	-0.56	
14953.00	90.220	160.760	6331.67	7946.28	-8641.30	-711.12	1644334.19	14258653.45	39°15'56.2746"N	80°59'10.1719"W	8670.52	184.704	0.07	-0.03	-0.06	
15048.00	89.850	159.380	6331.61	8041.26	-8730.61	-678.74	1644366.56	14258564.18	39°15'55.3919"N	80°59'9.7604"W	8756.96	184.445	1.50	-0.39	-1.45	
15142.00	90.580	161.290	6331.26	8135.25	-8819.13	-647.11	1644398.18	14258475.70	39°15'54.5170"N	80°59'9.3584"W	8842.83	184.197	2.18	0.78	2.03	
15237.00	89.970	161.280	6330.80	8230.24	-8909.10	-616.63	1644428.65	14258385.76	39°15'53.6276"N	80°59'8.9711"W	8930.41	183.959	0.64	-0.64	-0.01	
15331.00	89.940	161.060	6330.87	8324.24	-8998.07	-586.29	1644458.98	14258296.83	39°15'52.7482"N	80°59'8.5855"W	9017.15	183.728	0.24	-0.03	-0.23	
15425.00	89.850	160.950	6331.05	8418.24	-9086.95	-555.69	1644489.56	14258207.98	39°15'51.8697"N	80°59'8.1967"W	9103.93	183.499	0.15	-0.10	-0.12	
15520.00	90.000	161.210	6331.17	8513.24	-9176.82	-524.89	1644520.35	14258118.15	39°15'50.9814"N	80°59'7.8052"W	9191.82	183.274	0.32	0.16	0.27	
15614.00	90.060	160.810	6331.12	8607.24	-9265.70	-494.30	1644550.93	14258029.30	39°15'50.1029"N	80°59'7.4165"W	9278.88	183.054	0.43	0.06	-0.43	
15709.00	90.000	160.890	6331.07	8702.24	-9355.45	-463.14	1644582.08	14257939.60	39°15'49.2158"N	80°59'7.0205"W	9366.90	182.834	0.11	-0.06	0.08	
15803.00	89.570	160.710	6331.42	8796.24	-9444.22	-432.23	1644612.98	14257850.86	39°15'48.3384"N	80°59'6.6277"W	9454.10	182.620	0.50	-0.46	-0.19	
15898.00	89.690	160.940	6332.04	8891.24	-9533.94	-401.02	1644644.17	14257761.17	39°15'47.4515"N	80°59'6.2311"W	9542.37	182.409	0.27	0.13	0.24	
15992.00	90.000	160.890	6332.29	8985.23	-9622.78	-370.29	1644674.89	14257672.37	39°15'46.5734"N	80°59'5.8406"W	9629.90	182.204	0.33	0.33	-0.05	
16086.00	89.970	160.900	6332.32	9079.23	-9711.60	-339.52	1644705.64	14257583.59	39°15'45.6955"N	80°59'5.4496"W	9717.53	182.002	0.03	-0.03	0.01	
16181.00	90.030	161.110	6332.32	9174.23	-9801.43	-308.60	1644736.55	14257493.79	39°15'44.8076"N	80°59'5.0567"W	9806.28	181.803	0.23	0.06	0.22	

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Maul Unit 1H AWP Proj: 24658'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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
16275.00	89.970	160.980	6332.32	9268.23	-9890.33	-278.07	1644767.07	14257404.93	39°15'43.9289"N	80°59'4.6687"W	9894.24	181.610	0.15	-0.06	-0.14	
16369.00	90.000	161.150	6332.34	9362.23	-9979.24	-247.56	1644797.56	14257316.05	39°15'43.0500"N	80°59'4.2811"W	9982.31	181.421	0.18	0.03	0.18	
16463.00	90.580	161.420	6331.86	9456.23	-10068.27	-217.40	1644827.71	14257227.06	39°15'42.1700"N	80°59'3.8978"W	10070.62	181.237	0.68	0.62	0.29	
16558.00	89.630	160.530	6331.69	9551.23	-10158.08	-186.44	1644858.67	14257137.29	39°15'41.2823"N	80°59'3.5043"W	10159.79	181.051	1.37	-1.00	-0.94	
16652.00	89.910	160.680	6332.07	9645.22	-10246.74	-155.22	1644889.87	14257048.66	39°15'40.4059"N	80°59'3.1077"W	10247.92	180.868	0.34	0.30	0.16	
16746.00	90.220	161.200	6331.96	9739.22	-10335.59	-124.53	1644920.55	14256959.85	39°15'39.5277"N	80°59'2.7176"W	10336.34	180.690	0.64	0.33	0.55	
16841.00	89.940	161.300	6331.83	9834.22	-10425.55	-93.99	1644951.08	14256869.92	39°15'38.6386"N	80°59'2.3296"W	10425.97	180.517	0.31	-0.29	0.11	
16935.00	90.000	161.130	6331.88	9928.22	-10514.54	-63.72	1644981.34	14256780.97	39°15'37.7589"N	80°59'1.9450"W	10514.73	180.347	0.19	0.06	-0.18	
17029.00	89.660	160.690	6332.16	10022.22	-10603.37	-32.98	1645012.07	14256692.17	39°15'36.8809"N	80°59'1.5543"W	10603.42	180.178	0.59	-0.36	-0.47	
17123.00	89.970	161.210	6332.46	10116.22	-10692.22	-2.30	1645042.73	14256603.36	39°15'36.0027"N	80°59'1.1645"W	10692.22	180.012	0.64	0.33	0.55	
17217.00	90.000	160.940	6332.48	10210.22	-10781.14	28.19	1645073.21	14256514.47	39°15'35.1238"N	80°59'0.7771"W	10781.18	179.850	0.29	0.03	-0.29	
17312.00	90.000	161.080	6332.48	10305.22	-10870.97	59.10	1645104.11	14256424.68	39°15'34.2358"N	80°59'0.3843"W	10871.13	179.688	0.15	0.00	0.15	
17406.00	90.030	160.920	6332.46	10399.22	-10959.85	89.71	1645134.70	14256335.84	39°15'33.3573"N	80°58'59.9955"W	10960.22	179.531	0.17	0.03	-0.17	
17500.00	90.060	161.640	6332.39	10493.22	-11048.87	119.88	1645164.86	14256246.85	39°15'32.4774"N	80°58'59.6121"W	11049.53	179.378	0.77	0.03	0.77	
17595.00	89.720	160.630	6332.57	10588.22	-11138.77	150.59	1645195.56	14256156.99	39°15'31.5888"N	80°58'59.2219"W	11139.79	179.225	1.12	-0.36	-1.06	
17689.00	89.970	161.030	6332.82	10682.21	-11227.56	181.46	1645226.42	14256068.24	39°15'30.7112"N	80°58'58.8297"W	11229.02	179.074	0.50	0.27	0.43	
17783.00	90.000	161.230	6332.85	10776.21	-11316.51	211.86	1645256.81	14255979.32	39°15'29.8320"N	80°58'58.4434"W	11318.49	178.927	0.22	0.03	0.21	
17877.00	89.820	161.170	6333.00	10870.21	-11405.49	242.15	1645287.09	14255890.37	39°15'28.9524"N	80°58'58.0585"W	11408.06	178.784	0.20	-0.19	-0.06	
17972.00	89.820	160.640	6333.29	10965.21	-11495.26	273.23	1645318.15	14255800.64	39°15'28.0651"N	80°58'57.6636"W	11498.51	178.638	0.56	0.00	-0.56	
18066.00	89.940	161.390	6333.49	11059.21	-11584.15	303.81	1645348.72	14255711.79	39°15'27.1865"N	80°58'57.2751"W	11588.13	178.498	0.81	0.13	0.80	
18255.00	89.780	161.310	6333.95	11248.21	-11763.22	364.25	1645409.13	14255532.79	39°15'25.4164"N	80°58'56.5072"W	11768.86	178.226	0.09	-0.08	-0.04	
18349.00	90.030	161.100	6334.11	11342.21	-11852.21	394.54	1645439.41	14255443.83	39°15'24.5369"N	80°58'56.1224"W	11858.78	178.093	0.35	0.27	-0.22	
18444.00	89.850	161.410	6334.21	11437.21	-11942.17	425.07	1645469.92	14255353.91	39°15'23.6476"N	80°58'55.7345"W	11949.73	177.961	0.38	-0.19	0.33	
18538.00	89.940	161.450	6334.38	11531.21	-12031.28	455.00	1645499.85	14255264.84	39°15'22.7669"N	80°58'55.3542"W	12039.88	177.834	0.10	0.10	0.04	
18727.00	89.750	161.420	6334.89	11720.20	-12210.44	515.17	1645560.00	14255085.75	39°15'20.9959"N	80°58'54.5897"W	12221.30	177.584	0.10	-0.10	-0.02	
18822.00	90.030	161.020	6335.07	11815.20	-12300.38	545.76	1645590.57	14254995.84	39°15'20.1069"N	80°58'54.2011"W	12312.48	177.459	0.51	0.29	-0.42	
18916.00	89.910	161.060	6335.12	11909.20	-12389.28	576.30	1645621.10	14254906.98	39°15'19.2282"N	80°58'53.8131"W	12402.68	177.337	0.13	-0.13	0.04	
19011.00	90.150	161.200	6335.07	12004.20	-12479.18	607.02	1645651.81	14254817.12	39°15'18.3396"N	80°58'53.4228"W	12493.93	177.215	0.29	0.25	0.15	
19105.00	90.030	160.790	6334.93	12098.20	-12568.05	637.64	1645682.41	14254728.28	39°15'17.4611"N	80°58'53.0339"W	12584.22	177.096	0.45	-0.13	-0.44	
19200.00	90.060	160.860	6334.85	12193.20	-12657.78	668.84	1645713.60	14254638.59	39°15'16.5742"N	80°58'52.6374"W	12675.44	176.975	0.08	0.03	0.07	

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Maul Unit 1H AWP Proj: 24658'

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Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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
19294.00	90.000	161.090	6334.80	12287.20	-12746.65	699.48	1645744.23	14254549.76	39°15'15.6958"N	80°58'52.2481"W	12765.83	176.859	0.25	-0.06	0.24	
19389.00	89.940	161.000	6334.85	12382.20	-12836.50	730.34	1645775.08	14254459.94	39°15'14.8077"N	80°58'51.8561"W	12857.26	176.744	0.11	-0.06	-0.09	
19483.00	89.880	160.850	6335.00	12476.20	-12925.33	761.06	1645805.78	14254371.14	39°15'13.9296"N	80°58'51.4658"W	12947.72	176.630	0.17	-0.06	-0.16	
19578.00	90.030	160.580	6335.07	12571.20	-13015.00	792.43	1645837.15	14254281.51	39°15'13.0433"N	80°58'51.0672"W	13039.11	176.516	0.33	0.16	-0.28	
19672.00	90.310	161.300	6334.79	12665.20	-13103.85	823.13	1645867.83	14254192.70	39°15'12.1651"N	80°58'50.6773"W	13129.68	176.406	0.82	0.30	0.77	
19767.00	89.820	161.210	6334.69	12760.19	-13193.81	853.66	1645898.35	14254102.77	39°15'11.2758"N	80°58'50.2894"W	13221.40	176.298	0.52	-0.52	-0.09	
19861.00	89.880	160.760	6334.93	12854.19	-13282.68	884.29	1645928.96	14254013.94	39°15'10.3974"N	80°58'49.9003"W	13312.08	176.191	0.48	0.06	-0.48	
19955.00	89.940	161.050	6335.08	12948.19	-13371.51	915.04	1645959.70	14253925.15	39°15'9.5194"N	80°58'49.5097"W	13402.78	176.085	0.32	0.06	0.31	
20050.00	89.820	160.690	6335.28	13043.19	-13461.26	946.17	1645990.82	14253835.43	39°15'8.6322"N	80°58'49.1142"W	13494.47	175.979	0.40	-0.13	-0.38	
20144.00	89.910	161.140	6335.50	13137.19	-13550.09	976.90	1646021.54	14253746.63	39°15'7.7541"N	80°58'48.7237"W	13585.26	175.876	0.49	0.10	0.48	
20239.00	89.910	161.010	6335.65	13232.19	-13639.96	1007.72	1646052.34	14253656.80	39°15'6.8659"N	80°58'48.3323"W	13677.13	175.775	0.14	0.00	-0.14	
20333.00	89.940	161.100	6335.77	13326.19	-13728.87	1038.23	1646082.85	14253567.93	39°15'5.9871"N	80°58'47.9446"W	13768.07	175.675	0.10	0.03	0.10	
20428.00	90.000	161.080	6335.82	13421.19	-13818.74	1069.02	1646113.62	14253478.10	39°15'5.0987"N	80°58'47.5535"W	13860.03	175.576	0.07	0.06	-0.02	
20617.00	90.030	161.480	6335.77	13610.19	-13997.74	1129.68	1646174.26	14253299.17	39°15'3.3294"N	80°58'46.7830"W	14043.25	175.386	0.21	0.02	0.21	
20711.00	89.780	161.430	6335.93	13704.19	-14086.86	1159.58	1646204.14	14253210.08	39°15'2.4485"N	80°58'46.4032"W	14134.50	175.294	0.27	-0.27	-0.05	
20806.00	89.820	161.000	6336.26	13799.19	-14176.80	1190.17	1646234.72	14253120.18	39°15'1.5595"N	80°58'46.0146"W	14226.67	175.201	0.45	0.04	-0.45	
20900.00	89.910	161.070	6336.48	13893.19	-14265.70	1220.72	1646265.26	14253031.32	39°15'0.6808"N	80°58'45.6265"W	14317.83	175.109	0.12	0.10	0.07	
20995.00	89.970	161.100	6336.58	13988.19	-14355.57	1251.51	1646296.04	14252941.48	39°14'59.7924"N	80°58'45.2353"W	14410.02	175.018	0.07	0.06	0.03	
21089.00	89.940	160.730	6336.66	14082.19	-14444.40	1282.25	1646326.76	14252852.69	39°14'58.9143"N	80°58'44.8449"W	14501.20	174.927	0.39	-0.03	-0.39	
21183.00	89.910	161.200	6336.78	14176.18	-14533.26	1312.90	1646357.41	14252763.86	39°14'58.0360"N	80°58'44.4555"W	14592.44	174.838	0.50	-0.03	0.50	
21277.00	89.910	161.360	6336.93	14270.18	-14622.29	1343.07	1646387.56	14252674.87	39°14'57.1560"N	80°58'44.0723"W	14683.84	174.752	0.17	0.00	0.17	
21372.00	89.850	161.260	6337.13	14365.18	-14712.28	1373.52	1646417.99	14252584.92	39°14'56.2665"N	80°58'43.6856"W	14776.25	174.666	0.12	-0.06	-0.11	
21466.00	90.180	161.040	6337.10	14459.18	-14801.23	1403.89	1646448.35	14252496.00	39°14'55.3872"N	80°58'43.2998"W	14867.66	174.582	0.42	0.35	-0.23	
21560.00	89.850	161.210	6337.08	14553.18	-14890.18	1434.30	1646478.75	14252407.09	39°14'54.5080"N	80°58'42.9135"W	14959.10	174.498	0.39	-0.35	0.18	
21654.00	89.880	161.120	6337.30	14647.18	-14979.15	1464.64	1646509.08	14252318.16	39°14'53.6286"N	80°58'42.5280"W	15050.58	174.415	0.10	0.03	-0.10	
21748.00	90.000	161.430	6337.40	14741.18	-15068.17	1494.82	1646539.25	14252229.17	39°14'52.7486"N	80°58'42.1447"W	15142.13	174.335	0.35	0.13	0.33	
21842.00	89.970	161.010	6337.42	14835.18	-15157.17	1525.08	1646569.50	14252140.21	39°14'51.8689"N	80°58'41.7604"W	15233.70	174.254	0.45	-0.03	-0.45	
21936.00	90.120	161.290	6337.35	14929.18	-15246.12	1555.45	1646599.86	14252051.28	39°14'50.9896"N	80°58'41.3746"W	15325.26	174.175	0.34	0.16	0.30	
22031.00	89.970	161.150	6337.27	15024.18	-15336.07	1586.04	1646630.43	14251961.38	39°14'50.1006"N	80°58'40.9861"W	15417.86	174.096	0.22	-0.16	-0.15	
22125.00	89.940	161.370	6337.35	15118.18	-15425.08	1616.24	1646660.62	14251872.40	39°14'49.2207"N	80°58'40.6025"W	15509.53	174.018	0.24	-0.03	0.23	

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Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (268 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
22219.00	90.060	161.470	6337.35	15212.18	-15514.18	1646.19	1646690.55	14251783.33	39°14'48.3400"N	80°58'40.2221"W	15601.28	173.943	0.17	0.13	0.11	
22313.00	89.850	161.490	6337.42	15306.18	-15603.32	1676.04	1646720.40	14251694.24	39°14'47.4589"N	80°58'39.8429"W	15693.07	173.869	0.22	-0.22	0.02	
22407.00	89.750	161.100	6337.75	15400.18	-15692.35	1706.19	1646750.53	14251605.24	39°14'46.5789"N	80°58'39.4600"W	15784.83	173.795	0.43	-0.11	-0.41	
22502.00	90.520	161.800	6337.52	15495.17	-15782.41	1736.41	1646780.74	14251515.21	39°14'45.6886"N	80°58'39.0761"W	15877.65	173.721	1.10	0.81	0.74	
22596.00	90.180	161.220	6336.95	15589.17	-15871.56	1766.22	1646810.54	14251426.10	39°14'44.8075"N	80°58'38.6975"W	15969.53	173.650	0.72	-0.36	-0.62	
22691.00	90.340	161.320	6336.52	15684.17	-15961.53	1796.73	1646841.03	14251336.17	39°14'43.9181"N	80°58'38.3101"W	16062.33	173.577	0.20	0.17	0.11	
22785.00	90.280	161.440	6336.01	15778.17	-16050.60	1826.74	1646871.04	14251247.13	39°14'43.0376"N	80°58'37.9289"W	16154.22	173.507	0.14	-0.06	0.13	
22879.00	90.340	161.050	6335.50	15872.16	-16139.61	1856.96	1646901.25	14251158.16	39°14'42.1578"N	80°58'37.5450"W	16246.09	173.437	0.42	0.06	-0.41	
22974.00	90.520	161.440	6334.79	15967.16	-16229.56	1887.51	1646931.78	14251068.24	39°14'41.2687"N	80°58'37.1571"W	16338.95	173.366	0.45	0.19	0.41	
23068.00	90.220	161.250	6334.18	16061.16	-16318.62	1917.57	1646961.83	14250979.22	39°14'40.3884"N	80°58'36.7752"W	16430.90	173.298	0.38	-0.32	-0.20	
23163.00	90.310	161.290	6333.74	16156.16	-16408.59	1948.08	1646992.32	14250889.28	39°14'39.4991"N	80°58'36.3878"W	16523.83	173.229	0.10	0.09	0.04	
23257.00	90.430	161.500	6333.14	16250.15	-16497.68	1978.07	1647022.30	14250800.23	39°14'38.6185"N	80°58'36.0069"W	16615.84	173.163	0.26	0.13	0.22	
23352.00	90.370	161.130	6332.47	16345.15	-16587.67	2008.50	1647052.72	14250710.28	39°14'37.7289"N	80°58'35.6204"W	16708.82	173.096	0.39	-0.06	-0.39	
23447.00	90.340	161.520	6331.88	16440.15	-16677.66	2038.92	1647083.13	14250620.32	39°14'36.8394"N	80°58'35.2340"W	16801.84	173.030	0.41	-0.03	0.41	
23541.00	90.340	160.500	6331.33	16534.14	-16766.55	2069.51	1647113.70	14250531.47	39°14'35.9608"N	80°58'34.8456"W	16893.78	172.964	1.09	0.00	-1.09	
23636.00	90.280	160.090	6330.81	16629.13	-16855.98	2101.54	1647145.72	14250442.07	39°14'35.0768"N	80°58'34.4387"W	16986.48	172.893	0.44	-0.06	-0.43	
23731.00	90.310	160.450	6330.32	16724.12	-16945.40	2133.61	1647177.78	14250352.69	39°14'34.1928"N	80°58'34.0314"W	17079.20	172.824	0.38	0.03	0.38	
23825.00	90.310	160.530	6329.81	16818.11	-17034.00	2165.00	1647209.16	14250264.12	39°14'33.3170"N	80°58'33.6327"W	17171.04	172.757	0.09	0.00	0.09	
23920.00	90.280	160.280	6329.33	16913.11	-17123.50	2196.86	1647241.01	14250174.66	39°14'32.4324"N	80°58'33.2281"W	17263.85	172.689	0.27	-0.03	-0.26	
24015.00	90.310	160.360	6328.84	17008.09	-17212.95	2228.85	1647272.99	14250085.25	39°14'31.5482"N	80°58'32.8218"W	17356.66	172.622	0.09	0.03	0.08	
24109.00	90.220	160.280	6328.40	17102.08	-17301.46	2260.51	1647304.63	14249996.78	39°14'30.6733"N	80°58'32.4197"W	17448.51	172.556	0.13	-0.10	-0.09	
24204.00	90.310	160.040	6327.96	17197.07	-17390.82	2292.75	1647336.86	14249907.45	39°14'29.7900"N	80°58'32.0102"W	17541.30	172.490	0.27	0.09	-0.25	
24299.00	90.310	160.460	6327.45	17292.06	-17480.23	2324.85	1647368.95	14249818.08	39°14'28.9062"N	80°58'31.6025"W	17634.15	172.424	0.44	0.00	0.44	
24393.00	90.400	160.080	6326.87	17386.05	-17568.71	2356.58	1647400.67	14249729.63	39°14'28.0316"N	80°58'31.1995"W	17726.06	172.360	0.42	0.10	-0.40	
24488.00	90.430	160.380	6326.18	17481.03	-17658.11	2388.72	1647432.79	14249640.27	39°14'27.1479"N	80°58'30.7914"W	17818.94	172.296	0.32	0.03	0.32	
24582.00	90.340	160.200	6325.55	17575.02	-17746.60	2420.42	1647464.48	14249551.82	39°14'26.2732"N	80°58'30.3888"W	17910.90	172.233	0.21	-0.10	-0.19	
24633.00	90.400	160.230	6325.22	17626.01	-17794.59	2437.68	1647481.73	14249503.85	39°14'25.7989"N	80°58'30.1696"W	17960.78	172.200	0.13	0.12	0.06	
24658.00	90.400	160.230	6325.04	17651.01	-17818.11	2446.14	1647490.18	14249480.33	39°14'25.5663"N	80°58'30.0622"W	17985.24	172.183	0.00	0.00	0.00	Projected MD at TD: 24658'

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Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

HOLE & CASING SECTIONS - Ref Wellbore: Maul Unit 1H AWB Ref Wellpath: Maul Unit 1H AWP Proj: 24658'

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]
	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.04	0.05
20in Conductor									
17.5in Open Hole	130.00	375.00	245.00	130.00	375.00	-0.04	0.05	-0.02	-0.84
13.375in Casing Surface	30.00	355.00	325.00	30.00	355.00	0.00	0.00	0.05	-0.61
12.25in Open Hole	375.00	3663.00	3288.00	375.00	3242.41	-0.02	-0.84	-491.38	-1406.54
9.625in Casing Intermediate	30.00	3635.00	3605.00	30.00	3218.19	0.00	0.00	-486.12	-1393.52
8.75in Open Hole	3663.00	6414.00	2751.00	3242.41	5517.13	-491.38	-1406.54	-965.77	-2876.00
8.5in Open Hole	6414.00	24658.00	18244.00	5517.13	6325.04	-965.77	-2876.00	-17818.11	2446.14
5.5in Casing Production	30.00	24638.00	24608.00	30.00	6325.18	0.00	0.00	-17799.29	2439.37

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
	6289.00	-1578.03	-3103.48	1641942.80	14265713.88	39°17'6.0887"N	80°59'40.5833"W	point
Maul Unit 1H POE Rev-2								
	6329.00	-17841.71	2459.26	1647503.30	14249456.74	39°14'25.3330"N	80°58'29.8955"W	point
Maul Unit 1H BHL Rev-2								
	6329.00	-1801.33	-3027.10	1642019.15	14265490.67	39°17'3.8816"N	80°59'39.6122"W	point
Maul Unit 1H LP Rev-2								
	6750.00	-9709.87	-322.11	1644723.05	14257585.31	39°15'45.7125"N	80°59'5.2282"W	rectangle
Maul Unit 1H 50' L/R Hard Line	2D Rectangle 17188.7 x 100.							

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Actual Wellpath Report

Maul Unit 1H AWP Proj: 24658'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

WELLPATH COMPOSITION - Ref Wellbore: Maul Unit 1H AWB Ref Wellpath: Maul Unit 1H AWP Proj: 24658'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	260.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-260')	Maul Unit 1H AWB	7/1/2023
260.00	3593.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (260')(415'-3593')	Maul Unit 1H AWB	7/1/2023
3593.00	6335.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3593')(3689'-6335')	Maul Unit 1H AWB	8/16/2023
6335.00	24658.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6335')(6389'-24633')	Maul Unit 1H AWB	8/16/2023

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Maul Unit 1H AWP Proj: 24658'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Maul Unit 1H
Field	Ritchie	API	47-085-10486-0000
Facility	Jackson Pad	Wellbore	Maul Unit 1H AWB
Slot	Slot A		

COMMENTS

Wellpath general comments

API: 47-085-10486-0000

BH Job #: 111872693

Rig: H&P 519

Duration: 8/20/2023-8/24/2023

Gyrodata MS Gyro <17-1/2"> (100'-260')

APS EM <12-1/4"> (260')(415'-3593')

APS EM <8-3/4"> (3593')(3689'-6335')

BH AT Curve <8-1/2"> (6335')(6389'-24633')

Sycamore: 7091' MD

Middlesex: 7227' MD

Burkett: 7429' MD

Tully: 7504' MD

Marcellus POE: 7534' MD

Projected MD at TD: 24658'

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