



ANTERO RESOURCES CORPORATION

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

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

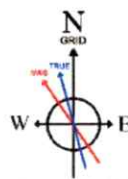
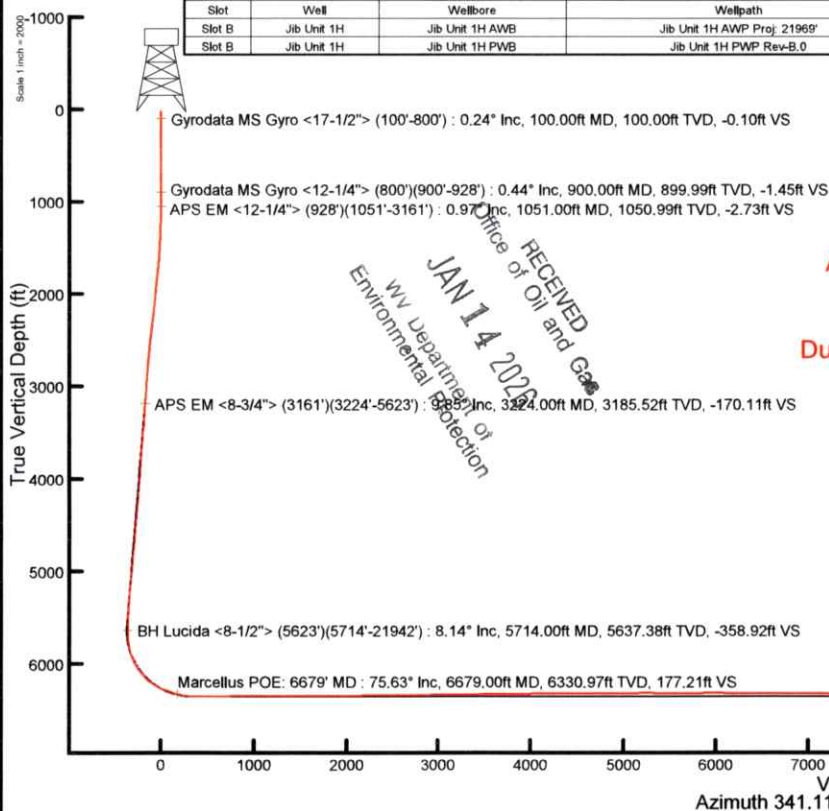


Plot reference wellpath is Jib Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1122.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot B): -1097 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edkayser on 2025-06-06; Database: WA MPL, EASTERNUS, Delo

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Minear Pad	1652230.170	14234535.980	39°11'57.7821"N	80°57'29.8821"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot B	-14.72	-2.94	1652227.230	14234521.270	39°11'57.6367"N
Comment	Jib Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot B)					25.5ft
Mean Sea Level to Ground level (At Slot: Slot B)					-1097ft
H&P 317 (RKB) to Mean Sea Level					1122.5ft

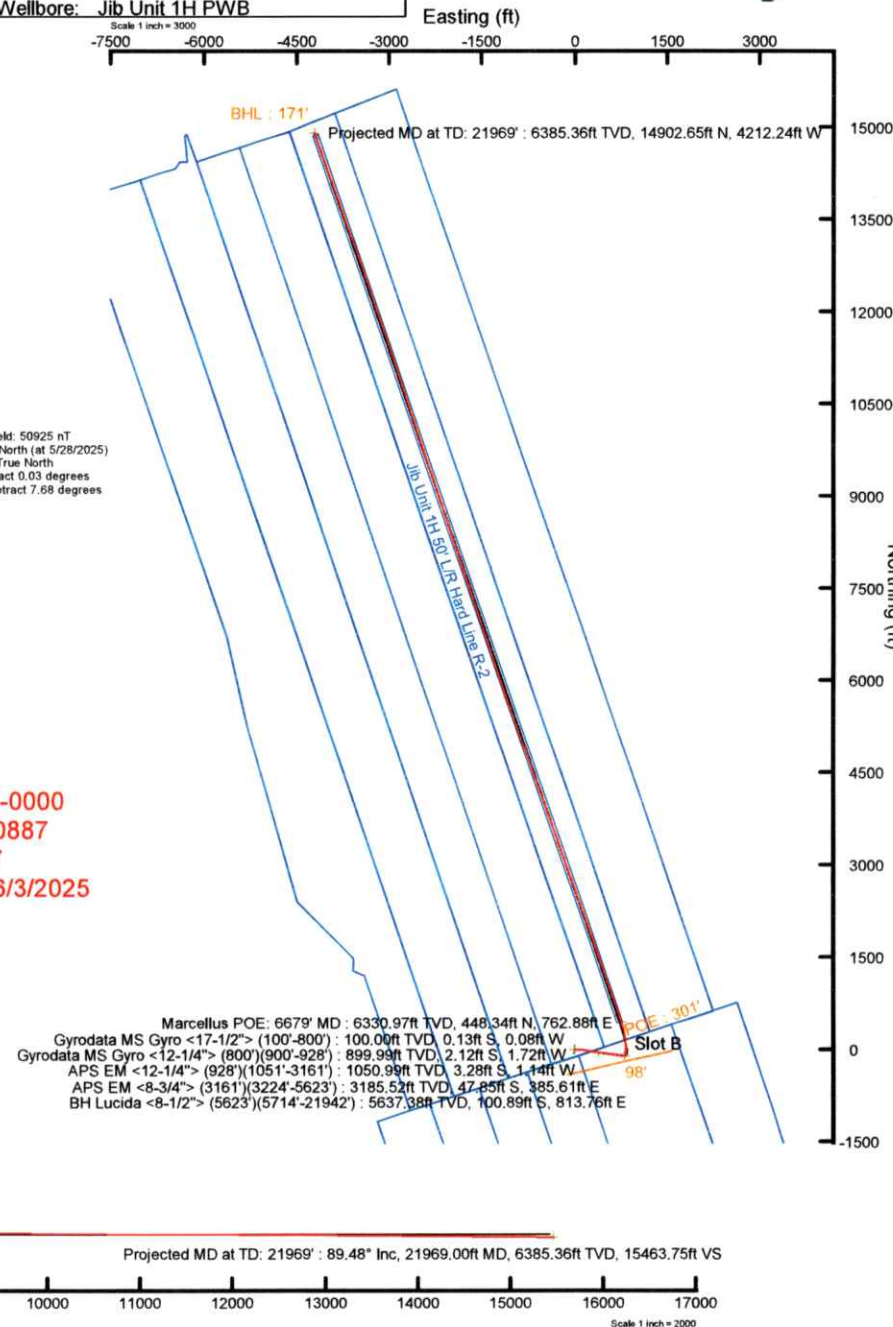
Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3161.00	9.910	99.690	3123.46	-46.24	374.92	1.80	-165.13
Proj. to Bottom	3240.00	9.910	99.690	3201.28	-48.53	388.32	0.00	-171.64
Drill Out	3320.00	9.910	99.690	3280.09	-50.85	401.89	0.00	-178.22
Adj. Inc / Azi	3351.55	10.389	97.355	3311.14	-51.67	407.39	2.00	-180.78
Curve KOP	5667.57	10.389	97.355	5589.19	-105.13	821.58	0.00	-365.46
POE	6674.12	75.762	341.111	6335.00	437.14	739.73	8.00	174.10
Landing Pt.	6852.09	90.000	341.111	6357.00	603.80	682.70	8.00	350.25
BHL	21923.00	90.000	341.111	6357.00	14863.12	-4196.23	0.00	15421.16

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	Jib Unit 1H	Jib Unit 1H AWP	Jib Unit 1H AWP Proj: 21969'
Slot B	Jib Unit 1H	Jib Unit 1H PWB	Jib Unit 1H PWP Rev-B.0



User specified (HDGM) Dip: 65.57° Field: 50925 nT
Magnetic North is 7.65 degrees West of True North (at 5/28/2025)
Grid North is 0.03 degrees East of True North
To correct azimuth from True to Grid subtract 0.03 degrees
To correct azimuth from Magnetic to Grid subtract 7.68 degrees

API: 47-085-10552-0000
BH Job #: 112660887
Rig: H&P 317
Duration: 5/30/2025-6/3/2025





Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib Unit 1H AWP
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	0.999600	Report Generated	6/6/2025 at 11:25:17 PM
Convergence at slot	0.03° 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	-14.72	-2.94	1652227.23	14234521.27	39°11'57.6367"N	80°57'29.9195"W
Facility Reference Pt			1652230.17	14234535.98	39°11'57.7821"N	80°57'29.8821"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1122.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1122.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot B)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.11°

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Jib Unit 1H AWP Proj: 21969'

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Facility	Miner Pad	Wellbore	Jib Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (239 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†	0.00	212.560	0.00	0.00	0.00	0.00	1652227.23	14234521.27	39°11'57.6367"N	80°57'29.9195"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.00	212.560	25.50	0.00	0.00	0.00	1652227.23	14234521.27	39°11'57.6367"N	80°57'29.9195"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.240	212.560	100.00	-0.10	-0.13	-0.08	1652227.15	14234521.14	39°11'57.6354"N	80°57'29.9206"W	0.16	212.560	0.32	0.32	0.00	Gyrodata MS Gyro <17-1/2"> (100'-800')
200.00	0.290	220.410	200.00	-0.36	-0.50	-0.36	1652226.87	14234520.77	39°11'57.6317"N	80°57'29.9241"W	0.62	215.771	0.06	0.05	7.85	
300.00	0.250	258.750	300.00	-0.46	-0.74	-0.74	1652226.49	14234520.53	39°11'57.6294"N	80°57'29.9289"W	1.04	225.108	0.18	-0.04	38.34	
400.00	0.130	229.190	400.00	-0.47	-0.85	-1.04	1652226.19	14234520.42	39°11'57.6282"N	80°57'29.9327"W	1.34	230.614	0.15	-0.12	-29.56	
500.00	0.100	184.950	500.00	-0.59	-1.01	-1.13	1652226.10	14234520.26	39°11'57.6266"N	80°57'29.9339"W	1.52	228.154	0.09	-0.03	-44.24	
600.00	0.150	190.780	600.00	-0.79	-1.23	-1.16	1652226.07	14234520.04	39°11'57.6245"N	80°57'29.9343"W	1.69	223.438	0.05	0.05	5.83	
700.00	0.170	230.430	700.00	-0.95	-1.45	-1.30	1652225.93	14234519.82	39°11'57.6223"N	80°57'29.9361"W	1.95	221.893	0.11	0.02	39.65	
800.00	0.150	210.060	800.00	-1.09	-1.66	-1.48	1652225.75	14234519.61	39°11'57.6203"N	80°57'29.9384"W	2.23	221.769	0.06	-0.02	-20.37	
900.00	0.440	206.450	899.99	-1.45	-2.12	-1.72	1652225.51	14234519.15	39°11'57.6157"N	80°57'29.9414"W	2.73	219.079	0.29	0.29	-3.61	Gyrodata MS Gyro <12-1/4"> (800')(900'-928')
928.00	0.470	206.730	927.99	-1.60	-2.32	-1.82	1652225.41	14234518.95	39°11'57.6138"N	80°57'29.9426"W	2.94	218.144	0.11	0.11	1.00	
1051.00	0.970	119.280	1050.99	-2.73	-3.28	-1.14	1652226.09	14234518.00	39°11'57.6043"N	80°57'29.9340"W	3.47	199.152	0.86	0.41	-71.10	APS EM <12-1/4"> (928')(1051'-3161')
1145.00	2.380	98.500	1144.94	-4.22	-3.95	1.49	1652228.72	14234517.32	39°11'57.5976"N	80°57'29.9007"W	4.22	159.391	1.61	1.50	-22.11	
1240.00	4.900	91.550	1239.75	-6.55	-4.35	7.49	1652234.72	14234516.92	39°11'57.5936"N	80°57'29.8244"W	8.67	120.160	2.69	2.65	-7.32	
1334.00	6.940	87.500	1333.24	-9.55	-4.22	17.18	1652244.41	14234517.06	39°11'57.5949"N	80°57'29.7013"W	17.69	103.786	2.21	2.17	-4.31	
1429.00	9.250	87.460	1427.29	-13.32	-3.63	30.55	1652257.76	14234517.64	39°11'57.6007"N	80°57'29.5315"W	30.76	96.772	2.43	2.43	-0.04	
1524.00	11.050	88.540	1520.80	-18.20	-3.06	47.28	1652274.49	14234518.21	39°11'57.6062"N	80°57'29.3190"W	47.37	93.699	1.91	1.89	1.14	
1618.00	12.320	90.460	1612.85	-24.22	-2.91	66.31	1652293.51	14234518.36	39°11'57.6076"N	80°57'29.0773"W	66.37	92.511	1.41	1.35	2.04	
1713.00	13.000	94.570	1705.54	-31.83	-3.84	87.10	1652314.29	14234517.43	39°11'57.5983"N	80°57'28.8132"W	87.18	92.525	1.19	0.72	4.33	
1807.00	13.310	96.050	1797.07	-40.60	-5.82	108.40	1652335.58	14234515.45	39°11'57.5786"N	80°57'28.5427"W	108.55	93.075	0.49	0.33	1.57	
1902.00	13.290	94.070	1889.52	-49.47	-7.75	130.16	1652357.34	14234513.52	39°11'57.5595"N	80°57'28.2662"W	130.39	93.408	0.48	-0.02	-2.08	
1997.00	13.310	93.610	1981.98	-57.92	-9.21	151.97	1652379.14	14234512.06	39°11'57.5449"N	80°57'27.9892"W	152.25	93.470	0.11	0.02	-0.48	
2091.00	13.460	96.870	2073.42	-66.81	-11.20	173.63	1652400.79	14234510.07	39°11'57.5251"N	80°57'27.7141"W	173.99	93.692	0.82	0.16	3.47	
2186.00	12.860	102.410	2165.93	-77.11	-14.80	194.93	1652422.08	14234506.48	39°11'57.4895"N	80°57'27.4435"W	195.49	94.341	1.47	-0.63	5.83	
2281.00	12.780	102.610	2258.56	-88.09	-19.36	215.51	1652442.65	14234501.91	39°11'57.4443"N	80°57'27.1822"W	216.38	95.135	0.10	-0.08	0.21	
2375.00	11.560	102.610	2350.45	-98.45	-23.69	234.85	1652461.98	14234497.59	39°11'57.4014"N	80°57'26.9366"W	236.04	95.760	1.30	-1.30	0.00	
2470.00	11.090	103.740	2443.60	-108.35	-27.94	253.01	1652480.14	14234493.34	39°11'57.3593"N	80°57'26.7059"W	254.55	96.301	0.55	-0.49	1.19	
2565.00	10.990	101.290	2536.84	-117.83	-31.88	270.77	1652497.89	14234489.40	39°11'57.3203"N	80°57'26.4804"W	272.64	96.715	0.50	-0.11	-2.58	
2659.00	10.820	99.950	2629.15	-126.59	-35.16	288.25	1652515.36	14234486.12	39°11'57.2878"N	80°57'26.2584"W	290.38	96.955	0.32	-0.18	-1.43	



Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (239 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
2754.00	10.470	99.820	2722.51	-135.04	-38.17	305.53	1652532.64	14234483.11	39°11'57.2579"N	80°57'26.0388"W	307.91	97.122	0.37	-0.37	-0.14	
2849.00	10.190	98.170	2815.97	-143.00	-40.84	322.36	1652549.46	14234480.45	39°11'57.2315"N	80°57'25.8251"W	324.93	97.220	0.43	-0.29	-1.74	
2943.00	9.690	96.600	2908.56	-150.19	-42.93	338.45	1652565.54	14234478.36	39°11'57.2108"N	80°57'25.6208"W	341.16	97.229	0.60	-0.53	-1.67	
3038.00	9.470	92.690	3002.24	-156.51	-44.22	354.20	1652581.28	14234477.07	39°11'57.1980"N	80°57'25.4207"W	356.94	97.116	0.72	-0.23	-4.12	
3133.00	9.940	96.770	3095.88	-162.93	-45.55	370.14	1652597.23	14234475.74	39°11'57.1847"N	80°57'25.2182"W	372.94	97.016	0.88	0.49	4.29	
3161.00	9.910	99.690	3123.46	-165.13	-46.24	374.92	1652602.00	14234475.05	39°11'57.1779"N	80°57'25.1575"W	377.76	97.031	1.80	-0.11	10.43	
3224.00	9.850	97.440	3185.52	-170.11	-47.85	385.61	1652612.68	14234473.44	39°11'57.1619"N	80°57'25.0218"W	388.56	97.074	0.62	-0.10	-3.57	APS EM <8-3/4"> (3161')(3224'-5623')
3319.00	9.090	89.330	3279.23	-176.07	-48.82	401.17	1652628.24	14234472.47	39°11'57.1523"N	80°57'24.8241"W	404.13	96.938	1.61	-0.80	-8.54	
3414.00	9.700	97.240	3372.96	-181.94	-49.74	416.61	1652643.68	14234471.55	39°11'57.1431"N	80°57'24.6279"W	419.57	96.808	1.50	0.64	8.33	
3508.00	10.610	100.680	3465.49	-189.70	-52.34	432.97	1652660.03	14234468.95	39°11'57.1174"N	80°57'24.4201"W	436.12	96.893	1.16	0.97	3.66	
3603.00	10.330	95.750	3558.91	-197.56	-54.81	450.04	1652677.09	14234466.48	39°11'57.0928"N	80°57'24.2033"W	453.37	96.944	0.99	-0.29	-5.19	
3698.00	10.160	98.010	3652.40	-204.90	-56.83	466.81	1652693.86	14234464.46	39°11'57.0728"N	80°57'23.9903"W	470.26	96.941	0.46	-0.18	2.38	
3792.00	9.940	96.590	3744.95	-212.15	-58.92	483.08	1652710.12	14234462.37	39°11'57.0521"N	80°57'23.7837"W	486.66	96.954	0.35	-0.23	-1.51	
3887.00	9.390	88.910	3838.61	-218.04	-59.71	498.98	1652726.01	14234461.58	39°11'57.0441"N	80°57'23.5818"W	502.54	96.824	1.47	-0.58	-8.08	
3982.00	9.330	91.700	3932.34	-223.12	-59.79	514.42	1652741.45	14234461.50	39°11'57.0433"N	80°57'23.3856"W	517.89	96.630	0.48	-0.06	2.94	
4077.00	9.870	101.110	4026.02	-229.90	-61.59	530.11	1652757.13	14234459.70	39°11'57.0254"N	80°57'23.1863"W	533.68	96.627	1.74	0.57	9.91	
4171.00	9.640	98.880	4118.66	-237.59	-64.36	545.79	1652772.80	14234456.94	39°11'56.9980"N	80°57'22.9871"W	549.57	96.725	0.47	-0.24	-2.37	
4266.00	9.560	102.760	4212.33	-245.44	-67.33	561.35	1652788.35	14234453.97	39°11'56.9686"N	80°57'22.7896"W	565.37	96.840	0.69	-0.08	4.08	
4361.00	10.560	105.350	4305.87	-254.48	-71.38	577.44	1652804.43	14234449.92	39°11'56.9285"N	80°57'22.5853"W	581.83	97.047	1.16	1.05	2.73	
4456.00	10.190	100.880	4399.32	-263.55	-75.27	594.08	1652821.07	14234446.03	39°11'56.8900"N	80°57'22.3738"W	598.83	97.221	0.93	-0.39	-4.71	
4550.00	10.770	97.320	4491.75	-271.56	-77.96	610.96	1652837.94	14234443.35	39°11'56.8633"N	80°57'22.1595"W	615.91	97.271	0.92	0.62	-3.79	
4645.00	10.460	93.240	4585.13	-278.73	-79.57	628.37	1652855.35	14234441.73	39°11'56.8472"N	80°57'21.9383"W	633.39	97.217	0.86	-0.33	-4.29	
4740.00	10.500	94.560	4678.54	-285.42	-80.75	645.61	1652872.58	14234440.55	39°11'56.8355"N	80°57'21.7193"W	650.64	97.129	0.26	0.04	1.39	
4838.00	10.140	103.120	4774.96	-293.55	-83.42	662.92	1652889.88	14234437.89	39°11'56.8091"N	80°57'21.4996"W	668.14	97.172	1.61	-0.37	8.73	
4932.00	9.030	102.240	4867.65	-301.75	-86.86	678.18	1652905.14	14234434.45	39°11'56.7750"N	80°57'21.3056"W	683.72	97.299	1.19	-1.18	-0.94	
5027.00	9.440	101.140	4961.42	-309.50	-89.95	693.11	1652920.07	14234431.36	39°11'56.7444"N	80°57'21.1160"W	698.93	97.394	0.47	0.43	-1.16	
5125.00	10.710	98.980	5057.90	-317.78	-92.92	709.99	1652936.94	14234428.39	39°11'56.7149"N	80°57'20.9016"W	716.05	97.456	1.35	1.30	-2.20	
5220.00	11.390	100.970	5151.14	-326.57	-96.08	727.92	1652954.86	14234425.23	39°11'56.6836"N	80°57'20.6739"W	734.24	97.519	0.82	0.72	2.09	
5314.00	10.920	99.670	5243.37	-335.45	-99.34	745.81	1652972.74	14234421.97	39°11'56.6513"N	80°57'20.4467"W	752.40	97.587	0.57	-0.50	-1.38	
5409.00	11.280	97.060	5336.59	-343.82	-102.00	763.90	1652990.83	14234419.31	39°11'56.6249"N	80°57'20.2169"W	770.68	97.605	0.65	0.38	-2.75	



Actual Wellpath Report

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Slot	Slot B		

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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
5504.00	10.380	92.550	5429.90	-351.01	-103.52	781.67	1653008.59	14234417.79	39°11'56.6098"N	80°57'19.9912"W	788.50	97.544	1.30	-0.95	-4.75	
5598.00	8.770	86.250	5522.59	-355.98	-103.43	797.29	1653024.20	14234417.88	39°11'56.6106"N	80°57'19.7929"W	803.97	97.391	2.04	-1.71	-6.70	
5623.00	8.290	83.880	5547.31	-356.88	-103.11	800.98	1653027.89	14234418.20	39°11'56.6137"N	80°57'19.7460"W	807.59	97.335	2.38	-1.92	-9.48	
5714.00	8.140	76.350	5637.38	-358.92	-100.89	813.76	1653040.67	14234420.42	39°11'56.6356"N	80°57'19.5836"W	820.00	97.068	1.19	-0.16	-8.27	BH Lucida <8-1/2"> (5623°)(5714°-21942°)
5809.00	10.910	46.700	5731.12	-355.81	-93.13	826.85	1653053.75	14234428.17	39°11'56.7122"N	80°57'19.4173"W	832.08	96.426	5.84	2.92	-31.21	
5903.00	15.740	21.210	5822.63	-342.37	-75.12	837.96	1653064.85	14234446.18	39°11'56.8902"N	80°57'19.2761"W	841.32	95.123	7.98	5.14	-27.12	
5998.00	23.430	4.560	5912.14	-315.12	-44.21	844.13	1653071.02	14234477.08	39°11'57.1957"N	80°57'19.1975"W	845.29	92.998	9.93	8.09	-17.53	
6092.00	28.120	356.830	5996.79	-276.62	-3.43	844.39	1653071.28	14234517.84	39°11'57.5988"N	80°57'19.1939"W	844.40	90.233	6.13	4.99	-8.22	
6129.00†	31.374	356.205	6028.91	-258.92	14.89	843.27	1653070.17	14234536.16	39°11'57.7799"N	80°57'19.2080"W	843.41	88.988	8.83	8.79	-1.69	Sycamore: 6129' MD
6187.00	36.480	355.430	6077.02	-227.62	47.17	840.90	1653067.79	14234568.42	39°11'58.0989"N	80°57'19.2380"W	842.22	86.790	8.83	8.80	-1.34	
6282.00	45.370	354.960	6148.72	-167.31	109.11	835.67	1653062.56	14234630.34	39°11'58.7112"N	80°57'19.3040"W	842.76	82.561	9.36	9.36	-0.49	
6331.00†	50.385	353.258	6181.58	-131.91	145.25	831.92	1653058.81	14234666.46	39°11'59.0684"N	80°57'19.3514"W	844.50	80.096	10.55	10.24	-3.47	Middlesex: 6331' MD
6376.00	55.010	351.900	6208.84	-96.84	180.73	827.28	1653054.18	14234701.93	39°11'59.4191"N	80°57'19.4101"W	846.80	77.676	10.55	10.28	-3.02	
6471.00	62.840	348.590	6257.85	-16.57	260.83	813.42	1653040.32	14234781.99	39°12'0.2108"N	80°57'19.5857"W	854.21	72.221	8.76	8.24	-3.48	
6528.00†	66.674	346.254	6282.16	34.67	311.13	802.18	1653029.08	14234832.27	39°12'0.7080"N	80°57'19.7282"W	860.40	68.801	7.68	6.73	-4.10	Burkett: 6528' MD
6565.00	69.180	344.810	6296.06	68.85	344.32	793.61	1653020.52	14234865.46	39°12'1.0362"N	80°57'19.8368"W	865.08	66.545	7.68	6.77	-3.90	
6608.00†	71.390	343.826	6310.57	109.26	383.29	782.66	1653009.58	14234904.41	39°12'1.4214"N	80°57'19.9756"W	871.48	63.908	5.57	5.14	-2.29	Tully: 6608' MD
6660.00	74.070	342.670	6326.00	158.88	430.84	768.35	1652995.27	14234951.93	39°12'1.8914"N	80°57'20.1571"W	880.90	60.719	5.57	5.15	-2.22	
6679.00†	75.626	342.647	6330.97	177.21	448.34	762.88	1652989.81	14234969.43	39°12'2.0644"N	80°57'20.2264"W	884.87	59.558	8.19	8.19	-0.12	Marcellus POE: 6679' MD
6755.00	81.850	342.560	6345.80	251.68	519.43	740.61	1652967.54	14235040.49	39°12'2.7672"N	80°57'20.5089"W	904.61	54.956	8.19	8.19	-0.12	
6850.00	90.030	340.710	6352.53	346.36	609.29	710.77	1652937.72	14235130.31	39°12'3.6554"N	80°57'20.8874"W	936.18	49.396	8.83	8.61	-1.95	
6944.00	90.430	340.440	6352.15	440.35	697.93	679.51	1652906.47	14235218.92	39°12'4.5318"N	80°57'21.2839"W	974.09	44.234	0.51	0.43	-0.29	
7038.00	90.220	340.500	6351.61	534.34	786.52	648.09	1652875.06	14235307.48	39°12'5.4075"N	80°57'21.6826"W	1019.14	39.488	0.23	-0.22	0.06	
7133.00	90.310	340.470	6351.18	629.34	876.07	616.35	1652843.33	14235396.98	39°12'6.2927"N	80°57'22.0851"W	1071.16	35.128	0.10	0.09	-0.03	
7322.00	90.220	340.230	6350.30	818.32	1054.06	552.80	1652779.80	14235574.90	39°12'8.0523"N	80°57'22.8913"W	1190.22	27.675	0.14	-0.05	-0.13	
7417.00	90.280	340.500	6349.89	913.31	1143.53	520.87	1652747.90	14235664.34	39°12'8.9368"N	80°57'23.2963"W	1256.57	24.489	0.29	0.06	0.28	
7512.00	90.340	340.720	6349.37	1008.30	1233.14	489.34	1652716.37	14235753.92	39°12'9.8226"N	80°57'23.6964"W	1326.68	21.644	0.24	0.06	0.23	
7606.00	90.180	340.500	6348.95	1102.30	1321.81	458.13	1652685.17	14235842.55	39°12'10.6991"N	80°57'24.0923"W	1398.95	19.116	0.29	-0.17	-0.23	
7701.00	90.280	340.300	6348.57	1197.29	1411.31	426.26	1652653.32	14235932.01	39°12'11.5838"N	80°57'24.4965"W	1474.27	16.806	0.24	0.11	-0.21	
7795.00	90.220	340.310	6348.15	1291.28	1499.81	394.58	1652621.65	14236020.47	39°12'12.4587"N	80°57'24.8984"W	1550.84	14.740	0.06	-0.06	0.01	



Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (239 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
7890.00	90.250	340.550	6347.77	1386.27	1589.32	362.76	1652589.85	14236109.95	39°12'13.3436"N	80°57'25.3021"W	1630.19	12.857	0.25	0.03	0.25	
7985.00	90.310	340.430	6347.30	1481.27	1678.86	331.03	1652558.13	14236199.46	39°12'14.2288"N	80°57'25.7046"W	1711.19	11.154	0.14	0.06	-0.13	
8079.00	90.250	340.490	6346.84	1575.26	1767.45	299.59	1652526.70	14236288.01	39°12'15.1045"N	80°57'26.1034"W	1792.66	9.621	0.09	-0.06	0.06	
8174.00	90.250	340.430	6346.43	1670.25	1856.97	267.82	1652494.94	14236377.50	39°12'15.9895"N	80°57'26.5065"W	1876.19	8.207	0.06	0.00	-0.06	
8268.00	90.310	340.390	6345.97	1764.25	1945.53	236.30	1652463.44	14236466.02	39°12'16.8650"N	80°57'26.9063"W	1959.83	6.925	0.08	0.06	-0.04	
8363.00	90.310	340.330	6345.45	1859.24	2035.00	204.37	1652431.52	14236555.46	39°12'17.7494"N	80°57'27.3114"W	2045.24	5.735	0.06	0.00	-0.06	
8457.00	90.280	340.610	6344.97	1953.23	2123.59	172.95	1652400.11	14236644.01	39°12'18.6252"N	80°57'27.7101"W	2130.63	4.656	0.30	-0.03	0.30	
8552.00	90.310	340.420	6344.48	2048.22	2213.15	141.26	1652368.44	14236733.53	39°12'19.5105"N	80°57'28.1121"W	2217.66	3.652	0.20	0.03	-0.20	
8646.00	90.310	340.460	6343.97	2142.21	2301.73	109.79	1652336.98	14236822.07	39°12'20.3861"N	80°57'28.5113"W	2304.34	2.731	0.04	0.00	0.04	
8741.00	90.310	340.640	6343.46	2237.21	2391.30	78.16	1652305.36	14236911.61	39°12'21.2716"N	80°57'28.9127"W	2392.58	1.872	0.19	0.00	0.19	
8836.00	90.310	340.500	6342.94	2332.20	2480.89	46.56	1652273.77	14237001.17	39°12'22.1573"N	80°57'29.3136"W	2481.33	1.075	0.15	0.00	-0.15	
8930.00	90.370	340.990	6342.39	2426.20	2569.63	15.56	1652242.78	14237089.87	39°12'23.0345"N	80°57'29.7068"W	2569.68	0.347	0.53	0.06	0.52	
9024.00	90.620	340.630	6341.57	2520.19	2658.41	-15.34	1652211.90	14237178.61	39°12'23.9121"N	80°57'30.0988"W	2658.45	359.669	0.47	0.27	-0.38	
9119.00	90.620	340.900	6340.55	2615.19	2748.10	-46.63	1652180.62	14237268.26	39°12'24.7987"N	80°57'30.4959"W	2748.49	359.028	0.28	0.00	0.28	
9214.00	90.490	340.030	6339.63	2710.17	2837.62	-78.40	1652148.86	14237357.75	39°12'25.6837"N	80°57'30.8989"W	2838.71	358.417	0.93	-0.14	-0.92	
9308.00	90.740	341.200	6338.62	2804.16	2926.29	-109.59	1652117.68	14237446.38	39°12'26.5602"N	80°57'31.2947"W	2928.34	357.855	1.27	0.27	1.24	
9498.00	90.490	340.860	6336.58	2994.15	3105.96	-171.35	1652055.94	14237625.98	39°12'28.3363"N	80°57'32.0782"W	3110.68	356.842	0.22	-0.13	-0.18	
9592.00	90.860	341.620	6335.47	3088.15	3194.96	-201.58	1652025.73	14237714.94	39°12'29.2161"N	80°57'32.4617"W	3201.31	356.390	0.90	0.39	0.81	
9687.00	90.800	340.650	6334.09	3183.13	3284.84	-232.30	1651995.03	14237804.79	39°12'30.1047"N	80°57'32.8514"W	3293.05	355.955	1.02	-0.06	-1.02	
9782.00	90.770	340.530	6332.79	3278.12	3374.44	-263.86	1651963.47	14237894.35	39°12'30.9903"N	80°57'33.2519"W	3384.74	355.529	0.13	-0.03	-0.13	
9876.00	90.800	340.690	6331.50	3372.11	3463.10	-295.07	1651932.28	14237982.97	39°12'31.8668"N	80°57'33.6478"W	3475.64	355.130	0.17	0.03	0.17	
9971.00	90.710	340.540	6330.25	3467.10	3552.70	-326.60	1651900.76	14238072.54	39°12'32.7526"N	80°57'34.0479"W	3567.68	354.748	0.18	-0.09	-0.16	
10066.00	90.740	340.620	6329.05	3562.09	3642.29	-358.18	1651869.19	14238162.10	39°12'33.6382"N	80°57'34.4486"W	3659.86	354.384	0.09	0.03	0.08	
10160.00	90.770	340.610	6327.81	3656.07	3730.95	-389.38	1651838.01	14238250.72	39°12'34.5146"N	80°57'34.8444"W	3751.22	354.042	0.03	0.03	-0.01	
10255.00	90.770	340.570	6326.54	3751.06	3820.55	-420.95	1651806.45	14238340.28	39°12'35.4003"N	80°57'35.2450"W	3843.67	353.713	0.04	0.00	-0.04	
10350.00	90.490	340.550	6325.49	3846.05	3910.12	-452.56	1651774.85	14238429.82	39°12'36.2858"N	80°57'35.6461"W	3936.23	353.398	0.30	-0.29	-0.02	
10444.00	90.550	340.510	6324.64	3940.04	3998.75	-483.89	1651743.53	14238518.41	39°12'37.1619"N	80°57'36.0436"W	4027.92	353.100	0.08	0.06	-0.04	
10539.00	90.580	340.610	6323.70	4035.03	4088.33	-515.51	1651711.93	14238607.95	39°12'38.0474"N	80°57'36.4448"W	4120.70	352.813	0.11	0.03	0.11	
10634.00	90.490	340.550	6322.81	4130.02	4177.92	-547.10	1651680.35	14238697.51	39°12'38.9331"N	80°57'36.8456"W	4213.58	352.540	0.11	-0.09	-0.06	
10728.00	90.550	340.770	6321.96	4224.02	4266.61	-578.22	1651649.24	14238786.16	39°12'39.8098"N	80°57'37.2405"W	4305.61	352.282	0.24	0.06	0.23	



Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib Unit 1H AWP
Slot	Slot B		

WELLPATH DATA (239 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
10823.00	90.580	340.780	6321.02	4319.01	4356.31	-609.50	1651617.97	14238875.83	39°12'40.6965"N	80°57'37.6374"W	4398.74	352.035	0.03	0.03	0.01	
10918.00	90.490	340.680	6320.14	4414.01	4445.98	-640.86	1651586.63	14238965.46	39°12'41.5830"N	80°57'38.0352"W	4491.93	351.798	0.14	-0.09	-0.11	
11012.00	90.520	340.400	6319.31	4508.00	4534.61	-672.17	1651555.33	14239054.05	39°12'42.4591"N	80°57'38.4326"W	4584.15	351.568	0.30	0.03	-0.30	
11107.00	90.120	340.660	6318.78	4602.99	4624.17	-703.83	1651523.68	14239143.58	39°12'43.3445"N	80°57'38.8344"W	4677.43	351.346	0.50	-0.42	0.27	
11202.00	90.280	340.710	6318.45	4697.99	4713.82	-735.26	1651492.27	14239233.20	39°12'44.2307"N	80°57'39.2331"W	4770.82	351.135	0.18	0.17	0.05	
11296.00	90.180	340.560	6318.07	4791.98	4802.51	-766.42	1651461.11	14239321.85	39°12'45.1074"N	80°57'39.6286"W	4863.28	350.933	0.19	-0.11	-0.16	
11391.00	89.720	338.080	6318.15	4886.93	4891.38	-799.97	1651427.58	14239410.68	39°12'45.9859"N	80°57'40.0543"W	4956.36	350.712	2.66	-0.48	-2.61	
11486.00	90.400	338.390	6318.05	4981.81	4979.60	-835.20	1651392.37	14239498.87	39°12'46.8581"N	80°57'40.5013"W	5049.16	350.479	0.79	0.72	0.33	
11580.00	90.220	340.400	6317.54	5075.76	5067.59	-868.28	1651359.30	14239586.82	39°12'47.7278"N	80°57'40.9211"W	5141.43	350.277	2.15	-0.19	2.14	
11675.00	90.180	340.260	6317.21	5170.75	5157.04	-900.25	1651327.34	14239676.24	39°12'48.6121"N	80°57'41.3269"W	5235.03	350.098	0.15	-0.04	-0.15	
11770.00	89.970	340.680	6317.09	5265.75	5246.58	-932.01	1651295.59	14239765.74	39°12'49.4972"N	80°57'41.7299"W	5328.71	349.927	0.49	-0.22	0.44	
11864.00	89.850	340.350	6317.24	5359.74	5335.19	-963.37	1651264.25	14239854.32	39°12'50.3732"N	80°57'42.1278"W	5421.47	349.764	0.37	-0.13	-0.35	
11959.00	89.820	340.240	6317.51	5454.73	5424.63	-995.40	1651232.23	14239943.72	39°12'51.2573"N	80°57'42.5342"W	5515.20	349.602	0.12	-0.03	-0.12	
12054.00	90.220	340.750	6317.48	5549.72	5514.18	-1027.12	1651200.53	14240033.23	39°12'52.1425"N	80°57'42.9367"W	5609.02	349.449	0.68	0.42	0.54	
12148.00	89.820	339.320	6317.44	5643.70	5602.52	-1059.21	1651168.44	14240121.54	39°12'53.0158"N	80°57'43.3440"W	5701.77	349.294	1.58	-0.43	-1.52	
12243.00	89.720	340.170	6317.82	5738.68	5691.65	-1092.10	1651135.57	14240210.63	39°12'53.8969"N	80°57'43.7614"W	5795.48	349.138	0.90	-0.11	0.89	
12337.00	90.580	342.780	6317.58	5832.66	5780.77	-1121.96	1651105.72	14240299.72	39°12'54.7778"N	80°57'44.1403"W	5888.64	349.016	2.92	0.91	2.78	
12432.00	90.250	342.060	6316.89	5927.64	5871.33	-1150.66	1651077.04	14240390.24	39°12'55.6730"N	80°57'44.5044"W	5983.02	348.912	0.83	-0.35	-0.76	
12527.00	89.720	340.960	6316.92	6022.63	5961.42	-1180.78	1651046.92	14240480.30	39°12'56.5636"N	80°57'44.8867"W	6077.24	348.796	1.29	-0.56	-1.16	
12621.00	89.880	341.440	6317.24	6116.63	6050.41	-1211.08	1651016.64	14240569.25	39°12'57.4433"N	80°57'45.2711"W	6170.42	348.681	0.54	0.17	0.51	
12716.00	89.720	340.910	6317.57	6211.63	6140.32	-1241.73	1650986.00	14240659.13	39°12'58.3321"N	80°57'45.6601"W	6264.62	348.568	0.58	-0.17	-0.56	
12810.00	89.940	341.980	6317.85	6305.63	6229.44	-1271.64	1650956.10	14240748.20	39°12'59.2130"N	80°57'46.0397"W	6357.90	348.462	1.16	0.23	1.14	
12905.00	89.850	341.790	6318.03	6400.62	6319.73	-1301.18	1650926.57	14240838.46	39°13'0.1056"N	80°57'46.4145"W	6452.29	348.366	0.22	-0.09	-0.20	
13000.00	89.880	341.620	6318.25	6495.61	6409.92	-1331.00	1650896.76	14240928.62	39°13'0.9972"N	80°57'46.7929"W	6546.66	348.269	0.18	0.03	-0.18	
13094.00	89.940	341.870	6318.40	6589.61	6499.19	-1360.45	1650867.33	14241017.85	39°13'1.8796"N	80°57'47.1666"W	6640.06	348.177	0.27	0.06	0.27	
13189.00	89.480	341.370	6318.88	6684.60	6589.35	-1390.40	1650837.39	14241107.97	39°13'2.7708"N	80°57'47.5467"W	6734.44	348.085	0.72	-0.48	-0.53	
13283.00	89.420	341.390	6319.78	6778.60	6678.42	-1420.41	1650807.39	14241197.01	39°13'3.6513"N	80°57'47.9275"W	6827.80	347.993	0.07	-0.06	0.02	
13378.00	89.380	341.390	6320.78	6873.59	6768.45	-1450.73	1650777.09	14241287.00	39°13'4.5413"N	80°57'48.3123"W	6922.18	347.902	0.04	-0.04	0.00	
13473.00	89.420	341.430	6321.77	6968.58	6858.49	-1481.01	1650746.81	14241377.00	39°13'5.4313"N	80°57'48.6966"W	7016.57	347.815	0.06	0.04	0.04	
13567.00	89.600	341.750	6322.58	7062.58	6947.67	-1510.70	1650717.14	14241466.15	39°13'6.3129"N	80°57'49.0733"W	7110.02	347.733	0.39	0.19	0.34	



Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (239 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
13662.00	89.540	341.660	6323.29	7157.57	7037.87	-1540.52	1650687.33	14241556.31	39°13'7.2045"N	80°57'49.4517"W	7204.50	347.653	0.11	-0.06	-0.09	
13756.00	89.450	341.650	6324.12	7251.56	7127.09	-1570.10	1650657.76	14241645.49	39°13'8.0865"N	80°57'49.8271"W	7297.99	347.576	0.10	-0.10	-0.01	
13851.00	90.400	342.140	6324.24	7346.55	7217.38	-1599.62	1650628.25	14241735.75	39°13'8.9790"N	80°57'50.2018"W	7392.52	347.503	1.13	1.00	0.52	
13946.00	89.690	341.800	6324.17	7441.54	7307.72	-1629.03	1650598.86	14241826.05	39°13'9.8720"N	80°57'50.5749"W	7487.09	347.433	0.83	-0.75	-0.36	
14040.00	89.630	341.720	6324.72	7535.53	7396.99	-1658.45	1650569.45	14241915.29	39°13'10.7545"N	80°57'50.9483"W	7580.63	347.363	0.11	-0.06	-0.09	
14135.00	89.540	341.550	6325.41	7630.52	7487.15	-1688.38	1650539.53	14242005.41	39°13'11.6457"N	80°57'51.3281"W	7675.16	347.292	0.20	-0.09	-0.18	
14229.00	89.570	341.500	6326.14	7724.52	7576.30	-1718.17	1650509.76	14242094.53	39°13'12.5270"N	80°57'51.7062"W	7768.69	347.223	0.06	0.03	-0.05	
14324.00	89.540	341.690	6326.88	7819.51	7666.44	-1748.16	1650479.77	14242184.63	39°13'13.4181"N	80°57'52.0868"W	7863.23	347.155	0.20	-0.03	0.20	
14419.00	89.570	341.520	6327.62	7914.51	7756.59	-1778.14	1650449.81	14242274.74	39°13'14.3091"N	80°57'52.4673"W	7957.79	347.088	0.18	0.03	-0.18	
14513.00	89.510	341.600	6328.37	8008.50	7845.76	-1807.87	1650420.09	14242363.87	39°13'15.1906"N	80°57'52.8446"W	8051.35	347.024	0.11	-0.06	0.09	
14608.00	89.450	341.840	6329.24	8103.49	7935.96	-1837.67	1650390.30	14242454.04	39°13'16.0823"N	80°57'53.2228"W	8145.95	346.962	0.26	-0.06	0.25	
14703.00	89.510	341.460	6330.10	8198.48	8026.12	-1867.57	1650360.41	14242544.17	39°13'16.9736"N	80°57'53.6023"W	8240.54	346.901	0.40	0.06	-0.40	
14797.00	89.510	341.550	6330.90	8292.48	8115.27	-1897.39	1650330.60	14242633.27	39°13'17.8547"N	80°57'53.9807"W	8334.12	346.840	0.10	0.00	0.10	
14892.00	89.480	341.590	6331.74	8387.47	8205.39	-1927.42	1650300.58	14242723.36	39°13'18.7456"N	80°57'54.3619"W	8428.72	346.781	0.05	-0.03	0.04	
14987.00	89.510	341.670	6332.58	8482.46	8295.54	-1957.36	1650270.66	14242813.48	39°13'19.6368"N	80°57'54.7419"W	8523.34	346.724	0.09	0.03	0.08	
15081.00	89.480	341.550	6333.40	8576.46	8384.74	-1987.02	1650241.01	14242902.64	39°13'20.5185"N	80°57'55.1182"W	8616.97	346.668	0.13	-0.03	-0.13	
15176.00	89.350	341.680	6334.37	8671.45	8474.89	-2016.98	1650211.06	14242992.75	39°13'21.4096"N	80°57'55.4985"W	8711.60	346.613	0.19	-0.14	0.14	
15271.00	89.480	341.500	6335.34	8766.44	8565.02	-2046.98	1650181.07	14243082.85	39°13'22.3006"N	80°57'55.8793"W	8806.23	346.559	0.23	0.14	-0.19	
15365.00	89.450	341.660	6336.22	8860.43	8654.20	-2076.68	1650151.39	14243171.99	39°13'23.1822"N	80°57'56.2562"W	8899.88	346.506	0.17	-0.03	0.17	
15460.00	89.540	341.620	6337.06	8955.42	8744.36	-2106.60	1650121.48	14243262.12	39°13'24.0734"N	80°57'56.6360"W	8994.53	346.455	0.10	0.09	-0.04	
15555.00	89.510	341.530	6337.85	9050.42	8834.49	-2136.63	1650091.46	14243352.21	39°13'24.9643"N	80°57'57.0171"W	9089.19	346.404	0.10	-0.03	-0.09	
15649.00	89.690	343.150	6338.50	9144.39	8924.05	-2165.14	1650062.96	14243441.74	39°13'25.8497"N	80°57'57.3790"W	9182.95	346.362	1.73	0.19	1.72	
15744.00	89.540	341.730	6339.14	9239.36	9014.62	-2193.80	1650034.31	14243532.27	39°13'26.7449"N	80°57'57.7427"W	9277.72	346.322	1.50	-0.16	-1.49	
15838.00	89.630	341.730	6339.82	9333.35	9103.88	-2223.27	1650004.85	14243621.49	39°13'27.6273"N	80°57'58.1167"W	9371.42	346.276	0.10	0.10	0.00	
15933.00	89.540	341.430	6340.51	9428.35	9194.01	-2253.29	1649974.85	14243711.59	39°13'28.5182"N	80°57'58.4977"W	9466.10	346.229	0.33	-0.09	-0.32	
16027.00	89.540	341.450	6341.27	9522.34	9283.12	-2283.21	1649944.94	14243800.66	39°13'29.3991"N	80°57'58.8775"W	9559.78	346.182	0.02	0.00	0.02	
16122.00	89.510	341.350	6342.05	9617.34	9373.15	-2313.51	1649914.65	14243890.66	39°13'30.2891"N	80°57'59.2621"W	9654.45	346.135	0.11	-0.03	-0.11	
16217.00	89.480	341.500	6342.89	9712.33	9463.20	-2343.77	1649884.41	14243980.67	39°13'31.1792"N	80°57'59.6462"W	9749.12	346.089	0.16	-0.03	0.16	
16311.00	89.600	341.520	6343.65	9806.33	9552.35	-2373.58	1649854.61	14244069.78	39°13'32.0604"N	80°58'0.0246"W	9842.82	346.046	0.13	0.13	0.02	
16406.00	89.540	341.650	6344.36	9901.32	9642.48	-2403.59	1649824.61	14244159.87	39°13'32.9513"N	80°58'0.4055"W	9937.54	346.003	0.15	-0.06	0.14	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (239 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
16500.00	89.480	341.650	6345.16	9995.31	9731.70	-2433.18	1649795.03	14244249.06	39°13'33.8333"N	80°58'0.7811"W	10031.26	345.962	0.06	-0.06	0.00	
16595.00	89.570	341.700	6345.95	10090.30	9821.88	-2463.05	1649765.17	14244339.20	39°13'34.7247"N	80°58'1.1602"W	10126.00	345.922	0.11	0.09	0.05	
16690.00	89.570	341.590	6346.66	10185.30	9912.04	-2492.96	1649735.27	14244429.33	39°13'35.6160"N	80°58'1.5399"W	10220.73	345.882	0.12	0.00	-0.12	
16784.00	89.510	341.620	6347.42	10279.29	10001.23	-2522.62	1649705.62	14244518.49	39°13'36.4976"N	80°58'1.9164"W	10314.47	345.844	0.07	-0.06	0.03	
16879.00	89.570	341.590	6348.18	10374.28	10091.38	-2552.60	1649675.66	14244608.59	39°13'37.3887"N	80°58'2.2969"W	10409.21	345.805	0.07	0.06	-0.03	
16974.00	89.510	341.540	6348.94	10469.28	10181.50	-2582.64	1649645.63	14244698.68	39°13'38.2796"N	80°58'2.6782"W	10503.95	345.767	0.08	-0.06	-0.05	
17068.00	89.510	341.570	6349.75	10563.27	10270.67	-2612.38	1649615.90	14244787.81	39°13'39.1610"N	80°58'3.0558"W	10597.69	345.729	0.03	0.00	0.03	
17163.00	89.480	341.720	6350.58	10658.26	10360.83	-2642.30	1649586.00	14244877.94	39°13'40.0523"N	80°58'3.4355"W	10692.45	345.693	0.16	-0.03	0.16	
17257.00	89.480	341.820	6351.44	10752.25	10450.11	-2671.70	1649556.60	14244967.18	39°13'40.9348"N	80°58'3.8087"W	10786.23	345.659	0.11	0.00	0.11	
17352.00	89.570	341.590	6352.22	10847.25	10540.30	-2701.52	1649526.79	14245057.34	39°13'41.8263"N	80°58'4.1873"W	10881.00	345.624	0.26	0.09	-0.24	
17446.00	89.940	342.460	6352.63	10941.23	10629.71	-2730.53	1649497.80	14245146.71	39°13'42.7102"N	80°58'4.5555"W	10974.82	345.594	1.01	0.39	0.93	
17541.00	89.720	341.550	6352.91	11036.22	10720.06	-2759.88	1649468.46	14245237.03	39°13'43.6033"N	80°58'4.9280"W	11069.63	345.563	0.99	-0.23	-0.96	
17635.00	89.780	341.620	6353.32	11130.21	10809.25	-2789.57	1649438.78	14245326.18	39°13'44.4849"N	80°58'5.3050"W	11163.40	345.529	0.10	0.06	0.07	
17730.00	89.820	341.660	6353.65	11225.21	10899.41	-2819.50	1649408.87	14245416.30	39°13'45.3761"N	80°58'5.6848"W	11258.19	345.496	0.06	0.04	0.04	
17824.00	89.690	341.640	6354.05	11319.21	10988.63	-2849.09	1649379.29	14245505.49	39°13'46.2581"N	80°58'6.0605"W	11351.98	345.465	0.14	-0.14	-0.02	
17919.00	89.780	341.650	6354.49	11414.20	11078.80	-2879.00	1649349.38	14245595.62	39°13'47.1494"N	80°58'6.4402"W	11446.77	345.433	0.10	0.09	0.01	
18014.00	89.780	341.690	6354.86	11509.19	11168.98	-2908.88	1649319.52	14245685.76	39°13'48.0408"N	80°58'6.8195"W	11541.56	345.402	0.04	0.00	0.04	
18108.00	89.750	341.550	6355.24	11603.19	11258.18	-2938.52	1649289.89	14245774.93	39°13'48.9226"N	80°58'7.1957"W	11635.36	345.371	0.15	-0.03	-0.15	
18203.00	89.750	341.480	6355.66	11698.19	11348.28	-2968.64	1649259.78	14245864.99	39°13'49.8132"N	80°58'7.5781"W	11730.14	345.340	0.07	0.00	-0.07	
18298.00	89.850	341.790	6355.99	11793.18	11438.44	-2998.57	1649229.86	14245955.11	39°13'50.7044"N	80°58'7.9581"W	11824.95	345.311	0.34	0.11	0.33	
18392.00	89.720	341.650	6356.34	11887.18	11527.70	-3028.05	1649200.39	14246044.33	39°13'51.5867"N	80°58'8.3324"W	11918.76	345.282	0.20	-0.14	-0.15	
18487.00	89.820	341.680	6356.72	11982.17	11617.87	-3057.94	1649170.52	14246134.47	39°13'52.4781"N	80°58'8.7117"W	12013.57	345.254	0.11	0.11	0.03	
18582.00	89.450	340.570	6357.33	12077.17	11707.76	-3088.67	1649139.80	14246224.33	39°13'53.3666"N	80°58'9.1019"W	12108.33	345.221	1.23	-0.39	-1.17	
18676.00	89.630	339.920	6358.08	12171.15	11796.23	-3120.44	1649108.04	14246312.76	39°13'54.2411"N	80°58'9.5053"W	12201.97	345.183	0.72	0.19	-0.69	
18771.00	89.750	340.370	6358.60	12266.14	11885.58	-3152.71	1649075.79	14246402.07	39°13'55.1243"N	80°58'9.9149"W	12296.60	345.144	0.49	0.13	0.47	
18866.00	89.600	340.790	6359.13	12361.13	11975.17	-3184.29	1649044.22	14246491.63	39°13'56.0100"N	80°58'10.3159"W	12391.30	345.109	0.47	-0.16	0.44	
18960.00	89.380	341.410	6359.97	12455.13	12064.10	-3214.74	1649013.78	14246580.52	39°13'56.8890"N	80°58'10.7025"W	12485.07	345.079	0.70	-0.23	0.66	
19055.00	89.720	341.500	6360.72	12550.12	12154.16	-3244.95	1648983.58	14246670.55	39°13'57.7793"N	80°58'11.0860"W	12579.88	345.052	0.37	0.36	0.09	
19150.00	89.660	341.610	6361.23	12645.12	12244.28	-3275.01	1648953.54	14246760.63	39°13'58.6701"N	80°58'11.4676"W	12674.70	345.025	0.13	-0.06	0.12	
19244.00	90.220	342.590	6361.33	12739.10	12333.73	-3303.90	1648924.66	14246850.04	39°13'59.5543"N	80°58'11.8344"W	12768.58	345.004	1.20	0.60	1.04	



Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (239 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
19339.00	89.450	341.580	6361.60	12834.09	12424.12	-3333.12	1648895.45	14246940.40	39°14'0.4478"N	80°58'12.2054"W	12863.46	344.982	1.34	-0.81	-1.06	
19434.00	89.420	341.090	6362.54	12929.08	12514.12	-3363.52	1648865.06	14247030.36	39°14'1.3374"N	80°58'12.5914"W	12958.26	344.956	0.52	-0.03	-0.52	
19528.00	89.780	341.690	6363.20	13023.08	12603.20	-3393.52	1648835.07	14247119.41	39°14'2.2180"N	80°58'12.9722"W	13052.08	344.930	0.74	0.38	0.64	
19623.00	89.570	340.630	6363.74	13118.07	12693.11	-3424.20	1648804.41	14247209.28	39°14'3.1067"N	80°58'13.3617"W	13146.87	344.903	1.14	-0.22	-1.12	
19718.00	89.350	340.290	6364.63	13213.06	12782.63	-3455.97	1648772.65	14247298.77	39°14'3.9917"N	80°58'13.7651"W	13241.58	344.871	0.43	-0.23	-0.36	
19812.00	89.450	340.410	6365.62	13307.05	12871.15	-3487.58	1648741.05	14247387.25	39°14'4.8667"N	80°58'14.1664"W	13335.29	344.839	0.17	0.11	0.13	
19907.00	89.350	340.710	6366.61	13402.04	12960.73	-3519.20	1648709.45	14247476.80	39°14'5.7522"N	80°58'14.5678"W	13430.02	344.809	0.33	-0.11	0.32	
20001.00	89.410	339.120	6367.63	13496.01	13049.01	-3551.47	1648677.18	14247565.04	39°14'6.6248"N	80°58'14.9777"W	13523.67	344.775	1.69	0.06	-1.69	
20191.00	89.540	340.510	6369.37	13685.95	13227.33	-3617.03	1648611.65	14247743.28	39°14'8.3875"N	80°58'15.8101"W	13712.95	344.706	0.73	0.07	0.73	
20285.00	89.570	340.660	6370.10	13779.94	13315.98	-3648.27	1648580.42	14247831.90	39°14'9.2638"N	80°58'16.2068"W	13806.71	344.678	0.16	0.03	0.16	
20380.00	89.350	339.570	6370.99	13874.92	13405.31	-3680.59	1648548.12	14247921.19	39°14'10.1468"N	80°58'16.6171"W	13901.40	344.647	1.17	-0.23	-1.15	
20474.00	89.540	340.470	6371.90	13968.90	13493.65	-3712.70	1648516.02	14248009.50	39°14'11.0200"N	80°58'17.0249"W	13995.10	344.616	0.98	0.20	0.96	
20569.00	89.480	340.590	6372.72	14063.89	13583.21	-3744.37	1648484.37	14248099.02	39°14'11.9054"N	80°58'17.4270"W	14089.85	344.589	0.14	-0.06	0.13	
20664.00	89.450	340.430	6373.60	14158.88	13672.76	-3776.06	1648452.69	14248188.54	39°14'12.7906"N	80°58'17.8294"W	14184.61	344.561	0.17	-0.03	-0.17	
20758.00	89.450	340.520	6374.51	14252.87	13761.36	-3807.48	1648421.28	14248277.10	39°14'13.6663"N	80°58'18.2283"W	14278.37	344.534	0.10	0.00	0.10	
20853.00	89.510	340.390	6375.37	14347.86	13850.88	-3839.26	1648389.52	14248366.58	39°14'14.5512"N	80°58'18.6319"W	14373.12	344.507	0.15	0.06	-0.14	
20948.00	89.600	340.680	6376.11	14442.86	13940.44	-3870.91	1648357.87	14248456.11	39°14'15.4366"N	80°58'19.0338"W	14467.89	344.481	0.32	0.09	0.31	
21043.00	89.600	340.610	6376.77	14537.85	14030.07	-3902.40	1648326.40	14248545.71	39°14'16.3226"N	80°58'19.4336"W	14562.68	344.456	0.07	0.00	-0.07	
21137.00	89.510	340.400	6377.50	14631.84	14118.68	-3933.77	1648295.05	14248634.28	39°14'17.1984"N	80°58'19.8319"W	14656.46	344.431	0.24	-0.10	-0.22	
21232.00	89.450	340.420	6378.36	14726.83	14208.18	-3965.62	1648263.21	14248723.74	39°14'18.0831"N	80°58'20.2364"W	14751.22	344.405	0.07	-0.06	0.02	
21326.00	89.420	340.560	6379.29	14820.82	14296.78	-3997.01	1648231.83	14248812.30	39°14'18.9589"N	80°58'20.6350"W	14845.00	344.380	0.15	-0.03	0.15	
21421.00	89.450	340.590	6380.23	14915.81	14386.37	-4028.60	1648200.25	14248901.85	39°14'19.8445"N	80°58'21.0362"W	14939.78	344.356	0.04	0.03	0.03	
21516.00	89.320	340.380	6381.24	15010.80	14475.90	-4060.33	1648168.53	14248991.36	39°14'20.7295"N	80°58'21.4392"W	15034.56	344.332	0.26	-0.14	-0.22	
21610.00	89.480	340.420	6382.23	15104.79	14564.45	-4091.87	1648137.01	14249079.87	39°14'21.6048"N	80°58'21.8396"W	15128.34	344.307	0.18	0.17	0.04	
21705.00	89.510	340.530	6383.07	15199.78	14653.99	-4123.61	1648105.27	14249169.37	39°14'22.4898"N	80°58'22.2427"W	15223.12	344.283	0.12	0.03	0.12	
21800.00	89.480	340.200	6383.90	15294.77	14743.46	-4155.54	1648073.36	14249258.80	39°14'23.3743"N	80°58'22.6481"W	15317.90	344.259	0.35	-0.03	-0.35	
21894.00	89.540	340.490	6384.71	15388.76	14831.98	-4187.15	1648041.76	14249347.29	39°14'24.2493"N	80°58'23.0496"W	15411.68	344.235	0.32	0.06	0.31	
21942.00	89.480	340.440	6385.12	15436.75	14877.21	-4203.20	1648025.72	14249392.50	39°14'24.6964"N	80°58'23.2534"W	15459.57	344.224	0.16	-0.13	-0.10	
21969.00†	89.480	340.440	6385.36	15463.75	14902.65	-4212.24	1648016.68	14249417.94	39°14'24.9479"N	80°58'23.3682"W	15486.51	344.217	0.00	0.00	0.00	Projected MD at TD: 21969'

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 7.07		Reference: IADC/SPE 59196	
Values	Wellpath characterized as:	Values	Wellpath characterized as:
< 6.0	Relatively short or simple profiles with low tortuosity	6.4-6.8	Longer with relatively tortuous well paths
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity	> 6.8	Long tortuous profiles, high degree of difficulty

HOLE & CASING SECTIONS - Ref Wellbore: Jib Unit 1H AWB Ref Wellpath: Jib Unit 1H AWP Proj: 21969'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.22	-0.14
17.5in Open Hole	125.50	863.00	737.50	125.50	863.00	-0.22	-0.14	-1.89	-1.61
13.375in Casing Surface	25.50	843.00	817.50	25.50	843.00	0.00	0.00	-1.80	-1.56
12.25in Open Hole	863.00	3240.00	2377.00	863.00	3201.29	-1.89	-1.61	-48.17	388.30
9.625in Casing Intermediate	25.50	3210.00	3184.50	25.50	3171.73	0.00	0.00	-47.53	383.23
8.75in Open Hole	3240.00	5700.00	2460.00	3201.29	5623.52	-48.17	388.30	-101.34	811.83
8.5in Open Hole	5700.00	21969.00	16269.00	5623.52	6385.36	-101.34	811.83	14902.65	-4212.24
5.5in Casing Production	25.50	21949.00	21923.50	25.50	6385.18	0.00	0.00	14883.81	-4205.55



Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Miner Pad	Wellbore	Jib 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
Jib Unit 1H POE Rev-3	6335.00	437.14	739.73	1652966.66	14234958.23	39°12'1.9538"N	80°57'20.5206"W	point
Jib Unit 1H BHL Rev-3	6357.00	15010.26	-4246.58	1647982.36	14249525.50	39°14'26.0116"N	80°58'23.8042"W	point
Jib Unit 1H BHL Rev-4	6357.00	14863.12	-4196.23	1648032.69	14249378.42	39°14'24.5571"N	80°58'23.1649"W	point
Jib Unit 1H LP Rev-3	6357.00	603.80	682.70	1652909.66	14235124.83	39°12'3.6013"N	80°57'21.2440"W	point
Jib Unit 1H 50' L/R Hard Line R-2	6500.00	7650.13	-1728.25	1650499.67	14242168.32	39°13'13.2567"N	80°57'51.8340"W	rectangle
2D Rectangle 15247.1 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Jib Unit 1H AWB Ref Wellpath: Jib Unit 1H AWP Proj: 21969'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	800.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-800')	Jib Unit 1H AWB	5/16/2025
800.00	928.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4"> (800')(900'-928')	Jib Unit 1H AWB	5/17/2025
928.00	3161.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (928')(1051'-3161')	Jib Unit 1H AWB	5/16/2025
3161.00	5623.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3161')(3224'-5623')	Jib Unit 1H AWB	5/28/2025
5623.00	21969.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH Lucida <8-1/2"> (5623')(5714'-21942')	Jib Unit 1H AWB	5/28/2025



Actual Wellpath Report

Jib Unit 1H AWP Proj: 21969'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jib Unit 1H
Field	Ritchie	API	47-085-10552-0000
Facility	Minear Pad	Wellbore	Jib Unit 1H AWB
Slot	Slot B		

COMMENTS

Wellpath general comments

API: 47-085-10552-0000

BH Job #: 112660887

Rig: H&P 317

Duration: 5/30/2025-6/3/2025

Gyrodata MS Gyro <17-1/2"> (100'-800')

Gyrodata MS Gyro <12-1/4"> (800')(900'-928')

APS EM <12-1/4"> (928')(1051'-3161')

APS EM <8-3/4"> (3161')(3224'-5623')

BH Lucida <8-1/2"> (5623')(5714'-21942')

Sycamore: 6129' MD

Middlesex: 6331' MD

Burkett: 6528' MD

Tully: 6608' MD

Marcellus POE: 6679' MD

Projected MD at TD: 21969'