



ANTERO RESOURCES CORPORATION

Location: Wetzel County, WV
Field: Wetzel
Facility: Fluaharty Pad

Slot: Slot G
Well: Cargo Unit 2H
Wellbore: Cargo Unit 2H PWB



Pk1 reference wellpath is Cargo Unit 2H PWB Rev-B.0	Grid System: NAD83 / 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 G): -1181 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: adrian on 2024-05-29; Database: W3_MPL_EASTERNUS_Data

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Fluaharty Pad	1692686.850	14370028.840	39°34'16.9651"N	80°48'52.2487"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot G	-31.19	32.44	1692719.380	14369997.660	39°34'16.6572"N
Comment	Cargo Unit 2H				
H&P 317 (RKB) to Ground level (At Slot: Slot G)	25.5ft				
Mean Sea Level to Ground level (At Slot: Slot G)	-1181ft				
H&P 317 (RKB) to Mean Sea Level	1206.5ft				

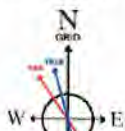
Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3254.00	23.660	74.130	3016.72	234.26	1033.12	-115.23
Proj. to Bottom	3333.00	23.660	74.130	3089.08	242.92	1063.62	-116.97
Drill Out	3413.00	23.660	74.130	3162.36	251.70	1094.50	-118.73
End of 3D Arc	3513.86	26.401	77.163	3253.74	262.22	1135.83	-122.26
Curve KOP	6778.16	26.401	77.163	6175.80	584.51	2550.17	-278.49
POE	7646.32	73.899	340.982	6784.00	1106.60	2612.62	194.74
Landing Pt.	7825.32	90.000	340.982	6809.00	1273.61	2555.05	371.39
BH-L	24580.32	90.000	340.982	6809.00	17114.04	-2904.90	17126.39

Gyrodata MS Gyro <17-1/2"> (100'-372') : 0.12° Inc, 100.00ft MD, 100.00ft TVD, 0.04ft VS
APS EM <12-3/8"> (372')(409'-3254') : 0.89° Inc, 409.00ft MD, 408.98ft TVD, -2.48ft VS

API: 47-103-03630-0000
BH Job #: 112156743
Rig: H&P 317
Duration: 5/8/2024-5/12/2024

Well Data			
Slot	Well	Wellbore	Wellpath
Slot G	Cargo Unit 2H	Cargo Unit 2H AWB	Cargo Unit 2H AWP Proj: 24629'
Slot G	Cargo Unit 2H	Cargo Unit 2H PWB	Cargo Unit 2H PWP Rev-B.0

APS EM <8-3/4"> (3254')(3295'-6603') : 22.93° Inc, 3295.00ft MD, 3054.38ft TVD, -116.01ft VS



User specified (HDM) Dip: 66.23° Field: 51482 nT
Magnetic North is 7.52 degrees West of True North (at 5/6/2024)
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"> (6603')(6640'-24604') : 23.50° Inc, 6640.00ft MD, 6047.26ft TVD, -295.13ft VS

Marcellus POE: 7619' MD : 68.43° Inc, 7619.00ft MD, 6764.94ft TVD, 160.94ft VS

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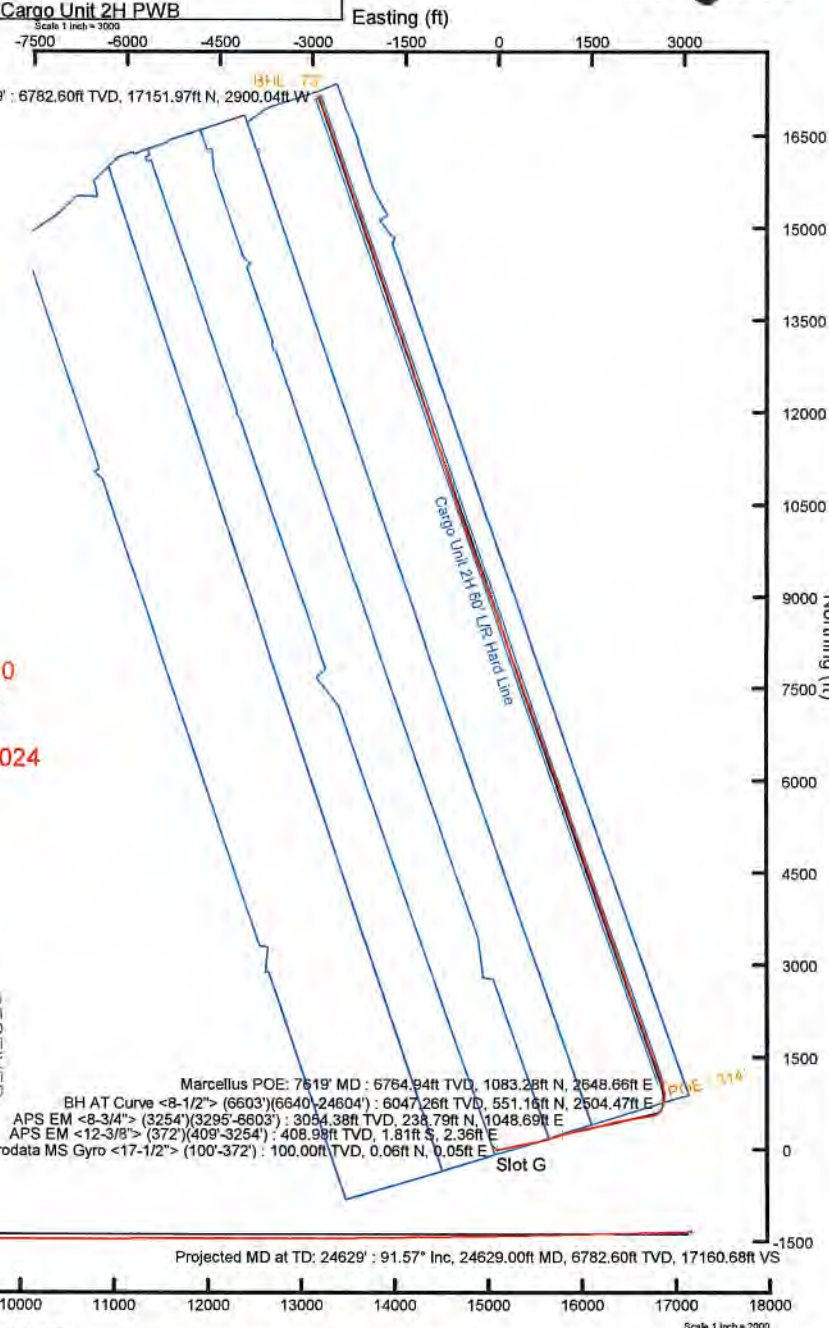
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Marcellus POE: 7619' MD : 6764.94ft TVD, 1083.28ft N, 2648.66ft E
BH AT Curve <8-1/2"> (6603')(6640'-24604') : 6047.26ft TVD, 551.16ft N, 2504.47ft E
APS EM <8-3/4"> (3254')(3295'-6603') : 3054.38ft TVD, 238.79ft N, 1048.69ft E
APS EM <12-3/8"> (372')(409'-3254') : 408.98ft TVD, 1.81ft S, 2.36ft E
Gyrodata MS Gyro <17-1/2"> (100'-372') : 100.00ft TVD, 0.06ft N, 0.05ft E

Projected MD at TD: 24629' : 91.57° Inc, 24629.00ft MD, 6782.60ft TVD, 17160.68ft VS

Vertical Section (ft)
Azimuth 340.98° with reference 0.00 N, 0.00 E





Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

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	5/28/2024 at 5:29:45 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	-31.19	32.44	1692719.38	14369997.66	39°34'16.6572"N	80°48'51.8362"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 G)	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	340.98°

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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	39.930	0.00	0.00	0.00	0.00	1692719.38	14369997.66	39°34'16.6572"N	80°48'51.8362"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	39.930	25.50	0.00	0.00	0.00	1692719.38	14369997.66	39°34'16.6572"N	80°48'51.8362"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.120	39.930	100.00	0.04	0.06	0.05	1692719.43	14369997.72	39°34'16.6578"N	80°48'51.8356"W	0.08	39.930	0.16	0.16	0.00	Gyrodata MS Gyro <17-1/2"> (100'-372')
200.00	0.370	97.320	200.00	-0.05	0.10	0.44	1692719.82	14369997.76	39°34'16.6582"N	80°48'51.8307"W	0.45	77.252	0.32	0.25	57.39	
300.00	0.700	133.480	299.99	-0.73	-0.36	1.20	1692720.58	14369997.30	39°34'16.6536"N	80°48'51.8209"W	1.25	106.794	0.46	0.33	36.16	
372.00	1.190	144.180	371.98	-1.84	-1.27	1.96	1692721.34	14369996.39	39°34'16.6446"N	80°48'51.8113"W	2.33	123.000	0.72	0.68	14.86	
409.00	0.890	142.920	408.98	-2.48	-1.81	2.36	1692721.73	14369995.85	39°34'16.6392"N	80°48'51.8062"W	2.97	127.568	0.81	-0.81	-3.41	APS EM <12-3/8"> (372')(409'-3254')
502.00	2.050	109.900	501.95	-4.21	-2.95	4.36	1692723.73	14369994.71	39°34'16.6279"N	80°48'51.7807"W	5.26	124.152	1.50	1.25	-35.51	
592.00	4.120	95.530	591.81	-6.57	-3.81	9.09	1692728.46	14369993.85	39°34'16.6193"N	80°48'51.7203"W	9.86	112.768	2.44	2.30	-15.97	
682.00	6.200	89.810	681.44	-9.48	-4.11	17.17	1692736.54	14369993.55	39°34'16.6162"N	80°48'51.6171"W	17.65	103.463	2.38	2.31	-6.36	
771.00	8.430	83.620	769.72	-12.46	-3.37	28.46	1692747.83	14369994.29	39°34'16.6233"N	80°48'51.4729"W	28.66	96.751	2.65	2.51	-6.96	
859.00	10.850	79.430	856.47	-15.09	-1.13	43.01	1692762.38	14369996.53	39°34'16.6451"N	80°48'51.2870"W	43.03	91.508	2.86	2.75	-4.76	
948.00	13.570	77.940	943.45	-17.58	2.59	61.46	1692780.82	14370000.25	39°34'16.6815"N	80°48'51.0513"W	61.52	87.590	3.08	3.06	-1.67	
1036.00	16.230	77.680	1028.48	-20.27	7.37	83.58	1692802.92	14370005.03	39°34'16.7283"N	80°48'50.7688"W	83.90	84.962	3.02	3.02	-0.30	
1130.00	19.730	77.680	1117.88	-23.66	13.56	111.92	1692831.25	14370011.21	39°34'16.7889"N	80°48'50.4067"W	112.74	83.092	3.72	3.72	0.00	
1224.00	22.430	78.090	1205.58	-27.73	20.65	144.97	1692864.30	14370018.30	39°34'16.8583"N	80°48'49.9844"W	146.44	81.895	2.88	2.87	0.44	
1319.00	24.740	78.400	1292.64	-32.54	28.39	182.19	1692901.49	14370026.03	39°34'16.9340"N	80°48'49.5090"W	184.38	81.144	2.44	2.43	0.33	
1413.00	26.430	77.790	1377.42	-37.56	36.77	221.90	1692941.19	14370034.41	39°34'17.0160"N	80°48'49.0016"W	224.93	80.593	1.82	1.80	-0.65	
1507.00	26.260	76.160	1461.65	-41.92	46.16	262.54	1692981.82	14370043.81	39°34'17.1081"N	80°48'48.4824"W	266.57	80.027	0.79	-0.18	-1.73	
1601.00	25.480	74.480	1546.23	-45.03	56.55	302.22	1693021.47	14370054.19	39°34'17.2099"N	80°48'47.9755"W	307.46	79.402	1.14	-0.83	-1.79	
1696.00	25.780	77.020	1631.89	-48.45	66.66	342.04	1693061.28	14370064.29	39°34'17.3090"N	80°48'47.4667"W	348.47	78.972	1.20	0.32	2.67	
1791.00	27.390	80.540	1716.85	-54.25	74.89	383.73	1693102.95	14370072.52	39°34'17.3895"N	80°48'46.9341"W	390.97	78.957	2.37	1.69	3.71	
1885.00	27.980	80.160	1800.09	-61.36	82.21	426.78	1693145.99	14370079.84	39°34'17.4610"N	80°48'46.3841"W	434.63	79.097	0.66	0.63	-0.40	
1980.00	28.800	79.670	1883.66	-68.38	90.12	471.25	1693190.44	14370087.75	39°34'17.5383"N	80°48'45.8161"W	479.79	79.173	0.90	0.86	-0.52	
2074.00	29.150	79.550	1965.89	-75.21	98.34	516.04	1693235.22	14370095.96	39°34'17.6185"N	80°48'45.2439"W	525.33	79.211	0.38	0.37	-0.13	
2168.00	29.130	79.060	2048.00	-81.84	106.83	561.02	1693280.18	14370104.45	39°34'17.7015"N	80°48'44.6693"W	571.10	79.219	0.25	-0.02	-0.52	
2263.00	29.050	78.640	2131.01	-88.16	115.76	606.34	1693325.47	14370113.38	39°34'17.7889"N	80°48'44.0904"W	617.29	79.191	0.23	-0.08	-0.44	
2357.00	29.800	78.410	2212.89	-94.22	124.95	651.59	1693370.71	14370122.56	39°34'17.8787"N	80°48'43.5122"W	663.46	79.145	0.81	0.80	-0.24	
2452.00	28.880	77.220	2295.70	-99.77	134.77	697.09	1693416.19	14370132.37	39°34'17.9748"N	80°48'42.9309"W	710.00	79.058	1.15	-0.97	-1.25	
2546.00	27.650	75.280	2378.49	-103.87	145.33	740.33	1693459.41	14370142.93	39°34'18.0784"N	80°48'42.3786"W	754.46	78.894	1.63	-1.31	-2.06	

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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
2641.00	27.040	73.610	2462.88	-106.52	157.03	782.36	1693501.43	14370154.62	39°34'18.1931"N	80°48'41.8414"W	797.97	78.651	1.03	-0.64	-1.76	
2735.00	26.930	71.980	2546.64	-107.87	169.64	823.11	1693542.16	14370167.23	39°34'18.3169"N	80°48'41.3208"W	840.41	78.354	0.80	-0.12	-1.73	
2830.00	26.300	72.290	2631.58	-108.73	182.70	863.61	1693582.65	14370180.29	39°34'18.4451"N	80°48'40.8032"W	882.73	78.055	0.68	-0.66	0.33	
2924.00	25.570	71.240	2716.11	-109.29	195.56	902.66	1693621.68	14370193.14	39°34'18.5714"N	80°48'40.3043"W	923.60	77.776	0.92	-0.78	-1.12	
3019.00	24.370	72.410	2802.23	-109.88	208.08	940.76	1693659.76	14370205.65	39°34'18.6943"N	80°48'39.8174"W	963.49	77.528	1.37	-1.26	1.23	
3114.00	24.280	74.700	2888.80	-111.63	219.15	978.28	1693697.27	14370216.72	39°34'18.8030"N	80°48'39.3380"W	1002.53	77.373	1.00	-0.09	2.41	
3208.00	23.870	74.690	2974.62	-114.12	229.27	1015.27	1693734.24	14370226.84	39°34'18.9023"N	80°48'38.8654"W	1040.83	77.275	0.44	-0.44	-0.01	
3254.00	23.660	74.130	3016.72	-115.23	234.26	1033.12	1693752.09	14370231.82	39°34'18.9511"N	80°48'38.6372"W	1059.35	77.224	0.67	-0.46	-1.22	
3295.00	22.930	73.380	3054.38	-116.01	238.79	1048.69	1693767.65	14370236.35	39°34'18.9956"N	80°48'38.4383"W	1075.53	77.172	1.92	-1.78	-1.83	APS EM <8-3/4"> (3254')(3295'-6603')
3390.00	23.230	74.140	3141.77	-117.82	249.20	1084.44	1693803.39	14370246.76	39°34'19.0978"N	80°48'37.9815"W	1112.71	77.058	0.45	0.32	0.80	
3484.00	24.790	76.260	3227.64	-120.66	258.95	1121.42	1693840.35	14370256.51	39°34'19.1934"N	80°48'37.5090"W	1150.93	76.998	1.90	1.66	2.26	
3579.00	26.460	77.810	3313.29	-125.01	268.15	1161.46	1693880.37	14370265.70	39°34'19.2834"N	80°48'36.9975"W	1192.01	77.000	1.89	1.76	1.63	
3673.00	28.170	78.100	3396.81	-130.25	277.15	1203.64	1693922.54	14370274.70	39°34'19.3715"N	80°48'36.4585"W	1235.14	77.033	1.82	1.82	0.31	
3767.00	28.860	77.480	3479.41	-135.56	286.65	1247.50	1693966.38	14370284.20	39°34'19.4645"N	80°48'35.8982"W	1280.01	77.059	0.80	0.73	-0.68	
3862.00	28.120	74.570	3562.91	-139.55	297.58	1291.46	1694010.33	14370295.13	39°34'19.5716"N	80°48'35.3365"W	1325.30	77.024	1.65	-0.78	-3.04	
3956.00	27.780	74.130	3645.94	-142.14	309.47	1333.89	1694052.73	14370307.01	39°34'19.6882"N	80°48'34.7945"W	1369.32	76.938	0.42	-0.36	-0.47	
4050.00	28.500	74.970	3728.83	-144.90	321.28	1376.62	1694095.45	14370318.81	39°34'19.8040"N	80°48'34.2485"W	1413.61	76.863	0.87	0.77	0.89	
4145.00	28.190	76.210	3812.44	-148.52	332.50	1420.30	1694139.11	14370330.03	39°34'19.9140"N	80°48'33.6903"W	1458.70	76.824	0.70	-0.33	1.31	
4240.00	26.850	77.890	3896.69	-153.15	342.35	1463.07	1694181.87	14370339.87	39°34'20.0105"N	80°48'33.1439"W	1502.59	76.830	1.63	-1.41	1.77	
4334.00	25.300	78.880	3981.12	-158.47	350.68	1503.54	1694222.32	14370348.20	39°34'20.0919"N	80°48'32.6269"W	1543.89	76.871	1.71	-1.65	1.05	
4428.00	24.560	79.980	4066.36	-164.28	357.95	1542.48	1694261.25	14370355.47	39°34'20.1630"N	80°48'32.1294"W	1583.47	76.935	0.93	-0.79	1.17	
4523.00	24.830	79.720	4152.67	-170.40	364.95	1581.55	1694300.30	14370362.46	39°34'20.2313"N	80°48'31.6303"W	1623.11	77.006	0.31	0.28	-0.27	
4617.00	25.450	77.320	4237.77	-175.63	372.90	1620.68	1694339.41	14370370.41	39°34'20.3091"N	80°48'31.1304"W	1663.03	77.042	1.27	0.66	-2.55	
4712.00	24.470	76.380	4323.90	-179.74	382.02	1659.72	1694378.43	14370379.52	39°34'20.3984"N	80°48'30.6317"W	1703.11	77.038	1.11	-1.03	-0.99	
4806.00	24.510	73.980	4409.44	-182.59	391.98	1697.38	1694416.08	14370389.49	39°34'20.4961"N	80°48'30.1505"W	1742.05	76.996	1.06	0.04	-2.55	
4900.00	24.350	71.860	4495.03	-183.91	403.40	1734.53	1694453.22	14370400.90	39°34'20.6081"N	80°48'29.6756"W	1780.83	76.908	0.95	-0.17	-2.26	
4994.00	24.370	72.470	4580.66	-184.71	415.27	1771.44	1694490.12	14370412.77	39°34'20.7247"N	80°48'29.2040"W	1819.47	76.807	0.27	0.02	0.65	
5089.00	24.980	75.190	4666.99	-186.69	426.30	1809.53	1694528.19	14370423.79	39°34'20.8329"N	80°48'28.7174"W	1859.07	76.744	1.36	0.64	2.86	
5183.00	26.040	76.940	4751.82	-190.29	436.04	1848.82	1694567.46	14370433.53	39°34'20.9283"N	80°48'28.2154"W	1899.54	76.729	1.38	1.13	1.86	
5278.00	27.770	77.960	4836.54	-195.15	445.37	1890.78	1694609.40	14370442.85	39°34'21.0196"N	80°48'27.6793"W	1942.52	76.746	1.88	1.82	1.07	

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION			Well
Field	Wetzel			API
Facility	Fluharty Pad			Wellbore
Slot	Slot G			Cargo Unit 2H AWP

WELLPATH DATA (272 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
5372.00	28.800	81.170	4919.32	-201.81	453.41	1934.57	1694653.18	14370450.89	39°34'21.0982"N	80°48'27.1198"W	1987.00	76.809	1.95	1.10	3.41	
5470.00	29.110	81.350	5005.07	-210.28	460.62	1981.47	1694700.06	14370458.10	39°34'21.1684"N	80°48'26.5208"W	2034.30	76.913	0.33	0.32	0.18	
5564.00	29.270	81.530	5087.13	-218.61	467.45	2026.80	1694745.37	14370464.92	39°34'21.2349"N	80°48'25.9417"W	2080.00	77.013	0.19	0.17	0.19	
5658.00	26.760	79.240	5170.11	-225.85	474.78	2070.33	1694788.88	14370472.25	39°34'21.3065"N	80°48'25.3856"W	2124.07	77.084	2.90	-2.67	-2.44	
5753.00	25.930	77.070	5255.25	-231.13	483.42	2111.58	1694830.12	14370480.89	39°34'21.3910"N	80°48'24.8586"W	2166.21	77.105	1.34	-0.87	-2.28	
5847.00	26.430	78.600	5339.60	-236.09	492.16	2152.12	1694870.64	14370489.62	39°34'21.4765"N	80°48'24.3406"W	2207.68	77.119	0.89	0.53	1.63	
5942.00	26.200	78.310	5424.76	-241.56	500.58	2193.38	1694911.89	14370498.05	39°34'21.5589"N	80°48'23.8135"W	2249.78	77.144	0.28	-0.24	-0.31	
6036.00	26.130	80.580	5509.13	-247.66	508.18	2234.12	1694952.61	14370505.63	39°34'21.6331"N	80°48'23.2930"W	2291.19	77.185	1.07	-0.07	2.41	
6131.00	27.620	81.570	5593.87	-255.20	514.83	2276.55	1694995.02	14370512.28	39°34'21.6979"N	80°48'22.7511"W	2334.04	77.257	1.64	1.57	1.04	
6225.00	28.760	82.720	5676.72	-263.81	520.89	2320.54	1695038.99	14370518.34	39°34'21.7569"N	80°48'22.1892"W	2378.28	77.349	1.34	1.21	1.22	
6320.00	28.440	81.930	5760.13	-272.75	526.96	2365.60	1695084.04	14370524.41	39°34'21.8159"N	80°48'21.6135"W	2423.59	77.442	0.52	-0.34	-0.83	
6414.00	27.380	81.910	5843.19	-281.10	533.15	2409.17	1695127.58	14370530.59	39°34'21.8761"N	80°48'21.0571"W	2467.45	77.522	1.13	-1.13	-0.02	
6509.00	25.860	78.030	5928.12	-287.79	540.52	2451.07	1695169.47	14370537.96	39°34'21.9481"N	80°48'20.5218"W	2509.96	77.564	2.43	-1.60	-4.08	
6603.00	23.940	79.570	6013.38	-293.15	548.22	2489.88	1695208.27	14370545.66	39°34'22.0234"N	80°48'20.0259"W	2549.52	77.583	2.16	-2.04	1.64	
6640.00	23.500	77.640	6047.26	-295.13	551.16	2504.47	1695222.85	14370548.60	39°34'22.0521"N	80°48'19.8395"W	2564.40	77.589	2.41	-1.19	-5.22	BH AT Curve <8-1/2"> (6603')(6640'-24604')
6735.00	25.280	71.370	6133.79	-297.47	561.70	2542.20	1695260.57	14370559.13	39°34'22.1555"N	80°48'19.3574"W	2603.52	77.541	3.31	1.87	-6.60	
6829.00	26.040	57.160	6218.60	-292.67	579.32	2578.59	1695296.94	14370576.75	39°34'22.3288"N	80°48'18.8922"W	2642.87	77.338	6.58	0.81	-15.12	
6924.00	28.120	41.920	6303.29	-276.79	607.32	2611.11	1695329.45	14370604.74	39°34'22.6049"N	80°48'18.4761"W	2680.81	76.906	7.60	2.19	-16.04	
7019.00	31.780	27.800	6385.69	-248.76	646.17	2637.78	1695356.11	14370643.57	39°34'22.9883"N	80°48'18.1345"W	2715.77	76.235	8.34	3.85	-14.86	
7113.00	36.180	20.390	6463.65	-210.35	694.12	2659.01	1695377.33	14370691.50	39°34'23.4617"N	80°48'17.8621"W	2748.11	75.370	6.42	4.68	-7.88	
7157.00†	38.570	17.317	6498.62	-189.26	719.39	2667.62	1695385.94	14370716.76	39°34'23.7113"N	80°48'17.7514"W	2762.92	74.908	6.89	5.43	-6.98	Sycamore: 7157' MD
7208.00	41.430	14.140	6537.69	-162.32	750.94	2676.48	1695394.79	14370748.30	39°34'24.0229"N	80°48'17.6374"W	2779.83	74.327	6.89	5.61	-6.23	
7303.00	48.630	4.470	6604.86	-103.16	817.12	2686.96	1695405.27	14370814.46	39°34'24.6768"N	80°48'17.5017"W	2808.46	73.085	10.44	7.58	-10.18	
7316.00†	49.646	3.352	6613.37	-94.11	826.93	2687.63	1695405.94	14370824.26	39°34'24.7737"N	80°48'17.4929"W	2811.97	72.898	10.17	7.82	-8.60	Middlesex: 7316' MD
7397.00	56.190	357.070	6662.21	-33.13	891.46	2687.71	1695406.02	14370888.76	39°34'25.4115"N	80°48'17.4900"W	2831.70	71.650	10.17	8.08	-7.76	
7474.00†	60.605	350.680	6702.58	30.75	956.59	2680.64	1695398.95	14370953.87	39°34'26.0553"N	80°48'17.5786"W	2846.21	70.361	9.10	5.73	-8.30	Burkett: 7474' MD
7492.00	61.680	349.270	6711.27	46.32	972.11	2677.89	1695396.21	14370969.38	39°34'26.2088"N	80°48'17.6132"W	2848.88	70.048	9.10	5.97	-7.84	
7525.00†	63.367	347.070	6726.49	75.36	1000.76	2671.89	1695390.20	14370998.02	39°34'26.4921"N	80°48'17.6891"W	2853.16	69.466	7.82	5.11	-6.67	Tully: 7525' MD
7586.00	66.570	343.170	6752.31	130.47	1054.15	2657.68	1695376.00	14371051.39	39°34'27.0200"N	80°48'17.8691"W	2859.11	68.365	7.82	5.25	-6.39	
7619.00†	68.426	342.441	6764.94	160.94	1083.28	2648.66	1695366.99	14371080.50	39°34'27.3081"N	80°48'17.9834"W	2861.63	67.756	5.98	5.62	-2.21	Marcellus POE: 7619' MD

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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
7681.00	71.920	341.120	6785.97	219.25	1138.66	2630.42	1695348.75	14371135.87	39°34'27.8559"N	80°48'18.2148"W	2866.30	66.593	5.98	5.64	-2.13	
7776.00	78.660	340.080	6810.07	311.08	1225.28	2599.91	1695318.25	14371222.45	39°34'28.7125"N	80°48'18.6021"W	2874.17	64.767	7.17	7.09	-1.09	
7870.00	86.980	339.230	6821.81	404.23	1312.64	2567.51	1695285.86	14371309.78	39°34'29.5767"N	80°48'19.0135"W	2883.60	62.922	8.90	8.85	-0.90	
7965.00	89.380	339.080	6824.83	499.13	1401.37	2533.72	1695252.09	14371398.47	39°34'30.4543"N	80°48'19.4425"W	2895.44	61.053	2.53	2.53	-0.16	
8059.00	89.600	339.130	6825.67	593.08	1489.19	2500.20	1695218.58	14371486.25	39°34'31.3230"N	80°48'19.8682"W	2910.10	59.221	0.24	0.23	0.05	
8154.00	89.230	339.080	6826.64	688.02	1577.94	2466.32	1695184.71	14371574.97	39°34'32.2008"N	80°48'20.2984"W	2927.90	57.389	0.39	-0.39	-0.05	
8248.00	90.620	340.180	6826.76	781.99	1666.05	2433.60	1695152.01	14371663.05	39°34'33.0724"N	80°48'20.7138"W	2949.26	55.604	1.89	1.48	1.17	
8343.00	89.820	342.030	6826.40	876.98	1755.93	2402.84	1695121.26	14371752.89	39°34'33.9613"N	80°48'21.1042"W	2976.06	53.842	2.12	-0.84	1.95	
8437.00	89.570	341.010	6826.90	970.98	1845.08	2373.04	1695091.47	14371842.00	39°34'34.8430"N	80°48'21.4822"W	3005.93	52.134	1.12	-0.27	-1.09	
8531.00	89.290	341.580	6827.83	1064.97	1934.11	2342.90	1695061.34	14371931.00	39°34'35.7236"N	80°48'21.8647"W	3038.08	50.460	0.68	-0.30	0.61	
8625.00	90.060	341.340	6828.36	1158.97	2023.23	2313.01	1695031.47	14372020.08	39°34'36.6050"N	80°48'22.2440"W	3073.02	48.823	0.86	0.82	-0.26	
8720.00	90.490	341.670	6827.91	1253.96	2113.32	2282.87	1695001.34	14372110.14	39°34'37.4960"N	80°48'22.6263"W	3110.89	47.209	0.57	0.45	0.35	
8814.00	90.550	340.160	6827.06	1347.95	2202.15	2252.14	1694970.62	14372198.93	39°34'38.3746"N	80°48'23.0164"W	3149.86	45.643	1.61	0.06	-1.61	
8909.00	92.310	339.580	6824.68	1442.90	2291.31	2219.46	1694937.95	14372288.06	39°34'39.2565"N	80°48'23.4313"W	3190.00	44.087	1.95	1.85	-0.61	
9003.00	89.230	338.160	6823.42	1536.82	2378.97	2185.58	1694904.09	14372375.68	39°34'40.1236"N	80°48'23.8616"W	3230.52	42.574	3.61	-3.28	-1.51	
9098.00	89.290	341.650	6824.65	1631.78	2468.17	2152.95	1694871.47	14372464.84	39°34'41.0058"N	80°48'24.2759"W	3275.22	41.098	3.67	0.06	3.67	
9192.00	88.890	341.750	6826.14	1725.76	2557.40	2123.44	1694841.97	14372554.04	39°34'41.8884"N	80°48'24.6503"W	3324.05	39.703	0.44	-0.43	0.11	
9287.00	89.290	341.440	6827.65	1820.74	2647.53	2093.45	1694811.99	14372644.14	39°34'42.7798"N	80°48'25.0308"W	3375.19	38.334	0.53	0.42	-0.33	
9381.00	89.850	342.140	6828.36	1914.73	2736.82	2064.07	1694782.63	14372733.39	39°34'43.6628"N	80°48'25.4035"W	3427.91	37.023	0.95	0.60	0.74	
9476.00	89.750	341.760	6828.69	2009.71	2827.14	2034.64	1694753.21	14372823.68	39°34'44.5562"N	80°48'25.7770"W	3483.17	35.742	0.41	-0.11	-0.40	
9571.00	89.420	341.790	6829.38	2104.70	2917.38	2004.93	1694723.51	14372913.87	39°34'45.4486"N	80°48'26.1540"W	3539.89	34.498	0.35	-0.35	0.03	
9665.00	89.080	340.910	6830.61	2198.69	3006.43	1974.87	1694693.46	14373002.89	39°34'46.3294"N	80°48'26.5354"W	3597.05	33.300	1.00	-0.36	-0.94	
9759.00	89.110	341.600	6832.09	2292.68	3095.43	1944.67	1694663.27	14373091.86	39°34'47.2096"N	80°48'26.9187"W	3655.60	32.139	0.73	0.03	0.73	
9854.00	89.820	341.980	6832.98	2387.66	3185.67	1914.98	1694633.60	14373182.06	39°34'48.1021"N	80°48'27.2954"W	3716.94	31.011	0.85	0.75	0.40	
9948.00	89.850	341.740	6833.25	2481.65	3275.00	1885.71	1694604.34	14373271.35	39°34'48.9855"N	80°48'27.6667"W	3779.09	29.933	0.26	0.03	-0.26	
10042.00	89.720	342.430	6833.60	2575.63	3364.44	1856.80	1694575.44	14373360.76	39°34'49.8701"N	80°48'28.0335"W	3842.81	28.894	0.75	-0.14	0.73	
10137.00	89.510	341.750	6834.24	2670.61	3454.83	1827.59	1694546.24	14373451.12	39°34'50.7641"N	80°48'28.4042"W	3908.45	27.879	0.75	-0.22	-0.72	
10231.00	89.480	341.730	6835.07	2764.60	3544.10	1798.13	1694516.80	14373540.34	39°34'51.6469"N	80°48'28.7779"W	3974.16	26.901	0.04	-0.03	-0.02	
10326.00	89.820	341.880	6835.65	2859.59	3634.35	1768.47	1694487.14	14373630.56	39°34'52.5395"N	80°48'29.1542"W	4041.78	25.948	0.39	0.36	0.16	
10420.00	89.690	342.010	6836.05	2953.57	3723.72	1739.34	1694458.02	14373719.89	39°34'53.4234"N	80°48'29.5239"W	4109.91	25.037	0.20	-0.14	0.14	

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Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWP
Slot	Slot G		

WELLPATH DATA (272 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
10515.00	89.750	341.680	6836.51	3048.56	3813.99	1709.74	1694428.43	14373810.12	39°34'54.3162"N	80°48'29.8995"W	4179.68	24.146	0.35	0.06	-0.35	
10609.00	89.600	341.600	6837.05	3142.55	3903.20	1680.13	1694398.84	14373899.30	39°34'55.1985"N	80°48'30.2752"W	4249.45	23.289	0.18	-0.16	-0.09	
10703.00	89.820	342.300	6837.52	3236.54	3992.57	1651.00	1694369.72	14373988.64	39°34'56.0824"N	80°48'30.6447"W	4320.47	22.466	0.78	0.23	0.74	
10798.00	89.570	340.950	6838.03	3331.53	4082.72	1621.06	1694339.79	14374078.76	39°34'56.9740"N	80°48'31.0248"W	4392.77	21.656	1.45	-0.26	-1.42	
10892.00	89.450	341.900	6838.83	3425.52	4171.82	1591.12	1694309.86	14374167.82	39°34'57.8552"N	80°48'31.4048"W	4464.95	20.877	1.02	-0.13	1.01	
10987.00	89.850	341.000	6839.41	3520.51	4261.88	1560.89	1694279.65	14374257.84	39°34'58.7460"N	80°48'31.7883"W	4538.73	20.115	1.04	0.42	-0.95	
11081.00	89.480	340.660	6839.96	3614.51	4350.67	1530.03	1694248.80	14374346.60	39°34'59.6241"N	80°48'32.1801"W	4611.87	19.376	0.53	-0.39	-0.36	
11176.00	90.090	341.150	6840.32	3709.51	4440.44	1498.95	1694217.73	14374436.33	39°35'0.5120"N	80°48'32.5746"W	4686.62	18.653	0.82	0.64	0.52	
11270.00	89.660	340.510	6840.52	3803.51	4529.23	1468.08	1694186.88	14374525.08	39°35'1.3901"N	80°48'32.9664"W	4761.22	17.959	0.82	-0.46	-0.68	
11364.00	89.380	341.010	6841.31	3897.50	4617.97	1437.11	1694155.92	14374613.79	39°35'2.2679"N	80°48'33.3596"W	4836.42	17.266	0.61	-0.30	0.53	
11459.00	89.480	341.120	6842.26	3992.50	4707.83	1406.28	1694125.10	14374703.61	39°35'3.1566"N	80°48'33.7509"W	4913.38	16.631	0.16	0.11	0.12	
11553.00	89.510	341.020	6843.09	4086.50	4796.74	1375.79	1694094.62	14374792.49	39°35'4.0360"N	80°48'34.1380"W	4990.14	16.004	0.11	0.03	-0.11	
11647.00	89.350	341.170	6844.02	4180.49	4885.67	1345.34	1694064.18	14374881.38	39°35'4.9155"N	80°48'34.5245"W	5067.51	15.396	0.23	-0.17	0.16	
11742.00	89.420	340.680	6845.04	4275.49	4975.45	1314.29	1694033.15	14374971.12	39°35'5.8034"N	80°48'34.9186"W	5146.11	14.787	0.52	0.07	-0.52	
11836.00	89.450	340.980	6845.97	4369.48	5064.23	1283.43	1694002.29	14375059.87	39°35'6.6815"N	80°48'35.3104"W	5224.33	14.221	0.32	0.03	0.32	
11931.00	89.540	341.050	6846.80	4464.48	5154.06	1252.52	1693971.40	14375149.66	39°35'7.5699"N	80°48'35.7027"W	5304.07	13.659	0.12	0.09	0.07	
12026.00	89.570	340.700	6847.54	4559.47	5243.81	1221.40	1693940.29	14375239.38	39°35'8.4576"N	80°48'36.0978"W	5384.18	13.112	0.37	0.03	-0.37	
12120.00	89.380	341.030	6848.40	4653.47	5332.61	1190.59	1693909.49	14375328.15	39°35'9.3359"N	80°48'36.4890"W	5463.91	12.586	0.41	-0.20	0.35	
12215.00	89.510	341.220	6849.32	4748.46	5422.50	1159.85	1693878.77	14375418.00	39°35'10.2250"N	80°48'36.8791"W	5545.16	12.073	0.24	0.14	0.20	
12310.00	89.260	340.950	6850.34	4843.46	5512.37	1129.06	1693847.99	14375507.83	39°35'11.1137"N	80°48'37.2699"W	5626.81	11.575	0.39	-0.26	-0.28	
12404.00	89.600	341.090	6851.28	4937.45	5601.25	1098.49	1693817.43	14375596.68	39°35'11.9929"N	80°48'37.6580"W	5707.95	11.096	0.39	0.36	0.15	
12499.00	89.600	341.320	6851.94	5032.45	5691.18	1067.88	1693786.84	14375686.57	39°35'12.8823"N	80°48'38.0465"W	5790.50	10.627	0.24	0.00	0.24	
12593.00	89.450	339.910	6852.72	5126.44	5779.85	1036.69	1693755.65	14375775.20	39°35'13.7593"N	80°48'38.4426"W	5872.08	10.169	1.51	-0.16	-1.50	
12688.00	89.570	340.280	6853.53	5221.43	5869.17	1004.34	1693723.32	14375864.49	39°35'14.6427"N	80°48'38.8533"W	5954.48	9.710	0.41	0.13	0.39	
12782.00	89.510	339.940	6854.29	5315.41	5957.56	972.36	1693691.36	14375952.84	39°35'15.5169"N	80°48'39.2594"W	6036.39	9.270	0.37	-0.06	-0.36	
12876.00	89.450	340.660	6855.14	5409.40	6046.05	940.68	1693659.68	14376041.30	39°35'16.3922"N	80°48'39.6617"W	6118.79	8.843	0.77	-0.06	0.77	
12971.00	89.170	340.070	6856.29	5504.39	6135.52	908.76	1693627.78	14376130.74	39°35'17.2771"N	80°48'40.0671"W	6202.46	8.425	0.69	-0.29	-0.62	
13065.00	89.570	340.070	6857.32	5598.37	6223.89	876.72	1693595.75	14376219.06	39°35'18.1511"N	80°48'40.4739"W	6285.33	8.018	0.43	0.43	0.00	
13160.00	89.850	341.500	6857.80	5693.37	6313.59	845.45	1693564.50	14376308.73	39°35'19.0383"N	80°48'40.8709"W	6369.95	7.627	1.53	0.29	1.51	
13255.00	89.380	339.410	6858.44	5788.36	6403.11	813.67	1693532.73	14376398.22	39°35'19.9237"N	80°48'41.2744"W	6454.60	7.242	2.25	-0.49	-2.20	

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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
13349.00	89.480	339.910	6859.37	5882.33	6491.24	781.00	1693500.07	14376486.31	39°35'20.7954"N	80°48'41.6893"W	6538.06	6.861	0.54	0.11	0.53	
13443.00	89.600	340.250	6860.13	5976.31	6579.62	748.98	1693468.06	14376574.65	39°35'21.6695"N	80°48'42.0960"W	6622.11	6.494	0.38	0.13	0.36	
13537.00	89.880	340.320	6860.55	6070.30	6668.11	717.27	1693436.36	14376663.11	39°35'22.5447"N	80°48'42.4987"W	6706.57	6.140	0.31	0.30	0.07	
13631.00	89.720	340.190	6860.88	6164.30	6756.58	685.51	1693404.62	14376751.54	39°35'23.4197"N	80°48'42.9020"W	6791.26	5.793	0.22	-0.17	-0.14	
13726.00	89.780	340.910	6861.30	6259.29	6846.16	653.88	1693373.00	14376841.09	39°35'24.3057"N	80°48'43.3036"W	6877.31	5.458	0.76	0.06	0.76	
13820.00	89.540	340.260	6861.86	6353.29	6934.81	622.63	1693341.76	14376929.70	39°35'25.1825"N	80°48'43.7004"W	6962.70	5.130	0.74	-0.26	-0.69	
13914.00	89.750	340.420	6862.44	6447.28	7023.33	591.01	1693310.15	14377018.19	39°35'26.0580"N	80°48'44.1020"W	7048.15	4.810	0.28	0.22	0.17	
14008.00	89.780	340.340	6862.82	6541.27	7111.87	559.44	1693278.60	14377106.69	39°35'26.9337"N	80°48'44.5028"W	7133.84	4.498	0.09	0.03	-0.09	
14103.00	89.600	339.740	6863.34	6636.26	7201.16	527.02	1693246.19	14377195.95	39°35'27.8169"N	80°48'44.9146"W	7220.42	4.186	0.66	-0.19	-0.63	
14197.00	89.690	340.310	6863.92	6730.24	7289.50	494.91	1693214.09	14377284.26	39°35'28.6907"N	80°48'45.3224"W	7306.28	3.884	0.61	0.10	0.61	
14292.00	89.570	340.130	6864.53	6825.23	7378.90	462.76	1693181.95	14377373.61	39°35'29.5748"N	80°48'45.7307"W	7393.39	3.589	0.23	-0.13	-0.19	
14386.00	89.820	340.430	6865.03	6919.22	7467.38	431.04	1693150.25	14377462.06	39°35'30.4500"N	80°48'46.1335"W	7479.81	3.304	0.42	0.27	0.32	
14481.00	89.750	340.260	6865.39	7014.22	7556.85	399.09	1693118.31	14377551.49	39°35'31.3348"N	80°48'46.5393"W	7567.38	3.023	0.19	-0.07	-0.18	
14575.00	89.750	340.050	6865.80	7108.21	7645.26	367.18	1693086.41	14377639.87	39°35'32.2093"N	80°48'46.9445"W	7654.08	2.750	0.22	0.00	-0.22	
14670.00	89.570	340.570	6866.36	7203.20	7734.71	335.17	1693054.41	14377729.28	39°35'33.0940"N	80°48'47.3510"W	7741.96	2.481	0.58	-0.19	0.55	
14764.00	89.750	340.060	6866.92	7297.19	7823.21	303.50	1693022.76	14377817.75	39°35'33.9693"N	80°48'47.7531"W	7829.10	2.222	0.58	0.19	-0.54	
14859.00	89.820	340.420	6867.28	7392.18	7912.62	271.39	1692990.66	14377907.12	39°35'34.8536"N	80°48'48.1610"W	7917.27	1.964	0.39	0.07	0.38	
14953.00	89.780	340.510	6867.61	7486.18	8001.20	239.96	1692959.24	14377995.67	39°35'35.7298"N	80°48'48.5601"W	8004.80	1.718	0.10	-0.04	0.10	
15048.00	90.280	339.940	6867.56	7581.17	8090.60	207.81	1692927.11	14378085.03	39°35'36.6140"N	80°48'48.9683"W	8093.27	1.471	0.80	0.53	-0.60	
15142.00	90.250	340.660	6867.12	7675.16	8179.10	176.13	1692895.44	14378173.50	39°35'37.4892"N	80°48'49.3708"W	8180.99	1.234	0.77	-0.03	0.77	
15236.00	90.090	339.610	6868.84	7769.15	8267.50	144.19	1692863.51	14378261.87	39°35'38.3636"N	80°48'49.7764"W	8268.76	0.999	1.13	-0.17	-1.12	
15331.00	90.180	340.510	6868.62	7864.13	8356.81	111.79	1692831.12	14378351.13	39°35'39.2469"N	80°48'50.1879"W	8357.55	0.766	0.95	0.09	0.95	
15425.00	90.180	340.050	6868.32	7958.13	8445.29	80.07	1692799.42	14378439.59	39°35'40.1221"N	80°48'50.5907"W	8445.67	0.543	0.49	0.00	-0.49	
15520.00	90.120	340.240	6868.07	8053.12	8534.65	47.81	1692767.17	14378528.90	39°35'41.0058"N	80°48'51.0005"W	8534.78	0.321	0.21	-0.06	0.20	
15614.00	90.030	340.040	6868.95	8147.11	8623.06	15.87	1692735.25	14378617.28	39°35'41.8802"N	80°48'51.4061"W	8623.07	0.105	0.23	-0.10	-0.21	
15708.00	89.970	340.110	6869.95	8241.09	8711.43	-16.16	1692703.22	14378705.61	39°35'42.7543"N	80°48'51.8130"W	8711.44	359.894	0.10	-0.06	0.07	
15803.00	89.910	340.010	6869.05	8336.08	8800.73	-48.56	1692670.84	14378794.88	39°35'43.6376"N	80°48'52.2245"W	8800.87	359.684	0.12	-0.06	-0.11	
15897.00	90.180	340.300	6869.98	8430.07	8889.15	-80.47	1692638.94	14378883.27	39°35'44.5121"N	80°48'52.6298"W	8889.52	359.481	0.42	0.29	0.31	
15992.00	90.030	340.410	6869.80	8525.07	8978.62	-112.41	1692607.02	14378972.70	39°35'45.3970"N	80°48'53.0355"W	8979.32	359.283	0.20	-0.16	0.12	
16087.00	90.060	340.210	6869.73	8620.06	9068.07	-144.42	1692575.02	14379062.11	39°35'46.2816"N	80°48'53.4420"W	9069.22	359.088	0.21	0.03	-0.21	

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Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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
16181.00	90.310	340.250	6865.43	8714.05	9156.53	-176.21	1692543.24	14379150.53	39°35'47.1565"N	80°48'53.8458"W	9158.22	358.898	0.27	0.27	0.04	
16275.00	90.180	340.450	6865.02	8808.04	9245.05	-207.82	1692511.64	14379239.02	39°35'48.0321"N	80°48'54.2473"W	9247.39	358.712	0.25	-0.14	0.21	
16370.00	90.000	339.970	6864.87	8903.04	9334.44	-239.99	1692479.49	14379328.38	39°35'48.9162"N	80°48'54.6558"W	9337.52	358.527	0.54	-0.19	-0.51	
16464.00	90.150	339.960	6864.75	8997.02	9422.75	-272.19	1692447.30	14379416.65	39°35'49.7896"N	80°48'55.0649"W	9426.68	358.345	0.16	0.16	-0.01	
16559.00	89.820	339.070	6864.78	9091.99	9511.74	-305.44	1692414.07	14379505.61	39°35'50.6698"N	80°48'55.4873"W	9516.64	358.161	1.00	-0.35	-0.94	
16653.00	89.910	341.150	6865.00	9185.97	9600.13	-337.41	1692382.10	14379593.96	39°35'51.5440"N	80°48'55.8934"W	9606.06	357.987	2.21	0.10	2.21	
16748.00	90.090	339.810	6865.00	9280.97	9689.67	-369.16	1692350.37	14379683.46	39°35'52.4296"N	80°48'56.2966"W	9696.70	357.818	1.42	0.19	-1.41	
16842.00	90.250	340.380	6864.72	9374.95	9778.05	-401.16	1692318.38	14379771.81	39°35'53.3037"N	80°48'56.7031"W	9786.28	357.651	0.63	0.17	0.61	
16936.00	90.220	340.090	6864.33	9468.95	9866.51	-432.95	1692286.61	14379860.24	39°35'54.1787"N	80°48'57.1069"W	9876.01	357.487	0.31	-0.03	-0.31	
17031.00	90.030	339.860	6864.13	9563.93	9955.77	-465.48	1692254.09	14379949.46	39°35'55.0614"N	80°48'57.5201"W	9966.64	357.323	0.31	-0.20	-0.24	
17125.00	90.680	340.330	6863.54	9657.92	10044.15	-497.48	1692222.10	14380037.80	39°35'55.9356"N	80°48'57.9266"W	10056.46	357.164	0.85	0.69	0.50	
17219.00	89.970	340.140	6863.01	9751.91	10132.61	-529.27	1692190.32	14380126.23	39°35'56.8105"N	80°48'58.3304"W	10146.42	357.010	0.78	-0.76	-0.20	
17313.00	89.970	341.450	6863.06	9845.90	10221.38	-560.19	1692159.42	14380214.96	39°35'57.6884"N	80°48'58.7231"W	10236.72	356.863	1.39	0.00	1.39	
17408.00	90.090	342.460	6863.01	9940.89	10311.70	-589.61	1692130.00	14380305.25	39°35'58.5817"N	80°48'59.0966"W	10328.55	356.727	1.07	0.13	1.06	
17502.00	90.460	342.130	6862.56	10034.86	10401.25	-618.20	1692101.43	14380394.76	39°35'59.4673"N	80°48'59.4595"W	10419.60	356.599	0.53	0.39	-0.35	
17597.00	90.280	342.400	6861.95	10129.84	10491.73	-647.14	1692072.50	14380485.21	39°36'0.3621"N	80°48'59.8268"W	10511.67	356.470	0.34	-0.19	0.28	
17691.00	90.000	342.330	6861.72	10223.81	10581.32	-675.62	1692044.03	14380574.75	39°36'1.2481"N	80°49'0.1883"W	10602.86	356.347	0.31	-0.30	-0.07	
17786.00	90.120	342.610	6861.62	10318.78	10671.90	-704.23	1692015.43	14380665.31	39°36'2.1439"N	80°49'0.5515"W	10695.11	356.225	0.32	0.13	0.29	
17880.00	90.370	342.370	6861.21	10412.74	10761.55	-732.51	1691987.16	14380754.91	39°36'3.0305"N	80°49'0.9105"W	10786.45	356.106	0.37	0.27	-0.26	
17975.00	90.340	343.160	6860.63	10507.69	10852.28	-760.86	1691959.02	14380845.61	39°36'3.9278"N	80°49'1.2677"W	10878.90	355.991	0.83	-0.03	0.83	
18069.00	90.340	342.450	6860.07	10601.64	10942.07	-788.45	1691931.25	14380935.37	39°36'4.8158"N	80°49'1.6203"W	10970.44	355.879	0.76	0.00	-0.76	
18164.00	89.660	342.020	6860.07	10696.62	11032.54	-817.43	1691902.27	14381025.80	39°36'5.7105"N	80°49'1.9883"W	11062.79	355.763	0.85	-0.72	-0.45	
18258.00	90.520	341.850	6859.92	10790.61	11121.91	-846.58	1691873.14	14381115.13	39°36'6.5943"N	80°49'2.3584"W	11154.08	355.647	0.93	0.91	-0.18	
18353.00	90.340	341.820	6859.21	10885.59	11212.17	-876.20	1691843.53	14381205.36	39°36'7.4870"N	80°49'2.7344"W	11246.36	355.532	0.19	-0.19	-0.03	
18447.00	90.220	341.520	6858.75	10979.59	11301.40	-905.76	1691813.98	14381294.55	39°36'8.3694"N	80°49'3.1097"W	11337.64	355.418	0.34	-0.13	-0.32	
18542.00	90.490	342.100	6858.16	11074.57	11391.65	-935.41	1691784.34	14381384.77	39°36'9.2620"N	80°49'3.4862"W	11429.99	355.306	0.67	0.28	0.61	
18636.00	90.650	341.900	6857.22	11168.55	11481.05	-964.46	1691755.30	14381474.13	39°36'10.1461"N	80°49'3.8550"W	11521.49	355.198	0.27	0.17	-0.21	
18731.00	90.340	342.250	6856.40	11263.53	11571.43	-993.70	1691726.08	14381564.48	39°36'11.0400"N	80°49'4.2262"W	11614.02	355.092	0.49	-0.33	0.37	
18825.00	90.340	341.740	6855.85	11357.52	11660.83	-1022.75	1691697.04	14381653.84	39°36'11.9240"N	80°49'4.5951"W	11705.59	354.988	0.54	0.00	-0.54	
18920.00	90.520	342.090	6855.13	11452.50	11751.13	-1052.24	1691667.56	14381744.10	39°36'12.8171"N	80°49'4.9695"W	11798.15	354.883	0.41	0.19	0.37	

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Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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
19014.00	90.250	341.740	6854.50	11546.49	11840.48	-1081.42	1691638.39	14381833.42	39°36'13.7008"N	80°49'5.3400"W	11889.77	354.782	0.47	-0.29	-0.37	
19109.00	90.430	342.280	6853.94	11641.47	11930.84	-1110.76	1691609.06	14381923.74	39°36'14.5944"N	80°49'5.7125"W	11982.43	354.681	0.60	0.19	0.57	
19203.00	90.550	342.320	6853.13	11735.44	12020.39	-1139.34	1691580.49	14382013.25	39°36'15.4799"N	80°49'6.0753"W	12074.26	354.585	0.13	0.13	0.04	
19297.00	90.060	340.550	6852.63	11829.43	12109.49	-1169.27	1691550.58	14382102.32	39°36'16.3612"N	80°49'6.4553"W	12165.81	354.485	1.95	-0.52	-1.88	
19391.00	90.770	341.370	6851.95	11923.43	12198.34	-1199.93	1691519.93	14382191.14	39°36'17.2399"N	80°49'6.8448"W	12257.22	354.382	1.15	0.76	0.87	
19486.00	89.780	340.750	6851.50	12018.42	12288.20	-1230.76	1691489.11	14382280.95	39°36'18.1286"N	80°49'7.2364"W	12349.68	354.280	1.23	-1.04	-0.65	
19580.00	90.060	341.440	6851.63	12112.42	12377.12	-1261.22	1691458.66	14382369.85	39°36'19.0081"N	80°49'7.6232"W	12441.22	354.182	0.79	0.30	0.73	
19675.00	89.630	340.470	6851.88	12207.42	12466.92	-1292.22	1691427.68	14382459.61	39°36'19.8962"N	80°49'8.0169"W	12533.71	354.082	1.12	-0.45	-1.02	
19769.00	90.280	341.560	6851.96	12301.42	12555.81	-1322.80	1691397.11	14382548.46	39°36'20.7753"N	80°49'8.4053"W	12625.30	353.986	1.35	0.69	1.16	
19864.00	90.180	341.280	6851.58	12396.42	12645.86	-1353.07	1691366.85	14382638.47	39°36'21.6658"N	80°49'8.7897"W	12718.04	353.893	0.31	-0.11	-0.29	
19958.00	90.220	341.810	6851.25	12490.41	12735.02	-1382.82	1691337.11	14382727.60	39°36'22.5477"N	80°49'9.1676"W	12809.88	353.803	0.57	0.04	0.56	
20053.00	89.880	340.860	6851.17	12585.41	12825.02	-1413.23	1691306.72	14382817.57	39°36'23.4378"N	80°49'9.5537"W	12902.65	353.712	1.06	-0.36	-1.00	
20147.00	90.000	340.640	6851.26	12679.41	12913.77	-1444.22	1691275.74	14382906.28	39°36'24.3155"N	80°49'9.9474"W	12994.27	353.619	0.27	0.13	-0.23	
20241.00	90.090	341.490	6851.19	12773.41	13002.68	-1474.72	1691245.25	14382995.15	39°36'25.1948"N	80°49'10.3348"W	13086.04	353.529	0.91	0.10	0.90	
20336.00	90.220	341.440	6850.93	12868.40	13092.75	-1504.92	1691215.06	14383085.19	39°36'26.0856"N	80°49'10.7183"W	13178.96	353.443	0.15	0.14	-0.05	
20431.00	89.910	340.670	6850.83	12963.40	13182.60	-1535.76	1691184.23	14383175.01	39°36'26.9742"N	80°49'11.1101"W	13271.76	353.355	0.87	-0.33	-0.81	
20525.00	90.310	341.400	6850.64	13057.40	13271.50	-1566.31	1691153.69	14383263.87	39°36'27.8534"N	80°49'11.4981"W	13363.61	353.269	0.89	0.43	0.78	
20619.00	89.910	340.780	6850.46	13151.40	13360.43	-1596.77	1691123.24	14383352.76	39°36'28.7329"N	80°49'11.8851"W	13455.51	353.185	0.78	-0.43	-0.66	
20713.00	90.000	341.120	6850.54	13245.40	13449.28	-1627.45	1691092.57	14383441.57	39°36'29.6116"N	80°49'12.2748"W	13547.39	353.100	0.37	0.10	0.36	
20808.00	89.880	341.030	6850.64	13340.40	13539.14	-1658.27	1691061.78	14383531.40	39°36'30.5004"N	80°49'12.6662"W	13640.32	353.017	0.16	-0.13	-0.09	
20902.00	89.970	341.000	6850.76	13434.40	13628.03	-1688.85	1691031.21	14383620.25	39°36'31.3795"N	80°49'13.0546"W	13732.28	352.936	0.10	0.10	-0.03	
20996.00	90.030	341.060	6850.76	13528.40	13716.93	-1719.40	1691000.66	14383709.11	39°36'32.2586"N	80°49'13.4427"W	13824.27	352.855	0.09	0.06	0.06	
21090.00	90.860	341.180	6850.03	13622.39	13805.86	-1749.82	1690970.26	14383798.02	39°36'33.1382"N	80°49'13.8291"W	13916.31	352.777	0.89	0.88	0.13	
21185.00	90.620	341.180	6848.80	13717.39	13895.78	-1780.46	1690939.63	14383887.90	39°36'34.0275"N	80°49'14.2183"W	14009.38	352.698	0.25	-0.25	0.00	
21279.00	90.830	340.910	6847.61	13811.38	13984.67	-1810.99	1690909.11	14383976.76	39°36'34.9066"N	80°49'14.6061"W	14101.45	352.621	0.36	0.22	-0.29	
21373.00	90.770	340.920	6846.30	13905.37	14073.50	-1841.73	1690878.39	14384065.54	39°36'35.7851"N	80°49'14.9965"W	14193.50	352.544	0.06	-0.06	0.01	
21467.00	90.650	341.450	6845.14	13999.36	14162.47	-1872.04	1690848.09	14384154.48	39°36'36.6650"N	80°49'15.3816"W	14285.66	352.470	0.58	-0.13	0.56	
21562.00	90.650	341.110	6844.06	14094.35	14252.44	-1902.53	1690817.61	14384244.41	39°36'37.5548"N	80°49'15.7688"W	14378.86	352.397	0.36	0.00	-0.36	
21657.00	90.770	341.160	6842.88	14189.35	14342.33	-1933.24	1690786.91	14384334.27	39°36'38.4438"N	80°49'16.1590"W	14472.03	352.323	0.14	0.13	0.05	
21751.00	90.740	341.200	6841.64	14283.34	14431.29	-1963.56	1690756.60	14384423.20	39°36'39.3237"N	80°49'16.5442"W	14564.26	352.252	0.05	-0.03	0.04	

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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
21845.00	90.490	340.800	6840.63	14377.33	14520.17	-1994.17	1690726.01	14384512.03	39°36'40.2026"N	80°49'16.9329"W	14656.46	352.180	0.50	-0.27	-0.43	
21939.00	90.980	341.100	6839.43	14471.32	14609.01	-2024.84	1690695.34	14384600.84	39°36'41.0813"N	80°49'17.3226"W	14748.67	352.109	0.61	0.52	0.32	
22034.00	91.020	341.300	6837.77	14566.31	14698.93	-2055.45	1690664.74	14384690.73	39°36'41.9705"N	80°49'17.7115"W	14841.95	352.040	0.21	0.04	0.21	
22128.00	90.650	340.980	6836.40	14660.30	14787.87	-2085.84	1690634.37	14384779.63	39°36'42.8502"N	80°49'18.0974"W	14934.25	351.971	0.52	-0.39	-0.34	
22223.00	90.680	340.840	6835.30	14755.29	14877.64	-2116.91	1690603.32	14384869.37	39°36'43.7380"N	80°49'18.4921"W	15027.49	351.902	0.15	0.03	-0.15	
22317.00	90.580	340.770	6834.26	14849.28	14966.41	-2147.81	1690572.43	14384958.10	39°36'44.6159"N	80°49'18.8847"W	15119.74	351.833	0.13	-0.11	-0.07	
22412.00	90.830	341.210	6833.10	14944.28	15056.22	-2178.75	1690541.50	14385047.88	39°36'45.5041"N	80°49'19.2778"W	15213.05	351.766	0.53	0.26	0.46	
22506.00	91.170	341.370	6831.46	15038.26	15145.24	-2208.90	1690511.36	14385136.86	39°36'46.3845"N	80°49'19.6608"W	15305.47	351.702	0.40	0.36	0.17	
22600.00	91.140	340.810	6829.56	15132.24	15234.15	-2239.36	1690480.92	14385225.73	39°36'47.2638"N	80°49'20.0477"W	15397.86	351.638	0.60	-0.03	-0.60	
22695.00	91.080	340.910	6827.72	15227.22	15323.88	-2270.50	1690449.79	14385315.43	39°36'48.1513"N	80°49'20.4433"W	15491.17	351.572	0.12	-0.06	0.11	
22789.00	91.050	340.780	6825.97	15321.21	15412.66	-2301.34	1690418.96	14385404.17	39°36'49.0293"N	80°49'20.8351"W	15583.53	351.508	0.14	-0.03	-0.14	
22883.00	90.990	340.940	6824.30	15415.19	15501.45	-2332.15	1690388.16	14385492.93	39°36'49.9074"N	80°49'21.2266"W	15675.90	351.444	0.18	-0.06	0.17	
22978.00	91.170	341.310	6822.51	15510.17	15591.33	-2362.88	1690357.44	14385582.77	39°36'50.7963"N	80°49'21.6170"W	15769.36	351.382	0.43	0.19	0.39	
23072.00	90.990	340.870	6820.74	15604.16	15680.24	-2393.34	1690326.99	14385671.64	39°36'51.6756"N	80°49'22.0039"W	15861.84	351.322	0.51	-0.19	-0.47	
23166.00	91.170	341.100	6818.97	15698.14	15769.09	-2423.96	1690296.39	14385760.46	39°36'52.5543"N	80°49'22.3930"W	15954.30	351.261	0.31	0.19	0.24	
23261.00	90.860	340.730	6817.28	15793.13	15858.86	-2455.02	1690265.34	14385850.19	39°36'53.4421"N	80°49'22.7876"W	16047.75	351.200	0.51	-0.33	-0.39	
23355.00	91.290	340.810	6815.52	15887.11	15947.59	-2485.97	1690234.40	14385938.89	39°36'54.3197"N	80°49'23.1809"W	16140.19	351.140	0.47	0.46	0.09	
23450.00	91.660	341.280	6813.07	15982.08	16037.41	-2516.82	1690203.56	14386028.68	39°36'55.2080"N	80°49'23.5728"W	16233.70	351.081	0.63	0.39	0.49	
23544.00	91.570	341.270	6810.42	16076.04	16126.40	-2546.99	1690173.41	14386117.63	39°36'56.0881"N	80°49'23.9560"W	16326.30	351.025	0.10	-0.10	-0.01	
23639.00	91.570	340.840	6807.82	16171.00	16216.22	-2577.82	1690142.59	14386207.41	39°36'56.9764"N	80°49'24.3477"W	16419.84	350.968	0.45	0.00	-0.45	
23733.00	91.350	340.970	6805.43	16264.97	16305.02	-2608.56	1690111.86	14386296.18	39°36'57.8546"N	80°49'24.7383"W	16512.37	350.911	0.27	-0.23	0.14	
23827.00	91.420	340.920	6803.15	16358.94	16393.84	-2639.24	1690081.20	14386384.97	39°36'58.7330"N	80°49'25.1280"W	16604.93	350.854	0.09	0.07	-0.05	
23921.00	91.570	341.240	6800.70	16452.91	16482.74	-2669.71	1690050.74	14386473.82	39°36'59.6122"N	80°49'25.5152"W	16697.54	350.800	0.38	0.16	0.34	
24016.00	91.230	341.050	6798.38	16547.88	16572.61	-2700.40	1690020.06	14386563.66	39°37'0.5010"N	80°49'25.9051"W	16791.18	350.745	0.41	-0.36	-0.20	
24110.00	91.600	341.200	6796.06	16641.85	16661.53	-2730.80	1689989.67	14386652.54	39°37'1.3804"N	80°49'26.2913"W	16883.83	350.692	0.42	0.39	0.16	
24205.00	91.480	341.100	6793.51	16736.82	16751.40	-2761.48	1689959.00	14386742.38	39°37'2.2692"N	80°49'26.6811"W	16977.49	350.639	0.16	-0.13	-0.11	
24300.00	91.450	340.690	6791.08	16831.79	16841.14	-2792.56	1689927.93	14386832.08	39°37'3.1567"N	80°49'27.0761"W	17071.10	350.585	0.43	-0.03	-0.43	
24394.00	91.540	340.980	6788.63	16925.75	16929.90	-2823.41	1689897.09	14386920.81	39°37'4.0345"N	80°49'27.4681"W	17163.72	350.532	0.32	0.10	0.31	
24488.00	91.390	340.950	6786.22	17019.72	17018.73	-2854.06	1689866.46	14387009.60	39°37'4.9130"N	80°49'27.8575"W	17256.39	350.480	0.16	-0.16	-0.03	
24583.00	91.480	340.890	6783.84	17114.69	17108.48	-2885.11	1689835.43	14387099.32	39°37'5.8007"N	80°49'28.2519"W	17350.04	350.428	0.11	0.09	-0.06	

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (272 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
24604.00	91.570	341.090	6783.28	17135.69	17128.33	-2891.94	1689828.59	14387119.16	39°37'5.9970"N	80°49'28.3388"W	17370.75	350.417	1.04	0.43	0.95	
24629.00‡	91.570	341.090	6782.60	17160.68	17151.97	-2900.04	1689820.49	14387142.79	39°37'6.2308"N	80°49'28.4417"W	17395.41	350.403	0.00	0.00	0.00	Projected MD at TD: 24629'

HOLE & CASING SECTIONS - Ref Wellbore: Cargo Unit 2H AWB Ref Wellpath: Cargo Unit 2H AWP Proj: 24629'

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	0.09	0.10
17.5in Open Hole	125.50	422.00	296.50	125.50	421.98	0.09	0.10	-1.97	2.50
13.375in Casing Surface	25.50	402.00	376.50	25.50	401.98	0.00	0.00	-1.72	2.29
12.375in Open Hole	422.00	3333.00	2911.00	421.98	3089.36	-1.97	2.50	243.00	1062.92
9.625in Casing Intermediate	25.50	3303.00	3277.50	25.50	3061.75	0.00	0.00	239.68	1051.68
8.75in Open Hole	3333.00	6677.00	3344.00	3089.36	6081.10	243.00	1062.92	554.69	2518.99
8.5in Open Hole	6677.00	24629.00	17952.00	6081.10	6782.60	554.69	2518.99	17151.97	-2900.04
5.5in Casing Production	25.50	24609.00	24583.50	25.50	6783.15	0.00	0.00	17133.06	-2893.56

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Actual Wellpath Report

Cargo Unit 2H AWP Proj: 24629'

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Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Cargo Unit 2H POE Rev-3	6784.00	1085.49	2619.89	1695338.23	14371082.72	39°34'27.3306"N	80°48'18.3507"W	point
Cargo Unit 2H POE Rev-4	6784.00	1106.61	2612.62	1695330.96	14371103.82	39°34'27.5394"N	80°48'18.4431"W	point
Cargo Unit 2H BHL Rev-3	6809.00	17114.04	-2904.90	1689815.64	14387104.87	39°37'5.8559"N	80°49'28.5047"W	point
Cargo Unit 2H LP Rev-3	6809.00	1273.61	2555.05	1695273.41	14371270.77	39°34'29.1912"N	80°48'19.1736"W	point
Cargo Unit 2H 50' L/R Hard Line	7000.00	9099.76	-142.50	1692576.93	14379093.80	39°35'46.5949"N	80°48'53.4167"W	rectangle
2D Rectangle 16954 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Cargo Unit 2H AWB Ref Wellpath: Cargo Unit 2H AWP Proj: 24629'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	372.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-372')	Cargo Unit 2H AWB	2/23/2024
372.00	3254.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (372')(409'-3254')	Cargo Unit 2H AWB	2/23/2024
3254.00	6603.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3254')(3295'-6603')	Cargo Unit 2H AWB	5/6/2024
6603.00	24629.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6603')(6640'-24604')	Cargo Unit 2H AWB	5/6/2024

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Cargo Unit 2H AWP Proj: 24629'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cargo Unit 2H
Field	Wetzel	API	47-103-03630-0000
Facility	Fluharty Pad	Wellbore	Cargo Unit 2H AWB
Slot	Slot G		

COMMENTS

Wellpath general comments

API: 47-103-03630-0000

BH Job #: 112156743

Rig: H&P 317

Duration: 5/8/2024-5/12/2024

Gyrodata MS Gyro <17-1/2"> (100'-372')

APS EM <12-3/8"> (372')(409'-3254')

APS EM <8-3/4"> (3254')(3295'-6603')

BH AT Curve <8-1/2"> (6603')(6640'-24604')

Sycamore: 7157' MD

Middlesex: 7316' MD

Burkett: 7474' MD

Tully: 7525' MD

Marcellus POE: 7619' MD

Projected MD at TD: 24629'

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