

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-103-03635 County Wetzel District Green  
Quad Porter Falls 7.5' Pad Name Fluharty Field/Pool Name -----  
Farm name Antero Resources Corporation Well Number Girardi Unit 2H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4380218m Easting 515940m  
Landing Point of Curve Northing 4380229m Easting 515509m  
Bottom Hole Northing 4384915m Easting 513923m

Elevation (ft) 1181' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
Air - Foam & 4% KCL  
Mud - Polymer

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Date permit issued 1/2/2024 Date drilling commenced 1/26/2024 Date drilling ceased 3/31/2024  
Date completion activities began 6/15/2024 Date completion activities ceased 8/29/2024  
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 307' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 2289' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by: [Signature]  
02/28/2025

API 47- 103 - 03635 Farm name Antero Resources Corporation Well number Girardi Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	28"	20"	125.5'	New	94#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	406'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3132'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	23534'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6877'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	250 sx	15.6	1.18	295	0'	8 Hrs.
Surface	Class A	368 sx	15.6	1.19	438	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1142 sx	15.6	1.18	1348	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4028 sx (Tail)	13.5 (Spacer), 15.2(Tail)	1.26 (Tail)	5075	-500' Into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23534' MD, 6744' TVD (BHL), 6801' TVD (Deepest Point Drilled) Loggers TD (ft) 23503' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6300'

Check all wireline logs run  caliper  density  deviated/directional  induction  neutron  resistivity  gamma ray  temperature  temperature

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

Conductor - 0  
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface  
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface  
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A

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API 47- 103 - 03635 Farm name Antero Resources Corporation Well number Girardi Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
<b>*PLEASE SEE ATTACHED EXHIBIT 1</b>					

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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Amount of  
Nitrogen/other (units)

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
<b>*PLEASE SEE ATTACHED EXHIBIT 2</b>								

Please insert additional pages as applicable.

02/28/2025 

API 47- 103 - 03635 Farm name Antero Resources Corporation Well number Girardi Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6747' (TOP) TVD	7092' (TOP) MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole --- \_\_\_\_\_ psi DURATION OF TEST --- \_\_\_\_\_ hrs

OPEN FLOW Gas 14761.49 mcfpd Oil 760.64 bpd NGL --- bpd Water 1017.56 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
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**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

Drilling Contractor H & P Drilling  
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services  
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Schlumberger  
Address 5599 San Felipe St. Fl 17 City Houston State TX Zip 77056

Stimulating Company Halliburton  
Address 3000 N Sam Houston Pkwy E. City Houston State TX Zip 77032

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959  
Signature *S Gaspar* Title Permitting Agent Date 12/18/24

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

02/28/2025 *[Signature]*

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	6/15/2024	23406	23362	36	Marcellus
2	6/15/2024	23323.57407	23158.4444	36	Marcellus
3	6/16/2024	23123.01852	22957.8889	36	Marcellus
4	6/17/2024	22922.46296	22757.3333	36	Marcellus
5	6/18/2024	22721.90741	22556.7778	36	Marcellus
6	6/18/2024	22521.35185	22356.2222	36	Marcellus
7	6/19/2024	22320.7963	22155.6667	36	Marcellus
8	6/20/2024	22120.24074	21955.1111	36	Marcellus
9	6/21/2024	21919.68519	21754.5556	36	Marcellus
10	6/21/2024	21719.12963	21554	36	Marcellus
11	6/22/2024	21518.57407	21353.4444	36	Marcellus
12	6/23/2024	21318.01852	21152.8889	36	Marcellus
13	6/24/2024	21117.46296	20952.3333	36	Marcellus
14	6/24/2024	20916.90741	20751.7778	36	Marcellus
15	6/25/2024	20716.35185	20551.2222	36	Marcellus
16	6/26/2024	20515.7963	20350.6667	36	Marcellus
17	6/27/2024	20315.24074	20150.1111	36	Marcellus
18	6/28/2024	20114.68519	19949.5556	36	Marcellus
19	6/28/2024	19914.12963	19749	36	Marcellus
20	6/29/2024	19713.57407	19548.4444	36	Marcellus
21	6/30/2024	19513.01852	19347.8889	36	Marcellus
22	7/1/2024	19312.46296	19147.3333	36	Marcellus
23	7/2/2024	19111.90741	18946.7778	36	Marcellus
24	7/2/2024	18911.35185	18746.2222	36	Marcellus
25	7/3/2024	18710.7963	18545.6667	36	Marcellus
26	7/4/2024	18510.24074	18345.1111	36	Marcellus
27	7/5/2024	18309.68519	18144.5556	36	Marcellus
28	7/5/2024	18109.12963	17944	36	Marcellus
29	7/6/2024	17908.57407	17743.4444	36	Marcellus
30	7/7/2024	17708.01852	17542.8889	36	Marcellus
31	7/8/2024	17507.46296	17342.3333	36	Marcellus
32	7/8/2024	17306.90741	17141.7778	36	Marcellus
33	7/9/2024	17106.35185	16941.2222	36	Marcellus
34	7/10/2024	16905.7963	16740.6667	36	Marcellus
35	7/11/2024	16705.24074	16540.1111	36	Marcellus
36	7/11/2024	16504.68519	16339.5556	36	Marcellus
37	7/12/2024	16304.12963	16139	36	Marcellus
38	7/13/2024	16103.57407	15938.4444	36	Marcellus
39	7/14/2024	15903.01852	15737.8889	36	Marcellus
40	7/14/2024	15702.46296	15537.3333	36	Marcellus
41	7/15/2024	15501.90741	15336.7778	36	Marcellus
42	7/15/2024	15301.35185	15136.2222	36	Marcellus
43	7/16/2024	15100.7963	14935.6667	36	Marcellus
44	7/16/2024	14900.24074	14735.1111	36	Marcellus
45	7/16/2024	14699.68519	14534.5556	36	Marcellus
46	7/17/2024	14499.12963	14334	36	Marcellus
47	7/18/2024	14298.57407	14133.4444	36	Marcellus
48	7/19/2024	14098.01852	13932.8889	36	Marcellus
49	7/19/2024	13897.46296	13732.3333	36	Marcellus
50	7/19/2024	13696.90741	13531.7778	36	Marcellus
51	7/20/2024	13496.35185	13331.2222	36	Marcellus
52	7/20/2024	13295.7963	13130.6667	36	Marcellus
53	7/20/2024	13095.24074	12930.1111	36	Marcellus
54	7/21/2024	12894.68519	12729.5556	36	Marcellus
55	7/21/2024	12694.12963	12529	36	Marcellus
56	7/21/2024	12493.57407	12328.4444	36	Marcellus
57	7/22/2024	12293.01852	12127.8889	36	Marcellus
58	7/22/2024	12092.46296	11927.3333	36	Marcellus
59	7/23/2024	11891.90741	11726.7778	36	Marcellus
60	7/23/2024	11691.35185	11526.2222	36	Marcellus
61	7/23/2024	11490.7963	11325.6667	36	Marcellus
62	7/24/2024	11290.24074	11125.1111	36	Marcellus
63	7/24/2024	11089.68519	10924.5556	36	Marcellus
64	7/24/2024	10889.12963	10724	36	Marcellus
65	7/25/2024	10688.57407	10523.4444	36	Marcellus
66	7/25/2024	10488.01852	10322.8889	36	Marcellus
67	7/26/2024	10287.46296	10122.3333	36	Marcellus
68	7/26/2024	10086.90741	9921.7778	36	Marcellus
69	7/26/2024	9886.351852	9721.2222	36	Marcellus
70	7/27/2024	9685.796296	9520.6667	36	Marcellus
71	7/27/2024	9485.240741	9320.1111	36	Marcellus
72	7/27/2024	9284.685185	9119.55556	36	Marcellus
73	7/28/2024	9084.12963	8919	36	Marcellus
74	7/28/2024	8883.574074	8718.44444	36	Marcellus
75	7/28/2024	8683.018519	8517.88889	36	Marcellus
76	7/29/2024	8482.462963	8317.33333	36	Marcellus
77	7/29/2024	8281.907407	8116.77778	36	Marcellus
78	7/29/2024	8081.351852	7916.22222	36	Marcellus
79	7/30/2024	7880.796296	7715.66667	36	Marcellus
80	7/30/2024	7680.240741	7515.11111	36	Marcellus
81	7/30/2024	7479.685185	7314.55556	36	Marcellus
82	7/31/2024	7279.12963	7114	36	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	6/15/2024	75.22456	9181.479	6593.22	3884.794	170500	5632.9762	N/A
2	6/15/2024	85.62972	9911.046	7061.56	4332.896	420180	8407.1667	N/A
3	6/16/2024	87.31482	9815.947	6568.13	4171	419080	7477.1667	N/A
4	6/17/2024	90.0307	10238.68	6451.47	4055.145	414200	7358.5238	N/A
5	6/18/2024	97.05214	10091.77	6876.07	4424.146	416220	7429.5238	N/A
6	6/18/2024	93.19957	9857.453	7186.97	5053	421240	7298.9048	N/A
7	6/19/2024	94.6094	10293.85	6957.84	4358	420640	7483.6667	N/A
8	6/20/2024	88.43066	9728.154	6765.3	4376.161	422140	7621.0476	N/A
9	6/21/2024	93.47014	9947.047	6425.41	4345	417046	7625.4048	N/A
10	6/21/2024	89.81079	9280.525	6910.13	4351.978	421660	7183.119	N/A
11	6/22/2024	91.219	9636.842	6796.38	4460	424880	7162.381	N/A
12	6/23/2024	95.14993	10025.59	6791.81	4449	412380	7329.5238	N/A
13	6/24/2024	82.05028	8691.387	7059.29	4210.371	420680	9087.881	N/A
14	6/24/2024	94.65381	9616.762	6724.31	4315.847	423280	7067.3333	N/A
15	6/25/2024	90.23309	9717.547	6764.38	4034.46	420960	7467.9286	N/A
16	6/26/2024	87.48385	8973.58	6388.56	4057.911	420980	7329.3095	N/A
17	6/27/2024	94.38918	9619.45	6889.7	4138.095	419440	7318.119	N/A
18	6/28/2024	92.70419	9934.094	6865.56	4329	415860	7174.5952	N/A
19	6/28/2024	93.25255	9278.547	6892.66	4563	420080	7396.0714	N/A
20	6/29/2024	94.97003	9839.425	6737.44	4401.307	419400	7332.2143	N/A
21	6/30/2024	94.44701	9168.284	6705.83	4549	421400	7310.9048	N/A
22	7/1/2024	95.11607	9271.825	6852.79	4208.39	420860	7271.9286	N/A
23	7/2/2024	93.93028	9455.605	6761.04	4311	426600	7871.5952	N/A
24	7/2/2024	95.22865	9533.933	7108.33	4182.585	424008	7274	N/A
25	7/3/2024	96.09695	9897.432	6780.54	4288.413	418400	7226.4524	N/A
26	7/4/2024	94.31942	9712.453	6677.23	4108.333	423880	7284.2381	N/A
27	7/5/2024	96.28208	9575.318	6745.44	4293.164	417400	7076.8571	N/A
28	7/5/2024	96.96852	9559.583	6819.26	4128.525	403800	6713.0238	N/A
29	7/6/2024	94.70255	9474.146	6932.92	4089.701	397220	6971.0238	N/A
30	7/7/2024	96.84869	9086.485	6948.55	3968.382	399910	7041.4048	N/A
31	7/8/2024	95.41186	9461.66	6588.56	3763.545	418720	7251.8095	N/A
32	7/8/2024	96.38618	9605.01	6939.85	3768.146	397770	6878	N/A
33	7/9/2024	96.9571	9512.574	6803.65	3900.515	400720	7111.7857	N/A
34	7/10/2024	96.44021	9088.056	6546.28	4021.679	421360	6707.0238	N/A
35	7/11/2024	95.51895	9196.412	6838.91	4123.484	418140	8262.9524	N/A
36	7/11/2024	96.59367	9094.145	6515.59	4207.465	418400	6956.8095	N/A
37	7/12/2024	95.57566	9057.913	6512.04	4556.451	417560	6519.3333	N/A
38	7/13/2024	92.68873	8856.237	7213.42	3844	399560	6767.5952	N/A
39	7/14/2024	97.90907	9404.159	6749.38	3958.449	421600	6864.9762	N/A
40	7/14/2024	92.03792	9089.735	7024.96	4052	417100	6741.5952	N/A
41	7/15/2024	94.25623	9134.091	6774.71	4058.388	423020	8561.5476	N/A
42	7/15/2024	95.94775	9025.829	6361.72	4143.263	416720	6775.9524	N/A
43	7/16/2024	98.24935	9021.472	6125.62	4072.49	421620	6600.9048	N/A
44	7/16/2024	96.33498	8998.187	6698.6	4180	415460	6701.5476	N/A
45	7/16/2024	97.65418	8932.521	6619.98	3718	415660	6722.4048	N/A
46	7/17/2024	97.92315	9422.503	6548.1	3838.822	422680	6870.3333	N/A
47	7/18/2024	97.30765	9075.846	6521.43	3897	416400	6478.5238	N/A
48	7/19/2024	97.46995	9098.114	6798.49	3964	422560	6687.3333	N/A
49	7/19/2024	98.56107	9052.818	7296.32	4563	419700	6719.8095	N/A
50	7/19/2024	97.22993	8862.014	7150.13	4073	424260	6651.119	N/A
51	7/20/2024	97.64684	8944.974	6964.5	3770.944	426400	6791.4048	N/A
52	7/20/2024	97.53459	8813.918	6943.62	3796.834	419800	6534.5238	N/A
53	7/20/2024	96.99822	8791.529	6809.87	3777.946	425700	6761.2857	N/A
54	7/21/2024	97.50394	8883.321	6893.5	3933	423720	6980.9048	N/A
55	7/21/2024	99.0874	8876.847	6897.58	4126	420820	6735.0714	N/A
56	7/21/2024	97.14062	8365.619	6561.73	4004	420140	6549.9524	N/A
57	7/22/2024	99.18091	8687.673	7050.75	3851.653	421440	6815.7381	N/A
58	7/22/2024	97.29802	8373.425	6601.56	3836.668	421100	7554.0238	N/A
59	7/23/2024	97.48128	9280.022	6719.42	4161	423860	6708.6667	N/A
60	7/23/2024	97.75367	8322.72	6553.48	3842	421860	6819.5	N/A
61	7/23/2024	95.87655	8765.636	7288.04	5035.944	417340	6758.9286	N/A
62	7/24/2024	97.8809	7913.297	6416.65	3891	418780	6530.119	N/A
63	7/24/2024	97.25281	7890.363	6185.96	3353	413940	6697.8095	N/A
64	7/24/2024	96.30993	7834.361	6694.15	3671.577	419360	7407.4762	N/A
65	7/25/2024	98.06132	8085.811	6689.07	3862	419400	6815.1905	N/A
66	7/25/2024	98.24479	8236.345	6763.76	3865	415080	6643.1429	N/A
67	7/26/2024	98.38031	7856.74	5272.23	3764.411	424540	6496.1905	N/A
68	7/26/2024	97.32117	7821.056	6162.83	3900	414380	6771.9286	N/A
69	7/26/2024	98.31165	7677.425	6806.39	3636.025	424680	6730.881	N/A
70	7/27/2024	98.58347	7847.552	6726.04	3724.408	423920	6824.9762	N/A
71	7/27/2024	97.56136	7740.776	6703.89	4159	418200	6747.5714	N/A
72	7/27/2024	92.94616	7688.66	6621.87	3735	426200	6720.0238	N/A
73	7/28/2024	90.23075	8518.761	7012.51	3671.087	415900	8196.9286	N/A
74	7/28/2024	97.65525	7955.291	7036.09	3908.985	415160	6703.1905	N/A
75	7/28/2024	98.06216	7500.396	6554.33	3892.537	420300	6773	N/A
76	7/29/2024	97.39874	7930.718	6831.2	3987.616	419700	6844.9048	N/A
77	7/29/2024	96.38731	7365.052	4796.31	4032.272	420440	6800.5	N/A
78	7/29/2024	97.00827	7636.373	7535.32	4089	419120	6896.5238	N/A
79	7/30/2024	97.07704	7263.953	7241.96	4220	413900	6658.3333	N/A
80	7/30/2024	96.54105	7180.396	6544.35	3604.604	415060	6746.6429	N/A
81	7/30/2024	97.11382	6991.568	6907.05	3733.289	424160	6446.5952	N/A
82	7/31/2024	98.76398	7377.008	6922.03	3922.226	417180	6909.4762	N/A
AVERAGE		95.1	8,888	6,736	4,072	34,064,914	577,427	0

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Environmental Protection

**EXHIBIT 3**

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandy Siltstone, tr Shale	104	204	104	204
Silty Shale	204	354	204	354
Shale, Occ Siltstone, rr Sandstone	354	504	354	504
Shaley Siltstone, occ Sandstone	404	604	404	604
Sandy Siltstone, occ Shale	504	604	504	604
Silty Sandstone	604	804	604	804
Sandstone, tr Siltstone	804	954	804	954
Silty Sandstone, rr Shale	954	1,154	954	1,154
Sandstone, tr Siltstone	1,154	1,354	1,154	1,354
Sandy Siltstone	1,354	1,554	1,354	1,554
Siltstone, rr Sandstone	1,554	1,654	1,554	1,654
Silty Sandstone	1,654	1,854	1,654	1,854
Sandstone, occ Shale	1,854	2,054	1,854	2,054
Sandy Siltstone, occ Shale, tr coal	2,054	2,104	2,054	2,104
Sandy Siltstone, tr Shale	2,104	2,066	2,104	2,097
Big Lime	2,092	2,836	2,097	2,889
Fifty Foot Sandstone	2,836	2,935	2,863	2,990
Gordon	2,935	3,193	2,964	3,252
Fifth Sandstone	3,193	3,427	3,226	3,491
Bayard	3,427	3,906	3,465	3,985
Speechley	3,906	4,150	3,959	4,236
Balltown	4,150	4,625	4,210	4,721
Bradford	4,625	5,096	4,695	5,206
Benson	5,096	5,472	5,180	5,590
Alexander	5,472	6,571	5,564	6,745
Sycamore	6,435	6,545	6,586	6,719
Middlesex	6,545	6,634	6,719	6,854
Burkett	6,634	6,654	6,854	6,891
Tully	6654	6721	6891	7066
Marcellus	6721	NA	7066	NA

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LATITUDE 39°35'00"

6,462'

LATITUDE 39°37'30"

1,309' TO BOTTOM HOLE

4,334'

4,081' TO BOTTOM HOLE

LONGITUDE 80°47'30"

LONGITUDE 80°50'00"

COUNTY NAME PERMIT

Antero Resources Corporation  
Well No. Girardi #2H

A1	PATRICIA HADDIX	J	DAVID R. THOMAS BY UX
A2	PATRICIA HADDIX	K	COASTAL FOREST RESOURCES COMPANY
B	WYDONR	M	COASTAL FOREST RESOURCES COMPANY
C	JACOB P. MORGAN, III AND SYLVIA A. MORGAN	N	MICHAEL SCOTT WHITEMAN
D	NANCY LOU O'NEIL LASURE	O	FIVE STAR RESOURCES
E	CHESAPEAKE APPALACHIA LLC.	P	TIMOTHY WAYNE THOMPSON
F	WILL R. MORRIS HEIRS TRUST	R	WVC, LLC
G	CSX TRANSPORTATION, INC.	S	ABRAM C. CATHROP AND MARY K. CATHROP
H1	J. WELLS KARM, BY AL	T	DAVID LEE SMITH
H2	J. WELLS KARM, BY AL	U	ROBERT BERRY MYERS, SR.
I1	BRIAN L. THOMAS AND TRACEY L. THOMAS	AA	DAVID LEE SMITH
I2	BRIAN L. THOMAS AND TRACEY L. THOMAS	AB	MICHAEL RUCENE SMITH
		AC	JOHN MATTHEW STALEY

AS DRILLED DATA:  
WELL 2H TOP HOLE INFORMATION:  
N: 392,951ft E: 1,629,434ft  
LAT: 39°34'17.17" LON: 80°48'52.52"  
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WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.  
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES

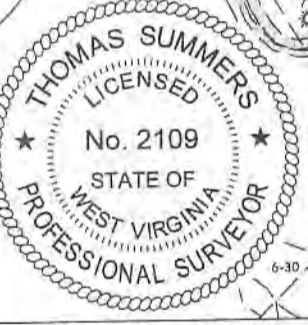
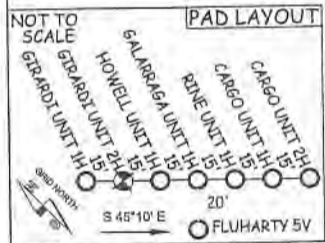
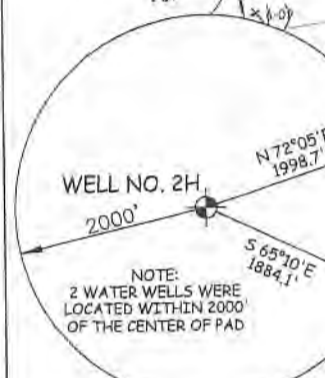
ARE BASED ON GRID NORTH.  
(NAD) 83 (UTM) ZONE 17 COORDS:  
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MAGNOLIA DISTRICT

12-104.1	TERRY SANDS
12-105	MARSHAL CO. COOPERATIVE INC.
12-119	NANCY LASURE
12-128	JACOB MORGAN
13-22	NANCY LASURE
	GREEN DISTRICT
1-15	JACOB MORGAN
1-30	ROSEMARY YOHO
1-30.1	ROSEMARY YOHO
1-30.6	BRAD THOMAS
1-30.8	CHRISTOPHER BATES
1-33	ROSEMARY YOHO
6-2.4	JODELL RITCHEA
6-8	BRIAN THOMAS
6-8.1	BRIAN THOMAS
6-8.4	BRIAN THOMAS
6-8.5	DAVID THOMAS
6-8.6	DAVID THOMAS
6-23	COASTAL FOREST RESOURCES CO.
6-28	COASTAL FOREST RESOURCES CO.
6-31	MICHAEL WHITEMAN
6-40	DEBBIE THOMAS
6-41	TIMOTHY THORNTON
11-11	SCHURMAN FAMILY INV, LLC
11-12	KEITH PYLE
11-13	KENNETH RINE EST.
11-16	MICHAEL SMITH
11-21	FLUHARTY FAMILY TRUST

WV NORTH ZONE GRID NORTH



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 21-011WA  
DRAWING # GIRARDI2HAD  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND  
--- Surface Owner Boundary Lines +/-  
--- Interior Surface Tracts +/-  
--- Proposed Well Path  
--- As Drilled Well Path  
THOMAS SUMMERS P.S. 2109  
DATE 11/22/24  
OPERATOR'S WELL# GIRARDI UNIT #2H  
47 - 103 - 03635  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1,181' WATERSHED FISHING CREEK  
QUADRANGLE PORTER FALLS 7.5' DISTRICT GREEN COUNTY WETZEL  
SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 46.95 ACRES±  
OIL & GAS ROYALTY OWNER DAVID L. SMITH LEASE ACREAGE 67 ACRES±  
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_  
PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) AS DRILLED PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,744' TVD 23,534' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS  
ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAK BLVD.  
DENVER, CO 80202 BRIDGEPORT, WV 26330

NOTE  
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.  
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.  
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01/28/2025



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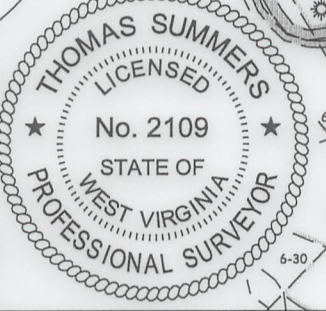
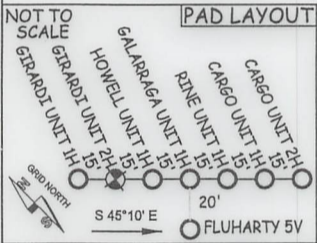
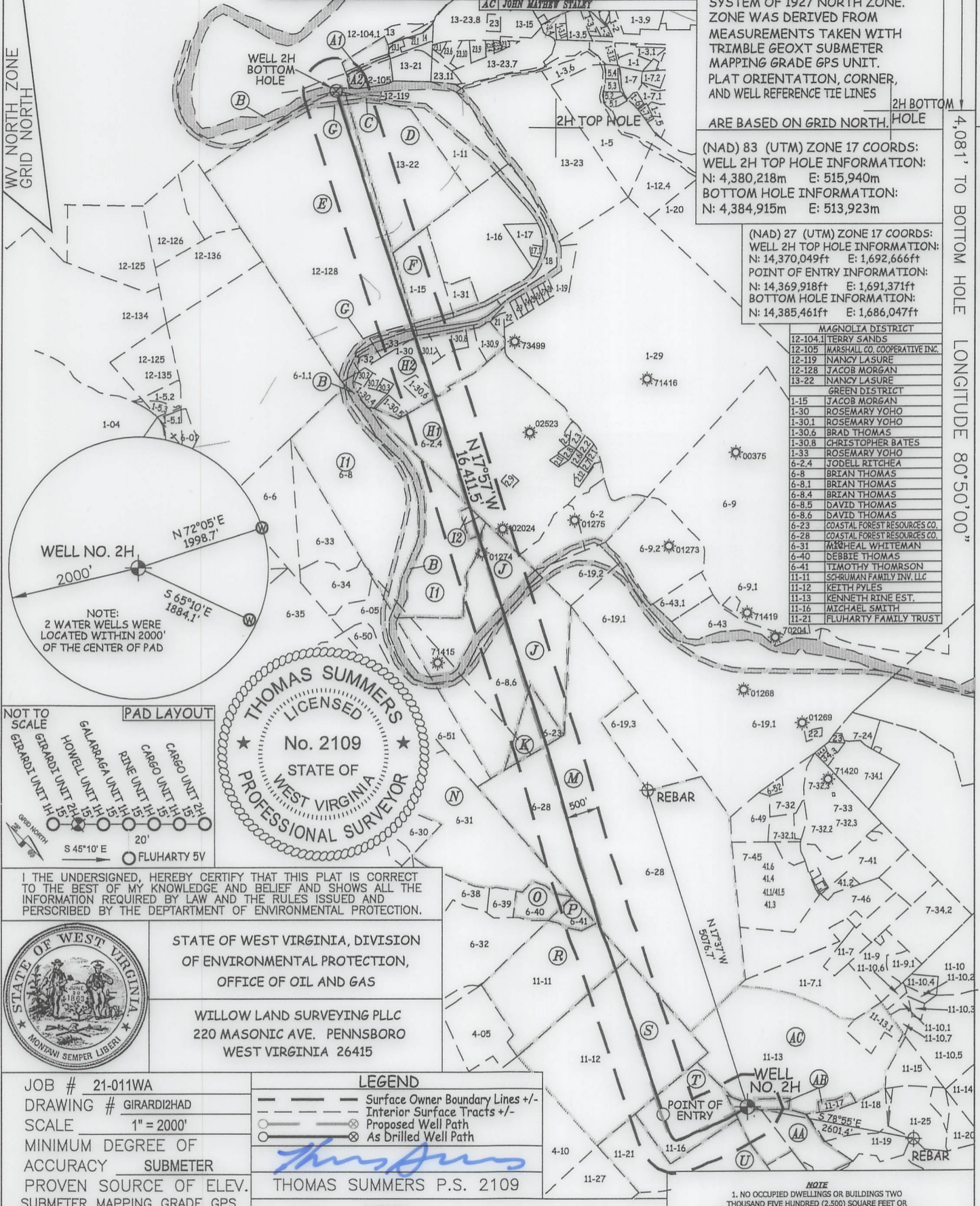
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Well No. Girardi #2H

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THOMAS SUMMERS P.S. 2109  
 DATE 11/22/24  
 OPERATOR'S WELL # GIRARDI UNIT #2H  
 47 - 103 - 03635  
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 LOCATION: ELEVATION 1,181' WATERSHED FISHING CREEK  
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 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS  
 ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAK BLVD.  
 DENVER, CO 80202 BRIDGEPORT, WV 26330

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	06/15/2024
Job End Date:	07/31/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03635-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GIRARDI UNIT 2H
Latitude:	39.571517
Longitude:	-80.814416
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6801
Total Base Water Volume (gal)*:	25384017
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

### Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Excellerate LX-21	Halliburton	Friction Reducer					
FDP-S1470-23	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 8.8)	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					

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A handwritten signature in blue ink, appearing to be "J. R.", is located at the bottom right of the page.

WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	86.60514	None
			Crystalline silica, quartz	14808-60-7	100.00000	13.20713	None
			Water	7732-18-5	100.00000	0.15477	None
			Hydrochloric acid	7647-01-0	30.00000	0.03736	None
			Complex amine compound	Proprietary	60.00000	0.01991	None
			Hydrotreated distillate	Proprietary	30.00000	0.00996	None
			Ethanaminium, N,N,N-trimethyl-2-(1-oxo-2-propen-1-yl)oxy-, chloride (1:1), polymer with 2-propenamide	69418-26-4	60.00000	0.00939	None
			Guar gum	9000-30-0	100.00000	0.00596	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00470	None
			Ammonium chloride	12125-02-9	5.00000	0.00244	None
			Glutaraldehyde	111-30-8	30.00000	0.00242	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00166	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00166	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00078	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00078	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00049	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00049	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00040	None
			Methanol	67-56-1	100.00000	0.00023	None
			Ammonium persulfate	7727-54-0	100.00000	0.00013	None
			Citric acid	77-92-9	1.00000	0.00008	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	None
			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00004	None

02/28/2025

			Propargyl alcohol	107-19-7	5.00000	0.00001	None
			Hexadecene	629-73-2	5.00000	0.00001	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	None
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	None

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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