



ANTERO RESOURCES CORPORATION



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

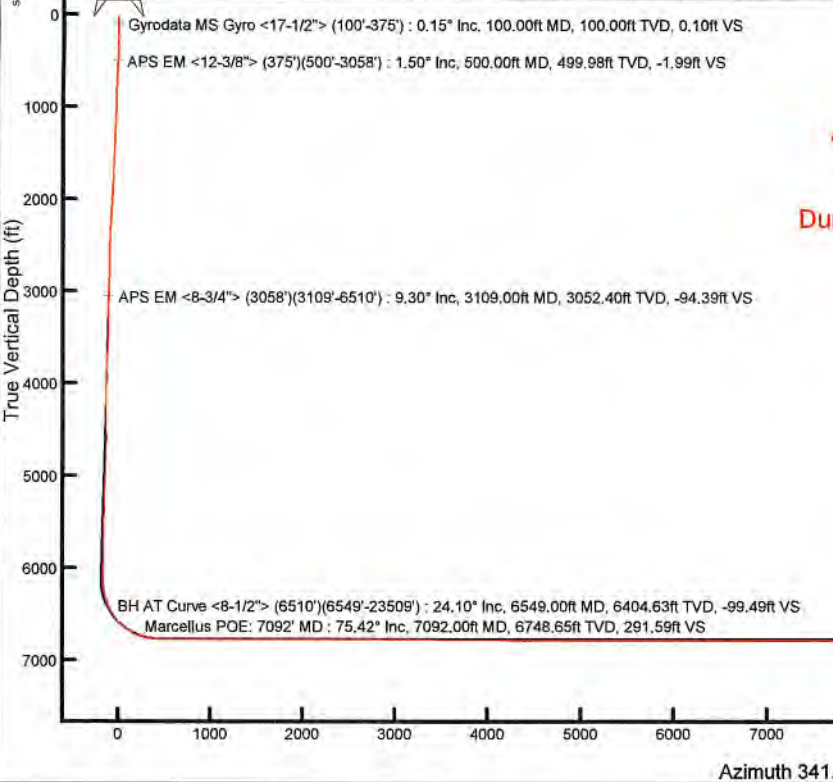
Slot: Slot B
 Well: Girardi Unit 2H
 Wellbore: Girardi Unit 2H PWB

Plus reference wellpath is Girardi Unit 2H PWP Rev-B.0	Grid System: NAD2011 UTM Zone 17 North, US Feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid North
Reference wellpath measured Azimuths are referenced to H&P 317 (RKB)	Scale: True (Metric)
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 B) -1181 feet	Depths are in feet
Other wellpath MDs are referenced to each path's default MD datum	Created by: arbitrary on 2024-04-10, Database: WA, OPL, EASTERNUS, Dela

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Fluharty Pad	160288.950	14370028.840	39°34'16.9661"N	80°48'52.2497"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot B	20.79	-21.63	160288.330	14370049.620
Comment: Girardi Unit 2H				
H&P 317 (RKB) to Ground level (At Slot: Slot B)				25.58
Mean Sea Level to Ground level (At Slot: Slot B)				-1181ft
H&P 317 (RKB) to Mean Sea Level				1206.5ft

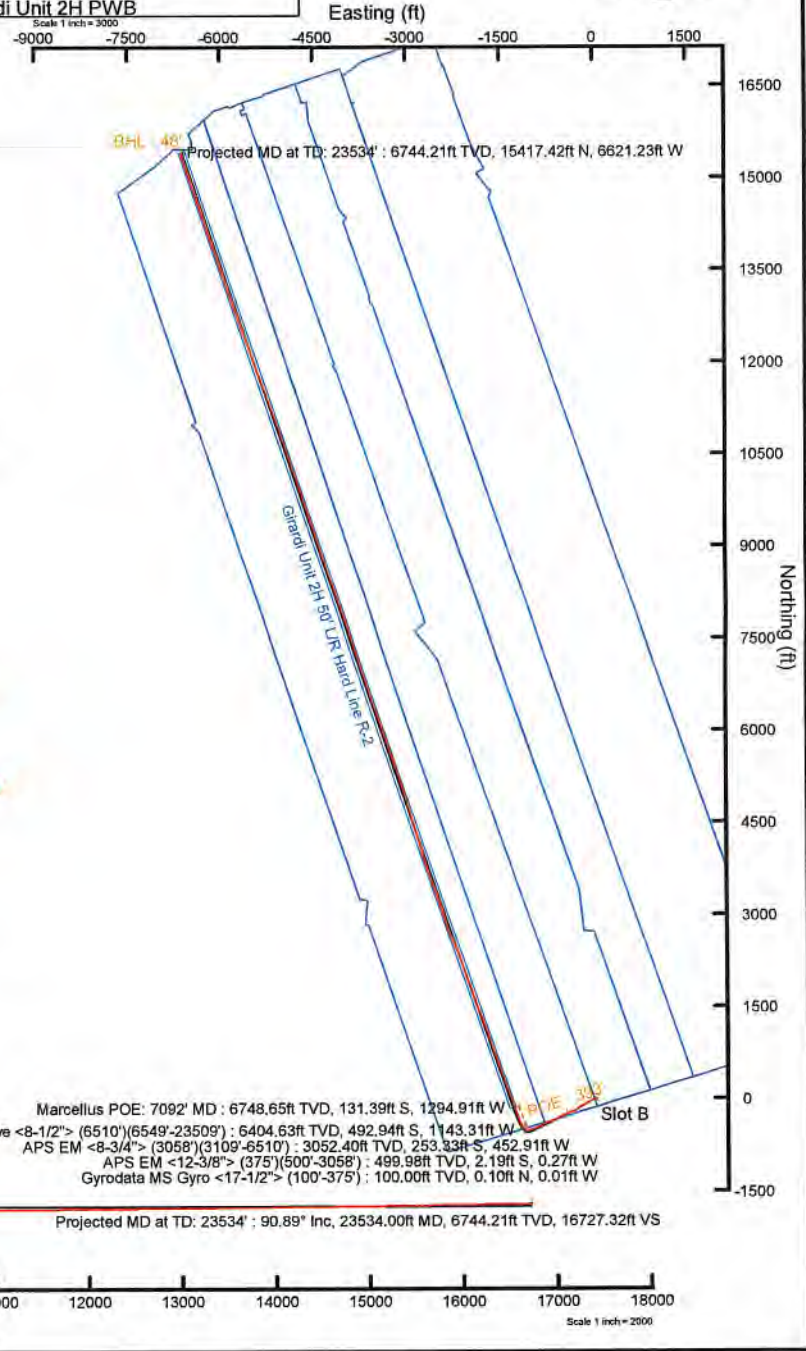
Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3058.00	9.650	239.760	3002.10	-248.96	-445.74	-92.55
Proj. to Bottom	3132.00	9.650	239.760	3075.05	-255.20	-456.46	-95.03
Drill Out	3212.00	9.650	239.760	3153.92	-261.96	-468.05	-97.70
End of 3D Arc	3374.05	12.771	244.307	3312.86	-276.57	-485.93	-102.58
Curve ROP	6253.12	12.771	244.307	6120.71	-552.49	-1089.42	-179.62
PDE	7092.14	75.569	341.263	6741.00	-151.91	-1319.53	280.07
Landing Pt	7274.71	90.000	341.263	6767.00	18.82	-1377.37	460.15
BHL	23532.50	90.000	341.263	6767.00	15414.83	-6599.68	16717.94

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	Girardi Unit 2H	Girardi Unit 2H AWB	Girardi Unit 2H AWP Proj: 23534'
Slot B	Girardi Unit 2H	Girardi Unit 2H PWB	Girardi Unit 2H PWP Rev-B.0



API: 47-103-03635-0000
 BH Job #: 112156755
 Rig: H&P 317
 Duration: 3/24/2024-3/28/2024

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Azimuth 341.26° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Girardi Unit 2H
Field	Wetzel	API	47-103-03635-0000
Facility	Fluharty Pad	Wellbore	Girardi Unit 2H AWB
Slot	Slot B		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999603	Report Generated	4/13/2024 at 8:58:18 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	20.79	-21.63	1692665.33	14370049.62	39°34'17.1720"N	80°48'52.5254"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 B)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.26°

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Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Girardi Unit 2H
Field	Wetzel		API	47-103-03635-0000
Facility	Fluharty Pad		Wellbore	Girardi Unit 2H AWB
Slot	Slot B			

WELLPATH DATA (256 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	353.300	0.00	0.00	0.00	0.00	1692665.33	14370049.62	39°34'17.1720"N	80°48'52.5254"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	353.300	25.50	0.00	0.00	0.00	1692665.33	14370049.62	39°34'17.1720"N	80°48'52.5254"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.150	353.300	100.00	0.10	0.10	-0.01	1692665.32	14370049.72	39°34'17.1730"N	80°48'52.5255"W	0.10	353.300	0.20	0.20	0.00	Gyrodata MS Gyro <17-1/2"> (100'-375')
200.00	0.260	123.180	200.00	0.04	0.10	0.16	1692665.49	14370049.72	39°34'17.1731"N	80°48'52.5233"W	0.19	57.829	0.37	0.11	129.88	
300.00	0.200	152.390	300.00	-0.31	-0.18	0.43	1692665.76	14370049.44	39°34'17.1703"N	80°48'52.5198"W	0.47	112.088	0.13	-0.06	29.21	
375.00	0.320	165.150	375.00	-0.64	-0.49	0.55	1692665.88	14370049.13	39°34'17.1671"N	80°48'52.5184"W	0.74	132.047	0.18	0.16	17.01	
500.00	1.500	213.770	499.98	-1.99	-2.19	-0.27	1692665.06	14370047.43	39°34'17.1504"N	80°48'52.5289"W	2.21	187.063	1.05	0.94	38.90	APS EM <12-3/8"> (375')(500'-3058')
590.00	3.070	226.140	589.91	-3.73	-4.84	-2.66	1692662.67	14370044.78	39°34'17.1242"N	80°48'52.5595"W	5.53	208.825	1.82	1.74	13.74	
679.00	4.580	232.490	678.71	-5.88	-8.66	-7.20	1692658.13	14370040.97	39°34'17.0866"N	80°48'52.6176"W	11.26	219.758	1.76	1.70	7.13	
767.00	6.210	240.270	766.32	-7.92	-13.16	-14.12	1692651.21	14370036.47	39°34'17.0423"N	80°48'52.7060"W	19.30	227.027	2.03	1.85	8.84	
856.00	7.940	242.050	854.63	-9.82	-18.43	-23.73	1692641.61	14370031.20	39°34'16.9904"N	80°48'52.8289"W	30.05	232.176	1.96	1.94	2.00	
944.00	9.170	243.460	941.65	-11.75	-24.41	-35.38	1692629.97	14370025.22	39°34'16.9315"N	80°48'52.9777"W	42.98	235.396	1.42	1.40	1.60	
1038.00	11.280	243.270	1034.16	-14.04	-31.89	-50.29	1692615.06	14370017.74	39°34'16.8579"N	80°48'53.1684"W	59.55	237.620	2.24	2.24	-0.20	
1132.00	11.940	242.980	1126.23	-16.72	-40.44	-67.16	1692598.19	14370009.19	39°34'16.7737"N	80°48'53.3841"W	78.40	238.945	0.70	0.70	-0.31	
1226.00	12.030	240.870	1218.18	-19.89	-49.63	-84.38	1692580.98	14370000.01	39°34'16.6833"N	80°48'53.6042"W	97.89	239.538	0.48	0.10	-2.24	
1321.00	11.950	238.240	1311.11	-23.89	-59.63	-101.39	1692563.98	14369990.02	39°34'16.5848"N	80°48'53.8217"W	117.62	239.542	0.58	-0.08	-2.77	
1415.00	12.040	238.040	1403.06	-28.32	-69.94	-117.99	1692547.39	14369979.71	39°34'16.4832"N	80°48'54.0338"W	137.16	239.342	0.11	0.10	-0.21	
1509.00	11.910	235.920	1495.01	-33.13	-80.56	-134.34	1692531.05	14369969.09	39°34'16.3786"N	80°48'54.2429"W	156.64	239.049	0.49	-0.14	-2.26	
1604.00	12.150	236.310	1587.93	-38.30	-91.60	-150.77	1692514.62	14369958.06	39°34'16.2698"N	80°48'54.4531"W	176.42	238.720	0.27	0.25	0.41	
1698.00	13.050	241.540	1679.67	-42.65	-102.15	-168.34	1692497.06	14369947.52	39°34'16.1659"N	80°48'54.6777"W	196.90	238.751	1.54	0.96	5.56	
1793.00	13.560	241.980	1772.12	-46.26	-112.49	-187.60	1692477.81	14369937.18	39°34'16.0641"N	80°48'54.9239"W	218.74	239.052	0.55	0.54	0.46	
1887.00	13.940	241.200	1863.42	-50.01	-123.12	-207.25	1692458.17	14369926.55	39°34'15.9594"N	80°48'55.1751"W	241.06	239.287	0.45	0.40	-0.83	
1982.00	14.500	240.530	1955.51	-54.22	-134.48	-227.63	1692437.79	14369915.19	39°34'15.8475"N	80°48'55.4357"W	264.39	239.425	0.61	0.59	-0.71	
2076.00	14.610	238.560	2046.49	-59.02	-146.46	-247.99	1692417.44	14369903.22	39°34'15.7296"N	80°48'55.6960"W	288.01	239.435	0.54	0.12	-2.10	
2171.00	15.040	237.750	2138.33	-64.53	-159.28	-268.64	1692396.80	14369890.40	39°34'15.6033"N	80°48'55.9600"W	312.31	239.335	0.50	0.45	-0.85	
2265.00	15.500	236.970	2229.01	-70.48	-172.64	-289.48	1692375.96	14369877.05	39°34'15.4717"N	80°48'56.2265"W	337.05	239.189	0.54	0.49	-0.83	
2360.00	16.050	239.110	2320.44	-76.38	-186.30	-311.39	1692354.06	14369863.39	39°34'15.3371"N	80°48'56.5067"W	362.87	239.109	0.84	0.58	2.25	
2454.00	15.020	245.930	2411.01	-80.25	-197.94	-333.67	1692331.79	14369851.76	39°34'15.2225"N	80°48'56.7914"W	387.96	239.323	2.23	-1.10	7.26	
2549.00	13.060	247.220	2503.17	-82.15	-207.12	-354.81	1692310.66	14369842.58	39°34'15.1323"N	80°48'57.0616"W	410.84	239.726	2.09	-2.06	1.36	
2638.00	13.090	246.740	2589.86	-83.65	-214.99	-373.34	1692292.14	14369834.71	39°34'15.0548"N	80°48'57.2984"W	430.82	240.064	0.13	0.03	-0.54	

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Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Girardi Unit 2H
Field	Wetzel		API	47-103-03635-0000
Facility	Fluharty Pad		Wellbore	Girardi Unit 2H AWB
Slot	Slot B			

WELLPATH DATA (256 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
2733.00	11.830	247.050	2682.62	-85.21	-223.04	-392.19	1692273.30	14369826.67	39°34'14.9757"N	80°48'57.5394"W	451.17	240.373	1.33	-1.33	0.33	
2827.00	10.950	245.860	2774.77	-86.76	-230.45	-409.21	1692256.28	14369819.27	39°34'14.9028"N	80°48'57.7569"W	469.64	240.614	0.97	-0.94	-1.27	
2922.00	10.310	243.930	2868.14	-88.69	-237.87	-425.08	1692240.42	14369811.84	39°34'14.8297"N	80°48'57.9597"W	487.11	240.769	0.77	-0.67	-2.03	
3016.00	9.760	240.850	2960.70	-91.21	-245.45	-439.59	1692225.91	14369804.27	39°34'14.7551"N	80°48'58.1453"W	503.48	240.823	0.82	-0.59	-3.28	
3058.00	9.650	239.760	3002.10	-92.55	-248.96	-445.74	1692219.76	14369800.76	39°34'14.7206"N	80°48'58.2239"W	510.56	240.816	0.51	-0.26	-2.60	
3109.00	9.300	237.410	3052.40	-94.39	-253.33	-452.91	1692212.60	14369796.39	39°34'14.6775"N	80°48'58.3155"W	518.94	240.780	1.02	-0.69	-4.61	APS EM <8-3/4"> (3058')(3109'-6510')
3204.00	11.190	248.570	3145.89	-96.66	-260.83	-467.96	1692197.56	14369788.89	39°34'14.6037"N	80°48'58.5079"W	535.74	240.865	2.88	1.99	11.75	
3298.00	11.780	249.720	3238.01	-97.35	-267.49	-485.45	1692180.07	14369782.24	39°34'14.5382"N	80°48'58.7315"W	554.27	241.145	0.67	0.63	1.22	
3393.00	10.870	250.040	3331.16	-97.80	-273.91	-502.97	1692162.56	14369775.82	39°34'14.4751"N	80°48'58.9553"W	572.72	241.428	0.96	-0.96	0.34	
3487.00	12.760	244.700	3423.17	-99.17	-281.37	-520.69	1692144.85	14369768.36	39°34'14.4017"N	80°48'59.1817"W	591.85	241.614	2.32	2.01	-5.68	
3582.00	15.150	244.830	3515.36	-101.76	-291.14	-541.41	1692124.14	14369758.60	39°34'14.3056"N	80°48'59.4466"W	614.72	241.731	2.52	2.52	0.14	
3676.00	15.150	241.860	3606.09	-105.14	-302.16	-563.36	1692102.20	14369747.59	39°34'14.1972"N	80°48'59.7272"W	639.27	241.793	0.83	0.00	-3.16	
3770.00	14.710	238.950	3696.92	-109.70	-314.10	-584.41	1692081.15	14369735.64	39°34'14.0795"N	80°48'59.9964"W	663.48	241.743	0.92	-0.47	-3.10	
3864.00	14.090	235.000	3787.97	-115.44	-326.82	-604.01	1692061.56	14369722.93	39°34'13.9542"N	80°49'0.2470"W	686.76	241.583	1.24	-0.66	-4.20	
3958.00	13.950	239.370	3879.17	-120.98	-339.16	-623.13	1692042.44	14369710.60	39°34'13.8327"N	80°49'0.4915"W	709.45	241.441	1.14	-0.15	4.65	
4053.00	13.630	245.480	3971.44	-124.47	-349.64	-643.17	1692022.41	14369700.12	39°34'13.7295"N	80°49'0.7476"W	732.07	241.471	1.57	-0.34	6.43	
4147.00	13.120	253.360	4062.89	-125.19	-357.29	-663.47	1692002.12	14369692.47	39°34'13.6543"N	80°49'1.0071"W	753.56	241.697	2.01	-0.54	8.38	
4241.00	12.250	252.180	4154.60	-124.64	-363.40	-683.19	1691982.41	14369686.37	39°34'13.5943"N	80°49'1.2590"W	773.83	241.991	0.97	-0.93	-1.26	
4336.00	11.590	247.510	4247.55	-125.10	-370.13	-701.60	1691964.01	14369679.63	39°34'13.5281"N	80°49'1.4943"W	793.25	242.186	1.23	-0.69	-4.92	
4430.00	11.250	251.770	4339.69	-125.64	-376.61	-719.04	1691946.58	14369673.16	39°34'13.4644"N	80°49'1.7171"W	811.70	242.358	0.97	-0.36	4.53	
4524.00	12.440	258.860	4431.69	-124.22	-381.44	-737.68	1691927.94	14369668.33	39°34'13.4171"N	80°49'1.9553"W	830.46	242.657	2.00	1.27	7.54	
4619.00	11.690	256.350	4524.59	-122.01	-385.69	-757.07	1691908.56	14369664.09	39°34'13.3755"N	80°49'2.2030"W	849.66	243.004	0.96	-0.79	-2.64	
4713.00	12.590	249.250	4616.50	-121.53	-391.57	-775.91	1691889.73	14369658.21	39°34'13.3178"N	80°49'2.4437"W	869.11	243.222	1.85	0.96	-7.55	
4807.00	14.290	244.750	4707.92	-123.20	-400.14	-795.98	1691869.66	14369649.64	39°34'13.2334"N	80°49'2.7003"W	890.90	243.311	2.12	1.81	-4.79	
4902.00	13.960	243.410	4800.05	-126.10	-410.27	-816.83	1691848.82	14369639.51	39°34'13.1337"N	80°49'2.9668"W	914.08	243.331	0.49	-0.35	-1.41	
4996.00	12.300	237.800	4891.59	-129.98	-420.69	-835.45	1691830.21	14369629.10	39°34'13.0312"N	80°49'3.2048"W	935.39	243.273	2.22	-1.77	-5.97	
5091.00	13.050	241.070	4984.28	-134.23	-431.27	-853.40	1691812.27	14369618.52	39°34'12.9270"N	80°49'3.4343"W	956.18	243.190	1.09	0.79	3.44	
5185.00	12.480	241.390	5075.95	-137.85	-441.26	-871.60	1691794.07	14369608.53	39°34'12.8285"N	80°49'3.6670"W	976.94	243.148	0.61	-0.61	0.34	
5280.00	10.810	237.460	5169.00	-141.73	-450.97	-888.13	1691777.56	14369598.83	39°34'12.7329"N	80°49'3.8782"W	996.07	243.079	1.95	-1.76	-4.14	
5374.00	10.050	244.030	5261.45	-144.87	-459.31	-902.93	1691762.76	14369590.50	39°34'12.6509"N	80°49'4.0675"W	1013.04	243.038	1.50	-0.81	6.99	

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Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Girardi Unit 2H
Field	Wetzel		API	47-103-03635-0000
Facility	Fluharty Pad		Wellbore	Girardi Unit 2H AWB
Slot	Slot B			

WELLPATH DATA (256 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	[US ft]	[US ft]			(ft)	(°)	(°/100ft)	(°/100ft)	(°/100ft)	
5471.00	14.180	248.550	5356.27	-146.50	-467.36	-921.61	1691744.09	14369582.45	39°34'12.5716"N	80°49'4.3062"W	1033.34	243.110	4.37	4.26	4.66	
5566.00	14.060	242.120	5448.40	-148.88	-477.01	-942.64	1691723.07	14369572.80	39°34'12.4767"N	80°49'4.5750"W	1056.46	243.159	1.66	-0.13	-6.77	
5660.00	13.450	252.190	5539.72	-150.51	-485.70	-963.14	1691702.57	14369564.12	39°34'12.3912"N	80°49'4.8371"W	1078.68	243.239	2.62	-0.65	10.71	
5755.00	12.730	251.500	5632.25	-150.29	-492.40	-983.59	1691682.13	14369557.42	39°34'12.3254"N	80°49'5.0983"W	1099.96	243.407	0.78	-0.76	-0.73	
5849.00	13.240	250.490	5723.85	-150.39	-499.28	-1003.56	1691662.17	14369550.54	39°34'12.2578"N	80°49'5.3535"W	1120.90	243.549	0.59	0.54	-1.07	
5944.00	11.680	248.240	5816.61	-151.05	-506.48	-1022.74	1691642.99	14369543.34	39°34'12.1870"N	80°49'5.5987"W	1141.28	243.655	1.72	-1.64	-2.37	
6038.00	11.550	249.210	5908.68	-151.88	-513.34	-1040.38	1691625.37	14369536.48	39°34'12.1195"N	80°49'5.8240"W	1160.13	243.737	0.25	-0.14	1.03	
6132.00	12.020	243.770	6000.70	-153.50	-521.01	-1057.96	1691607.80	14369528.82	39°34'12.0441"N	80°49'6.0487"W	1179.29	243.781	1.28	0.50	-5.79	
6227.00	10.410	255.980	6093.90	-154.08	-527.46	-1075.16	1691590.60	14369522.37	39°34'11.9807"N	80°49'6.2686"W	1197.58	243.868	3.01	-1.69	12.85	
6321.00	10.620	274.360	6186.35	-149.98	-528.86	-1092.04	1691573.72	14369520.97	39°34'11.9672"N	80°49'6.4842"W	1213.36	244.160	3.56	0.22	19.55	
6415.00	14.790	300.440	6278.10	-137.49	-522.12	-1111.05	1691554.73	14369527.71	39°34'12.0342"N	80°49'6.7267"W	1227.61	244.830	7.44	4.44	27.74	
6510.00	20.740	315.580	6368.58	-113.12	-503.93	-1133.31	1691532.48	14369545.89	39°34'12.2144"N	80°49'7.0104"W	1240.30	246.027	7.88	6.26	15.94	
6549.00	24.100	319.520	6404.63	-99.49	-492.94	-1143.31	1691522.47	14369556.87	39°34'12.3232"N	80°49'7.1379"W	1245.05	246.677	9.43	8.62	10.10	BH AT Curve <8-1/2"> (6510')(6549'-23509')
6612.00†	28.151	325.495	6461.19	-73.23	-470.90	-1160.09	1691505.70	14369578.91	39°34'12.5414"N	80°49'7.3516"W	1252.02	247.907	7.66	6.43	9.48	Sycamore: 6612' MD
6644.00	30.290	327.950	6489.11	-58.11	-457.84	-1168.65	1691497.15	14369591.97	39°34'12.6707"N	80°49'7.4606"W	1255.13	248.807	7.66	6.68	7.67	
6738.00	40.030	334.440	6565.90	-4.88	-410.34	-1194.34	1691471.46	14369639.44	39°34'13.1406"N	80°49'7.7875"W	1262.87	251.039	11.09	10.36	6.90	
6745.00†	40.811	334.961	6571.23	-0.37	-406.24	-1196.28	1691469.52	14369643.54	39°34'13.1812"N	80°49'7.8121"W	1263.38	251.243	12.16	11.16	7.44	Middlesex: 6745' MD
6833.00	50.790	340.370	6632.52	62.49	-347.90	-1219.98	1691445.84	14369701.86	39°34'13.7582"N	80°49'8.1132"W	1268.61	254.083	12.16	11.34	6.15	
6880.00†	54.974	340.911	6660.88	99.96	-312.55	-1232.39	1691433.43	14369737.19	39°34'14.1079"N	80°49'8.2708"W	1271.41	255.769	8.95	8.90	1.15	Burkett: 6880' MD
6917.00†	58.269	341.300	6681.23	130.85	-283.32	-1242.39	1691423.43	14369766.41	39°34'14.3969"N	80°49'8.3978"W	1274.29	257.154	8.95	8.91	1.05	Tully: 6917' MD
6927.00	59.160	341.400	6686.43	139.39	-275.22	-1245.13	1691420.70	14369774.51	39°34'14.4770"N	80°49'8.4325"W	1275.18	257.536	8.95	8.91	1.00	
7021.00	69.370	341.100	6727.19	223.96	-195.15	-1272.32	1691393.52	14369854.55	39°34'15.2689"N	80°49'8.7776"W	1287.20	261.280	10.87	10.86	-0.32	
7092.00†	75.423	339.907	6748.65	291.59	-131.39	-1294.91	1691370.94	14369918.28	39°34'15.8995"N	80°49'9.0644"W	1301.55	264.206	8.67	8.52	-1.68	Marcellus POE: 7092' MD
7116.00	77.470	339.520	6754.27	314.92	-109.51	-1302.99	1691362.86	14369940.16	39°34'16.1160"N	80°49'9.1672"W	1307.59	265.196	8.67	8.53	-1.61	
7211.00	84.140	341.270	6789.45	408.63	-21.21	-1334.43	1691331.43	14370028.41	39°34'16.9892"N	80°49'9.5663"W	1334.60	269.089	7.25	7.02	1.84	
7305.00	90.800	339.890	6773.60	502.47	67.30	-1365.64	1691300.24	14370116.89	39°34'17.8646"N	80°49'9.9626"W	1367.29	272.821	7.24	7.09	-1.47	
7399.00	90.250	340.280	6772.73	596.45	155.67	-1397.65	1691268.23	14370205.23	39°34'18.7387"N	80°49'10.3691"W	1406.30	276.356	0.72	-0.59	0.41	
7494.00	89.780	340.240	6772.71	691.44	245.09	-1429.74	1691236.16	14370294.61	39°34'19.6231"N	80°49'10.7766"W	1450.60	279.727	0.50	-0.49	-0.04	
7588.00	89.660	340.150	6773.17	785.42	333.53	-1461.59	1691204.32	14370383.02	39°34'20.4977"N	80°49'11.1810"W	1499.16	282.855	0.16	-0.13	-0.10	
7683.00	89.940	341.030	6773.50	880.41	423.13	-1493.16	1691172.77	14370472.58	39°34'21.3839"N	80°49'11.5819"W	1551.95	285.822	0.97	0.29	0.93	

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Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Girardi Unit 2H
Field	Wetzel	API	47-103-03635-0000
Facility	Floharty Pad	Wellbore	Girardi Unit 2H AWP
Slot	Slot B		

WELLPATH DATA (256 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
7777.00	89.750	341.380	6773.75	974.41	512.12	-1523.44	1691142.49	14370561.53	39°34'22.2640"N	80°49'11.9664"W	1607.22	288.580	0.42	-0.20	0.37	
7872.00	89.970	341.190	6773.99	1069.41	602.09	-1553.93	1691112.02	14370651.47	39°34'23.1538"N	80°49'12.3533"W	1666.49	291.180	0.31	0.23	-0.20	
7967.00	89.820	340.880	6774.16	1164.41	691.93	-1584.80	1691081.16	14370741.28	39°34'24.0424"N	80°49'12.7453"W	1729.27	293.586	0.36	-0.16	-0.33	
8061.00	89.910	340.500	6774.38	1258.40	780.65	-1615.88	1691050.09	14370829.95	39°34'24.9198"N	80°49'13.1400"W	1794.57	295.786	0.42	0.10	-0.40	
8156.00	90.060	340.920	6774.41	1353.40	870.31	-1647.27	1691018.72	14370919.59	39°34'25.8066"N	80°49'13.5385"W	1863.04	297.849	0.47	0.16	0.44	
8250.00	90.030	341.310	6774.33	1447.40	959.25	-1677.69	1690988.31	14371008.49	39°34'26.6862"N	80°49'13.9247"W	1932.57	299.760	0.42	-0.03	0.41	
8345.00	89.660	340.170	6774.59	1542.39	1048.93	-1709.03	1690956.98	14371098.14	39°34'27.5731"N	80°49'14.3226"W	2005.25	301.540	1.26	-0.39	-1.20	
8439.00	90.180	340.420	6774.72	1636.38	1137.43	-1740.72	1690925.30	14371186.59	39°34'28.4484"N	80°49'14.7251"W	2079.39	303.162	0.61	0.55	0.27	
8534.00	90.030	339.980	6774.55	1731.36	1226.81	-1772.90	1690893.14	14371275.94	39°34'29.3324"N	80°49'15.1338"W	2155.98	304.682	0.49	-0.16	-0.46	
8628.00	90.090	339.570	6774.45	1825.33	1315.02	-1805.40	1690860.65	14371364.11	39°34'30.2048"N	80°49'15.5465"W	2233.55	306.069	0.44	0.06	-0.44	
8723.00	89.880	338.940	6774.47	1920.27	1403.86	-1839.05	1690827.02	14371452.92	39°34'31.0835"N	80°49'15.9740"W	2313.64	307.357	0.70	-0.22	-0.66	
8818.00	89.420	340.350	6775.05	2015.23	1492.92	-1872.09	1690793.99	14371541.94	39°34'31.9643"N	80°49'16.3937"W	2394.48	308.571	1.56	-0.48	1.48	
8912.00	91.390	342.460	6774.39	2109.22	1582.00	-1902.06	1690764.03	14371630.99	39°34'32.8453"N	80°49'16.7742"W	2473.98	309.751	3.07	2.10	2.24	
9007.00	90.030	342.130	6773.21	2204.19	1672.49	-1930.95	1690735.15	14371721.44	39°34'33.7403"N	80°49'17.1408"W	2554.56	310.897	1.47	-1.43	-0.35	
9102.00	90.060	341.090	6773.14	2299.19	1762.64	-1960.92	1690705.19	14371811.56	39°34'34.6318"N	80°49'17.5213"W	2636.68	311.952	1.10	0.03	-1.09	
9196.00	89.570	340.830	6773.44	2393.19	1851.50	-1991.59	1690674.54	14371900.38	39°34'35.5106"N	80°49'17.9106"W	2719.27	312.912	0.59	-0.52	-0.28	
9291.00	89.820	340.830	6773.95	2488.18	1941.23	-2022.78	1690643.36	14371990.07	39°34'36.3980"N	80°49'18.3067"W	2803.57	313.821	0.26	0.26	0.00	
9386.00	89.260	340.650	6774.71	2583.17	2030.91	-2054.12	1690612.03	14372079.72	39°34'37.2850"N	80°49'18.7046"W	2888.59	314.674	0.62	-0.59	-0.19	
9480.00	89.600	341.190	6775.64	2677.17	2119.74	-2084.84	1690581.32	14372168.51	39°34'38.1635"N	80°49'19.0948"W	2973.19	315.476	0.68	0.36	0.57	
9575.00	89.540	339.720	6776.36	2772.15	2209.26	-2116.62	1690549.55	14372258.00	39°34'39.0489"N	80°49'19.4984"W	3059.56	316.227	1.55	-0.06	-1.55	
9669.00	90.580	340.180	6776.26	2866.13	2297.56	-2148.85	1690517.34	14372346.26	39°34'39.9222"N	80°49'19.9077"W	3145.84	316.916	1.21	1.11	0.49	
9764.00	89.910	338.510	6775.85	2961.07	2386.45	-2182.36	1690483.84	14372435.12	39°34'40.8014"N	80°49'20.3334"W	3233.85	317.558	1.89	-0.71	-1.76	
9858.00	90.000	337.180	6775.93	3054.90	2473.51	-2217.80	1690448.41	14372522.14	39°34'41.6625"N	80°49'20.7839"W	3322.18	318.120	1.42	0.10	-1.41	
9952.00	90.830	335.660	6775.25	3148.56	2559.65	-2255.40	1690410.82	14372608.25	39°34'42.5146"N	80°49'21.2620"W	3411.55	318.616	1.84	0.88	-1.62	
10047.00	89.230	337.160	6775.20	3243.21	2646.71	-2293.42	1690372.82	14372695.27	39°34'43.3757"N	80°49'21.7453"W	3502.12	319.090	2.31	-1.68	1.58	
10141.00	89.200	340.270	6776.48	3337.10	2734.28	-2327.54	1690338.72	14372782.81	39°34'44.2419"N	80°49'22.1788"W	3590.78	319.594	3.31	-0.03	3.31	
10235.00	89.420	342.690	6777.62	3431.09	2823.40	-2357.39	1690308.88	14372871.89	39°34'45.1232"N	80°49'22.5578"W	3678.16	320.140	2.58	0.23	2.57	
10329.00	89.820	343.600	6778.24	3525.03	2913.35	-2384.64	1690281.64	14372961.81	39°34'46.0128"N	80°49'22.9036"W	3764.86	320.699	1.06	0.43	0.97	
10424.00	89.970	343.850	6778.41	3619.94	3004.55	-2411.27	1690255.02	14373052.97	39°34'46.9146"N	80°49'23.2413"W	3852.47	321.252	0.31	0.16	0.26	
10518.00	88.180	341.850	6779.93	3713.89	3094.35	-2438.98	1690227.32	14373142.73	39°34'47.8027"N	80°49'23.5930"W	3940.00	321.755	2.86	-1.90	-2.13	

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Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Girardi Unit 2H
Field	Wetzel		API	47-103-03635-0000
Facility	Fluharty Pad		Wellbore	Girardi Unit 2H AWB
Slot	Slot B			

WELLPATH DATA (256 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
10613.00	89.230	341.800	6782.08	3808.86	3184.58	-2468.60	1690197.71	14373232.93	39°34'48.6951"N	80°49'23.9691"W	4029.34	322.218	1.11	1.11	-0.05	
10707.00	89.350	340.070	6783.24	3902.84	3273.42	-2499.30	1690167.02	14373321.73	39°34'49.5736"N	80°49'24.3589"W	4118.47	322.638	1.84	0.13	-1.84	
10802.00	89.850	341.140	6783.91	3997.83	3363.02	-2530.85	1690135.49	14373411.30	39°34'50.4598"N	80°49'24.7596"W	4208.93	323.037	1.24	0.53	1.13	
10897.00	90.150	340.350	6783.91	4092.83	3452.71	-2562.18	1690104.17	14373500.95	39°34'51.3468"N	80°49'25.1574"W	4299.53	323.422	0.89	0.32	-0.83	
10991.00	89.420	337.760	6784.26	4186.75	3540.49	-2595.78	1690070.59	14373588.70	39°34'52.2150"N	80°49'25.5843"W	4390.12	323.752	2.86	-0.78	-2.76	
11086.00	89.350	339.570	6785.28	4281.64	3628.97	-2630.34	1690036.04	14373677.14	39°34'53.0902"N	80°49'26.0235"W	4481.97	324.065	1.91	-0.07	1.91	
11180.00	89.450	343.260	6786.26	4375.62	3718.05	-2660.29	1690006.10	14373766.18	39°34'53.9711"N	80°49'26.4038"W	4571.76	324.416	3.93	0.11	3.93	
11275.00	90.340	344.550	6786.44	4470.52	3809.32	-2686.62	1689979.78	14373857.42	39°34'54.8737"N	80°49'26.7379"W	4661.42	324.806	1.65	0.94	1.36	
11369.00	89.510	343.940	6786.56	4564.39	3899.79	-2712.15	1689954.26	14373947.85	39°34'55.7683"N	80°49'27.0616"W	4750.17	325.183	1.10	-0.88	-0.65	
11463.00	90.060	343.790	6786.91	4658.29	3990.08	-2738.27	1689928.15	14374038.11	39°34'56.6612"N	80°49'27.3930"W	4839.31	325.539	0.81	0.59	-0.16	
11558.00	89.970	344.070	6786.89	4753.19	4081.37	-2764.57	1689901.87	14374129.36	39°34'57.5639"N	80°49'27.7266"W	4929.55	325.888	0.31	-0.09	0.29	
11652.00	90.000	342.400	6786.91	4847.13	4171.37	-2791.68	1689874.76	14374219.33	39°34'58.4540"N	80°49'28.0706"W	5019.35	326.208	1.78	0.03	-1.78	
11746.00	90.770	344.030	6786.28	4941.07	4261.36	-2818.82	1689847.63	14374309.28	39°34'59.3439"N	80°49'28.4150"W	5109.30	326.516	1.92	0.82	1.73	
11841.00	89.940	343.310	6785.69	5035.98	4352.53	-2845.53	1689820.93	14374400.41	39°35'0.2454"N	80°49'28.7539"W	5200.15	326.825	1.16	-0.87	-0.76	
11935.00	90.060	343.790	6785.69	5129.90	4442.68	-2872.15	1689794.32	14374490.53	39°35'1.1369"N	80°49'29.0916"W	5290.24	327.118	0.53	0.13	0.51	
12030.00	89.600	342.940	6785.98	5224.84	4533.70	-2899.35	1689767.14	14374581.51	39°35'2.0370"N	80°49'29.4367"W	5381.51	327.401	1.02	-0.48	-0.89	
12124.00	89.880	343.490	6786.40	5318.78	4623.69	-2926.49	1689740.00	14374671.47	39°35'2.9269"N	80°49'29.7812"W	5472.01	327.669	0.66	0.30	0.59	
12219.00	89.910	344.090	6786.58	5413.69	4714.92	-2953.01	1689713.49	14374762.66	39°35'3.8290"N	80°49'30.1176"W	5563.34	327.941	0.63	0.03	0.63	
12313.00	89.820	343.120	6786.80	5507.61	4805.09	-2979.54	1689686.97	14374852.80	39°35'4.7208"N	80°49'30.4543"W	5653.90	328.198	1.04	-0.10	-1.03	
12408.00	89.780	343.820	6787.13	5602.54	4896.17	-3006.57	1689659.96	14374943.83	39°35'5.6214"N	80°49'30.7972"W	5745.60	328.447	0.74	-0.04	0.74	
12502.00	90.180	343.570	6787.16	5696.45	4986.39	-3032.96	1689633.58	14375034.02	39°35'6.5135"N	80°49'31.1320"W	5836.34	328.690	0.50	0.43	-0.27	
12596.00	90.280	342.260	6786.78	5790.41	5076.23	-3060.58	1689605.97	14375123.83	39°35'7.4021"N	80°49'31.4825"W	5927.50	328.913	1.40	0.11	-1.39	
12691.00	90.220	341.200	6786.37	5885.40	5166.44	-3090.36	1689576.20	14375214.00	39°35'8.2942"N	80°49'31.8607"W	6020.17	329.114	1.12	-0.06	-1.12	
12785.00	89.690	342.270	6786.44	5979.40	5255.71	-3119.82	1689546.75	14375303.23	39°35'9.1770"N	80°49'32.2347"W	6111.93	329.306	1.27	-0.56	1.14	
12880.00	90.310	342.660	6786.44	6074.38	5346.29	-3148.44	1689518.14	14375393.78	39°35'10.0728"N	80°49'32.5981"W	6204.48	329.506	0.77	0.65	0.41	
12974.00	89.750	341.810	6786.39	6168.36	5435.81	-3177.12	1689489.47	14375483.26	39°35'10.9580"N	80°49'32.9622"W	6296.20	329.695	1.08	-0.60	-0.90	
13068.00	89.850	341.360	6786.72	6262.36	5524.99	-3206.82	1689459.79	14375572.41	39°35'11.8400"N	80°49'33.3392"W	6388.21	329.868	0.49	0.11	-0.48	
13162.00	89.720	340.400	6787.08	6356.36	5613.81	-3237.61	1689429.01	14375661.19	39°35'12.7184"N	80°49'33.7303"W	6480.50	330.027	1.03	-0.14	-1.02	
13257.00	89.880	340.920	6787.41	6451.35	5703.44	-3269.07	1689397.57	14375750.79	39°35'13.6049"N	80°49'34.1299"W	6573.89	330.180	0.57	0.17	0.55	
13351.00	89.850	340.590	6787.63	6545.35	5792.19	-3300.05	1689366.60	14375839.50	39°35'14.4826"N	80°49'34.5235"W	6666.32	330.328	0.35	-0.03	-0.35	

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Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Girardi Unit 2H
Field	Wetzel		API	47-103-03635-0000
Facility	Fluharty Pad		Wellbore	Girardi Unit 2H AWB
Slot	Slot B			

WELLPATH DATA (256 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
13446.00	89.940	341.920	6787.80	6640.34	5882.15	-3330.58	1689336.08	14375929.42	39°35'15.3723"N	80°49'34.9112"W	6759.62	330.481	1.40	0.09	1.40	
13541.00	89.540	339.770	6788.23	6735.33	5971.88	-3361.75	1689304.92	14376019.12	39°35'16.2597"N	80°49'35.3071"W	6853.08	330.624	2.30	-0.42	-2.26	
13635.00	90.120	341.710	6788.51	6829.33	6060.62	-3392.75	1689273.93	14376107.82	39°35'17.1373"N	80°49'35.7009"W	6945.64	330.760	2.15	0.62	2.06	
13730.00	89.750	340.910	6788.62	6924.32	6150.61	-3423.20	1689243.50	14376197.77	39°35'18.0272"N	80°49'36.0875"W	7039.05	330.901	0.93	-0.39	-0.84	
13825.00	89.780	339.880	6789.01	7019.31	6240.10	-3455.07	1689211.64	14376287.23	39°35'18.9123"N	80°49'36.4925"W	7132.78	331.027	1.08	0.03	-1.08	
13919.00	89.690	341.370	6789.44	7113.30	6328.77	-3486.25	1689180.47	14376375.87	39°35'19.7893"N	80°49'36.8886"W	7225.46	331.151	1.59	-0.10	1.59	
14014.00	89.820	339.840	6789.85	7208.29	6418.38	-3517.80	1689148.93	14376465.44	39°35'20.6755"N	80°49'37.2893"W	7319.19	331.274	1.62	0.14	-1.61	
14108.00	89.850	340.810	6790.12	7302.28	6506.89	-3549.45	1689117.30	14376553.91	39°35'21.5508"N	80°49'37.6914"W	7412.03	331.388	1.03	0.03	1.03	
14203.00	90.000	341.210	6790.25	7397.28	6596.72	-3580.36	1689086.40	14376643.71	39°35'22.4392"N	80°49'38.0841"W	7505.71	331.509	0.45	0.16	0.42	
14297.00	89.600	340.590	6790.57	7491.27	6685.54	-3611.12	1689055.65	14376732.49	39°35'23.3177"N	80°49'38.4748"W	7598.46	331.625	0.78	-0.43	-0.66	
14392.00	89.880	340.190	6791.01	7586.26	6775.03	-3643.00	1689023.78	14376821.95	39°35'24.2027"N	80°49'38.8798"W	7692.37	331.733	0.51	0.29	-0.42	
14486.00	89.850	341.370	6791.23	7680.26	6863.79	-3673.95	1688992.85	14376910.67	39°35'25.0805"N	80°49'39.2729"W	7785.21	331.841	1.26	-0.03	1.26	
14580.00	89.880	341.320	6791.45	7774.26	6952.85	-3704.01	1688962.79	14376999.70	39°35'25.9613"N	80°49'39.6548"W	7877.93	331.954	0.06	0.03	-0.05	
14675.00	89.910	340.850	6791.62	7869.26	7042.72	-3734.81	1688932.01	14377089.53	39°35'26.8501"N	80°49'40.0459"W	7971.74	332.063	0.50	0.03	-0.49	
14770.00	90.120	342.380	6791.60	7964.25	7132.87	-3764.77	1688902.06	14377179.64	39°35'27.7416"N	80°49'40.4264"W	8065.44	332.175	1.63	0.22	1.61	
14864.00	89.660	340.900	6791.78	8058.25	7222.08	-3794.38	1688872.46	14377268.82	39°35'28.6238"N	80°49'40.8025"W	8158.17	332.283	1.65	-0.49	-1.57	
14958.00	89.880	340.720	6792.16	8152.24	7310.86	-3825.28	1688841.58	14377357.56	39°35'29.5018"N	80°49'41.1950"W	8251.14	332.380	0.30	0.23	-0.19	
15052.00	89.910	340.770	6792.33	8246.24	7399.60	-3856.28	1688810.59	14377446.27	39°35'30.3795"N	80°49'41.5888"W	8344.15	332.474	0.06	0.03	0.05	
15147.00	89.820	341.200	6792.55	8341.24	7489.41	-3887.23	1688779.65	14377536.04	39°35'31.2677"N	80°49'41.9819"W	8438.12	332.569	0.46	-0.09	0.45	
15241.00	90.030	341.540	6792.67	8435.24	7578.49	-3917.26	1688749.64	14377625.08	39°35'32.1486"N	80°49'42.3633"W	8531.02	332.666	0.43	0.22	0.36	
15335.00	89.690	340.930	6792.90	8529.23	7667.49	-3947.49	1688719.41	14377714.05	39°35'33.0288"N	80°49'42.7474"W	8623.98	332.759	0.74	-0.36	-0.65	
15429.00	89.720	340.760	6793.39	8623.23	7756.28	-3978.34	1688688.58	14377802.81	39°35'33.9070"N	80°49'43.1392"W	8717.06	332.846	0.18	0.03	-0.18	
15524.00	89.750	341.190	6793.83	8718.23	7846.09	-4009.31	1688657.62	14377892.58	39°35'34.7951"N	80°49'43.5326"W	8811.11	332.933	0.45	0.03	0.45	
15618.00	89.660	340.350	6794.31	8812.22	7934.85	-4040.27	1688626.68	14377981.30	39°35'35.6729"N	80°49'43.9259"W	8904.24	333.016	0.90	-0.10	-0.89	
15712.00	89.750	340.970	6794.80	8906.22	8023.54	-4071.39	1688595.56	14378069.96	39°35'36.5501"N	80°49'44.3214"W	8997.41	333.095	0.67	0.10	0.66	
15807.00	89.910	340.940	6795.08	9001.21	8113.34	-4102.39	1688564.57	14378159.72	39°35'37.4381"N	80°49'44.7152"W	9091.53	333.177	0.17	0.17	-0.03	
15901.00	89.630	340.970	6795.45	9095.21	8202.19	-4133.07	1688533.91	14378248.54	39°35'38.3169"N	80°49'45.1049"W	9184.67	333.257	0.30	-0.30	0.03	
15996.00	89.780	341.050	6795.94	9190.21	8292.02	-4163.98	1688503.01	14378338.33	39°35'39.2053"N	80°49'45.4976"W	9278.81	333.336	0.18	0.16	0.08	
16091.00	89.880	341.350	6796.23	9285.21	8381.95	-4194.60	1688472.41	14378428.23	39°35'40.0946"N	80°49'45.8865"W	9372.93	333.415	0.33	0.11	0.32	
16185.00	90.060	341.900	6796.27	9379.21	8471.16	-4224.23	1688442.79	14378517.40	39°35'40.9768"N	80°49'46.2628"W	9465.97	333.496	0.62	0.19	0.59	

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Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Girardi Unit 2H
Field	Wetzel	API	47-103-03635-0000
Facility	Fluharty Pad	Wellbore	Girardi Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (256 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
16279.00	89.880	341.560	6796.32	9473.20	8560.42	-4253.70	1688413.33	14378606.63	39°35'41.8596"N	80°49'46.6371"W	9559.01	333.577	0.41	-0.19	-0.36	
16374.00	89.690	340.960	6796.68	9568.20	8650.38	-4284.22	1688382.82	14378696.55	39°35'42.7493"N	80°49'47.0248"W	9653.17	333.652	0.66	-0.20	-0.63	
16468.00	89.570	340.940	6797.29	9662.20	8739.23	-4314.90	1688352.15	14378785.37	39°35'43.6280"N	80°49'47.4146"W	9746.41	333.723	0.13	-0.13	-0.02	
16563.00	89.600	342.010	6797.98	9757.19	8829.31	-4345.08	1688321.98	14378875.41	39°35'44.5187"N	80°49'47.7980"W	9840.55	333.797	1.13	0.03	1.13	
16657.00	89.880	341.690	6798.40	9851.19	8918.63	-4374.36	1688292.72	14378964.69	39°35'45.4021"N	80°49'48.1698"W	9933.63	333.873	0.45	0.30	-0.34	
16751.00	89.630	341.650	6798.80	9945.19	9007.86	-4403.92	1688263.17	14379053.89	39°35'46.2845"N	80°49'48.5453"W	10026.77	333.946	0.27	-0.27	-0.04	
16846.00	89.570	341.520	6799.47	10040.18	9097.99	-4433.93	1688233.17	14379143.98	39°35'47.1759"N	80°49'48.9265"W	10120.93	334.018	0.15	-0.06	-0.14	
16940.00	89.940	342.600	6799.87	10134.17	9187.42	-4462.88	1688204.23	14379233.38	39°35'48.0602"N	80°49'49.2942"W	10214.01	334.091	1.21	0.39	1.15	
17035.00	89.850	341.870	6800.04	10229.16	9277.89	-4491.87	1688175.25	14379323.81	39°35'48.9549"N	80°49'49.6623"W	10308.06	334.166	0.77	-0.09	-0.77	
17129.00	89.820	341.680	6800.31	10323.15	9367.17	-4521.27	1688145.87	14379413.06	39°35'49.8379"N	80°49'50.0357"W	10401.24	334.235	0.20	-0.03	-0.20	
17224.00	89.820	340.830	6800.61	10418.15	9457.13	-4551.80	1688115.35	14379502.98	39°35'50.7275"N	80°49'50.4235"W	10495.53	334.298	0.89	0.00	-0.89	
17318.00	89.850	341.200	6800.88	10512.15	9546.02	-4582.38	1688084.78	14379591.83	39°35'51.6066"N	80°49'50.8120"W	10588.89	334.358	0.39	0.03	0.39	
17412.00	89.940	341.460	6801.06	10606.15	9635.07	-4612.47	1688054.70	14379680.85	39°35'52.4872"N	80°49'51.1943"W	10682.20	334.419	0.29	0.10	0.28	
17507.00	90.060	342.120	6801.06	10701.14	9725.31	-4642.15	1688025.03	14379771.06	39°35'53.3797"N	80°49'51.5714"W	10776.43	334.484	0.71	0.13	0.69	
17602.00	90.060	341.620	6800.96	10796.14	9815.60	-4671.72	1687995.48	14379861.30	39°35'54.2725"N	80°49'51.9468"W	10870.64	334.548	0.53	0.00	-0.53	
17696.00	90.060	341.450	6800.86	10890.14	9904.76	-4701.49	1687965.72	14379950.43	39°35'55.1542"N	80°49'52.3250"W	10963.95	334.608	0.18	0.00	-0.18	
17790.00	89.820	341.010	6800.96	10984.14	9993.76	-4731.73	1687935.48	14380039.39	39°35'56.0344"N	80°49'52.7093"W	11057.33	334.664	0.53	-0.26	-0.47	
17884.00	90.250	341.080	6800.90	11078.14	10082.66	-4762.27	1687904.96	14380128.26	39°35'56.9136"N	80°49'53.0972"W	11150.75	334.718	0.46	0.46	0.07	
17979.00	90.000	341.180	6800.69	11173.13	10172.56	-4792.99	1687874.25	14380218.12	39°35'57.8026"N	80°49'53.4876"W	11245.16	334.772	0.28	-0.26	0.11	
18074.00	90.000	341.840	6800.69	11268.13	10262.65	-4823.12	1687844.13	14380308.18	39°35'58.6936"N	80°49'53.8703"W	11339.51	334.828	0.69	0.00	0.69	
18169.00	89.940	341.020	6800.74	11363.13	10352.70	-4853.37	1687813.89	14380398.19	39°35'59.5842"N	80°49'54.2546"W	11433.88	334.883	0.87	-0.06	-0.86	
18263.00	90.740	341.690	6800.18	11457.13	10441.77	-4883.43	1687783.85	14380487.22	39°36'0.4650"N	80°49'54.6364"W	11527.29	334.935	1.11	0.85	0.71	
18357.00	90.460	340.910	6799.20	11551.12	10530.80	-4913.56	1687753.73	14380576.22	39°36'1.3455"N	80°49'55.0193"W	11620.71	334.987	0.88	-0.30	-0.83	
18452.00	90.400	341.530	6798.49	11646.12	10620.74	-4944.14	1687723.16	14380666.12	39°36'2.2349"N	80°49'55.4078"W	11715.15	335.037	0.66	-0.06	0.65	
18546.00	90.550	340.500	6797.71	11740.11	10709.62	-4974.72	1687692.59	14380754.97	39°36'3.1139"N	80°49'55.7964"W	11808.64	335.085	1.11	0.16	-1.10	
18640.00	90.580	340.370	6796.78	11834.10	10798.19	-5006.20	1687661.13	14380843.50	39°36'3.9898"N	80°49'56.1964"W	11902.22	335.127	0.14	0.03	-0.14	
18734.00	90.280	340.310	6796.07	11928.09	10886.71	-5037.82	1687629.52	14380931.99	39°36'4.8652"N	80°49'56.5983"W	11995.84	335.168	0.33	-0.32	-0.06	
18828.00	90.400	339.380	6795.52	12022.05	10974.95	-5070.21	1687597.14	14381020.19	39°36'5.7379"N	80°49'57.0099"W	12089.52	335.204	1.00	0.13	-0.99	
18923.00	90.520	340.050	6794.75	12117.02	11064.05	-5103.15	1687564.22	14381109.26	39°36'6.6192"N	80°49'57.4286"W	12184.23	335.239	0.72	0.13	0.71	
19017.00	90.490	340.220	6793.93	12210.99	11152.46	-5135.09	1687532.29	14381197.63	39°36'7.4935"N	80°49'57.8345"W	12277.88	335.277	0.18	-0.03	0.18	

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Girardi Unit 2H
Field	Wetzel		API	47-103-03635-0000
Facility	Fluharty Pad		Wellbore	Girardi Unit 2H AWB
Slot	Slot B			

WELLPATH DATA (256 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
19112.00	90.680	340.910	6792.96	12305.98	11242.04	-5166.70	1687500.70	14381287.17	39°36'8.3794"N	80°49'58.2362"W	12372.48	335.317	0.75	0.20	0.73	
19206.00	90.340	339.940	6792.12	12399.97	11330.60	-5198.19	1687469.22	14381375.70	39°36'9.2553"N	80°49'58.6364"W	12466.10	335.356	1.09	-0.36	-1.03	
19395.00	90.580	340.300	6790.60	12588.92	11508.33	-5262.45	1687404.97	14381553.36	39°36'11.0130"N	80°49'59.4533"W	12654.45	335.427	0.23	0.13	0.19	
19490.00	90.520	340.470	6789.69	12683.91	11597.81	-5294.34	1687373.10	14381642.81	39°36'11.8980"N	80°49'59.8585"W	12749.09	335.464	0.19	-0.06	0.18	
19584.00	90.400	339.230	6788.93	12777.87	11686.06	-5326.72	1687340.73	14381731.02	39°36'12.7707"N	80°50'0.2701"W	12842.82	335.496	1.33	-0.13	-1.32	
19679.00	90.400	340.340	6788.27	12872.84	11775.20	-5359.55	1687307.92	14381820.12	39°36'13.6523"N	80°50'0.6874"W	12937.55	335.527	1.17	0.00	1.17	
19773.00	90.460	340.380	6787.57	12966.82	11863.73	-5391.14	1687276.34	14381908.62	39°36'14.5278"N	80°50'1.0889"W	13031.21	335.562	0.08	0.06	0.04	
19868.00	90.370	339.850	6786.88	13061.80	11953.06	-5423.45	1687244.04	14381997.92	39°36'15.4113"N	80°50'1.4996"W	13125.91	335.595	0.57	-0.09	-0.56	
19962.00	90.250	339.260	6786.37	13155.76	12041.14	-5456.29	1687211.22	14382085.96	39°36'16.2824"N	80°50'1.9170"W	13219.69	335.623	0.64	-0.13	-0.63	
20057.00	90.550	340.150	6785.71	13250.72	12130.24	-5489.24	1687178.28	14382175.02	39°36'17.1636"N	80°50'2.3359"W	13314.45	335.652	0.99	0.32	0.94	
20151.00	90.430	339.810	6784.90	13344.69	12218.56	-5521.42	1687146.11	14382263.30	39°36'18.0370"N	80°50'2.7449"W	13408.18	335.682	0.38	-0.13	-0.36	
20246.00	90.550	339.790	6784.09	13439.66	12307.71	-5554.22	1687113.33	14382352.42	39°36'18.9187"N	80°50'3.1619"W	13502.93	335.711	0.13	0.13	-0.02	
20340.00	90.620	340.480	6783.13	13533.64	12396.11	-5586.16	1687081.40	14382440.79	39°36'19.7930"N	80°50'3.5679"W	13596.64	335.742	0.74	0.07	0.73	
20435.00	90.620	340.490	6782.10	13628.62	12485.65	-5617.89	1687049.68	14382530.29	39°36'20.6785"N	80°50'3.9712"W	13691.32	335.775	0.01	0.00	0.01	
20529.00	90.650	341.000	6781.06	13722.61	12574.38	-5648.89	1687018.69	14382618.99	39°36'21.5560"N	80°50'4.3651"W	13784.96	335.809	0.54	0.03	0.54	
20624.00	90.710	341.150	6779.93	13817.60	12664.24	-5679.70	1686987.90	14382708.81	39°36'22.4447"N	80°50'4.7566"W	13879.55	335.845	0.17	0.06	0.16	
20718.00	90.740	340.820	6778.74	13911.60	12753.11	-5710.32	1686957.28	14382797.64	39°36'23.3235"N	80°50'5.1458"W	13973.17	335.879	0.35	0.03	-0.35	
20813.00	90.430	340.630	6777.77	14006.59	12842.78	-5741.68	1686925.94	14382887.27	39°36'24.2103"N	80°50'5.5443"W	14067.83	335.912	0.38	-0.33	-0.20	
20907.00	90.460	340.600	6777.04	14100.58	12931.44	-5772.88	1686894.75	14382975.91	39°36'25.0872"N	80°50'5.9409"W	14161.51	335.943	0.05	0.03	-0.03	
21001.00	90.490	340.280	6776.26	14194.56	13020.02	-5804.35	1686863.30	14383064.44	39°36'25.9631"N	80°50'6.3409"W	14255.22	335.973	0.34	0.03	-0.34	
21096.00	90.860	341.180	6775.14	14289.55	13109.69	-5835.70	1686831.96	14383154.08	39°36'26.8499"N	80°50'6.7393"W	14349.89	336.004	1.02	0.39	0.95	
21190.00	90.550	340.620	6773.99	14383.54	13198.50	-5866.46	1686801.21	14383242.86	39°36'27.7283"N	80°50'7.1302"W	14443.54	336.036	0.68	-0.33	-0.60	
21285.00	90.620	340.740	6773.02	14478.53	13288.15	-5897.88	1686769.80	14383332.47	39°36'28.6148"N	80°50'7.5296"W	14538.22	336.066	0.15	0.07	0.13	
21379.00	90.620	341.470	6772.00	14572.53	13377.08	-5928.32	1686739.37	14383421.36	39°36'29.4943"N	80°50'7.9164"W	14631.86	336.099	0.78	0.00	0.78	
21474.00	90.680	341.410	6770.92	14667.52	13467.13	-5958.56	1686709.15	14383511.38	39°36'30.3848"N	80°50'8.3006"W	14726.44	336.133	0.09	0.06	-0.06	
21568.00	90.490	340.970	6769.96	14761.51	13556.11	-5988.87	1686678.85	14383600.32	39°36'31.2647"N	80°50'8.6858"W	14820.07	336.165	0.51	-0.20	-0.47	
21662.00	90.650	341.130	6769.03	14855.51	13645.01	-6019.39	1686648.34	14383689.19	39°36'32.1439"N	80°50'9.0737"W	14913.73	336.196	0.24	0.17	0.17	
21757.00	90.920	341.270	6767.73	14950.50	13734.93	-6050.00	1686617.74	14383779.07	39°36'33.0332"N	80°50'9.4627"W	15008.36	336.227	0.32	0.28	0.15	
21851.00	90.740	341.070	6766.37	15044.49	13823.89	-6080.34	1686587.42	14383868.00	39°36'33.9129"N	80°50'9.8483"W	15102.00	336.258	0.29	-0.19	-0.21	
22040.00	90.800	341.170	6763.83	15233.47	14002.71	-6141.49	1686526.29	14384046.74	39°36'35.6813"N	80°50'10.6254"W	15290.31	336.318	0.06	0.03	0.05	

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Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Girardi Unit 2H
Field	Wetzel	API	47-103-03635-0000
Facility	Fluharty Pad	Wellbore	Girardi Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (256 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
22134.00	90.770	341.390	6762.54	15327.46	14091.73	-6171.66	1686496.13	14384135.72	39°36'36.5616"N	80°50'11.0088"W	15383.95	336.348	0.24	-0.03	0.23	
22229.00	90.680	341.350	6761.34	15422.46	14181.74	-6202.00	1686465.80	14384225.70	39°36'37.4518"N	80°50'11.3944"W	15478.59	336.379	0.10	-0.09	-0.04	
22323.00	90.920	341.790	6760.02	15516.45	14270.91	-6231.72	1686436.10	14384314.84	39°36'38.3336"N	80°50'11.7720"W	15572.19	336.410	0.53	0.26	0.47	
22418.00	90.680	340.570	6758.70	15611.43	14360.82	-6262.36	1686405.47	14384404.71	39°36'39.2228"N	80°50'12.1615"W	15666.85	336.439	1.31	-0.25	-1.28	
22512.00	90.740	341.060	6757.53	15705.42	14449.59	-6293.25	1686374.59	14384493.45	39°36'40.1007"N	80°50'12.5541"W	15760.57	336.465	0.53	0.06	0.52	
22606.00	90.770	341.080	6756.29	15799.41	14538.50	-6323.74	1686344.11	14384582.32	39°36'40.9799"N	80°50'12.9416"W	15854.26	336.493	0.04	0.03	0.02	
22700.00	90.710	341.870	6755.08	15893.41	14627.62	-6353.60	1686314.26	14384671.41	39°36'41.8613"N	80°50'13.3211"W	15947.90	336.522	0.84	-0.06	0.84	
22795.00	90.580	340.610	6754.01	15988.40	14717.57	-6384.15	1686283.72	14384761.32	39°36'42.7507"N	80°50'13.7093"W	16042.58	336.550	1.33	-0.14	-1.33	
22984.00	90.710	341.020	6751.88	16177.38	14896.06	-6446.26	1686221.64	14384939.74	39°36'44.5159"N	80°50'14.4988"W	16231.05	336.599	0.23	0.07	0.22	
23079.00	90.710	341.160	6750.70	16272.37	14985.93	-6477.04	1686190.87	14385029.57	39°36'45.4046"N	80°50'14.8900"W	16325.75	336.626	0.15	0.00	0.15	
23173.00	90.650	341.380	6749.59	16366.37	15074.94	-6507.23	1686160.70	14385118.55	39°36'46.2849"N	80°50'15.2736"W	16419.43	336.652	0.24	-0.06	0.23	
23267.00	90.890	341.470	6748.33	16460.36	15164.04	-6537.17	1686130.77	14385207.61	39°36'47.1660"N	80°50'15.6541"W	16513.10	336.679	0.27	0.26	0.10	
23362.00	90.920	341.540	6746.83	16555.34	15254.12	-6567.30	1686100.65	14385297.65	39°36'48.0568"N	80°50'16.0371"W	16607.76	336.707	0.28	0.03	0.07	
23456.00	90.830	341.910	6745.39	16649.33	15343.37	-6596.77	1686071.19	14385386.87	39°36'48.9394"N	80°50'16.4116"W	16701.39	336.735	0.41	-0.10	0.39	
23509.00	90.890	341.630	6744.59	16702.32	15393.70	-6613.35	1686054.62	14385437.18	39°36'49.4372"N	80°50'16.6223"W	16754.18	336.751	0.54	0.11	-0.53	
23534.00‡	90.890	341.630	6744.21	16727.32	15417.42	-6621.23	1686046.74	14385460.89	39°36'49.6718"N	80°50'16.7224"W	16779.08	336.758	0.00	0.00	0.00	Projected MD at TD: 23534'



Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Girardi Unit 2H
Field	Wetzel	API	47-103-03635-0000
Facility	Fluharty Pad	Wellbore	Girardi Unit 2H AWB
Slot	Slot B		

HOLE & CASING SECTIONS - Ref Wellbore: Girardi Unit 2H AWB Ref Wellpath: Girardi Unit 2H AWP Proj: 23534'									
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	0.15	-0.01
17.5in Open Hole	125.50	406.00	280.50	125.50	406.00	0.15	-0.01	-0.72	0.53
13.375in Casing Surface	25.50	386.00	360.50	25.50	386.00	0.00	0.00	-0.56	0.56
12.375in Open Hole	406.00	3132.00	2726.00	406.00	3075.09	-0.72	0.53	-255.29	-456.16
9.625in Casing Intermediate	25.50	3101.00	3075.50	25.50	3044.51	0.00	0.00	-252.63	-451.81
8.75in Open Hole	3132.00	6580.00	3448.00	3075.09	6432.70	-255.29	-456.16	-482.71	-1151.55
8.5in Open Hole	6580.00	23534.00	16954.00	6432.70	6744.21	-482.71	-1151.55	15417.42	-6621.23
5.5in Casing Production	25.50	23514.00	23488.50	25.50	6744.52	0.00	0.00	15398.45	-6614.93



Actual Wellpath Report

Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Girardi Unit 2H
Field	Wetzel	API	47-103-03635-0000
Facility	Fluharty Pad	Wellbore	Girardi Unit 2H AWB
Slot	Slot B		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Girardi Unit 2H POE Rev-3	6741.00	-151.91	-1319.53	1691346.33	14369897.77	39°34'15.6972"N	80°49'9.3794"W	point
Girardi Unit 2H BHL Rev-3	6767.00	15470.57	-6618.59	1686049.38	14385514.02	39°36'50.1970"N	80°50'16.6875"W	point
Girardi Unit 2H BHL Rev-4	6767.00	15414.83	-6599.68	1686068.28	14385458.30	39°36'49.6458"N	80°50'16.4472"W	point
Girardi Unit 2H LP Rev-3	6767.00	18.63	-1377.37	1691288.51	14370068.24	39°34'17.3838"N	80°49'10.1136"W	point
Girardi Unit 2H 50' L/R Hard Line R-2	7000.00	7631.46	-3959.60	1688707.30	14377678.04	39°35'32.6730"N	80°49'42.9030"W	rectangle
2D Rectangle 16437.9 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Girardi Unit 2H AWB Ref Wellpath: Girardi Unit 2H AWP Proj: 23534'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	375.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-375')	Girardi Unit 2H AWB	3/11/2024
375.00	3058.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (375')(500'-3058')	Girardi Unit 2H AWB	3/11/2024
3058.00	6510.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3058')(3109'-6510')	Girardi Unit 2H AWB	3/22/2024
6510.00	23534.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6510')(6549'-23509')	Girardi Unit 2H AWB	3/22/2024

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Girardi Unit 2H AWP Proj: 23534'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Girardi Unit 2H
Field	Wetzel	API	47-103-03635-0000
Facility	Fluharty Pad	Wellbore	Girardi Unit 2H AWB
Slot	Slot B		

COMMENTS
<p>Wellpath general comments API: 47-103-03635-0000 BH Job #: 112156755 Rig: H&P 317 Duration: 3/24/2024-3/28/2024 Gyrodata MS Gyro <17-1/2"> (100'-375') APS EM <12-3/8"> (375')(500'-3058') APS EM <8-3/4"> (3058')(3109'-6510') BH AT Curve <8-1/2"> (6510')(6549'-23509') Sycamore: 6612' MD Middlesex: 6745' MD Burkett: 6880' MD Tully: 6917' MD Marcellus POE: 7092' MD Projected MD at TD: 23534'</p>

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