

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

API 47 - 103 - 03612 County Wetzel District Green  
Quad Pine Grove 7.5' Pad Name Cedar Field/Pool Name -----  
Farm name Dallison Lumber Company Well Number Midas Unit 1H  
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 4379814.515m Easting 524577.292m  
Landing Point of Curve Northing 4373434.67m Easting 524156.67m  
Bottom Hole Northing 4373416.828m Easting 526233.607m

Elevation (ft) 1248' 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 10/4/2023 Date drilling commenced 11/1/2023 Date drilling ceased 2/16/2024  
Date completion activities began 4/6/2024 Date completion activities ceased 6/28/2024  
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 612' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 2193' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 1010' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:

12/13/2024

API 47- 103 - 03612 Farm name Dallison Lumber Company Well number Midas Unit 1H

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"	130'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	748'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3606'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	28674'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7325'		4.7#, L-80		
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	240 sx	15.6	1.18	283	0'	8 Hrs.
Surface	Class C	650 sx	15.8	1.16	754	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1270 sx	15.8	1.16	1473	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	5060 sx (Tail)	13.5 (Spacer), 15.2 (Lead)	1.30 (Tail)	6578	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 28674' MD, 7212' TVD (BHL), 7212' TVD (Deepest Point Drilled) Loggers TD (ft) 28634' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6582'

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

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 OCT 02 2024

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS WV Department of Environmental Protection

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

12/13/2024 *Dr*







API 47-103-03612 Farm Name Dallison Lumber Company Well Number Midas Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/6/2024	28535	28490	36	Marcellus
2	4/7/2024	28451.49359	28285.9615	36	Marcellus
3	4/7/2024	28250.45513	28084.9231	36	Marcellus
4	4/8/2024	28049.41667	27883.8846	36	Marcellus
5	4/8/2024	27848.37821	27682.8462	36	Marcellus
6	4/9/2024	27647.33974	27481.8077	36	Marcellus
7	4/9/2024	27446.30128	27280.7692	36	Marcellus
8	4/10/2024	27245.26282	27079.7308	36	Marcellus
9	4/10/2024	27044.22436	26878.6923	36	Marcellus
10	4/11/2024	26843.1859	26677.6538	36	Marcellus
11	4/11/2024	26642.14744	26476.6154	36	Marcellus
12	4/12/2024	26441.10897	26275.5769	36	Marcellus
13	4/12/2024	26240.07051	26074.5385	36	Marcellus
14	4/13/2024	26039.03205	25873.5	36	Marcellus
15	4/14/2024	25837.99359	25672.4615	36	Marcellus
16	4/14/2024	25636.95513	25471.4231	36	Marcellus
17	4/14/2024	25435.91667	25270.3846	36	Marcellus
18	4/14/2024	25234.87821	25069.3462	36	Marcellus
19	4/14/2024	25033.83974	24868.3077	36	Marcellus
20	4/15/2024	24832.80128	24667.2692	36	Marcellus
21	4/15/2024	24631.76282	24466.2308	36	Marcellus
22	4/15/2024	24430.72436	24265.1923	36	Marcellus
23	4/16/2024	24229.6859	24064.1538	36	Marcellus
24	4/16/2024	24028.64744	23863.1154	36	Marcellus
25	4/16/2024	23827.60897	23662.0769	36	Marcellus
26	4/16/2024	23626.57051	23461.0385	36	Marcellus
27	4/17/2024	23425.53205	23260	36	Marcellus
28	4/17/2024	23224.49359	23058.9615	36	Marcellus
29	4/17/2024	23023.45513	22857.9231	36	Marcellus
30	4/17/2024	22822.41667	22656.8846	36	Marcellus
31	4/17/2024	22621.37821	22455.8462	36	Marcellus
32	4/18/2024	22420.33974	22254.8077	36	Marcellus
33	4/18/2024	22219.30128	22053.7692	36	Marcellus
34	4/18/2024	22018.26282	21852.7308	36	Marcellus
35	4/20/2024	21817.22436	21651.6923	36	Marcellus
36	4/21/2024	21616.1859	21450.6538	36	Marcellus
37	4/21/2024	21415.14744	21249.6154	36	Marcellus
38	4/21/2024	21214.10897	21048.5769	36	Marcellus
39	4/21/2024	21013.07051	20847.5385	36	Marcellus
40	4/21/2024	20812.03205	20646.5	36	Marcellus
41	4/21/2024	20610.99359	20445.4615	36	Marcellus
42	4/22/2024	20409.95513	20244.4231	36	Marcellus
43	4/22/2024	20208.91667	20043.3846	36	Marcellus
44	4/22/2024	20007.87821	19842.3462	36	Marcellus
45	4/22/2024	19806.83974	19641.3077	36	Marcellus
46	4/23/2024	19605.80128	19440.2692	36	Marcellus
47	4/23/2024	19404.76282	19239.2308	36	Marcellus
48	4/23/2024	19203.72436	19038.1923	36	Marcellus
49	4/23/2024	19002.6859	18837.1538	36	Marcellus
50	4/23/2024	18801.64744	18636.1154	36	Marcellus
51	4/23/2024	18600.60897	18435.0769	36	Marcellus
52	4/24/2024	18399.57051	18234.0385	36	Marcellus
53	4/24/2024	18198.53205	18033	36	Marcellus
54	4/24/2024	17997.49359	17831.9615	36	Marcellus
55	4/24/2024	17796.45513	17630.9231	36	Marcellus
56	4/24/2024	17595.41667	17429.8846	36	Marcellus
57	4/25/2024	17394.37821	17228.8462	36	Marcellus
58	4/25/2024	17193.33974	17027.8077	36	Marcellus
59	4/25/2024	16992.30128	16826.7692	36	Marcellus
60	4/25/2024	16791.26282	16625.7308	36	Marcellus
61	4/25/2024	16590.22436	16424.6923	36	Marcellus
62	4/25/2024	16389.1859	16223.6538	36	Marcellus
63	4/26/2024	16188.14744	16022.6154	36	Marcellus
64	4/26/2024	15987.10897	15821.5769	36	Marcellus
65	4/26/2024	15786.07051	15620.5385	36	Marcellus
66	4/26/2024	15585.03205	15419.5	36	Marcellus
67	4/26/2024	15384.99359	15218.4615	36	Marcellus
68	4/26/2024	15183.95513	15017.4231	36	Marcellus
69	4/26/2024	14982.91667	14816.3846	36	Marcellus
70	4/27/2024	14781.87821	14615.3462	36	Marcellus
71	4/27/2024	14580.83974	14414.3077	36	Marcellus
72	4/27/2024	14379.80128	14213.2692	36	Marcellus
73	4/27/2024	14178.76282	14012.2308	36	Marcellus
74	4/27/2024	13977.72436	13811.1923	36	Marcellus
75	4/28/2024	13776.6859	13610.1538	36	Marcellus
76	4/28/2024	13575.64744	13409.1154	36	Marcellus
77	4/28/2024	13374.60897	13208.0769	36	Marcellus
78	4/28/2024	13173.57051	13007.0385	36	Marcellus
79	4/28/2024	12972.53205	12806	36	Marcellus
80	4/29/2024	12771.49359	12605.9615	36	Marcellus
81	4/29/2024	12570.45513	12404.9231	36	Marcellus
82	4/30/2024	12369.41667	12203.8846	36	Marcellus
83	4/30/2024	12168.37821	12002.8462	36	Marcellus
84	4/30/2024	11967.33974	11801.8077	36	Marcellus
85	4/30/2024	11766.30128	11599.7692	36	Marcellus
86	4/30/2024	11565.26282	11398.7308	36	Marcellus
87	5/1/2024	11364.22436	11197.6923	36	Marcellus
88	5/1/2024	11163.1859	10996.6538	36	Marcellus
89	5/1/2024	10962.14744	10795.6154	36	Marcellus
90	5/1/2024	10761.10897	10594.5769	36	Marcellus
91	5/1/2024	10560.07051	10393.5385	36	Marcellus
92	5/2/2024	10359.03205	10192.5	36	Marcellus
93	5/2/2024	10158.99359	9991.4615	36	Marcellus
94	5/2/2024	9957.95513	9790.42308	36	Marcellus
95	5/2/2024	9756.91667	9589.38462	36	Marcellus
96	5/2/2024	9555.878205	9388.34615	36	Marcellus
97	5/2/2024	9354.839744	9187.30769	36	Marcellus
98	5/3/2024	9153.801282	8986.26923	36	Marcellus
99	5/3/2024	8952.762821	8785.23077	36	Marcellus
100	5/3/2024	8751.724359	8584.19231	36	Marcellus
101	5/3/2024	8550.685897	8383.15385	36	Marcellus
102	5/3/2024	8349.647436	8182.11538	36	Marcellus
103	5/3/2024	8148.608974	7981.07692	36	Marcellus
104	5/3/2024	7947.570513	7780.03846	36	Marcellus
105	5/4/2024	7746.532051	7579	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	4/6/2024	79.83638	9459.804	5633.53	4865.664	164760	5493.6905	N/A
2	4/7/2024	86.53394	10302.75	6527.16	4325	416980	7083.9048	N/A
3	4/7/2024	83.53072	10442.03	7270.31	4292.469	416220	7566.881	N/A
4	4/8/2024	84.85709	10336.32	7721.36	4484	423540	7292.2857	N/A
5	4/8/2024	87.66163	10532.84	7121.8	4614.442	397610	7101.381	N/A
6	4/9/2024	88.28572	10585.52	7377.28	4235	414680	7166.7143	N/A
7	4/9/2024	87.66142	10531.82	6908.44	4251.328	409480	7398.5238	N/A
8	4/10/2024	85.11869	10334.69	7554.83	4330.668	409780	7137.3571	N/A
9	4/10/2024	88.93135	10499.42	7118.14	4540.325	408750	7163.8571	N/A
10	4/11/2024	88.43457	10559.69	7099.42	4655.429	419120	7465.7619	N/A
11	4/11/2024	86.86786	10207.44	7167.07	4471.564	419820	7279.3095	N/A
12	4/12/2024	87.86573	10506.53	6680.75	4208.899	400570	7077.4762	N/A
13	4/12/2024	90.33986	10562.93	6912.21	4336.53	414640	7142.9048	N/A
14	4/13/2024	87.8725	10493.43	6983.5	4332.171	410740	7419.7381	N/A
15	4/14/2024	86.57802	10410.6	7071.91	4451.879	408020	7158.4762	N/A
16	4/14/2024	92.70299	10534.96	6753.23	4393.835	417680	7783.9048	N/A
17	4/14/2024	87.44497	10595.42	7234.7	4411.028	416180	7373.5238	N/A
18	4/14/2024	85.72576	10448.13	7005.11	4372.117	422000	7167.9286	N/A
19	4/14/2024	89.75742	10614.33	6873.63	4383	418440	7120.7857	N/A
20	4/15/2024	94.23962	10506.89	6991.76	4326.277	416340	7215.881	N/A
21	4/15/2024	90.78318	10438.6	6829.3	4571.814	420600	7441.8571	N/A
22	4/15/2024	90.84937	10557.93	7205	4541.24	407100	7246.8571	N/A
23	4/16/2024	92.51571	10543.06	7106.43	4616.537	421640	7240.4762	N/A
24	4/16/2024	91.62757	10550.18	7409.67	4277.212	415160	7142.5476	N/A
25	4/16/2024	92.72801	10420.22	7113.13	4484.535	419120	7184.0476	N/A
26	4/16/2024	91.2453	10488.13	7172.56	4160.271	417260	7192.1667	N/A
27	4/17/2024	94.34091	10475.52	6928.53	4594.161	418840	7118.619	N/A
28	4/17/2024	92.9956	10456.81	7041.93	4363.516	413180	7199.4762	N/A
29	4/17/2024	89.9664	10561.09	7082.47	3980.823	419120	7056.4762	N/A
30	4/17/2024	95.52634	10511.35	6664.62	4413.853	415240	7178.0476	N/A
31	4/17/2024	95.24243	10473.37	7015.84	4157.189	413220	7021.9762	N/A
32	4/18/2024	93.05639	10540.45	7257.07	4299.052	413640	7136.4286	N/A
33	4/18/2024	87.90919	10548.17	7159.08	4086.434	410340	7144.5476	N/A
34	4/18/2024	89.69412	10477.54	7293.96	4043.276	375820	6845.6429	N/A
35	4/20/2024	94.8197	10438.59	6595.46	4330	415940	7307.3095	N/A
36	4/21/2024	92.89307	10385.11	5357.45	4620	411740	7856.1905	N/A
37	4/21/2024	93.94783	10564.04	7268.69	4557.782	414880	7258.6429	N/A
38	4/21/2024	93.36094	10539.54	6750.82	4336.286	416540	7208.0476	N/A
39	4/21/2024	93.86624	10445.39	6980.94	4345.194	416292	7213.9048	N/A
40	4/21/2024	93.95694	10400.91	7465.8	4474.987	420020	7210.2619	N/A
41	4/21/2024	95.71172	10394.56	7121.13	4518	415440	7025.2143	N/A
42	4/22/2024	95.69301	10554.1	6981.55	4482	420040	7280.4286	N/A
43	4/22/2024	96.71951	10574.48	6663.62	4292.868	413860	7210.4524	N/A
44	4/22/2024	87.85097	10455.83	6093	4131.903	421360	7249.7143	N/A
45	4/22/2024	90.09147	10470.92	7115.31	4151.62	399460	7409.7143	N/A
46	4/23/2024	93.10466	10538.65	7514.06	4375	421920	7171.4762	N/A
47	4/23/2024	93.84631	10599	7983.14	4320	415840	7212.6905	N/A
48	4/23/2024	95.62179	10549.07	5960.09	4328.199	423700	7350.4762	N/A
49	4/23/2024	93.19355	10514.78	7135.81	4390.642	414600	7132.9762	N/A
50	4/23/2024	95.09341	10538.09	6957.87	4413.565	417780	7139.9762	N/A
51	4/23/2024	95.05121	10256.62	5873.04	4177.601	414160	7317.5476	N/A
52	4/24/2024	94.41781	10494.67	6774.58	4327.233	418580	7252.0238	N/A
53	4/24/2024	91.77159	10289.85	6985.69	4145	424640	7346.381	N/A
54	4/24/2024	89.18671	10028.06	7259.54	3869	414780	7811.9048	N/A
55	4/24/2024	91.97223	10213.22	7241.7	4235.062	424000	7343.1905	N/A
56	4/24/2024	92.46274	10159.68	6777.94	4236.824	418560	7235.8333	N/A
57	4/25/2024	89.69153	10352.78	7376.22	4254.814	422980	7571.8095	N/A
58	4/25/2024	96.27453	10301.19	7308.42	4060.001	422260	7449.5952	N/A
59	4/25/2024	93.23868	10150.59	7359.7	4253.084	418680	7209.4762	N/A
60	4/25/2024	96.41893	9989.718	6700.29	4142.631	426520	7210.0238	N/A
61	4/25/2024	96.21242	10078.84	7166.02	4136.458	417780	7215.5952	N/A
62	4/25/2024	96.21526	10088.3	6731.62	4151.238	420220	7402.9286	N/A
63	4/26/2024	96.8601	10096.51	5742.43	4417.357	417800	7272.7381	N/A
64	4/26/2024	97.1877	10107	6472.71	4611.729	420020	7119	N/A
65	4/26/2024	94.18748	9782.88	6767.25	4368.93	418060	7227.7857	N/A
66	4/26/2024	96.41533	9738.935	6444.18	4273.965	414900	7336.6905	N/A
67	4/26/2024	97.06014	9807.211	6305.72	4537.902	420200	7237.2857	N/A
68	4/26/2024	96.6926	9879.288	6573.74	3976.12	422420	7288.0714	N/A
69	4/26/2024	97.54314	9494.535	5641.23	4268.878	418400	7248.3571	N/A
70	4/27/2024	96.14909	9879.002	6763.31	4265.077	418000	7296.9762	N/A
71	4/27/2024	97.64636	9714.5	6083.43	4349.072	421600	7186.5	N/A
72	4/27/2024	98.49039	9990.396	6475.13	4104.064	419800	7154.2857	N/A
73	4/27/2024	97.74675	9675.276	6029.2	4085.222	420980	7222.119	N/A
74	4/27/2024	97.67106	9384.642	5529.31	4332.59	427017	7645.119	N/A
75	4/28/2024	97.13963	9485.171	5996.96	4165.225	413720	7748.1429	N/A
76	4/28/2024	99.66534	9441.179	5860.67	3998.965	421160	7883.381	N/A
77	4/28/2024	96.83528	9287.824	6313.18	3907.627	425000	7662.9762	N/A
78	4/28/2024	98.23676	9027.153	5915.41	3988.187	420800	7605.6429	N/A
79	4/28/2024	97.7604	9049.174	5722.22	4291.332	426120	7553.9762	N/A
80	4/29/2024	97.7765	9048.931	6256.6	3982.827	419740	7496.9286	N/A
81	4/29/2024	58.90234	8831.379	6233.88	5194.03	37073	6950.7381	N/A
82	4/30/2024	93.86542	8536.2	6158.91	4288.838	419180	7312.5952	N/A
83	4/30/2024	93.03871	8353.569	5904.62	4231	419660	7207.381	N/A
84	4/30/2024	94.42194	8322.387	6609.56	4409	422980	7290.9762	N/A
85	4/30/2024	94.25302	8127.343	6109.44	4265	420760	7179.4762	N/A
86	4/30/2024	95.49882	8365.653	6602.32	4319.282	414500	7194.4048	N/A
87	5/1/2024	95.45457	8131.748	6174.33	4108.428	418420	7185.3095	N/A
88	5/1/2024	95.97312	8327.444	6376.79	4209	416820	7230.5476	N/A
89	5/1/2024	95.40148	8053.205	6152.44	4023	421860	7272.4286	N/A
90	5/1/2024	94.32901	8301.465	6500.57	4256.685	404520	7173.5238	N/A
91	5/1/2024	93.70399	7855.838	6937.21	4363.662	425420	7254.881	N/A
92	5/2/2024	94.21114	7785.754	6250.27	4199.997	423800	7329.4048	N/A
93	5/2/2024	97.87395	7758.307	6180.59	4278.733	418920	7308.4524	N/A
94	5/2/2024	93.65014	7551.702	6435.02	4244.246	423700	7079.4762	N/A
95	5/2/2024	93.43258	7446.854	6038.25	4246.931	418760	7195.5238	N/A
96	5/2/2024	94.75691	7427.359	6499.24	4325.143	428840	7098.5476	N/A
97	5/2/2024	94.34688	7357.552	5782.02	4334.469	424120	7229	N/A
98	5/3/2024	94.26473	7804.159	6150.74	4186.55	420580	6880.5714	N/A
99	5/3/2024	93.80592	7551.894	5805.53	4268.025	421500	7410.8095	N/A
100	5/3/2024	94.73697	7536.243	6021.42	4241.738	420620	7331.9048	N/A
101	5/3/2024	95.49587	7504.04	4820.54	4367	420460	7094.381	N/A
102	5/3/2024	94.80129	7610.104	5778.36	4062	420220	7056.7143	N/A
103	5/3/2024	96.50485	7332.762	5999.75	3940.97	419420	7070.3333	N/A
104	5/3/2024	98.01647	7369.92	6113.28	4104.347	417940	7022.5714	N/A
105	5/4/2024	97.83298	7499.682	6137.26	3808.682	425440	7127.8571	N/A
AVERAGE		92.9	9,672	6,642	4,286	43,199,152	761,037	0

RECEIVED  
Office of Oil and Gas

OCT 02 2024

WV Department of  
Environmental Protection

12/13/2024



**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, LS	100	320	100	320
Shaley Siltstone, tr LS	320	370	320	370
Sandy Shale	370	620	370	620
Siltstone, Occ SS, tr Shale, tr Coal	470	820	470	820
Sandy Siltstone, tr LS, tr Shale	620	820	620	820
Silty Sandstone, tr LS	820	920	820	920
Sandy Siltstone, tr LS, tr Shale	920	1,020	920	1,020
Silty Sandstone, tr Shale	1,020	1,120	1,020	1,120
Silty Sandstone, tr Shale, tr LS	1,120	1,220	1,120	1,220
Shaley Sandstone, occ Siltstone	1,220	1,420	1,220	1,420
Silty Sandstone, tr shale	1,420	1,520	1,420	1,520
Sandy Siltstone, tr Coal	1,520	1,670	1,520	1,670
Silty Sandstone, tr Coal, tr Shale	1,670	1,870	1,670	1,870
Sandy Shale, tr Coal	1,870	2,020	1,870	2,020
Silty Sandstone, rr Coal	2,020	2,160	2,020	2,204
Big Lime	2,190	2,992	2,204	3,068
Fifty Foot Sandstone	2,992	3,066	3,038	3,144
Gordon	3,066	3,304	3,114	3,389
Fifth Sandstone	3,304	3,647	3,359	3,742
Bayard	3,647	4,023	3,712	4,132
Speechley	4,023	4,176	4,102	4,292
Balltown	4,176	4,647	4,262	4,779
Bradford	4,647	5,237	4,749	5,389
Benson	5,237	5,688	5,359	5,863
Alexander	5,688	6,877	5,833	7,145
Sycamore	6,720	6,847	6,956	7,115
Middlesex	6,847	6,945	7,115	7,263
Burkett	6,945	6,974	7,263	7,318
Tully	6974	7058	7318	7527
Marcellus	7058	NA	7527	NA

RECEIVED  
Office of Oil and Gas

OCT 02 2024

WV Department of  
Environmental Protection

12/13/2024 



7,999' to Bottom Hole

Antero Resources  
Well No. Midas 1H  
As-Drilled  
Antero Resources Corporation

Page 1 of 3

1,612' to Top Hole

TOP HOLE LATITUDE 39 - 35 - 00  
BTM HOLE LATITUDE 39 - 32 - 30



See Detail 1  
Page 2

As-Drilled  
Well No.  
Midas Unit 1H

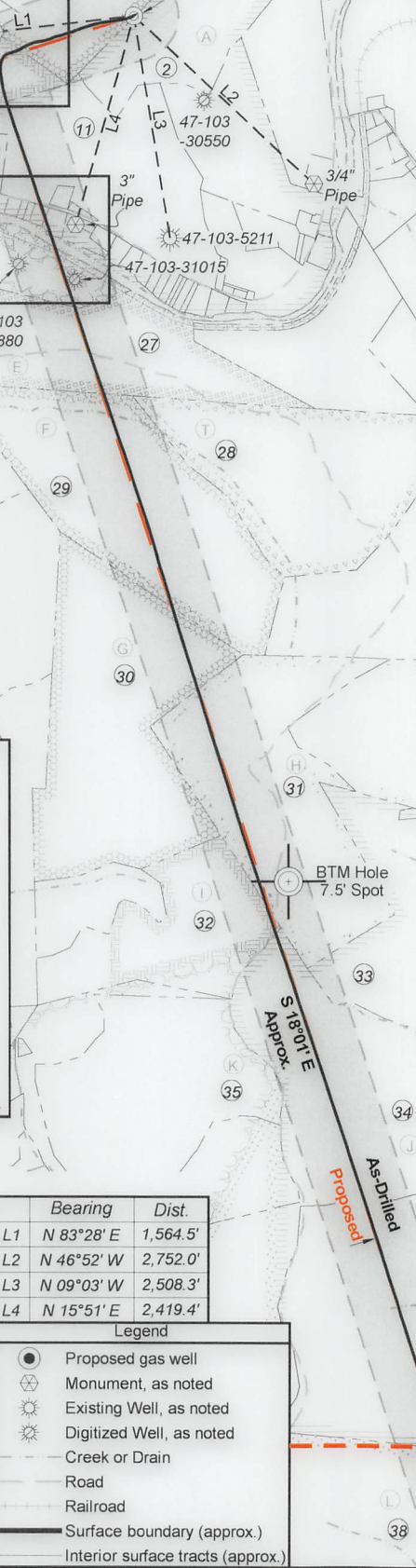
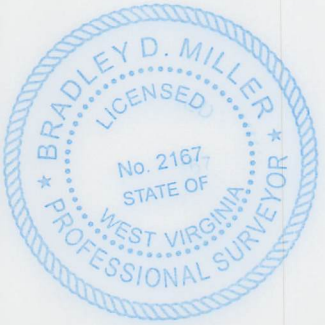
Notes  
West Virginia Coordinate System  
of 1927, North Zone  
based upon Differential GPS Measurements.  
Well No. Midas Unit 1H Top Hole coordinates are  
N: 391,154.04'    Latitude: 39°34'03.35"  
E: 1,657,753.96'    Longitude: 80°42'50.58"  
Bottom Hole coordinates are  
N: 370,069.51'    Latitude: 39°30'35.65"  
E: 1,662,839.43'    Longitude: 80°41'42.06"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates    Bottom Hole Coordinates  
N: 4,379,814.515m    N: 4,373,416.828m  
E: 524,577.292m    E: 526,233.607m  
Plat orientation and corner and well references  
are based upon the grid north meridian.  
Well location references are based upon the magnetic  
meridian.

TOP HOLE LONGITUDE 80 - 42 - 30  
BTM HOLE LONGITUDE 80 - 40 - 00  
5,732' to Top Hole

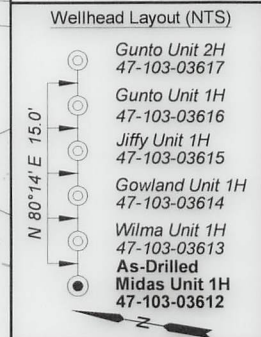
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegany Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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 prescribed by the Department of Environmental Protection.

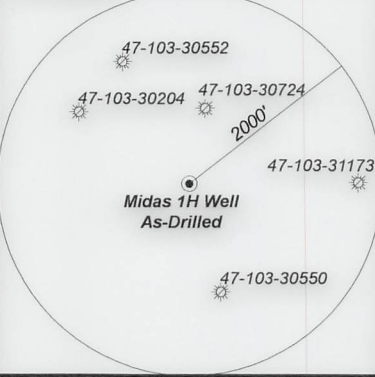
*Bradley D. Miller*  
Bradley D. Miller, P.S. 2167



Notes:  
Well No. Midas Unit 1H  
As-Drilled POE Coordinates  
WV Coordinate System  
of 1927, North Zone  
N: 390,156.39'  
E: 1,656,339.72'  
Latitude: 39°33'53.30"  
Longitude: 80°43'08.46"  
UTM Zone 17, NAD 1983  
N: 4,379,503.368m  
E: 524,151.487m



Note: 0 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Bearing	Dist.
L1 N 83°28' E	1,564.5'
L2 N 46°52' W	2,752.0'
L3 N 09°03' W	2,508.3'
L4 N 15°51' E	2,419.4'

Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Road
- Railroad
- Surface boundary (approx.)
- Interior surface tracts (approx.)

FILE NO: 127-34-G-18  
DRAWING NO: Midas 1H As-Drilled Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: September 9 20 24  
OPERATOR'S WELL NO. Midas 1H  
API WELL NO  
47 - 103 - 03612  
STATE COUNTY PERMIT

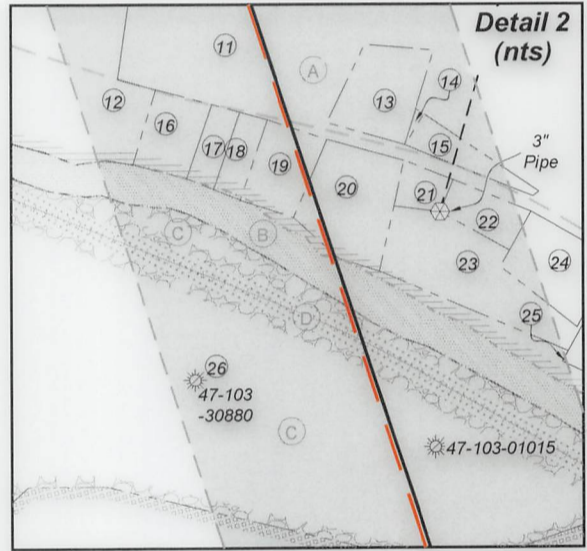
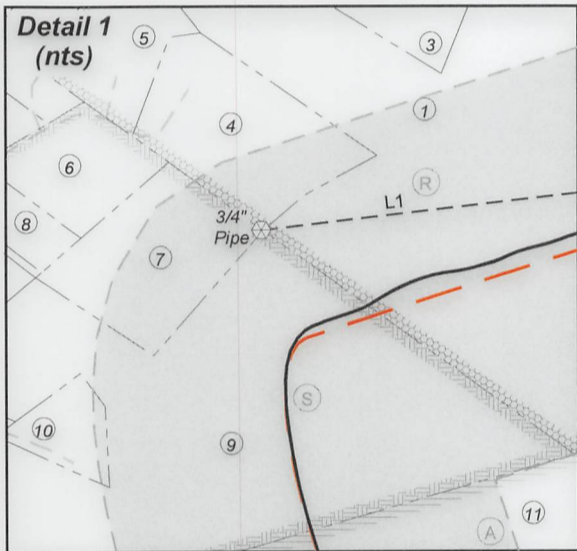
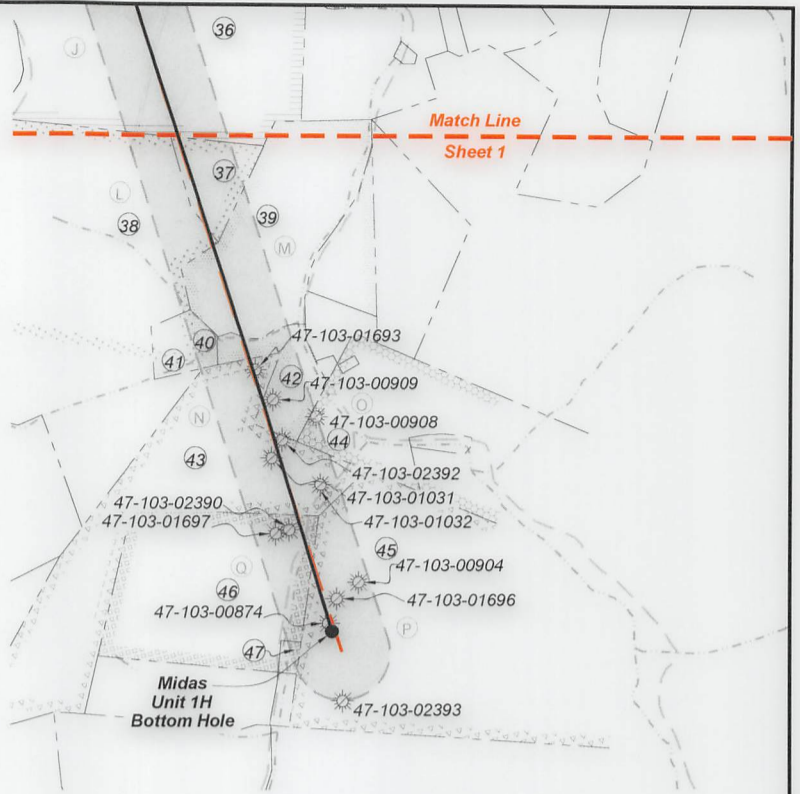
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built: 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
DISTRICT: Green Kenneth E. & COUNTY: Wetzel 12/13/2024  
SURFACE OWNER: Vicky A. VanDyne ACREAGE: 42.33  
ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 629.58633  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,212' TVD 28,674' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd  
Denver, CO 80202 Bridgeport, WV 26330

11,570' to Bottom Hole





FILE NO: 127-34-G-18  
DRAWING NO: Midas 1H As-Drilled Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: September 9 20 24  
OPERATOR'S WELL NO. Midas 1H  
API WELL NO  
47 - 103 - 03612  
STATE COUNTY PERMIT

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 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,674' MD 7,212' TVD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330





Leases	
A	Jenkins Miller
B	WVDNR
C	Marcella K. Harrison
D	CSX Transportation, Inc.
E	Tribune Resources Minerals, LLC
F	Shiben Estates Inc.
G	Tribune Resources Minerals, LLC
H	Thomas Cunningham, et ux
I	Tribune Resources Minerals, LLC
J	Shiben Estates Inc.
K	Tribune Resources Minerals, LLC
L	Josephine Brast, et al
M	Louisa J. Fluharty
N	Israel Miller, et ux
O	Rachel Wright, et al
P	John R. McCoy, et al
Q	Israel Miller, et al
R	Antero Minerals, LLC
S	Antero Minerals, LLC
T	Jeffrey T. Hayes

ID	TM-Par	Owner	Bk/Pg	Acres
1	13-40	Kenneth E. & Vicky A. VanDyne	357/204	42.33
2	14-19	Dallison Lumber Company	357/267	51.50
3	13-34	Kenneth E. & Vicky A. VanDyne	357/204	14.50
4	13-39	Ruth E. Staley	256/283	3.12
5	13-38	Francis E. Bland	WB57/273	2.55
6	13-37	Debra Ann Hengee, et al	398/447	2.00
7	13-54.2	Ronald M. & Pamela Ann Jackson	315/524	3.35
8	13-37.1	Jeffrey D. Brown	394/491	1.00
9	13-54	Loraine Highley	WB81/258	20.17
10	13-54.1	Michelle M. Thomas	428/641	1.00
11	13-83	Emma Virginia Miller	133/455	58.00
12	13-65	Raye Anne Lloyd	445/660	18.01
13	13-76	Edward G. Stewart	317/678	1.30
14	13-75	Edward G. Stewart	317/678	0.03
15	13-77	Gilbert H. Miller	WB32/145	0.72
16	13-65.3	David Pigott	416/367	0.76
17	13-65.5	David Pigott	416/367	0.38
18	13-65.2	Rhonda Pigott	384/200	0.38
19	13-65.1	Michael Cronin	442/778	0.79
20	13-79	Theodore L. Sawyer, Jr.	423/866	1.40
21	13-80	Nathaniel L. & Lisa D. Yoho	402/4	0.33
22	13-81.1	Nathaniel L. & Lisa D. Yoho	402/4	0.48
23	13-81.4	First Baptist Church of Pine Grove	431/168	1.94
24	13-81.3	First Baptist Church of Pine Grove	431/168	1.05
25	13-89	First Baptist Church of Pine Grove	352/533	1.18
26	13-78	Sebastian, Jr. & Marcella Harrison	281/94	25.37
27	17-5	Coastal Forest Resources	444/105	90.00
28	17-21	Pauline E. Hayes	420/626	83.30
29	17-20	Heartland Forest Land Fund VII LP	431/936	123.50
30	17-31	Heartland Forest Land Fund VII LP	431/936	120.33
31	17-40	Heartland Forest Land Fund VII LP	431/936	120.00
32	17-50	EIP III, West Virginia LLC	463/193	69.00
33	17-51	Linda K. Ice & Harry G. Witcherman Jr.	WB66/545	156.00
34	20-46	Sara Ruth Cool & Peggy Ann Dawson Supplemental Needs Trust	471/207	107.1
35	20-14.4	Matthew D. Bassett, et al	421/365	97.18
36	20-15	Coastal Forest Resources Co.	444/105	198.00
37	20-22	Coastal Forest Resources Co.	444/105	12.20
38	20-37	Coastal Forest Resources Co.	444/105	246.84
39	21-15	Douglas & Debra Williams	385/159	57.06
40	20-49	Douglas & Debra Williams	472/115	2.00
41	20-37.1	Douglas & Debra Williams	472/115	6.26
42	21-15.1	Debra Williams	398/447	2.00
43	23-1	Susan Henderson	417/744	100.00
44	21-21	Santford Joe Haught	423/709	83.00
45	23-4	Coastal Forest Resources Co.	491/498	154.51
46	23-2	Susan Henderson	417/744	72.00
47	23-7	Coastal Forest Resources Co.	444/105	1.40

FILE NO: 127-34-G-18  
DRAWING NO: Midas 1H As-Drilled Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: September 9 20 24  
OPERATOR'S WELL NO. Midas 1H  
API WELL NO  
47 - 103 - 03612  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

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28,674' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330



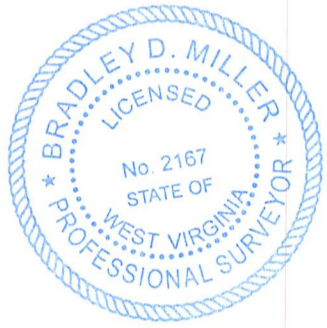
**Antero Resources**  
**Well No. Midas 1H**  
**As-Drilled**  
**Antero Resources Corporation**



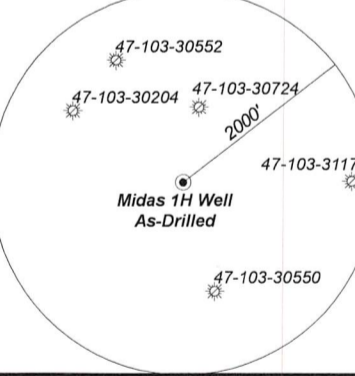
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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Bradley D. Miller*  
 Bradley D. Miller, P.S. 2167



Note: 0 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



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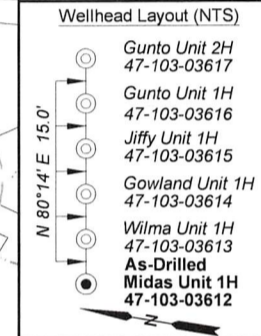
- Legend**
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  - ⊗ Monument, as noted
  - ☼ Existing Well, as noted
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  - Creek or Drain
  - Road
  - Railroad
  - Surface boundary (approx.)
  - Interior surface tracts (approx.)

1,612' to Top Hole  
 TOP HOLE LATITUDE 39 - 35 - 00  
 BTM HOLE LATITUDE 39 - 32 - 30

Notes  
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 E: 1,657,753.96' Longitude: 80°42'50.58"  
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 E: 524,577.292m E: 526,233.607m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
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TOP HOLE LONGITUDE 80 - 42 - 30  
 BTM HOLE LONGITUDE 80 - 40 - 00  
 5,732' to Top Hole

Notes:  
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 Latitude: 39°33'53.30"  
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 N: 4,379,503.368m  
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7,999' to Bottom Hole

11,570' to Bottom Hole

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

FILE NO: 127-34-G-18  
 DRAWING NO: Midas 1H As-Drilled Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

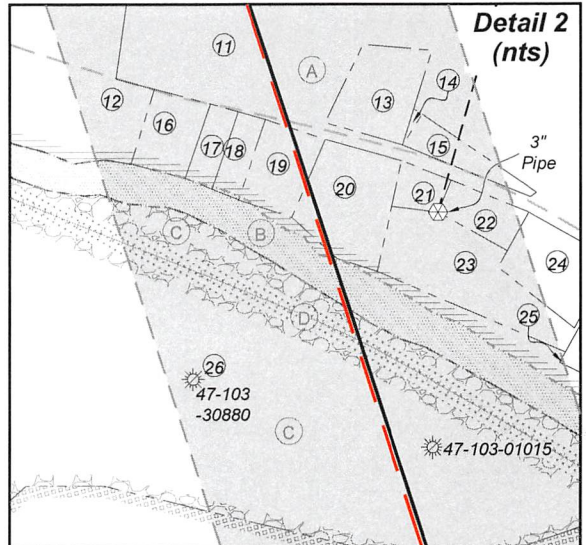
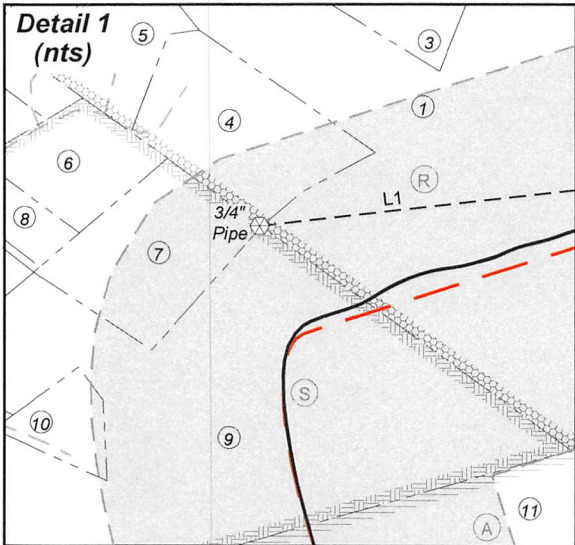
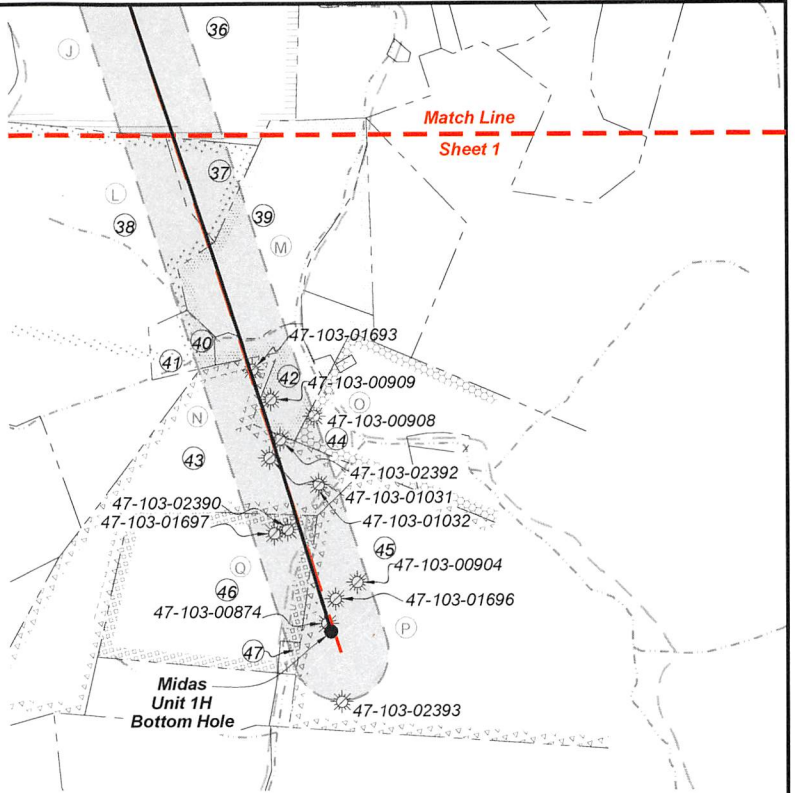
DATE: September 9 20 24  
 OPERATOR'S WELL NO. Midas 1H  
 API WELL NO  
 47 - 103 - 03612  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built: 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
 DISTRICT: Green COUNTY: Wetzel  
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 ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 629.58633  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,212' TVD 28,674' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd  
 Denver, CO 80202 Bridgeport, WV 26330





FILE NO: 127-34-G-18  
DRAWING NO: Midas 1H As-Drilled Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: September 9 20 24  
OPERATOR'S WELL NO. Midas 1H  
API WELL NO  
47 - 103 - 03612  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built: 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
DISTRICT: Green Kenneth E. & COUNTY: Wetzel **12/13/2024**  
SURFACE OWNER: Vicky A. VanDyne ACREAGE: 42.33  
ROYALTY OWNER: Antero Minerals, LLC LEASE NO: \_\_\_\_\_ ACREAGE: 629.58633  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,212' TVD  
28,674' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330





Leases	
A	Jenkins Miller
B	WVDNR
C	Marcella K. Harrison
D	CSX Transportation, Inc.
E	Tribune Resources Minerals, LLC
F	Shiben Estates Inc.
G	Tribune Resources Minerals, LLC
H	Thomas Cunningham, et ux
I	Tribune Resources Minerals, LLC
J	Shiben Estates Inc.
K	Tribune Resources Minerals, LLC
L	Josephine Brast, et al
M	Louisa J. Fluharty
N	Israel Miller, et ux
O	Rachel Wright, et al
P	John R. McCoy, et al
Q	Israel Miller, et al
R	Antero Minerals, LLC
S	Antero Minerals, LLC
T	Jeffrey T. Hayes

ID	TM-Par	Owner	Bk/Pg	Acres
1	13-40	Kenneth E. & Vicky A. VanDyne	357/204	42.33
2	14-19	Dallison Lumber Company	357/267	51.50
3	13-34	Kenneth E. & Vicky A. VanDyne	357/204	14.50
4	13-39	Ruth E. Staley	256/283	3.12
5	13-38	Francis E. Bland	WB57/273	2.55
6	13-37	Debra Ann Hengee, et al	398/447	2.00
7	13-54.2	Ronald M. & Pamela Ann Jackson	315/524	3.35
8	13-37.1	Jeffrey D. Brown	394/491	1.00
9	13-54	Loraine Highley	WB81/258	20.17
10	13-54.1	Michelle M. Thomas	428/641	1.00
11	13-83	Emma Virginia Miller	133/455	58.00
12	13-65	Raye Anne Lloyd	445/660	18.01
13	13-76	Edward G. Stewart	317/678	1.30
14	13-75	Edward G. Stewart	317/678	0.03
15	13-77	Gilbert H. Miller	WB32/145	0.72
16	13-65.3	David Pigott	416/367	0.76
17	13-65.5	David Pigott	416/367	0.38
18	13-65.2	Rhonda Pigott	384/200	0.38
19	13-65.1	Michael Cronin	442/778	0.79
20	13-79	Theodore L. Sawyer, Jr.	423/866	1.40
21	13-80	Nathaniel L. & Lisa D. Yoho	402/4	0.33
22	13-81.1	Nathaniel L. & Lisa D. Yoho	402/4	0.48
23	13-81.4	First Baptist Church of Pine Grove	431/168	1.94
24	13-81.3	First Baptist Church of Pine Grove	431/168	1.05
25	13-89	First Baptist Church of Pine Grove	352/533	1.18
26	13-78	Sebastian, Jr. & Marcella Harrison	281/94	25.37
27	17-5	Coastal Forest Resources	444/105	90.00
28	17-21	Pauline E. Hayes	420/626	83.30
29	17-20	Heartland Forest Land Fund VII LP	431/936	123.50
30	17-31	Heartland Forest Land Fund VII LP	431/936	120.33
31	17-40	Heartland Forest Land Fund VII LP	431/936	120.00
32	17-50	EIP III, West Virginia LLC	463/193	69.00
33	17-51	Linda K. Ice & Harry G. Witcherman Jr.	WB66/545	156.00
34	20-46	Sara Ruth Cool & Peggy Ann Dawson Supplemental Needs Trust	471/207	107.1
35	20-14.4	Matthew D. Bassett, et al	421/365	97.18
36	20-15	Coastal Forest Resources Co.	444/105	198.00
37	20-22	Coastal Forest Resources Co.	444/105	12.20
38	20-37	Coastal Forest Resources Co.	444/105	246.84
39	21-15	Douglas & Debra Williams	385/159	57.06
40	20-49	Douglas & Debra Williams	472/115	2.00
41	20-37.1	Douglas & Debra Williams	472/115	6.26
42	21-15.1	Debra Williams	398/447	2.00
43	23-1	Susan Henderson	417/744	100.00
44	21-21	Santford Joe Haught	423/709	83.00
45	23-4	Coastal Forest Resources Co.	491/498	154.51
46	23-2	Susan Henderson	417/744	72.00
47	23-7	Coastal Forest Resources Co.	444/105	1.40

FILE NO: 127-34-G-18  
 DRAWING NO: Midas 1H As-Drilled Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY:  
Submeter  
 PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	04/06/2024
Job End Date:	05/04/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03612-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	MIDAS 1H
Latitude:	39.567677
Longitude:	-80.713869
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7211
Total Base Water Volume (gal)*:	33704248.22
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
Accelerate LX-21	Halliburton	Friction Reducer					
FDP-S1470-23	Halliburton	Friction Reducer					
FE-2A	Halliburton	Additive					
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
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 10.0)	Operator	Base Fluid					

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Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	88.46668	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.33890	None
			Water	7732-18-5	100.00000	0.15378	None
			Hydrochloric acid	7647-01-0	30.00000	0.03735	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	0.01711	None
			Complex amine compound	Proprietary	60.00000	0.01599	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00856	None
			Hydrotreated distillate	Proprietary	30.00000	0.00799	None
			Guar gum	9000-30-0	100.00000	0.00643	None
			Ammonium chloride	12125-02-9	5.00000	0.00276	None
			Glutaraldehyde	111-30-8	30.00000	0.00202	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00143	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00143	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00133	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00133	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00055	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00055	None
			Proprietary	Proprietary	20.00000	0.00036	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00034	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	60.00000	0.00009	None

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			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
			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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