



# ANTERO RESOURCES CORPORATION



Location: Wetzell County, WV  
Field: Wetzell  
Facility: Fluharty Pad

Slot: Slot E  
Well: Rine Unit 1H  
Wellbore: Rine Unit 1H PWB

Easting (ft)

Plot reference wellpath is Rine Unit 1H PWB 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: 1206.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot E): -1181 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's detail MD stream	Created by: velasquez on 2024-04-19; Database: WA_APL_EASTERNUS_Data

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Fluharty Pad	1692686.950	14370026.840	39°34'16.0661"N	80°48'52.2497"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot E	-10.40	10.81	1692697.760	14370018.440
Comment: Rine Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot E)				25.5ft
Mean Sea Level to Ground level (At Slot: Slot E)				-1181 ft
H&P 317 (RKB) to Mean Sea Level				1206.5ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	3010.00	2.260	247.650	3001.68	18.52	139.70	0.26	-28.14
Proj. to Bottom	3099.00	2.260	247.650	3090.61	17.33	136.82	0.00	-28.32
KOP 1	3169.00	2.260	247.650	3160.55	16.13	133.90	0.00	-28.50
End of 3D Arc	4324.28	20.893	80.019	4292.78	43.55	318.22	2.00	-62.81
Curve KOP	6302.62	20.893	80.019	6141.05	165.82	1013.08	0.00	-174.27
POE	7167.80	73.569	340.925	6767.00	663.81	1032.50	9.00	290.04
Landing Pt.	7350.37	90.000	340.925	6793.00	834.01	973.65	9.00	470.12
BHL	24017.02	90.000	340.925	6793.00	16585.53	-4473.08	0.00	17136.77

Scale 1 inch = 200'

Gyrodata MS Gyro <17-1/2"> (100'-400') : 0.11" Inc, 100.00ft MD, 100.00ft TVD, 0.04ft VS  
 Gyrodata MS Gyro <12-3/8"> (400')(467') : 0.42" Inc, 467.00ft MD, 466.99ft TVD, -2.06ft VS  
 APS EM <12-3/8"> (467')(500'-3010') : 0.54" Inc, 500.00ft MD, 499.99ft TVD, -2.32ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot E	Rine Unit 1H	Rine Unit 1H AWB	Rine Unit 1H AWP Proj: 24081'
Slot E	Rine Unit 1H	Rine Unit 1H PWB	Rine Unit 1H PWB Rev-B.0

True Vertical Depth (ft)

APS EM <8-3/4"> (3010')(3108'-6321') : 2.07" Inc, 3108.00ft MD, 3099.61ft TVD, -28.64ft VS



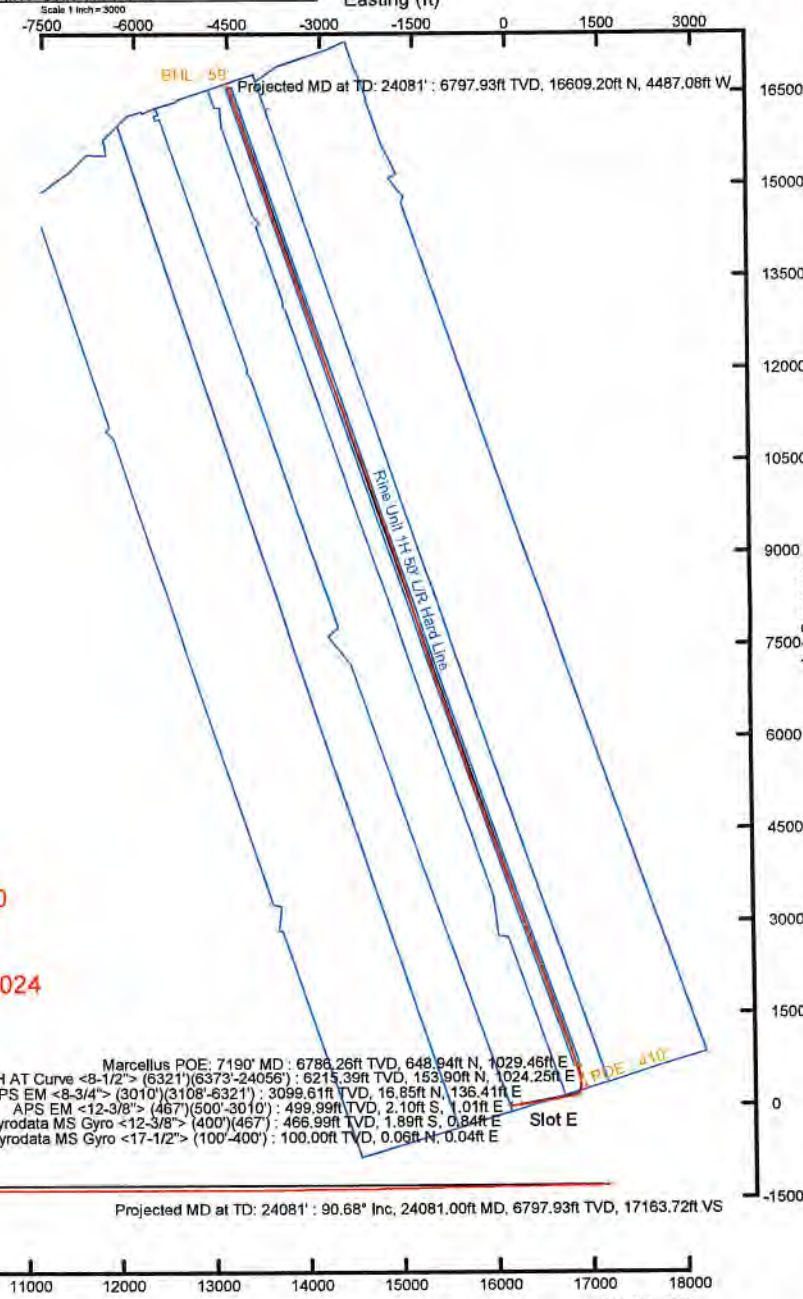
User specified (HDGM) Dip, 66.24° Field: 51490 nT  
 Magnetic North is 7.52 degrees West of True North (at 4/13/2024)  
 Grid North is 0.12 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.12 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.64 degrees

BH AT Curve <8-1/2"> (6321')(6373'-24056') : 22.59" Inc, 6373.00ft MD, 6215.39ft TVD, -189.19ft VS

Marcellus POE: 7190' MD : 76.26" Inc, 7190.00ft MD, 6786.26ft TVD, -276.98ft VS

API: 47-103-03637-0000  
 BH Job #: 112156746  
 Rig: H&P 317  
 Duration: 4/14/2024-4/18/2024

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Marcellus POE: 7190' MD : 6786.26ft TVD, 648.94ft N, 1029.46ft E  
 BH AT Curve <8-1/2"> (6321')(6373'-24056') : 6215.39ft TVD, 153.90ft N, 1024.25ft E  
 APS EM <8-3/4"> (3010')(3108'-6321') : 3099.61ft TVD, 16.85ft N, 136.41ft E  
 APS EM <12-3/8"> (467')(500'-3010') : 499.99ft TVD, 2.10ft S, 1.01ft E  
 Gyrodata MS Gyro <12-3/8"> (400')(467') : 466.99ft TVD, 1.89ft S, 0.84ft E  
 Gyrodata MS Gyro <17-1/2"> (100'-400') : 100.00ft TVD, 0.06ft N, 0.04ft E

Vertical Section (ft)  
 Azimuth 340.93° with reference 0.00 N, 0.00 E

Scale 1 inch = 2000'





# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999603	Report Generated	4/19/2024 at 2:10:47 PM
Convergence at slot	0.12° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-10.40	10.81	1692697.76	14370018.44	39°34'16.8631"N	80°48'52.1119"W
Facility Reference Pt			1692686.95	14370028.84	39°34'16.9661"N	80°48'52.2497"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	1206.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1206.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot E)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.93°

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWP
Slot	Slot E		

WELLPATH DATA (264 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	35.950	0.00	0.00	0.00	0.00	1692697.76	14370018.44	39°34'16.8631"N	80°48'52.1119"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	35.950	25.50	0.00	0.00	0.00	1692697.76	14370018.44	39°34'16.8631"N	80°48'52.1119"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.110	35.950	100.00	0.04	0.06	0.04	1692697.80	14370018.50	39°34'16.8637"N	80°48'52.1114"W	0.07	35.950	0.15	0.15	0.00	Gyrodata MS Gyro <17-1/2"> (100'-400')
200.00	0.300	151.710	200.00	-0.16	-0.09	0.22	1692697.98	14370018.35	39°34'16.8622"N	80°48'52.1091"W	0.24	113.113	0.36	0.19	115.76	
300.00	0.420	165.780	300.00	-0.79	-0.88	0.44	1692698.20	14370017.76	39°34'16.8564"N	80°48'52.1063"W	0.81	147.330	0.15	0.12	14.07	
400.00	0.460	164.810	399.99	-1.55	-1.42	0.63	1692698.39	14370017.02	39°34'16.8490"N	80°48'52.1039"W	1.56	156.068	0.04	0.04	-0.97	
467.00	0.420	146.530	466.99	-2.06	-1.89	0.84	1692698.60	14370016.55	39°34'16.8444"N	80°48'52.1012"W	2.07	156.073	0.22	-0.06	-27.28	Gyrodata MS Gyro <12-3/8"> (400')(467')
500.00	0.540	135.310	499.99	-2.32	-2.10	1.01	1692698.77	14370016.34	39°34'16.8423"N	80°48'52.0990"W	2.33	154.225	0.46	0.36	-34.00	APS EM <12-3/8"> (467')(500'-3010')
625.00	1.330	95.110	624.97	-3.44	-2.65	2.87	1692700.63	14370015.79	39°34'16.8369"N	80°48'52.0753"W	3.91	132.659	0.79	0.63	-32.16	
681.00	2.980	89.490	680.93	-4.17	-2.69	4.98	1692702.73	14370015.75	39°34'16.8364"N	80°48'52.0484"W	5.66	118.415	2.97	2.95	-10.04	
770.00	3.690	84.800	769.78	-5.59	-2.41	10.14	1692707.90	14370016.03	39°34'16.8391"N	80°48'51.9825"W	10.42	103.378	0.85	0.80	-5.27	
858.00	4.590	86.010	857.55	-7.19	-1.91	16.47	1692714.23	14370016.53	39°34'16.8439"N	80°48'51.9016"W	16.58	96.614	1.03	1.02	1.38	
946.00	5.360	88.900	945.22	-9.37	-1.59	24.10	1692721.85	14370016.85	39°34'16.8469"N	80°48'51.8042"W	24.15	93.767	0.92	0.88	3.28	
1040.00	5.410	87.030	1038.80	-11.96	-1.27	32.91	1692730.66	14370017.17	39°34'16.8499"N	80°48'51.6917"W	32.94	92.214	0.19	0.05	-1.99	
1134.00	6.440	88.010	1132.30	-14.73	-0.86	42.61	1692740.35	14370017.58	39°34'16.8537"N	80°48'51.5679"W	42.61	91.156	1.10	1.10	1.04	
1229.00	6.740	84.390	1226.67	-17.60	-0.13	53.48	1692751.22	14370018.31	39°34'16.8607"N	80°48'51.4290"W	53.48	90.139	0.54	0.32	-3.81	
1323.00	6.930	83.650	1320.01	-20.13	1.04	64.60	1692762.34	14370019.48	39°34'16.8720"N	80°48'51.2869"W	64.61	89.081	0.22	0.20	-0.79	
1417.00	7.140	85.370	1413.30	-22.83	2.14	76.06	1692773.79	14370020.57	39°34'16.8827"N	80°48'51.1405"W	76.09	88.392	0.32	0.22	1.83	
1512.00	6.950	85.080	1507.58	-25.71	3.10	87.67	1692785.40	14370021.54	39°34'16.8920"N	80°48'50.9922"W	87.73	87.972	0.20	-0.20	-0.31	
1606.00	7.250	85.110	1600.86	-28.55	4.10	99.25	1692796.97	14370022.54	39°34'16.9016"N	80°48'50.8444"W	99.33	87.636	0.32	0.32	0.03	
1701.00	7.450	84.770	1695.08	-31.50	5.17	111.36	1692809.07	14370023.61	39°34'16.9119"N	80°48'50.6898"W	111.48	87.341	0.22	0.21	-0.36	
1795.00	6.580	84.970	1788.38	-34.26	6.20	122.79	1692820.50	14370024.64	39°34'16.9219"N	80°48'50.5437"W	122.95	87.110	0.93	-0.93	0.21	
1890.00	4.440	86.730	1882.93	-36.58	6.89	131.88	1692829.59	14370025.32	39°34'16.9285"N	80°48'50.4276"W	132.06	87.011	2.26	-2.25	1.85	
1984.00	3.880	82.000	1976.68	-38.18	7.54	138.67	1692836.37	14370025.97	39°34'16.9347"N	80°48'50.3410"W	138.87	86.889	0.70	-0.60	-5.03	
2079.00	3.740	80.310	2071.47	-39.31	8.50	144.90	1692842.61	14370026.94	39°34'16.9442"N	80°48'50.2613"W	145.15	86.641	0.19	-0.15	-1.78	
2173.00	3.230	72.070	2165.30	-39.86	9.84	150.44	1692848.14	14370028.27	39°34'16.9572"N	80°48'50.1905"W	150.77	86.259	0.76	-0.54	-8.77	
2268.00	2.620	51.540	2260.18	-39.19	12.01	154.69	1692852.39	14370030.45	39°34'16.9786"N	80°48'50.1362"W	155.16	85.560	1.27	-0.64	-21.61	
2362.00	2.190	13.780	2354.10	-36.97	15.09	156.80	1692854.50	14370033.52	39°34'17.0090"N	80°48'50.1092"W	157.53	84.503	1.71	-0.46	-40.17	
2457.00	2.460	339.080	2449.03	-33.41	18.76	156.51	1692854.20	14370037.19	39°34'17.0453"N	80°48'50.1128"W	157.63	83.165	1.48	0.28	-36.53	
2551.00	2.100	311.490	2542.96	-29.89	21.78	154.50	1692852.19	14370040.22	39°34'17.0752"N	80°48'50.1384"W	156.02	81.974	1.21	-0.38	-29.35	

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (264 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
2646.00	1.780	271.620	2637.90	-27.85	22.98	151.72	1692849.42	14370041.41	39°34'17.0871"N	80°48'50.1739"W	153.45	81.388	1.43	-0.34	-41.97	
2740.00	1.970	249.010	2731.86	-27.39	22.44	148.75	1692846.45	14370040.87	39°34'17.0819"N	80°48'50.2118"W	150.43	81.421	0.81	0.20	-24.05	
2835.00	2.080	247.180	2826.80	-27.56	21.19	145.64	1692843.34	14370039.62	39°34'17.0695"N	80°48'50.2516"W	147.17	81.722	0.13	0.12	-1.93	
2929.00	2.100	244.100	2920.73	-27.87	19.77	142.51	1692840.22	14370038.21	39°34'17.0556"N	80°48'50.2915"W	143.88	82.101	0.12	0.02	-3.26	
3010.00	2.260	247.650	3001.68	-28.14	18.52	139.70	1692837.41	14370036.95	39°34'17.0433"N	80°48'50.3274"W	140.92	82.449	0.26	0.20	4.38	
3108.00	2.070	238.340	3099.61	-28.64	16.85	136.41	1692834.11	14370035.29	39°34'17.0269"N	80°48'50.3695"W	137.45	82.956	0.41	-0.19	-9.50	APS EM <8-3/4"> (3010')(3108'-6321')
3202.00	1.810	140.550	3193.57	-30.40	14.82	135.91	1692833.61	14370033.25	39°34'17.0068"N	80°48'50.3760"W	136.71	83.778	3.12	-0.28	-104.03	
3297.00	4.400	110.000	3288.43	-34.10	12.41	140.29	1692837.99	14370030.85	39°34'16.9829"N	80°48'50.3202"W	140.83	84.944	3.14	2.73	-32.16	
3391.00	6.830	94.240	3381.98	-38.59	10.76	149.25	1692846.95	14370029.20	39°34'16.9664"N	80°48'50.2057"W	149.64	85.875	3.04	2.59	-16.77	
3485.00	6.830	88.120	3475.31	-42.45	10.53	160.41	1692858.11	14370028.97	39°34'16.9639"N	80°48'50.0632"W	160.76	86.243	0.77	0.00	-6.51	
3580.00	6.490	83.970	3569.67	-45.33	11.28	171.40	1692869.09	14370029.72	39°34'16.9711"N	80°48'49.9229"W	171.77	86.233	0.62	-0.36	-4.37	
3674.00	5.960	81.670	3663.12	-47.44	12.55	181.51	1692879.19	14370030.98	39°34'16.9834"N	80°48'49.7938"W	181.94	86.045	0.62	-0.56	-2.45	
3769.00	7.550	77.290	3757.45	-49.05	14.64	192.48	1692890.16	14370033.07	39°34'17.0038"N	80°48'49.6536"W	193.03	85.651	1.76	1.67	-4.61	
3863.00	9.960	75.040	3850.35	-50.32	18.09	206.36	1692904.03	14370036.53	39°34'17.0377"N	80°48'49.4763"W	207.15	84.989	2.59	2.56	-2.39	
3958.00	11.680	78.960	3943.66	-52.25	22.06	223.73	1692921.40	14370040.49	39°34'17.0765"N	80°48'49.2543"W	224.82	84.370	1.97	1.81	4.13	
4052.00	13.560	82.330	4035.39	-55.76	25.35	243.99	1692941.66	14370043.78	39°34'17.1087"N	80°48'48.9955"W	245.31	84.068	2.15	2.00	3.59	
4146.00	15.520	86.950	4126.38	-61.41	27.49	267.48	1692965.13	14370045.92	39°34'17.1293"N	80°48'48.6955"W	268.89	84.132	2.42	2.09	4.91	
4241.00	17.530	87.640	4217.45	-69.03	28.76	294.47	1692992.11	14370047.18	39°34'17.1413"N	80°48'48.3508"W	295.87	84.422	2.13	2.12	0.73	
4335.00	18.430	84.630	4306.86	-76.62	30.73	323.41	1693021.04	14370049.16	39°34'17.1602"N	80°48'47.9812"W	324.86	84.572	1.38	0.96	-3.20	
4429.00	21.790	81.730	4395.12	-83.41	34.63	355.48	1693053.09	14370053.06	39°34'17.1931"N	80°48'47.5716"W	357.16	84.436	3.73	3.57	-3.09	
4524.00	22.100	78.600	4483.24	-89.10	40.70	390.44	1693088.05	14370059.12	39°34'17.2574"N	80°48'47.1249"W	392.56	84.049	1.27	0.33	-3.29	
4618.00	20.390	73.900	4570.85	-92.31	48.74	423.52	1693121.11	14370067.16	39°34'17.3361"N	80°48'46.7024"W	426.31	83.435	2.57	-1.82	-5.00	
4713.00	19.630	75.040	4660.12	-94.31	57.45	454.83	1693152.41	14370075.86	39°34'17.4215"N	80°48'46.3023"W	458.45	82.802	0.90	-0.80	1.20	
4807.00	19.740	78.320	4748.62	-97.48	64.74	485.63	1693183.20	14370083.15	39°34'17.4930"N	80°48'45.9087"W	489.93	82.407	1.18	0.12	3.49	
4901.00	20.890	82.560	4836.78	-102.91	70.12	517.80	1693215.35	14370088.53	39°34'17.5455"N	80°48'45.4978"W	522.53	82.288	1.99	1.22	4.51	
4996.00	22.780	86.940	4924.97	-111.39	73.30	552.97	1693250.51	14370091.71	39°34'17.5762"N	80°48'45.0487"W	557.80	82.449	2.63	1.99	4.61	
5093.00	22.680	85.460	5014.43	-121.26	75.78	590.36	1693287.88	14370094.19	39°34'17.5999"N	80°48'44.5711"W	595.20	82.686	0.60	-0.10	-1.53	
5187.00	20.700	81.120	5101.78	-128.75	79.78	624.85	1693322.36	14370098.19	39°34'17.6387"N	80°48'44.1306"W	629.92	82.724	2.71	-2.11	-4.62	
5282.00	21.310	78.180	5190.47	-133.90	85.91	658.33	1693355.83	14370104.31	39°34'17.6986"N	80°48'43.7028"W	663.91	82.565	1.28	0.64	-3.09	
5376.00	21.240	74.800	5278.07	-137.21	93.87	691.48	1693388.97	14370112.27	39°34'17.7766"N	80°48'43.2793"W	697.83	82.269	1.31	-0.07	-3.60	

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ANTERO RESOURCES CORPORATION





# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (264 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
5471.00	21.100	77.050	5366.66	-140.19	102.21	724.75	1693422.23	14370120.61	39°34'17.8584"N	80°48'42.8542"W	731.93	81.972	0.87	-0.15	2.37	
5565.00	20.050	75.660	5454.66	-143.32	110.00	756.86	1693454.31	14370128.39	39°34'17.9347"N	80°48'42.4441"W	764.81	81.731	1.23	-1.12	-1.48	
5660.00	19.880	77.310	5543.95	-146.46	117.58	788.39	1693485.84	14370135.97	39°34'18.0090"N	80°48'42.0412"W	797.11	81.518	0.62	-0.18	1.74	
5754.00	21.150	81.080	5631.99	-151.23	123.72	820.74	1693518.17	14370142.11	39°34'18.0690"N	80°48'41.6279"W	830.01	81.428	1.95	1.35	4.01	
5849.00	21.870	83.540	5720.38	-158.11	128.37	855.25	1693552.67	14370146.76	39°34'18.1142"N	80°48'41.1870"W	864.83	81.464	1.21	0.76	2.59	
5943.00	20.320	80.690	5808.08	-164.70	132.98	888.76	1693586.17	14370151.36	39°34'18.1591"N	80°48'40.7591"W	898.65	81.490	1.98	-1.65	-3.03	
6038.00	17.420	81.460	5897.96	-170.09	137.76	919.11	1693616.50	14370156.14	39°34'18.2057"N	80°48'40.3714"W	929.37	81.476	3.06	-3.05	0.81	
6132.00	16.740	83.570	5987.82	-175.63	141.36	946.47	1693643.86	14370159.75	39°34'18.2408"N	80°48'40.0218"W	956.97	81.505	0.98	-0.72	2.24	
6227.00	18.780	85.970	6078.29	-182.59	143.97	975.33	1693672.70	14370162.35	39°34'18.2659"N	80°48'39.6533"W	985.90	81.603	2.28	2.15	2.53	
6321.00	20.090	78.180	6166.94	-188.56	148.34	1006.23	1693703.59	14370166.72	39°34'18.3085"N	80°48'39.2586"W	1017.10	81.614	3.09	1.39	-8.29	
6373.00	22.590	68.090	6215.39	-189.19	153.90	1024.25	1693721.60	14370172.28	39°34'18.3631"N	80°48'39.0284"W	1035.74	81.455	8.53	4.81	-19.40	BH AT Curve <8-1/2"> (6321')(6373'-24056')
6455.00	23.990	53.240	6290.77	-183.34	169.77	1052.24	1693749.58	14370188.14	39°34'18.5193"N	80°48'38.6705"W	1065.85	80.835	7.34	1.71	-18.11	
6549.00	26.890	34.780	6375.78	-164.96	198.72	1079.72	1693777.05	14370217.08	39°34'18.8048"N	80°48'38.3187"W	1097.86	79.572	8.94	3.09	-19.64	
6644.00	32.240	19.110	6458.51	-132.29	240.40	1100.32	1693797.64	14370258.74	39°34'19.2163"N	80°48'38.0546"W	1126.27	77.676	9.86	5.63	-16.49	
6683.00†	33.801	10.544	6491.23	-114.68	260.91	1105.71	1693803.03	14370279.24	39°34'19.4189"N	80°48'37.9852"W	1136.08	76.723	12.61	4.00	-21.97	Sycamore: 6683' MD
6738.00	36.900	359.800	6536.12	-85.72	292.50	1108.46	1693805.78	14370310.92	39°34'19.7311"N	80°48'37.9493"W	1146.40	75.218	12.61	5.64	-19.53	
6831.00†	44.597	350.589	6606.59	-26.97	352.77	1103.01	1693800.33	14370371.07	39°34'20.3269"N	80°48'38.0172"W	1158.05	72.264	10.48	8.28	-9.90	Middlesex: 6831' MD
6833.00	44.770	350.420	6608.01	-25.58	354.16	1102.78	1693800.10	14370372.46	39°34'20.3406"N	80°48'38.0202"W	1158.25	72.196	10.48	8.64	-8.45	
6927.00	51.250	347.090	6670.87	43.59	422.61	1089.06	1693786.39	14370440.88	39°34'21.0174"N	80°48'38.1934"W	1168.18	68.791	7.38	6.89	-3.54	
6965.00†	54.967	345.924	6693.68	73.83	452.15	1081.96	1693779.29	14370470.41	39°34'21.3095"N	80°48'38.2833"W	1172.64	67.320	10.08	9.78	-3.07	Burkett: 6965' MD
7008.00†	59.184	344.727	6717.05	109.81	487.06	1072.81	1693770.15	14370505.30	39°34'21.6547"N	80°48'38.3992"W	1178.20	65.582	10.08	9.81	-2.78	Tully: 7008' MD
7022.00	60.560	344.360	6724.08	121.90	498.73	1069.59	1693766.92	14370516.97	39°34'21.7701"N	80°48'38.4401"W	1180.15	65.001	10.08	9.83	-2.62	
7069.00	64.470	345.440	6745.76	163.48	538.98	1058.73	1693756.07	14370557.20	39°34'22.1681"N	80°48'38.5776"W	1188.03	63.020	8.57	8.32	2.30	
7117.00	69.240	345.130	6764.63	207.48	581.65	1047.52	1693744.87	14370599.86	39°34'22.5901"N	80°48'38.7196"W	1198.18	60.958	9.96	9.94	-0.65	
7190.00†	76.260	344.824	6786.26	276.98	648.94	1029.46	1693726.81	14370667.12	39°34'23.2555"N	80°48'38.9485"W	1216.93	57.774	9.63	9.62	-0.42	Marcellus POE: 7190' MD
7211.00	78.280	344.740	6790.89	297.42	668.71	1024.09	1693721.44	14370686.88	39°34'23.4510"N	80°48'39.0166"W	1223.08	56.856	9.63	9.62	-0.40	
7306.00	86.340	342.590	6803.59	391.37	758.97	997.61	1693694.98	14370777.10	39°34'24.3436"N	80°48'39.3522"W	1253.50	52.737	8.78	8.48	-2.26	
7400.00	88.680	339.570	6807.67	485.27	847.79	967.17	1693664.54	14370865.89	39°34'25.2221"N	80°48'39.7386"W	1286.14	48.763	4.06	2.49	-3.21	
7495.00	90.030	339.720	6808.74	580.23	936.85	934.13	1693631.51	14370954.91	39°34'26.1030"N	80°48'40.1582"W	1322.98	44.917	1.43	1.42	0.16	
7590.00	89.420	339.490	6809.20	675.21	1025.89	901.02	1693598.42	14371043.92	39°34'26.9837"N	80°48'40.5786"W	1365.39	41.292	0.69	-0.64	-0.24	

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Rine Unit 1H
Field	Wetzel		API	47-103-03637-0000
Facility	Fluharty Pad		Wellbore	Rine Unit 1H AWB
Slot	Slot E			

WELLPATH DATA (264 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
7684.00	89.970	339.710	6809.70	769.18	1113.99	868.25	1693565.67	14371131.99	39°34'27.8551"N	80°48'40.9946"W	1412.39	37.933	0.63	0.59	0.23	
7779.00	89.420	340.980	6810.21	864.17	1203.46	836.30	1693533.73	14371221.42	39°34'28.7399"N	80°48'41.4003"W	1465.50	34.796	1.46	-0.58	1.34	
7874.00	89.780	340.950	6810.87	959.17	1293.26	805.32	1693502.76	14371311.18	39°34'29.6281"N	80°48'41.7936"W	1523.50	31.911	0.38	0.38	-0.03	
7968.00	89.320	341.000	6811.61	1053.17	1382.12	774.68	1693472.13	14371400.01	39°34'30.5070"N	80°48'42.1825"W	1584.42	29.271	0.49	-0.49	0.05	
8063.00	89.570	340.850	6812.53	1148.16	1471.90	743.63	1693441.10	14371489.75	39°34'31.3949"N	80°48'42.5765"W	1649.08	26.804	0.31	0.26	-0.16	
8157.00	89.750	340.420	6813.09	1242.16	1560.58	712.46	1693409.94	14371578.40	39°34'32.2720"N	80°48'42.9722"W	1715.52	24.538	0.50	0.19	-0.46	
8252.00	89.080	340.110	6814.06	1337.15	1650.00	680.39	1693377.88	14371667.78	39°34'33.1564"N	80°48'43.3795"W	1784.77	22.409	0.78	-0.71	-0.33	
8346.00	90.770	341.480	6814.18	1431.14	1738.76	649.47	1693346.97	14371756.50	39°34'34.0343"N	80°48'43.7720"W	1856.10	20.482	2.31	1.80	1.46	
8440.00	89.600	339.690	6813.87	1525.13	1827.41	618.22	1693315.74	14371845.12	39°34'34.9111"N	80°48'44.1686"W	1929.15	18.691	2.27	-1.24	-1.90	
8535.00	90.740	342.700	6813.59	1620.12	1917.32	587.60	1693285.13	14371935.00	39°34'35.8004"N	80°48'44.5572"W	2005.35	17.039	3.39	1.20	3.17	
8629.00	90.920	340.230	6812.23	1714.10	2006.43	557.73	1693255.27	14372024.07	39°34'36.6817"N	80°48'44.9364"W	2082.51	15.534	2.63	0.19	-2.63	
8723.00	89.510	340.880	6811.88	1808.09	2095.07	526.44	1693223.99	14372112.67	39°34'37.5583"N	80°48'45.3337"W	2160.20	14.105	1.65	-1.50	0.69	
8818.00	90.250	341.840	6812.08	1903.09	2185.08	496.07	1693193.64	14372202.65	39°34'38.4486"N	80°48'45.7190"W	2240.69	12.791	1.28	0.78	1.01	
8912.00	89.750	340.860	6812.08	1997.08	2274.14	466.01	1693163.59	14372291.68	39°34'39.3294"N	80°48'46.1005"W	2321.40	11.581	1.17	-0.53	-1.04	
9006.00	90.030	340.800	6812.26	2091.08	2362.93	435.15	1693132.73	14372380.43	39°34'40.2075"N	80°48'46.4924"W	2402.67	10.434	0.30	0.30	-0.06	
9101.00	90.280	341.590	6812.00	2186.08	2452.86	404.52	1693102.12	14372470.32	39°34'41.0970"N	80°48'46.8811"W	2485.99	9.365	0.87	0.26	0.83	
9196.00	89.750	340.690	6811.98	2281.08	2542.76	373.82	1693071.43	14372560.18	39°34'41.9861"N	80°48'47.2709"W	2570.09	8.363	1.10	-0.56	-0.95	
9290.00	89.750	341.570	6812.39	2375.08	2631.70	343.41	1693041.04	14372649.09	39°34'42.8658"N	80°48'47.6568"W	2654.02	7.435	0.94	0.00	0.94	
9385.00	90.060	340.440	6812.54	2470.07	2721.53	312.49	1693010.13	14372738.88	39°34'43.7542"N	80°48'48.0493"W	2739.41	6.550	1.23	0.33	-1.19	
9479.00	90.180	340.770	6812.35	2564.07	2810.20	281.28	1692978.93	14372827.51	39°34'44.6311"N	80°48'48.4456"W	2824.24	5.716	0.37	0.13	0.35	
9574.00	90.120	341.210	6812.10	2659.07	2900.01	250.33	1692947.99	14372917.30	39°34'45.5194"N	80°48'48.8384"W	2910.80	4.934	0.47	-0.06	0.46	
9668.00	89.820	341.090	6812.15	2753.07	2988.97	219.96	1692917.64	14373006.22	39°34'46.3992"N	80°48'49.2239"W	2997.05	4.209	0.34	-0.32	-0.13	
9763.00	89.690	340.560	6812.55	2848.07	3078.70	188.76	1692886.45	14373095.91	39°34'47.2867"N	80°48'49.6200"W	3084.48	3.509	0.57	-0.14	-0.56	
9857.00	90.060	341.190	6812.76	2942.07	3167.51	157.96	1692855.66	14373184.69	39°34'48.1650"N	80°48'50.0110"W	3171.45	2.855	0.78	0.39	0.67	
9951.00	89.600	340.890	6813.04	3036.07	3256.41	127.42	1692825.13	14373273.55	39°34'49.0443"N	80°48'50.3987"W	3258.90	2.241	0.58	-0.49	-0.32	
10046.00	89.940	340.880	6813.42	3131.07	3346.17	96.31	1692794.04	14373363.28	39°34'49.9320"N	80°48'50.7937"W	3347.56	1.649	0.36	0.36	-0.01	
10140.00	89.540	340.090	6813.85	3225.06	3434.77	64.91	1692762.65	14373451.84	39°34'50.8083"N	80°48'51.1923"W	3435.38	1.083	0.94	-0.43	-0.84	
10235.00	89.630	339.670	6814.53	3320.04	3523.97	32.24	1692729.98	14373541.00	39°34'51.6906"N	80°48'51.6073"W	3524.12	0.524	0.45	0.09	-0.44	
10329.00	89.910	340.650	6814.91	3414.03	3612.39	0.33	1692698.09	14373629.39	39°34'52.5651"N	80°48'52.0125"W	3612.39	0.005	1.08	0.30	1.04	
10423.00	89.480	341.350	6815.41	3508.03	3701.27	-30.27	1692667.50	14373718.23	39°34'53.4441"N	80°48'52.4010"W	3701.39	359.531	0.87	-0.46	0.74	

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (264 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
10518.00	90.090	341.720	6815.77	3603.02	3791.37	-60.36	1692637.43	14373808.30	39°34'54.3353"N	80°48'52.7829"W	3791.85	359.088	0.75	0.64	0.39	
10612.00	89.570	340.640	6816.05	3697.02	3880.35	-90.68	1692607.12	14373897.24	39°34'55.2152"N	80°48'53.1678"W	3881.41	358.661	1.28	-0.55	-1.15	
10707.00	89.660	340.760	6816.68	3792.02	3970.00	-122.08	1692575.73	14373986.86	39°34'56.1020"N	80°48'53.5665"W	3971.88	358.239	0.16	0.09	0.13	
10801.00	89.910	340.520	6817.04	3886.02	4058.69	-153.24	1692544.58	14374075.51	39°34'56.9791"N	80°48'53.9621"W	4061.58	357.838	0.37	0.27	-0.26	
10896.00	89.820	340.290	6817.26	3981.01	4148.19	-185.10	1692512.73	14374164.97	39°34'57.8643"N	80°48'54.3667"W	4152.31	357.445	0.26	-0.09	-0.24	
10990.00	89.630	338.870	6817.71	4074.98	4236.28	-217.90	1692479.95	14374253.03	39°34'58.7355"N	80°48'54.7832"W	4241.88	357.056	1.52	-0.20	-1.51	
11085.00	89.600	337.590	6818.35	4169.87	4324.50	-253.13	1692444.73	14374341.21	39°34'59.6081"N	80°48'55.2309"W	4331.90	356.650	1.35	-0.03	-1.35	
11179.00	89.350	338.870	6819.21	4263.76	4411.79	-287.99	1692409.89	14374428.47	39°35'0.4716"N	80°48'55.6738"W	4421.18	356.265	1.39	-0.27	1.36	
11274.00	89.600	340.570	6820.08	4358.73	4500.89	-320.91	1692376.97	14374517.54	39°35'1.3529"N	80°48'56.0920"W	4512.32	355.922	1.81	0.26	1.79	
11368.00	89.720	341.510	6820.64	4452.73	4589.79	-351.45	1692346.45	14374606.40	39°35'2.2321"N	80°48'56.4798"W	4603.23	355.621	1.01	0.13	1.00	
11462.00	89.600	340.630	6821.20	4546.73	4678.70	-381.95	1692315.96	14374695.28	39°35'3.1114"N	80°48'56.8669"W	4694.27	355.333	0.94	-0.13	-0.94	
11556.00	89.750	340.070	6821.73	4640.72	4767.23	-413.56	1692284.37	14374783.77	39°35'3.9870"N	80°48'57.2683"W	4785.13	355.042	0.62	0.16	-0.60	
11651.00	89.630	339.710	6822.25	4735.70	4856.43	-446.22	1692251.72	14374872.94	39°35'4.8693"N	80°48'57.6831"W	4876.89	354.750	0.40	-0.13	-0.38	
11745.00	89.720	339.360	6822.78	4829.67	4944.50	-479.08	1692218.87	14374960.97	39°35'5.7403"N	80°48'58.1006"W	4967.65	354.466	0.38	0.10	-0.37	
11840.00	89.510	339.520	6823.42	4924.64	5033.45	-512.45	1692185.52	14375049.88	39°35'6.6201"N	80°48'58.5244"W	5059.46	354.187	0.28	-0.22	0.17	
11934.00	89.480	339.570	6824.25	5018.61	5121.52	-545.30	1692152.68	14375137.91	39°35'7.4911"N	80°48'58.9417"W	5150.46	353.923	0.06	-0.03	0.05	
12029.00	89.600	341.890	6825.01	5113.60	5211.18	-576.64	1692121.35	14375227.55	39°35'8.3780"N	80°48'59.3397"W	5242.99	353.686	2.45	0.13	2.44	
12124.00	89.600	341.950	6825.67	5208.58	5301.49	-606.13	1692091.88	14375317.82	39°35'9.2711"N	80°48'59.7139"W	5336.03	353.478	0.06	0.00	0.06	
12218.00	89.750	341.260	6826.20	5302.57	5390.69	-635.79	1692062.22	14375406.98	39°35'10.1532"N	80°49'0.0905"W	5428.05	353.273	0.75	0.16	-0.73	
12313.00	89.750	341.280	6826.62	5397.57	5480.65	-666.29	1692031.73	14375496.91	39°35'11.0430"N	80°49'0.4777"W	5521.01	353.068	0.02	0.00	0.02	
12408.00	89.850	340.970	6826.95	5492.57	5570.55	-697.03	1692001.01	14375586.76	39°35'11.9321"N	80°49'0.8679"W	5613.98	352.868	0.34	0.11	-0.33	
12502.00	89.750	341.090	6827.28	5586.57	5659.44	-727.58	1691970.47	14375675.62	39°35'12.8112"N	80°49'1.2559"W	5706.02	352.674	0.17	-0.11	0.13	
12597.00	89.880	342.470	6827.59	5681.55	5749.67	-757.29	1691940.78	14375765.82	39°35'13.7036"N	80°49'1.6330"W	5799.33	352.497	1.46	0.14	1.45	
12691.00	89.820	341.730	6827.83	5775.53	5839.12	-786.18	1691911.90	14375855.23	39°35'14.5882"N	80°49'1.9997"W	5891.81	352.332	0.79	-0.06	-0.79	
12786.00	89.630	341.620	6828.29	5870.53	5929.30	-816.05	1691882.04	14375945.38	39°35'15.4801"N	80°49'2.3788"W	5985.20	352.164	0.23	-0.20	-0.12	
12880.00	89.850	341.620	6828.71	5964.52	6018.51	-845.69	1691852.41	14376034.55	39°35'16.3623"N	80°49'2.7551"W	6077.63	352.002	0.23	0.23	0.00	
12974.00	89.720	341.860	6829.07	6058.51	6107.77	-875.14	1691822.97	14376123.78	39°35'17.2452"N	80°49'3.1290"W	6170.15	351.846	0.29	-0.14	0.26	
13069.00	89.720	341.630	6829.53	6153.50	6197.99	-904.90	1691793.23	14376213.96	39°35'18.1374"N	80°49'3.5067"W	6263.70	351.694	0.24	0.00	-0.24	
13163.00	89.630	341.290	6830.06	6247.49	6287.11	-934.78	1691763.35	14376303.04	39°35'19.0188"N	80°49'3.8862"W	6356.22	351.543	0.37	-0.10	-0.36	
13258.00	89.750	341.490	6830.58	6342.49	6377.14	-965.10	1691733.04	14376393.04	39°35'19.9092"N	80°49'4.2711"W	6449.76	351.394	0.25	0.13	0.21	

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

## WELLPATH DATA (264 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
13352.00	89.600	340.590	6831.11	6436.48	6466.04	-995.64	1691702.52	14376481.90	39°35'20.7884"N	80°49'4.6589"W	6542.25	351.246	0.97	-0.16	-0.96	
13447.00	89.510	339.960	6831.85	6531.47	6555.46	-1027.70	1691670.47	14376571.29	39°35'21.6728"N	80°49'5.0661"W	6635.53	351.090	0.67	-0.09	-0.66	
13541.00	89.570	339.730	6832.60	6625.45	6643.70	-1060.09	1691638.09	14376659.49	39°35'22.5456"N	80°49'5.4775"W	6727.75	350.934	0.25	0.06	-0.24	
13635.00	89.570	339.580	6833.31	6719.43	6731.84	-1092.77	1691605.42	14376747.59	39°35'23.4173"N	80°49'5.8927"W	6819.95	350.780	0.16	0.00	-0.16	
13729.00	89.880	340.460	6833.76	6813.41	6820.18	-1124.89	1691573.32	14376835.90	39°35'24.2910"N	80°49'6.3006"W	6912.32	350.634	0.99	0.33	0.94	
13823.00	89.510	342.080	6834.26	6907.41	6909.19	-1155.07	1691543.15	14376924.88	39°35'25.1714"N	80°49'6.6839"W	7005.08	350.509	1.77	-0.39	1.72	
13918.00	89.450	341.540	6835.12	7002.39	6999.44	-1184.73	1691513.51	14377015.09	39°35'26.0639"N	80°49'7.0603"W	7099.00	350.393	0.57	-0.06	-0.57	
14012.00	89.880	342.570	6835.67	7096.37	7088.87	-1213.69	1691484.56	14377104.48	39°35'26.9483"N	80°49'7.4279"W	7192.02	350.285	1.19	0.46	1.10	
14106.00	89.850	341.800	6835.89	7190.35	7178.36	-1242.45	1691455.81	14377193.94	39°35'27.8333"N	80°49'7.7930"W	7285.09	350.180	0.82	-0.03	-0.82	
14201.00	89.780	342.530	6836.20	7285.32	7268.79	-1271.54	1691426.73	14377284.33	39°35'28.7277"N	80°49'8.1623"W	7379.17	350.078	0.77	-0.07	0.77	
14295.00	90.550	343.050	6835.93	7379.27	7358.58	-1299.35	1691398.92	14377374.09	39°35'29.6156"N	80°49'8.5153"W	7472.42	349.986	0.99	0.82	0.55	
14389.00	89.200	341.630	6836.14	7473.24	7448.15	-1327.87	1691370.42	14377463.62	39°35'30.5014"N	80°49'8.8772"W	7565.59	349.891	2.08	-1.44	-1.51	
14484.00	89.420	342.440	6837.28	7568.21	7538.51	-1357.17	1691341.13	14377553.94	39°35'31.3950"N	80°49'9.2491"W	7659.70	349.794	0.88	0.23	0.85	
14579.00	88.830	342.260	6838.73	7663.17	7629.03	-1385.97	1691312.34	14377644.42	39°35'32.2902"N	80°49'9.6147"W	7753.90	349.703	0.65	-0.62	-0.19	
14673.00	90.090	342.070	6839.62	7757.15	7718.50	-1414.76	1691283.57	14377733.86	39°35'33.1751"N	80°49'9.9801"W	7847.09	349.613	1.36	1.34	-0.20	
14768.00	89.350	342.640	6840.08	7852.11	7809.03	-1443.55	1691254.78	14377824.36	39°35'34.0703"N	80°49'10.3456"W	7941.34	349.527	0.98	-0.78	0.60	
14862.00	89.230	341.900	6841.25	7946.08	7898.56	-1472.18	1691226.17	14377913.85	39°35'34.9557"N	80°49'10.7090"W	8034.58	349.442	0.80	-0.13	-0.79	
14957.00	90.120	343.250	6841.78	8041.04	7989.20	-1500.62	1691197.74	14378004.45	39°35'35.8521"N	80°49'11.0700"W	8128.91	349.362	1.70	0.94	1.42	
15051.00	89.350	342.290	6842.22	8134.99	8078.97	-1528.47	1691169.90	14378094.19	39°35'36.7399"N	80°49'11.4234"W	8222.29	349.287	1.31	-0.82	-1.02	
15145.00	89.420	342.240	6843.23	8228.95	8168.50	-1557.10	1691141.28	14378183.68	39°35'37.6253"N	80°49'11.7868"W	8315.59	349.208	0.09	0.07	-0.05	
15240.00	89.510	342.430	6844.12	8323.92	8259.02	-1585.92	1691112.47	14378274.16	39°35'38.5205"N	80°49'12.1527"W	8409.91	349.130	0.22	0.09	0.20	
15334.00	89.350	342.580	6845.05	8417.88	8348.67	-1614.18	1691084.22	14378363.78	39°35'39.4070"N	80°49'12.5114"W	8503.28	349.057	0.23	-0.17	0.16	
15429.00	89.540	342.090	6845.97	8512.85	8439.18	-1643.01	1691055.41	14378454.26	39°35'40.3022"N	80°49'12.8773"W	8597.63	348.983	0.55	0.20	-0.52	
15523.00	90.800	342.770	6845.69	8606.81	8528.79	-1671.38	1691027.04	14378543.83	39°35'41.1884"N	80°49'13.2375"W	8691.02	348.912	1.52	1.34	0.72	
15618.00	89.850	342.350	6845.15	8701.77	8619.42	-1699.85	1690998.58	14378634.43	39°35'42.0847"N	80°49'13.5989"W	8785.44	348.844	1.09	-1.00	-0.44	
15712.00	90.340	342.480	6845.00	8795.74	8709.03	-1728.25	1690970.20	14378724.00	39°35'42.9708"N	80°49'13.9594"W	8878.86	348.776	0.54	0.52	0.14	
15806.00	90.430	342.640	6844.37	8889.70	8798.71	-1756.43	1690942.04	14378813.64	39°35'43.8577"N	80°49'14.3170"W	8972.31	348.711	0.20	0.10	0.17	
15901.00	89.850	342.420	6844.13	8984.66	8889.32	-1784.94	1690913.53	14378904.22	39°35'44.7538"N	80°49'14.6790"W	9066.76	348.646	0.65	-0.61	-0.23	
15995.00	89.690	342.500	6844.51	9078.63	8978.95	-1813.27	1690885.21	14378993.81	39°35'45.6402"N	80°49'15.0386"W	9160.22	348.583	0.19	-0.17	0.09	
16090.00	89.750	342.480	6844.97	9173.59	9069.55	-1841.86	1690856.64	14379084.37	39°35'46.5362"N	80°49'15.4014"W	9254.68	348.520	0.07	0.06	-0.02	

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (264 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
16184.00	90.220	342.460	6845.00	9267.56	9159.18	-1870.17	1690828.34	14379173.97	39°35'47.4226"N	80°49'15.7608"W	9348.17	348.460	0.50	0.50	-0.02	
16279.00	90.030	340.680	6844.79	9362.55	9249.31	-1900.20	1690798.32	14379264.06	39°35'48.3139"N	80°49'16.1421"W	9442.48	348.391	1.88	-0.20	-1.87	
16373.00	90.030	340.250	6844.74	9456.54	9337.90	-1931.63	1690766.90	14379352.61	39°35'49.1900"N	80°49'16.5414"W	9535.59	348.313	0.46	0.00	-0.46	
16468.00	89.780	339.980	6844.90	9551.53	9427.23	-1963.95	1690734.60	14379441.91	39°35'50.0736"N	80°49'16.9519"W	9629.63	348.232	0.39	-0.26	-0.28	
16562.00	90.120	339.420	6844.98	9645.51	9515.39	-1996.56	1690702.00	14379530.04	39°35'50.9456"N	80°49'17.3663"W	9722.60	348.150	0.70	0.36	-0.60	
16657.00	90.520	340.340	6844.45	9740.49	9604.59	-2029.24	1690669.33	14379619.20	39°35'51.8278"N	80°49'17.7815"W	9816.62	348.070	1.06	0.42	0.97	
16751.00	89.780	340.760	6844.21	9834.49	9693.23	-2060.54	1690638.05	14379707.80	39°35'52.7044"N	80°49'18.1791"W	9909.82	347.999	0.91	-0.79	0.45	
16846.00	90.030	340.500	6844.36	9929.49	9782.85	-2092.04	1690606.55	14379797.39	39°35'53.5907"N	80°49'18.5793"W	10004.04	347.929	0.38	0.26	-0.27	
16940.00	90.120	340.580	6844.24	10023.49	9871.48	-2123.36	1690575.25	14379885.98	39°35'54.4673"N	80°49'18.9771"W	10097.27	347.861	0.13	0.10	0.09	
17034.00	90.090	340.240	6844.07	10117.48	9960.04	-2154.88	1690543.74	14379974.51	39°35'55.3432"N	80°49'19.3775"W	10190.48	347.792	0.36	-0.03	-0.36	
17129.00	90.150	340.290	6843.87	10212.48	10049.46	-2186.96	1690511.68	14380063.89	39°35'56.2275"N	80°49'19.7850"W	10284.67	347.723	0.08	0.06	0.05	
17223.00	89.880	340.530	6843.84	10306.47	10138.02	-2218.47	1690480.17	14380152.41	39°35'57.1034"N	80°49'20.1854"W	10377.91	347.657	0.38	-0.29	0.26	
17317.00	90.310	340.480	6843.69	10400.47	10226.63	-2249.84	1690448.81	14380240.99	39°35'57.9798"N	80°49'20.5839"W	10471.19	347.593	0.46	0.46	-0.05	
17411.00	90.310	340.540	6843.18	10494.46	10315.24	-2281.20	1690417.47	14380329.57	39°35'58.8562"N	80°49'20.9824"W	10564.47	347.530	0.06	0.00	0.06	
17506.00	90.060	340.050	6842.87	10589.46	10404.68	-2313.24	1690385.45	14380418.97	39°35'59.7407"N	80°49'21.3893"W	10658.72	347.465	0.58	-0.26	-0.52	
17600.00	90.060	339.740	6842.77	10683.44	10492.95	-2345.55	1690353.15	14380507.20	39°36'0.6137"N	80°49'21.7999"W	10751.91	347.400	0.33	0.00	-0.33	
17695.00	89.820	339.650	6842.87	10778.42	10582.05	-2378.51	1690320.19	14380596.27	39°36'1.4949"N	80°49'22.2188"W	10846.06	347.332	0.27	-0.25	-0.09	
17789.00	90.220	340.060	6842.84	10872.40	10670.30	-2410.89	1690287.83	14380684.48	39°36'2.3677"N	80°49'22.6301"W	10939.27	347.268	0.61	0.43	0.44	
17884.00	89.880	340.010	6842.76	10967.39	10759.59	-2443.32	1690255.41	14380773.73	39°36'3.2508"N	80°49'23.0423"W	11033.52	347.206	0.36	-0.36	-0.05	
17978.00	90.090	340.200	6842.78	11061.38	10847.98	-2475.31	1690223.43	14380862.09	39°36'4.1250"N	80°49'23.4487"W	11126.80	347.146	0.30	0.22	0.20	
18073.00	90.220	340.720	6842.53	11156.38	10937.50	-2507.09	1690191.67	14380951.58	39°36'5.0105"N	80°49'23.8524"W	11221.16	347.090	0.56	0.14	0.55	
18167.00	90.090	340.000	6842.27	11250.37	11026.03	-2538.68	1690160.09	14381040.08	39°36'5.8860"N	80°49'24.2538"W	11314.52	347.034	0.78	-0.14	-0.77	
18262.00	90.400	339.950	6841.87	11345.36	11115.29	-2571.21	1690127.57	14381129.30	39°36'6.7688"N	80°49'24.6671"W	11408.80	346.975	0.33	0.33	-0.05	
18356.00	89.850	340.000	6841.66	11439.34	11203.61	-2603.40	1690095.40	14381217.58	39°36'7.6423"N	80°49'25.0761"W	11502.11	346.918	0.59	-0.59	0.05	
18451.00	90.250	340.110	6841.58	11534.33	11292.91	-2635.81	1690063.01	14381306.84	39°36'8.5255"N	80°49'25.4879"W	11596.43	346.862	0.44	0.42	0.12	
18545.00	89.820	340.310	6841.52	11628.33	11381.36	-2667.63	1690031.19	14381395.26	39°36'9.4003"N	80°49'25.8923"W	11689.80	346.809	0.50	-0.46	0.21	
18640.00	89.970	340.210	6841.69	11723.32	11470.77	-2699.72	1689999.12	14381484.64	39°36'10.2846"N	80°49'26.2999"W	11784.19	346.756	0.19	0.16	-0.11	
18734.00	89.880	340.140	6841.82	11817.31	11559.20	-2731.60	1689967.25	14381573.03	39°36'11.1592"N	80°49'26.7050"W	11877.57	346.704	0.12	-0.10	-0.07	
18829.00	89.850	340.000	6842.04	11912.30	11648.51	-2763.98	1689934.88	14381662.31	39°36'12.0425"N	80°49'27.1165"W	11971.94	346.652	0.15	-0.03	-0.15	
18923.00	89.850	340.450	6842.29	12006.29	11736.97	-2795.78	1689903.09	14381750.73	39°36'12.9173"N	80°49'27.5206"W	12065.36	346.602	0.48	0.00	0.48	

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Rine Unit 1H
Field	Wetzel		API	47-103-03637-0000
Facility	Fluharty Pad		Wellbore	Rine Unit 1H AWB
Slot	Slot E			

WELLPATH DATA (264 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
19017.00	89.910	340.230	6842.48	12100.29	11825.49	-2827.41	1689871.48	14381839.21	39°36'13.7928"N	80°49'27.9224"W	12158.80	346.553	0.24	0.06	-0.23	
19112.00	89.910	340.450	6842.63	12195.28	11914.95	-2859.37	1689839.53	14381928.64	39°36'14.6776"N	80°49'28.3285"W	12253.25	346.505	0.23	0.00	0.23	
19207.00	89.910	339.920	6842.78	12290.27	12004.32	-2891.57	1689807.34	14382017.98	39°36'15.5615"N	80°49'28.7377"W	12347.67	346.457	0.56	0.00	-0.56	
19301.00	90.030	340.400	6842.83	12384.26	12092.75	-2923.48	1689775.45	14382106.36	39°36'16.4360"N	80°49'29.1431"W	12441.11	346.409	0.53	0.13	0.51	
19395.00	90.000	340.140	6842.81	12478.26	12181.23	-2955.21	1689743.73	14382194.81	39°36'17.3111"N	80°49'29.5463"W	12534.57	346.363	0.28	-0.03	-0.28	
19584.00	90.090	340.390	6842.66	12667.24	12359.13	-3019.03	1689679.94	14382372.64	39°36'19.0705"N	80°49'30.3572"W	12722.52	346.273	0.14	0.05	0.13	
19678.00	90.150	340.480	6842.46	12761.24	12447.70	-3050.51	1689648.47	14382461.17	39°36'19.9465"N	80°49'30.7572"W	12816.04	346.230	0.12	0.06	0.10	
19773.00	90.120	340.260	6842.24	12856.24	12537.18	-3082.42	1689616.57	14382550.62	39°36'20.8314"N	80°49'31.1627"W	12910.54	346.187	0.23	-0.03	-0.23	
19867.00	90.120	340.310	6842.04	12950.23	12625.67	-3114.13	1689584.87	14382639.07	39°36'21.7066"N	80°49'31.5657"W	13004.05	346.145	0.05	0.00	0.05	
19962.00	90.280	340.260	6841.71	13045.22	12715.10	-3146.18	1689552.84	14382728.47	39°36'22.5911"N	80°49'31.9729"W	13098.55	346.102	0.18	0.17	-0.05	
20056.00	90.310	340.310	6841.23	13139.22	12803.59	-3177.89	1689521.14	14382816.92	39°36'23.4662"N	80°49'32.3758"W	13192.07	346.061	0.06	0.03	0.05	
20151.00	89.910	339.880	6841.04	13234.21	12892.91	-3210.23	1689488.81	14382906.21	39°36'24.3496"N	80°49'32.7868"W	13286.56	346.018	0.62	-0.42	-0.45	
20245.00	90.180	341.500	6840.97	13328.20	12981.62	-3241.32	1689457.74	14382994.88	39°36'25.2270"N	80°49'33.1818"W	13380.15	345.981	1.75	0.29	1.72	
20339.00	90.120	340.570	6840.72	13422.20	13070.51	-3271.86	1689427.20	14383083.74	39°36'26.1061"N	80°49'33.5699"W	13473.81	345.946	0.99	-0.06	-0.99	
20434.00	90.370	340.380	6840.32	13517.20	13160.05	-3303.61	1689395.46	14383173.24	39°36'26.9916"N	80°49'33.9733"W	13568.38	345.908	0.33	0.26	-0.20	
20529.00	90.250	340.110	6839.80	13612.19	13249.46	-3335.72	1689363.37	14383262.61	39°36'27.8759"N	80°49'34.3814"W	13662.91	345.869	0.31	-0.13	-0.28	
20623.00	90.220	340.420	6839.42	13706.18	13337.94	-3367.46	1689331.64	14383351.06	39°36'28.7509"N	80°49'34.7847"W	13756.47	345.830	0.33	-0.03	0.33	
20717.00	90.150	340.370	6839.11	13800.18	13426.49	-3399.00	1689300.11	14383439.57	39°36'29.6267"N	80°49'35.1855"W	13850.05	345.794	0.09	-0.07	-0.05	
20811.00	90.250	340.580	6838.79	13894.17	13515.08	-3430.42	1689268.71	14383528.13	39°36'30.5029"N	80°49'35.5847"W	13943.64	345.758	0.25	0.11	0.22	
20906.00	90.150	340.150	6838.45	13989.17	13604.56	-3462.34	1689236.80	14383617.57	39°36'31.3878"N	80°49'35.9903"W	14038.22	345.721	0.46	-0.11	-0.45	
21000.00	90.150	340.450	6838.21	14083.16	13693.05	-3494.03	1689205.12	14383706.03	39°36'32.2630"N	80°49'36.3930"W	14131.81	345.685	0.32	0.00	0.32	
21094.00	90.220	340.380	6837.90	14177.16	13781.61	-3525.54	1689173.63	14383794.56	39°36'33.1389"N	80°49'36.7934"W	14225.41	345.651	0.11	0.07	-0.07	
21188.00	90.430	340.500	6837.37	14271.15	13870.19	-3557.01	1689142.17	14383883.10	39°36'34.0149"N	80°49'37.1933"W	14319.02	345.616	0.26	0.22	0.13	
21283.00	90.460	340.510	6836.63	14366.15	13959.74	-3588.71	1689110.48	14383972.61	39°36'34.9005"N	80°49'37.5962"W	14413.65	345.583	0.03	0.03	0.01	
21377.00	90.800	340.390	6835.60	14460.14	14048.31	-3620.16	1689079.04	14384061.15	39°36'35.7765"N	80°49'37.9959"W	14507.27	345.550	0.38	0.36	-0.13	
21471.00	90.680	340.620	6834.39	14554.13	14136.92	-3651.53	1689047.68	14384149.72	39°36'36.6528"N	80°49'38.3945"W	14600.90	345.517	0.28	-0.13	0.24	
21565.00	90.740	340.470	6833.22	14648.12	14225.54	-3682.84	1689016.39	14384238.31	39°36'37.5293"N	80°49'38.7923"W	14694.54	345.485	0.17	0.06	-0.16	
21660.00	90.710	340.460	6832.02	14743.11	14315.07	-3714.60	1688984.64	14384327.80	39°36'38.4147"N	80°49'39.1960"W	14789.17	345.453	0.03	-0.03	-0.01	
21754.00	90.920	340.710	6830.68	14837.09	14403.71	-3745.85	1688953.41	14384416.41	39°36'39.2914"N	80°49'39.5930"W	14882.82	345.423	0.35	0.22	0.27	
21849.00	90.490	340.250	6829.51	14932.08	14493.25	-3777.59	1688921.68	14384505.91	39°36'40.1768"N	80°49'39.9963"W	14977.46	345.391	0.66	-0.45	-0.48	

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Rine Unit 1H
Field	Wetzel		API	47-103-03637-0000
Facility	Fluharty Pad		Wellbore	Rine Unit 1H AWB
Slot	Slot E			

WELLPATH DATA (264 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
21943.00	91.080	341.760	6828.23	15026.07	14582.12	-3808.18	1688891.10	14384594.74	39°36'41.0557"N	80°49'40.3850"W	15071.18	345.364	1.72	0.63	1.61	
22037.00	91.350	341.590	6826.23	15120.04	14671.33	-3837.72	1688861.57	14384683.92	39°36'41.9380"N	80°49'40.7604"W	15164.96	345.341	0.34	0.29	-0.18	
22132.00	91.290	341.570	6824.04	15215.01	14761.44	-3867.74	1688831.57	14384773.99	39°36'42.8291"N	80°49'41.1416"W	15259.73	345.318	0.07	-0.06	-0.02	
22226.00	91.690	341.770	6821.60	15308.97	14850.64	-3897.29	1688802.03	14384863.16	39°36'43.7113"N	80°49'41.5170"W	15353.51	345.295	0.48	0.43	0.21	
22321.00	91.450	341.450	6819.00	15403.93	14940.75	-3927.25	1688772.08	14384953.23	39°36'44.6024"N	80°49'41.8976"W	15448.28	345.273	0.42	-0.25	-0.34	
22415.00	90.550	341.630	6817.36	15497.91	15029.90	-3957.01	1688742.33	14385042.35	39°36'45.4841"N	80°49'42.2757"W	15542.07	345.250	0.98	-0.96	0.19	
22510.00	90.710	341.270	6816.31	15592.90	15119.96	-3987.23	1688712.12	14385132.37	39°36'46.3747"N	80°49'42.6597"W	15636.85	345.227	0.41	0.17	-0.38	
22604.00	90.680	341.220	6815.17	15686.89	15208.96	-4017.45	1688681.91	14385221.34	39°36'47.2549"N	80°49'43.0436"W	15730.62	345.203	0.06	-0.03	-0.05	
22793.00	90.740	341.610	6812.83	15875.87	15388.09	-4077.68	1688621.71	14385400.40	39°36'49.0264"N	80°49'43.8089"W	15919.20	345.158	0.21	0.03	0.21	
22887.00	90.710	341.720	6811.64	15969.85	15477.31	-4107.25	1688592.15	14385489.58	39°36'49.9087"N	80°49'44.1845"W	16013.02	345.138	0.12	-0.03	0.12	
22981.00	90.830	341.950	6810.38	16063.83	15566.62	-4136.55	1688562.86	14385578.85	39°36'50.7919"N	80°49'44.5568"W	16106.85	345.119	0.28	0.13	0.24	
23076.00	90.650	341.530	6809.15	16158.82	15656.83	-4166.31	1688533.11	14385669.02	39°36'51.6840"N	80°49'44.9349"W	16201.68	345.099	0.48	-0.19	-0.44	
23170.00	90.680	341.430	6808.06	16252.80	15745.96	-4196.17	1688503.27	14385758.12	39°36'52.5654"N	80°49'45.3142"W	16295.49	345.078	0.11	0.03	-0.11	
23264.00	90.580	341.230	6807.03	16346.80	15835.00	-4226.26	1688473.19	14385847.13	39°36'53.4461"N	80°49'45.6965"W	16389.28	345.056	0.24	-0.11	-0.21	
23359.00	90.580	341.530	6806.06	16441.79	15925.03	-4256.59	1688442.87	14385937.11	39°36'54.3364"N	80°49'46.0819"W	16484.08	345.035	0.32	0.00	0.32	
23453.00	90.620	341.440	6805.08	16535.78	16014.16	-4286.44	1688413.03	14386026.21	39°36'55.2178"N	80°49'46.4611"W	16577.90	345.015	0.10	0.04	-0.10	
23548.00	90.740	341.410	6803.95	16630.77	16104.20	-4316.70	1688382.79	14386116.22	39°36'56.1083"N	80°49'46.8456"W	16672.71	344.995	0.13	0.13	-0.03	
23642.00	90.580	340.940	6802.87	16724.76	16193.17	-4347.03	1688352.47	14386205.15	39°36'56.9881"N	80°49'47.2310"W	16766.49	344.973	0.53	-0.17	-0.50	
23737.00	90.550	341.500	6801.93	16819.76	16283.10	-4377.61	1688321.90	14386295.05	39°36'57.8776"N	80°49'47.6196"W	16861.29	344.952	0.59	-0.03	0.59	
23831.00	90.710	341.600	6800.90	16913.74	16372.27	-4407.36	1688292.16	14386384.18	39°36'58.7593"N	80°49'47.9976"W	16955.11	344.933	0.20	0.17	0.11	
23925.00	90.580	341.190	6799.84	17007.73	16461.35	-4437.34	1688262.19	14386473.22	39°36'59.6403"N	80°49'48.3786"W	17048.93	344.914	0.46	-0.14	-0.44	
24019.00	90.800	341.450	6798.71	17101.73	16550.39	-4467.45	1688232.09	14386562.23	39°37'0.5209"N	80°49'48.7611"W	17142.74	344.894	0.36	0.23	0.28	
24056.00	90.680	341.580	6798.23	17138.72	16585.48	-4479.18	1688220.37	14386657.30	39°37'0.8679"N	80°49'48.9102"W	17179.67	344.887	0.48	-0.32	0.35	
24081.00‡	90.680	341.580	6797.93	17163.72	16609.20	-4487.08	1688212.47	14386621.01	39°37'1.1024"N	80°49'49.0105"W	17204.63	344.882	0.00	0.00	0.00	Projected MD at TD: 24081'

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

HOLE & CASING SECTIONS - Ref Wellbore: Rine Unit 1H AWB Ref Wellpath: Rine Unit 1H AWP Proj: 24081'									
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	0.08	0.08
17.5in Open Hole	125.50	440.00	314.50	125.50	439.99	0.08	0.08	-1.71	0.74
13.375in Casing Surface	25.50	420.00	394.50	25.50	419.99	0.00	0.00	-1.57	0.68
12.375in Open Hole	440.00	3089.00	2649.00	439.99	3080.62	-1.71	0.74	17.21	137.00
9.625in Casing Intermediate	25.50	3049.00	3023.50	25.50	3040.65	0.00	0.00	17.90	138.32
8.75in Open Hole	3089.00	6398.00	3309.00	3080.62	6238.45	17.21	137.00	157.87	1033.04
8.5in Open Hole	6398.00	24081.00	17683.00	6238.45	6797.93	157.87	1033.04	16609.20	-4487.08
5.5in Casing Production	25.50	24061.00	24035.50	25.50	6798.17	0.00	0.00	16590.22	-4480.76

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Rine Unit 1H POE Rev-3	6767.00	663.81	1032.50	1693729.85	14370681.99	39°34'23.4025"N	80°48'38.9092"W	point
Rine Unit 1H BHL Rev-3	6793.00	16585.53	-4473.08	1688226.46	14386597.35	39°37'0.8682"N	80°49'48.8323"W	point
Rine Unit 1H LP Rev-3	6793.00	834.00	973.65	1693671.02	14370852.11	39°34'25.0857"N	80°48'39.6562"W	point
Rine Unit 1H 50' L/R Hard Line	7000.00	8624.67	-1720.29	1690978.16	14378639.67	39°35'42.1369"N	80°49'13.8598"W	rectangle
2D Rectangle 16846.7 x 100.								

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

WELLPATH COMPOSITION - Ref Wellbore: Rine Unit 1H AWB Ref Wellpath: Rine Unit 1H AWP Proj: 24081'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	400.00	Gyrodatta 2015 - GC+VMR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-400')	Rine Unit 1H AWB	3/4/2024
400.00	467.00	Gyrodatta 2015 - GC+VMR+DPIPE	02 Gyrodatta MS Gyro <12-3/8"> (400')(467')	Rine Unit 1H AWB	3/5/2024
467.00	3010.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-3/8"> (467')(500'-3010')	Rine Unit 1H AWB	3/4/2024
3010.00	6321.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3010')(3108'-6321')	Rine Unit 1H AWB	4/13/2024
6321.00	24081.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH AT Curve <8-1/2"> (6321')(6373'-24056')	Rine Unit 1H AWB	4/13/2024

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# Actual Wellpath Report

Rine Unit 1H AWP Proj: 24081'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Rine Unit 1H
Field	Wetzel	API	47-103-03637-0000
Facility	Fluharty Pad	Wellbore	Rine Unit 1H AWB
Slot	Slot E		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-103-03637-0000            BH Job #: 112156746            Rig: H&amp;P 317            Duration: 4/14/2024-4/18/2024            Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-400')            Gyrodata MS Gyro &lt;12-3/8"&gt; (400')(467')            APS EM &lt;12-3/8"&gt; (467')(500'-3010')            APS EM &lt;8-3/4"&gt; (3010')(3108'-6321')            BH AT Curve &lt;8-1/2"&gt; (6321')(6373'-24056')            Sycamore: 6683' MD            Middlesex: 6831' MD            Burkett: 6965' MD            Tully: 7008' MD            Marcellus POE: 7190' MD            Projected MD at TD: 24081'</p>

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