

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

API 47-103-03657 County Wetzel District Green
Quad Pine Grove 7.5' Pad Name Galmish Field/Pool Name -----
Farm name Dallison Lumber Inc. Well Number Cobb Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

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As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 526166.639m Easting 4380893.525m
Landing Point of Curve Northing 525511.43m Easting 4380218.36m
Bottom Hole Northing 527229.531m Easting 4375249.812m

Elevation (ft) 1160.7' 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

Date permit issued 5/20/2024 Date drilling commenced 6/1/2024 Date drilling ceased 8/6/2024
Date completion activities began 10/23/2024 Date completion activities ceased 1/6/2025
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 45', 130' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1961' 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

Reviewed by:

05/16/2025

API 47-103 - 03657 Farm name Dallison Lumber Inc. Well number Cobb 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"	135'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	382'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3796'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	26908'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7617'		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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	242 sx	15.6	1.18	286	0'	8 Hrs.
Surface	Class C	352 sx	15.8	1.17	412	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1395 sx	15.8	1.15	1604	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4605 sx (Tail)	13.5 (Spacer), 15.2(Tail)	1.31 (Tail)	6033	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 26,908' MD, 7,141' TVD (BHL), 7,143' TVD (Deepest Point Drilled) Loggers TD (ft) 26,868' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6,684'

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

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS

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

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5/14/25

Well number Cobb Unit 1H

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

[illegible][illegible][illegible]

05/16/2025

Well number Cobb Unit 1H

DEPTHS

[illegible]

***PLEASE SEE ATTACHED EXHIBIT 3**

[illegible]

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

05/16/2025

API 47-103-03652 Farm Name Dallison Lumber Inc. Well Number Cobb Unit 1H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/23/2024	26814	26771	36	Marcellus
2	10/24/2024	26732.45699	26566.7419	36	Marcellus
3	10/24/2024	26531.19892	26365.4839	36	Marcellus
4	10/25/2024	26329.94086	26164.2258	36	Marcellus
5	10/25/2024	26128.6828	25962.9677	36	Marcellus
6	10/25/2024	25927.42473	25761.7097	36	Marcellus
7	10/26/2024	25726.16667	25560.4516	36	Marcellus
8	10/26/2024	25524.9086	25359.1935	36	Marcellus
9	10/26/2024	25323.65054	25157.9355	36	Marcellus
10	10/27/2024	25122.39247	24956.6774	36	Marcellus
11	10/27/2024	24921.13441	24755.4194	36	Marcellus
12	10/27/2024	24719.87634	24554.1613	36	Marcellus
13	10/28/2024	24518.61828	24352.9032	36	Marcellus
14	10/28/2024	24317.36022	24151.6452	36	Marcellus
15	10/28/2024	24116.10215	23950.3871	36	Marcellus
16	10/29/2024	23914.84409	23749.129	36	Marcellus
17	10/29/2024	23713.58602	23547.871	36	Marcellus
18	10/29/2024	23512.32796	23346.6129	36	Marcellus
19	10/30/2024	23311.06989	23145.3548	36	Marcellus
20	10/30/2024	23109.81183	22944.0968	36	Marcellus
21	10/30/2024	22908.55376	22742.8387	36	Marcellus
22	10/30/2024	22707.2957	22541.5806	36	Marcellus
23	10/31/2024	22506.03763	22340.3226	36	Marcellus
24	10/31/2024	22304.77957	22139.0645	36	Marcellus
25	10/31/2024	22103.52151	21937.8065	36	Marcellus
26	11/1/2024	21902.26344	21736.5484	36	Marcellus
27	11/1/2024	21701.00538	21535.2903	36	Marcellus
28	11/1/2024	21499.74731	21334.0323	36	Marcellus
29	11/1/2024	21298.48975	21132.7742	36	Marcellus
30	11/1/2024	21097.23118	20931.5161	36	Marcellus
31	11/2/2024	20895.97312	20730.2581	36	Marcellus
32	11/2/2024	20694.71505	20529	36	Marcellus
33	11/2/2024	20493.45699	20327.7419	36	Marcellus
34	11/2/2024	20292.19892	20126.4839	36	Marcellus
35	11/2/2024	20090.94086	19925.2258	36	Marcellus
36	11/3/2024	19889.6828	19723.9677	36	Marcellus
37	11/3/2024	19688.42473	19522.7097	36	Marcellus
38	11/3/2024	19487.16667	19321.4516	36	Marcellus
39	11/3/2024	19285.9086	19120.1935	36	Marcellus
40	11/3/2024	19084.65054	18918.9355	36	Marcellus
41	11/4/2024	18883.39247	18717.6774	36	Marcellus
42	11/4/2024	18682.13441	18516.4194	36	Marcellus
43	11/4/2024	18480.87634	18315.1613	36	Marcellus
44	11/4/2024	18279.61828	18113.9032	36	Marcellus
45	11/5/2024	18078.36022	17912.6452	36	Marcellus
46	11/5/2024	17877.10215	17711.3871	36	Marcellus
47	11/5/2024	17675.84409	17510.129	36	Marcellus
48	11/5/2024	17474.58602	17308.871	36	Marcellus
49	11/5/2024	17273.32796	17107.6129	36	Marcellus
50	11/5/2024	17072.06989	16906.3548	36	Marcellus
51	11/6/2024	16870.81183	16705.0968	36	Marcellus
52	11/6/2024	16669.55376	16503.8387	36	Marcellus
53	11/6/2024	16468.2957	16302.5806	36	Marcellus
54	11/6/2024	16267.03763	16101.3226	36	Marcellus
55	11/7/2024	16065.77957	15900.0645	36	Marcellus
56	11/7/2024	15864.52151	15698.8065	36	Marcellus
57	11/7/2024	15663.26344	15497.5484	36	Marcellus
58	11/7/2024	15462.00538	15296.2903	36	Marcellus
59	11/8/2024	15260.74731	15095.0323	36	Marcellus
60	11/8/2024	15059.48925	14893.7742	36	Marcellus
61	11/8/2024	14858.23118	14692.5161	36	Marcellus
62	11/8/2024	14656.97312	14491.2581	36	Marcellus
63	11/8/2024	14455.71505	14290	36	Marcellus
64	11/9/2024	14254.45699	14088.7419	36	Marcellus
65	11/9/2024	14053.19892	13887.4839	36	Marcellus
66	11/9/2024	13851.94086	13686.2258	36	Marcellus
67	11/9/2024	13650.6828	13484.9677	36	Marcellus
68	11/9/2024	13449.42473	13283.7097	36	Marcellus
69	11/10/2024	13248.16667	13082.4516	36	Marcellus
70	11/10/2024	13046.9086	12881.1935	36	Marcellus
71	11/10/2024	12845.65054	12679.9355	36	Marcellus
72	11/11/2024	12644.39247	12478.6774	36	Marcellus
73	11/11/2024	12443.13441	12277.4194	36	Marcellus
74	11/11/2024	12241.87634	12076.1613	36	Marcellus
75	11/12/2024	12040.61828	11874.9032	36	Marcellus
76	11/12/2024	11839.36022	11673.6452	36	Marcellus
77	11/12/2024	11638.10215	11472.3871	36	Marcellus
78	11/12/2024	11436.84409	11271.129	36	Marcellus
79	11/13/2024	11235.58602	11069.871	36	Marcellus
80	11/13/2024	11034.32796	10868.6129	36	Marcellus
81	11/13/2024	10833.06989	10667.3548	36	Marcellus
82	11/13/2024	10631.81183	10466.0968	36	Marcellus
83	11/14/2024	10430.55376	10264.8387	36	Marcellus
84	11/14/2024	10229.2957	10063.5806	36	Marcellus
85	11/14/2024	10028.03763	9862.32258	36	Marcellus
86	11/14/2024	9826.77957	9661.06452	36	Marcellus
87	11/15/2024	9625.521505	9459.80645	36	Marcellus
88	11/15/2024	9424.263441	9258.54839	36	Marcellus
89	11/15/2024	9223.005376	9057.29032	36	Marcellus
90	11/16/2024	9021.747312	8856.03226	36	Marcellus
91	11/16/2024	8820.489247	8654.77419	36	Marcellus
92	11/16/2024	8619.231183	8453.51613	36	Marcellus
93	11/16/2024	8417.973118	8252.25806	36	Marcellus
94	11/16/2024	8216.715054	8051	36	Marcellus

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API-27-203-03557 Farm Name: Dalison Lumber Inc. Well Number: Cobb Unit 1H									
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	10/23/2024	73.14802	10214.81	7005.07	3856.973	170880	5903.4048	N/A	
2	10/24/2024	81.31138	10436.84	6528.93	4211	420640	8208	N/A	
3	10/24/2024	79.04048	10462.95	7404	4204.47	399310	7236.3333	N/A	
4	10/25/2024	77.93538	10529.46	6771.24	4594.941	395820	7206.6429	N/A	
5	10/25/2024	79.26718	10653.61	7671.46	4158	411720	7304.3571	N/A	
6	10/25/2024	75.60953	10555.25	7187.06	4320	400010	7818.6667	N/A	
7	10/26/2024	70.19	9972	7192.47	5030.604	396050	9297.1429	N/A	
8	10/26/2024	81.89957	10574.82	7226.28	4728	405350	7190.4524	N/A	
9	10/26/2024	85.09883	10557.71	6323.55	4613	405830	7100.8333	N/A	
10	10/27/2024	81.39475	10570.76	7077.58	4756	397870	7062.5714	N/A	
11	10/27/2024	76.45803	10592.7	7568.24	4459	398430	7131.6667	N/A	
12	10/27/2024	80.78899	10427.43	6881.27	4921	399580	7044.3571	N/A	
13	10/28/2024	83.3647	10571.91	7167.47	5054	400320	7028.1667	N/A	
14	10/28/2024	85.71191	10656.59	7275.01	4495	399840	7161.2381	N/A	
15	10/28/2024	83.58707	10472.76	7145	5090	395630	6913.3571	N/A	
16	10/29/2024	83.94726	10485.55	7468.07	4995	402720	7035.5	N/A	
17	10/29/2024	85.25356	10458.71	7486.12	4573.993	398750	7152.4762	N/A	
18	10/29/2024	84.74277	10410.74	7459.76	4940	402680	7031.0238	N/A	
19	10/30/2024	89.01219	10583.21	7780.69	5637	405540	6991.8571	N/A	
20	10/30/2024	86.97507	10471.34	7477.55	4377.107	401000	7209.5476	N/A	
21	10/30/2024	87.89623	10468.61	7854.64	4857.951	402490	7229.5476	N/A	
22	10/30/2024	92.12215	10617.28	7649.37	5075	398050	7025.9048	N/A	
23	10/31/2024	92.15496	10563.11	7622.97	4771.591	408020	7205.7143	N/A	
24	10/31/2024	89.26936	10480.92	7154.21	4731.303	401880	7142.7857	N/A	
25	10/31/2024	91.08772	10565.12	7339.13	4726	407460	7053.7381	N/A	
26	11/1/2024	86.33891	10191.97	6162.19	4713	397170	8386.9286	N/A	
27	11/1/2024	94.73665	10581.77	7332.09	4707.412	404210	7185.1429	N/A	
28	11/1/2024	94.35732	10463.84	7597.27	4749.692	399340	7120.9286	N/A	
29	11/1/2024	92.90485	10320.81	7650.97	4954.318	403230	7133.5476	N/A	
30	11/1/2024	96.23808	10626.82	7766.95	4864.253	40290	7008.3333	N/A	
31	11/2/2024	95.91665	10583.99	7718.3	5318	400950	6994.8333	N/A	
32	11/2/2024	95.47063	10487.59	7206.05	4662.184	402860	7107.7857	N/A	
33	11/2/2024	95.80629	10487.4	7773.63	4635.436	400510	7108.7857	N/A	
34	11/2/2024	96.90483	10729.7	6655.49	4730.213	403720	7036.2857	N/A	
35	11/2/2024	96.4736	10702.06	7684.94	4808	405260	7038.7857	N/A	
36	11/3/2024	95.13199	10689.06	7440.36	4687	399450	7030.6667	N/A	
37	11/3/2024	90.43294	10394.81	7966.9	4465.615	404820	7109.2857	N/A	
38	11/3/2024	92.94973	10464.77	7519.08	4669.726	398610	7157.3095	N/A	
39	11/3/2024	96.43978	10374.57	5929.04	4929	407100	7166.5476	N/A	
40	11/3/2024	95.69839	10646.42	8209.46	4700	401370	6932.7619	N/A	
41	11/4/2024	93.35788	10661.49	8236.39	4709.883	407350	7043.881	N/A	
42	11/4/2024	88.41748	10552.29	8176.61	4275.994	400340	7054.2619	N/A	
43	11/4/2024	94.19598	10688.27	7297.24	4526.996	402250	7057.9762	N/A	
44	11/4/2024	93.9417	10661.14	7051.44	4768	403560	6938.6667	N/A	
45	11/5/2024	97.89843	10795.98	7103.67	4691	398720	6948.5476	N/A	
46	11/5/2024	97.09756	10724.52	7073.59	4629	403370	6938.5714	N/A	
47	11/5/2024	94.73458	10201.63	6819.12	4555.976	400800	7048.2381	N/A	
48	11/5/2024	96.37513	10497.75	7082.78	4432.442	399960	6971.7143	N/A	
49	11/5/2024	96.6799	9923.818	5481.27	4682	414580	7235.7143	N/A	
50	11/5/2024	92.7044	9608.344	6720.5	4487	403870	7143.2381	N/A	
51	11/6/2024	95.53889	9938.536	5276.5	4496.367	403820	7067.8095	N/A	
52	11/6/2024	96.3951	10367.85	6871.53	4228.009	399810	6989.6667	N/A	
53	11/6/2024	96.40762	9967.129	6553.45	4231.96	403170	6988.7857	N/A	
54	11/6/2024	97.17009	9878.586	6655.39	4586	415220	7261.2619	N/A	
55	11/7/2024	97.61503	9871.46	6669.53	4584	402090	7208.5238	N/A	
56	11/7/2024	96.79508	10002.25	6299.09	4239.268	406780	7069.9762	N/A	
57	11/7/2024	96.88746	9917.309	6369.45	4359.743	402210	7050.8095	N/A	
58	11/7/2024	96.28465	9752.61	6570.23	4281.016	396890	6919.381	N/A	
59	11/8/2024	96.84342	9690.341	6544.61	4682	399100	7064.9048	N/A	
60	11/8/2024	96.44025	9764.471	6256.43	4041.067	419780	7190.8095	N/A	
61	11/8/2024	97.02503	9821.046	6366.55	4065.878	416060	7167.1667	N/A	
62	11/8/2024	97.21209	9904.878	6441.07	3899.68	422020	7198.2619	N/A	
63	11/8/2024	96.75583	9803.097	6800.73	4482	417560	7271.9286	N/A	
64	11/9/2024	97.16677	9778.734	6045.47	4662	401160	7125.1667	N/A	
65	11/9/2024	96.4508	9855.817	6360.69	4030.658	399790	6979.4524	N/A	
66	11/9/2024	97.33086	9737.989	6654.9	4010.221	398340	6890.5714	N/A	
67	11/9/2024	97.20895	9722.424	6870.4	4088.189	402980	6913.619	N/A	
68	11/9/2024	96.84291	9566.179	6238.82	4587	399250	7035.2619	N/A	
69	11/10/2024	97.37275	9625.044	6202	4758	418060	7207.6905	N/A	
70	11/10/2024	97.44322	9676.604	6275.61	4125.482	400170	6906.7381	N/A	
71	11/10/2024	97.19402	9598.76	6825.31	3818.972	416640	7130	N/A	
72	11/11/2024	96.71822	9308.677	6829.03	4354	422980	7040.6667	N/A	
73	11/11/2024	96.81813	9138.711	6598.13	3939.686	423160	7050.2619	N/A	
74	11/11/2024	97.95063	9021.856	6882.22	3978.582	417420	6959.119	N/A	
75	11/12/2024	97.2144	8761.379	6472.75	4087	419740	6968.3571	N/A	
76	11/12/2024	97.74264	8829.515	6567.29	4032	422680	6562.9762	N/A	
77	11/12/2024	98.29636	8771.004	6359.76	4212	416940	6643.3333	N/A	
78	11/12/2024	97.43915	8195.683	4786.47	4785	414500	6748.6429	N/A	
79	11/13/2024	97.34488	8094.285	5079.84	4478	424980	6974.5952	N/A	
80	11/13/2024	98.36057	8678.216	6210.93	4621	422220	6846	N/A	
81	11/13/2024	97.5407	8364.856	6012.44	4330	419640	6622.8095	N/A	
82	11/13/2024	97.34683	8668.493	6222.93	4112	423460	6716.1667	N/A	
83	11/14/2024	97.68006	8446.509	6166.73	4678	399080	6519.3333	N/A	
84	11/14/2024	96.94729	8406.488	6015.99	4266	397730	6637.3333	N/A	
85	11/14/2024	97.94177	8230.301	6066.25	4856	401010	6580.5238	N/A	
86	11/14/2024	97.72312	8388.606	5943.85	4578	396600	6633.5	N/A	
87	11/15/2024	94.94482	8067.918	5641.07	4410	392680	6602.9762	N/A	
88	11/15/2024	97.1743	8225.174	5504.8	4657	397230	6897.5238	N/A	
89	11/15/2024	98.14774	8786.821	5773.8	4078.47	398040	6807.0476	N/A	
90	11/16/2024	97.10528	7691.266	4857.14	4512	385920	6741.7857	N/A	
91	11/16/2024	97.71076	8123.012	6309.56	4665.132	407640	6835.1429	N/A	
92	11/16/2024	98.58318	8116.033	5853.33	4325	416900	6866.1667	N/A	
93	11/16/2024	98.45691	8062.513	5828.03	4259	415060	6788.4048	N/A	
94	11/16/2024	99.25373	7697.305	5999.26	4124	412260	6743.2857	N/A	
AVERAGE		92.7	9.832	6.771	4.523	37,889,430	663,008	0	

RECEIVED
Office of Oil and Gas
MAY 07 2025
WV Department of
Environmental Protection

05/16/2025

EXHIBIT 3

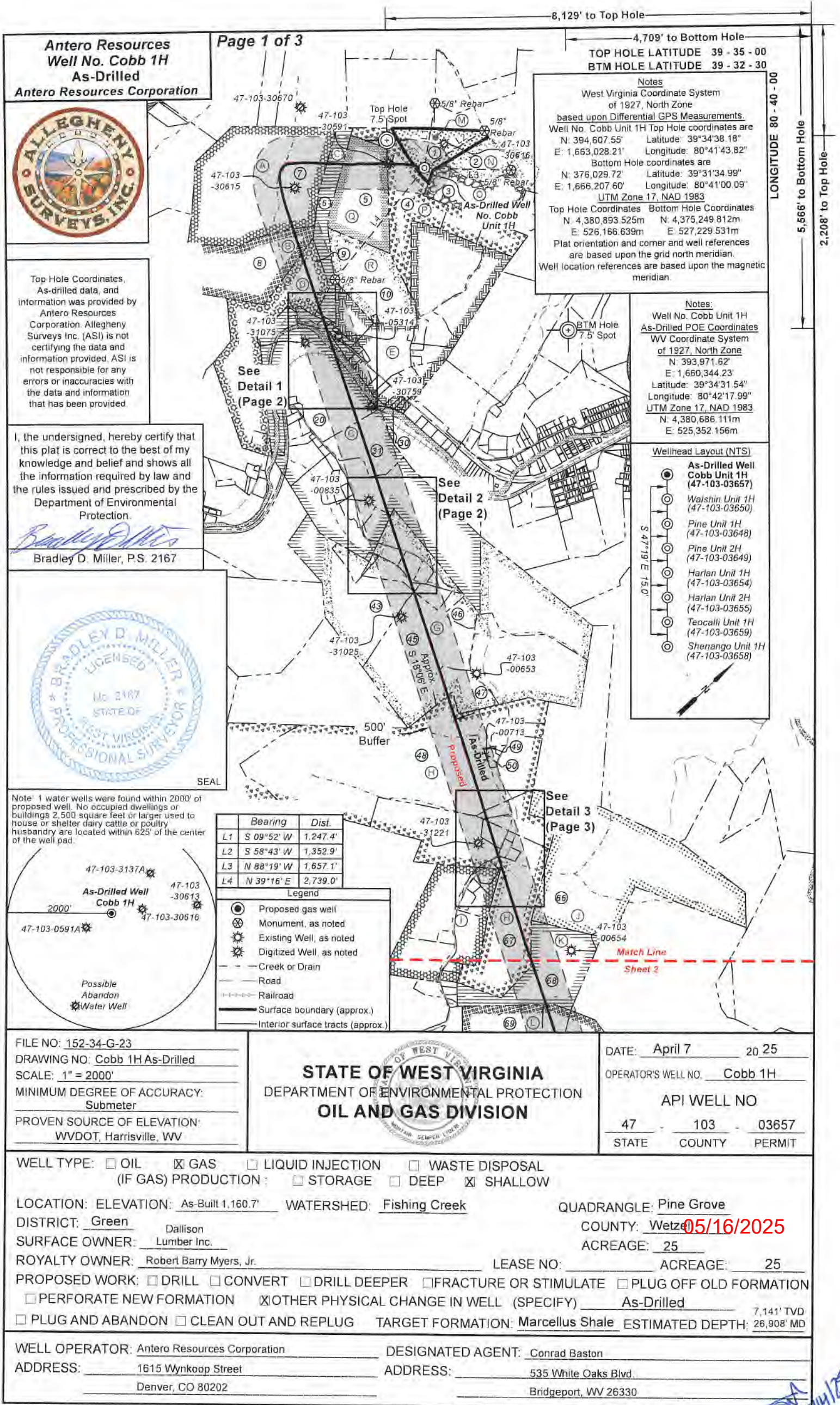
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Sandstone	370	370	370	370
Sandstone, scat MICA	570	570	570	570
Sandstone	670	670	670	670
Limestone, rr SS, tr coal	870	870	870	870
Sandstone, tr LS	970	970	970	970
Sandy Siltstone, tr LS	1,020	1,020	1,020	1,020
Silty Sandstone, tr Coal	1,320	1,320	1,320	1,320
Sandstone, rr SLTST	1,520	1,520	1,520	1,520
Silty Sandstone, occ Coal	1,670	1,670	1,670	1,670
Sandstone, com SLTST, tr mica	1,770	1,770	1,770	1,770
Sandstone, occ SLTST	1,920	1,920	1,920	1,920
Silty Sandstone	1,970	1,970	1,970	1,970
Silty Sandstone, tr Coal	2,070	2,070	2,070	2,070
Siltstone	2,120	2,120	2,120	2,120
Siltstone, tr LS	2,170	2,170	2,170	2,170
Big Lime	2,106	2,106	2,106	2,106
Fifty Foot Sandstone	2,904	2,904	2,904	2,904
Gordon	2,976	2,976	2,976	2,976
Fifth Sandstone	3,212	3,212	3,212	3,212
Bayard	3,551	3,551	3,551	3,551
Speechley	3,975	3,975	3,975	3,975
Balltown	4,116	4,116	4,116	4,116
Bradford	4,565	4,565	4,565	4,565
Benson	5,161	5,161	5,161	5,161
Alexander	5,610	5,610	5,610	5,610
Sycamore	6,651	6,651	6,651	6,651
Middlesex	6,784	6,784	6,784	6,784
Burkett	6,880	6,880	6,880	6,880
Tully	6,912	6,912	6,912	6,912
Marcellus	7,004	7,004	7,004	7,004

RECEIVED
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WV Department of
Environmental Protection

05/16/2025



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



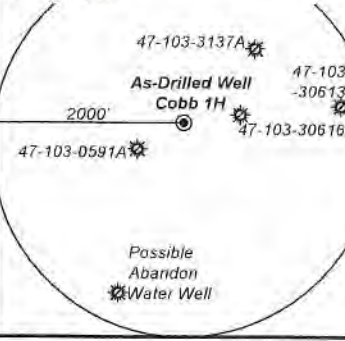
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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, P.S. 2167



Note: 1 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.



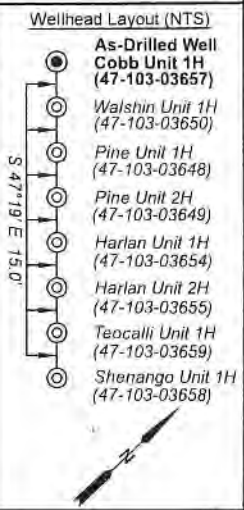
	Bearing	Dist.
L1	S 09°52' W	1,247.4'
L2	S 58°43' W	1,352.9'
L3	N 88°19' W	1,657.1'
L4	N 39°16' E	2,739.0'

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.)

Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Cobb Unit 1H Top Hole coordinates are
N: 394,607.55' Latitude: 39°34'38.18"
E: 1,663,028.21' Longitude: 80°41'43.82"
Bottom Hole coordinates are
N: 376,029.72' Latitude: 39°31'34.99"
E: 1,666,207.60' Longitude: 80°41'00.09"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,380,893.525m N: 4,375,249.812m
E: 526,166.639m E: 527,229.531m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Notes:
Well No. Cobb Unit 1H As-Drilled POE Coordinates
WV Coordinate System of 1927, North Zone
N: 393,971.62'
E: 1,660,344.23'
Latitude: 39°34'31.54"
Longitude: 80°42'17.99"
UTM Zone 17, NAD 1983
N: 4,380,686.111m
E: 525,352.156m



FILE NO: 152-34-G-23
DRAWING NO: Cobb 1H As-Drilled
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: April 7 20 25
OPERATOR'S WELL NO. Cobb 1H
API WELL NO
47 - 103 - 03657
STATE COUNTY PERMIT

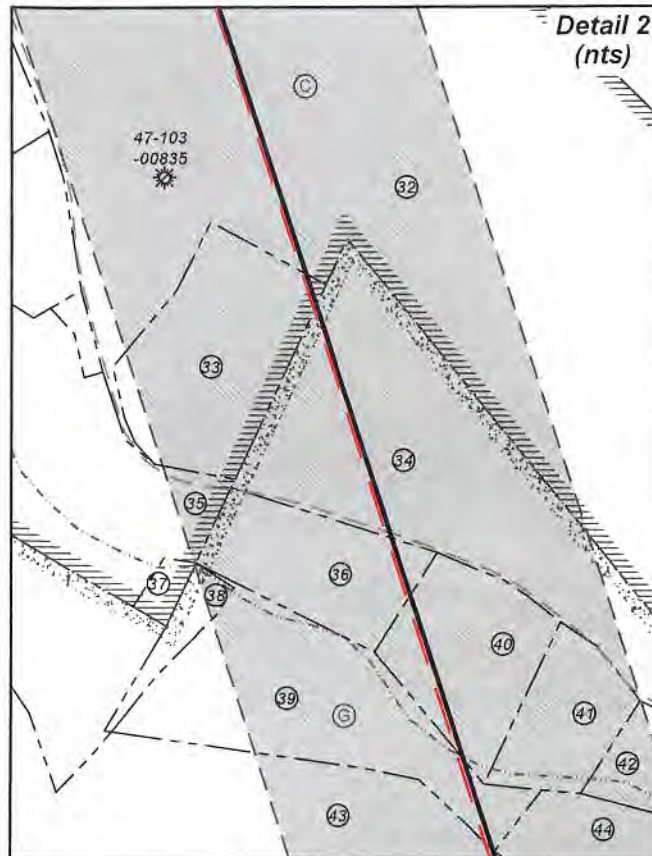
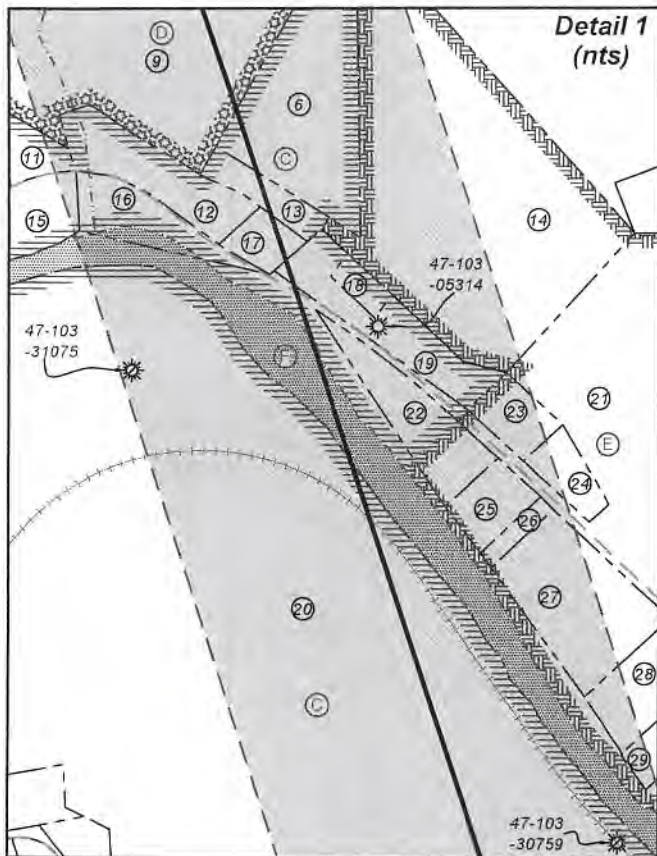
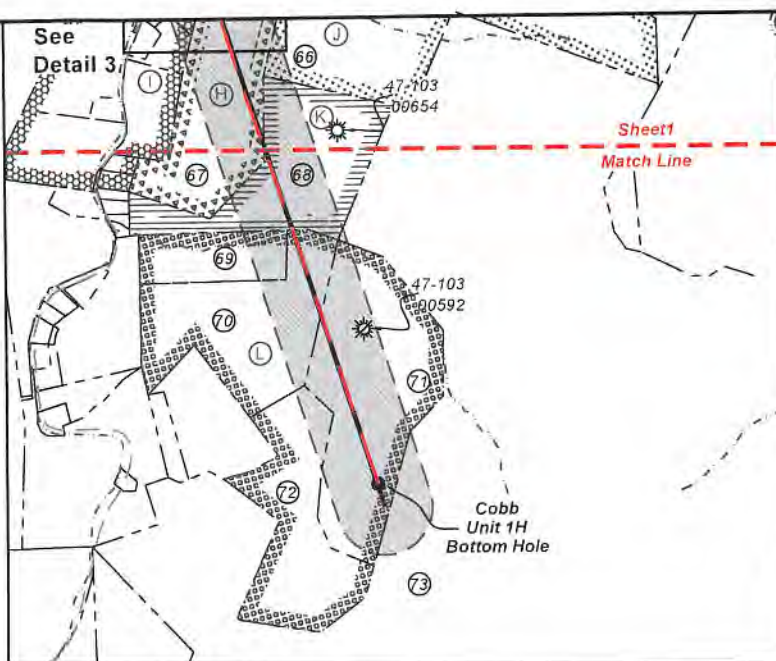
WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
DISTRICT: Green COUNTY: Wetzel
SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25
ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,141' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,908' MD

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

5/14/25



FILE NO: 152-34-G-23
DRAWING NO: Cobb 1H As-Drilled
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: April 7 20 25

OPERATOR'S WELL NO. Cobb 1H

API WELL NO

47 - 103 - 03657
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek

DISTRICT: Green
Dallison
SURFACE OWNER: Lumber Inc.

QUADRANGLE: Pine Grove

COUNTY: Wetzel 05/16/2025

ACREAGE: 25

ROYALTY OWNER: Robert Barry Myers, Jr.

LEASE NO: ACREAGE: 25

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☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,908' MD

WELL OPERATOR: Antero Resources Corporation

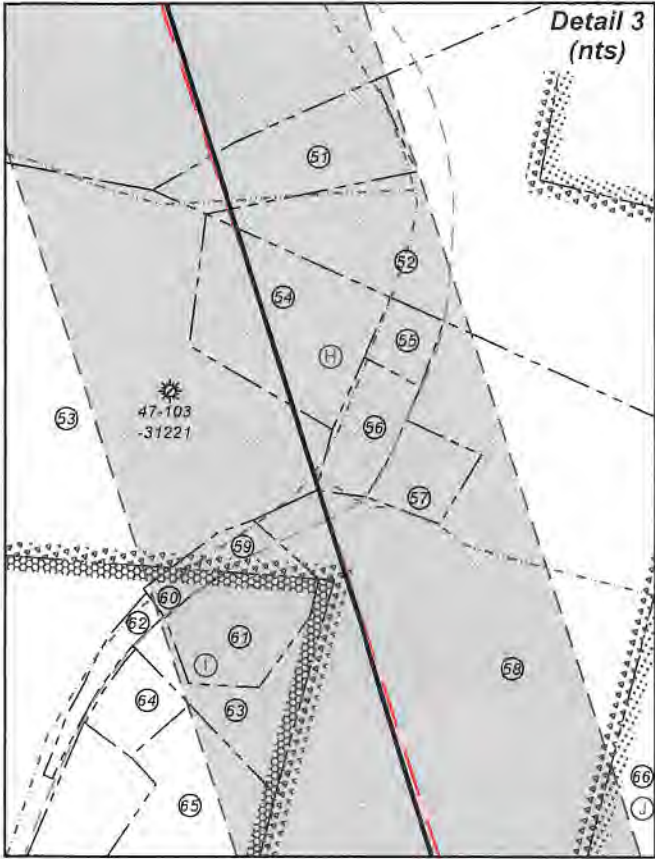
DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330



Leases	
A	Three Rivers Royalty II, LLC
B	James E. Coen, et ux
C	Chesapeake Appalachia, LLC
D	Eddie D. Dallison
E	Bounty Minerals, LLC
F	WVDNR
G	Three Rivers Royalty II, LLC
H	Thomas Cunningham, et ux
I	BRC Appalachian Minerals I, LLC
J	Ridgetop Appalachia, LLC
K	George H. & A. A. Umstead
L	T.M. Cunningham, et ux
M	Robert Barry Myers, Jr.
N	Robert Barry Myers, Jr.
O	Aunix Energy, LLC
P	Freeda Marie Brown
Q	Clarice Ann Brown LeMasters
R	Clarice Ann Brown LeMasters



ID	TM-Par	Owner	Bk/Pg	Acres
1	14-9	Dallison Lumber, Inc.	474/290	25.00
2	14-10	Sandra Jane Fortney	446/700	61.78
3	14-12	Freeda M. Brown	WB79/104	70.06
4	14-8	Clarice Ann Brown Lemasters	223/127	9.00
5	14-7	Clarice Ann Brown Lemasters	223/127	44.00
6	14-6	Antero Midstream, LLC	491/484	29.56
7	14-5	Donald L. & Myrna R. Mason	390/62	117.00
8	14-16	Antero Midstream, LLC	491/484	54.00
9	14-20	Dallison Lumber Co.	357/270	109.91
10	14-17	Clarice Ann Brown Lemasters	223/127	42.00
11	14-69	Lana R. & F. S. Null	410/472	0.50
12	14-23	Ren Realty LLC	447/844	1.4
13	14-24	Unknown	---	---
14	14-72	Joshua Curry Gump	420/795	12.16
15	14-21	Dominion Gathering & Processing, Inc.	460/781	3.20
16	14-22	Ren Realty LLC	447/844	1.25
17	14-23.1	Becky A. & Charles E. Moore, Jr.	427/232	0.50
18	14-26	Joshua Curry Gump	420/795	0.25
19	14-25	Joshua Curry Gump	420/795	0.55
20	14-36	Dominion Gathering & Processing, Inc.	460/781	57.41
21	14-30.14	Gail F. & Barbara L. Headley	384/233	20.56
22	14-27	John R. & Sheryl D. Greathouse	444/300	1.37
23	14-30.4	Eddie D. & Kim L. Dallison	444/866	0.68
24	14-30	Joshua Curry Gump	420/795	0.56
25	14-30.3	Eddie D. & Kim L. Dallison	444/866	0.33
26	14-30.12	Eddie D. & Kim L. Dallison	444/866	0.19
27	14-30.13	Gail F. & Barbara L. Headley	384/233	3.22
28	14-30.9	Joseph E. Tracy	373/192	1.32
29	14-38.2	Marilyn K. Daugherty	395/311	0.90
30	14-70	Raymond P. & Pamela J. Gaston	429/231	2.10
31	14-65	Hornet Midstream Pipeline, LLC	453/326	22.90
32	14-73	Tina D. Dallison	452/207	59.17
33	17-53	Robert & Toni Shaver	304/625	5.00
34	18-2	Michael E. Goodrich	380/383	72.83
35	14-64.11	Clara M. Haught	462/594	25.26
36	18-2.3	Heath L. Tennant	403/77	3.09
37	17-55	Michael & Cheryl Adams	350/359	0.36
38	18-2.11	Michael & Cheryl Adams	350/402	0.80
39	18-2.9	Darren P. Brown	383/436	7.45
40	18-2.6	Heath L. Tennant	403/77	3.55
41	18-2.2	Lucky A. Price & Darlene J. Price	395/124	1.90
42	18-2.8	Lucky A. Price & Darlene J. Davis-Price	423/431	2.13
43	18-2.1	Heath L. Tennant	404/26	56.85
44	18-2.12	Jeffery E. Derby & Rikki J. Miller	457/158	4.45
45	18-2.7	Howard B. & Roxie J. Rice	335/520	67.70
46	18-2.5	Howard B. & Roxie J. Rice	333/486	5.39
47	18-2.4	Andrew C. Brown, Jr.	401/340	16.19
48	18-4	Barbara D. Cunningham	291/112	212.80
49	18-4.3	Franklin & Pamela K. Cunningham	467/18	0.66
50	18-5	Franklin Cunningham	291/111	1.80
51	18-7.1	Barbara D. Cunningham	291/112	2.65
52	18-7	Tommy A. Bassett	439/617	13.35
53	18-6	Barbara D. Cunningham	291/112	56.80
54	18-6.1	Tommy A. Bassett	439/617	4.19
55	18-9.3	Herman K. & Bonita J. Ring	315/466	0.63
56	18-9.1	Herman K. & Bonita J. Ring	311/68	1.22
57	18-9.2	Charles D. Sr. & Cecelia F. Moore	436/311	1.01
58	18-9	Gordon F. Yost, et al	405/237	74.47
59	18-9.4	Brooks H. & Donna J. Hinerman	335/447	0.66
60	18-8.6	Brooks H. & Donna J. Hinerman	335/444	0.29
61	18-8.5	Brooks H. Hinerman	303/425	1.94
62	18-8.7	Brooks H. & Donna J. Hinerman	369/29	0.58
63	18-8.1	Brooks H. Hinerman	369/135	1.95
64	18-8.3	Shar-Lee R. Rogers, et al	418/719	0.89
65	18-8.8	Brooks H. & Donna J. Hinerman	369/135	5.02
66	18-10	Paul U. & Betty A. Garber Revocable Living Trust	474/722	150.00
67	18-9	Gordon F. Yost, et al	405/237	74.47
68	21-3	Dallison Lumber	419/596	50.00
69	21-6	Olga Lucille Nolan	260/264	18.20
70	21-8	Coastal Forest Resources Co.	444/105	60.70
71	21-14	Coastal Forest Resources Co.	444/105	60.00
72	21-13	Coastal Forest Resources Co.	444/105	27.70
73	4-21-3	WV Conservation Commission	207/239	5,104.5

FILE NO: 152-34-G-23
DRAWING NO: Cobb 1H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV



DATE: April 7 2025
OPERATOR'S WELL NO. Cobb 1H
API WELL NO
47 - 103 - 03657
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
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SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25
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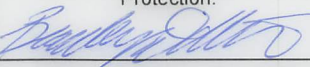
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

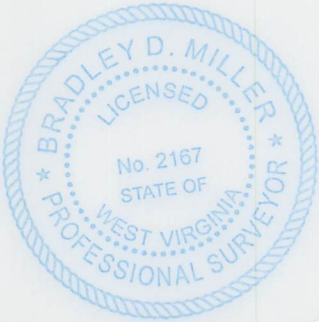
Antero Resources
Well No. Cobb 1H
As-Drilled
Antero Resources Corporation



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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, P.S. 2167


SEAL

Note: 1 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.



Page 1 of 3

8,129' to Top Hole

4,709' to Bottom Hole

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

LONGITUDE 80 - 40 - 00

5,566' to Bottom Hole

2,208' to Top Hole

Notes

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based upon Differential GPS Measurements.
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Longitude: 80°42'17.99"
UTM Zone 17, NAD 1983
N: 4,380,686.111m
E: 525,352.156m

Wellhead Layout (NTS)
As-Drilled Well Cobb Unit 1H (47-103-03657)
Walsh Unit 1H (47-103-03650)
Pine Unit 1H (47-103-03648)
Pine Unit 2H (47-103-03649)
Harlan Unit 1H (47-103-03654)
Harlan Unit 2H (47-103-03655)
Teocalli Unit 1H (47-103-03659)
Shenango Unit 1H (47-103-03658)

See Detail 1 (Page 2)

See Detail 2 (Page 2)

See Detail 3 (Page 3)

	Bearing	Dist.
L1	S 09°52' W	1,247.4'
L2	S 58°43' W	1,352.9'
L3	N 88°19' W	1,657.1'
L4	N 39°16' E	2,739.0'

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.)

Match Line

Sheet 2

FILE NO: 152-34-G-23
DRAWING NO: Cobb 1H As-Drilled
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: April 7 20 25
OPERATOR'S WELL NO. Cobb 1H
API WELL NO
47 - 103 - 03657
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove

DISTRICT: Green COUNTY: Wetzel

SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25

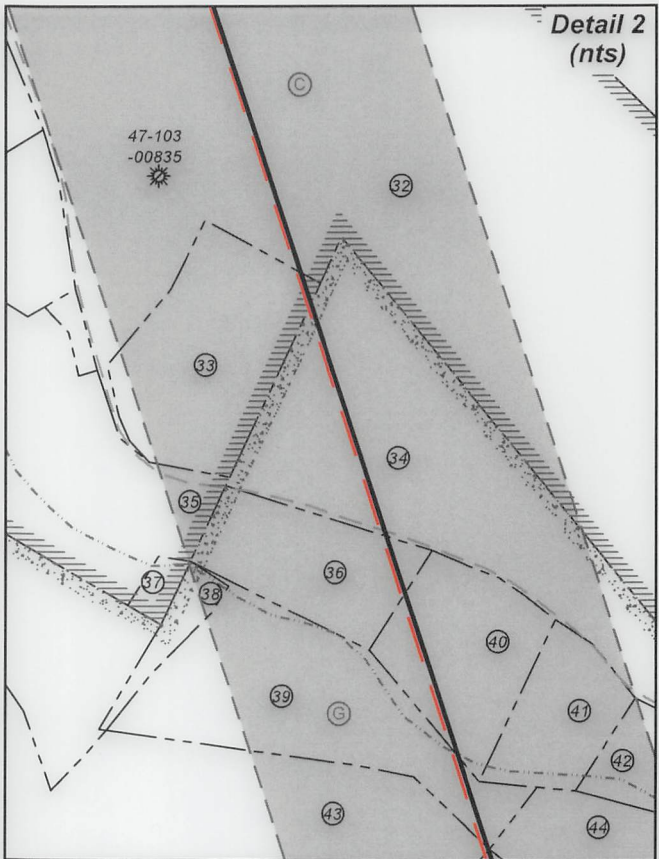
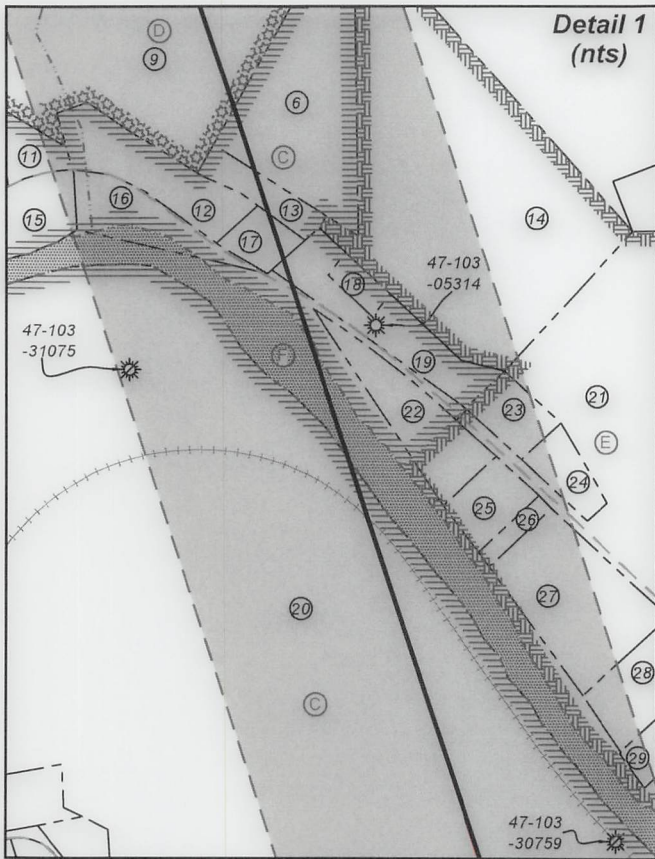
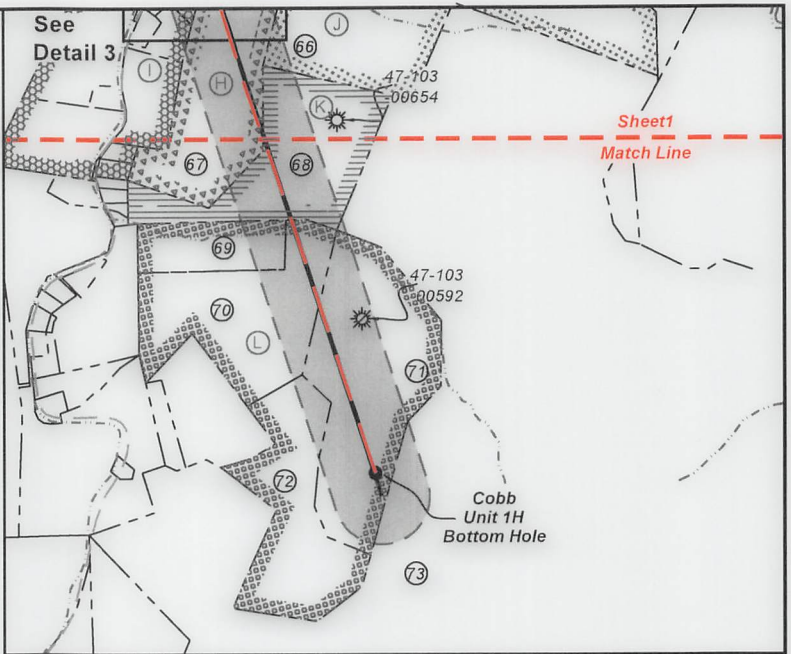
ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,141' TVD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,908' MD

WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

DESIGNATED AGENT: Conrad Baston
ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330



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PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

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



DATE: April 7 20 25
OPERATOR'S WELL NO. Cobb 1H
API WELL NO
47 - 103 - 03657
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek

DISTRICT: Green
Dallison
SURFACE OWNER: Lumber Inc.

QUADRANGLE: Pine Grove

COUNTY: Wetzel 05/16/2025

ACREAGE: 25

ROYALTY OWNER: Robert Barry Myers, Jr.

LEASE NO: ACREAGE: 25

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,141' TVD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,908' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston

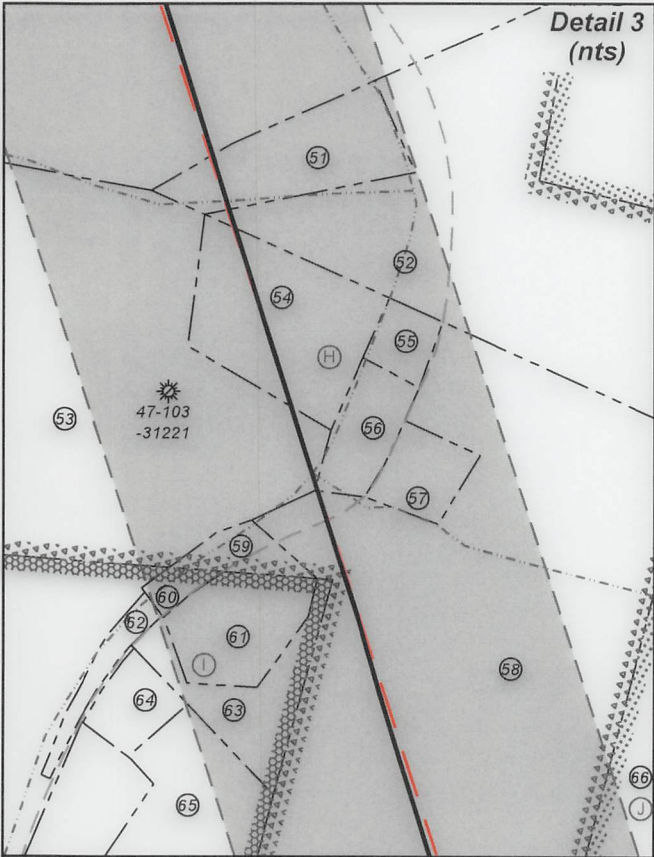
ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330



Leases	
A	Three Rivers Royalty II, LLC
B	James E. Coen, et ux
C	Chesapeake Appalachia, LLC
D	Eddie D. Dallison
E	Bounty Minerals, LLC
F	WVDNR
G	Three Rivers Royalty II, LLC
H	Thomas Cunningham, et ux
I	BRC Appalachian Minerals I, LLC
J	Ridgetop Appalachia, LLC
K	George H. & A. A. Umstead
L	T.M. Cunningham, et ux
M	Robert Barry Myers, Jr.
N	Robert Barry Myers, Jr.
O	Aunix Energy, LLC
P	Freeda Marie Brown
Q	Clarice Ann Brown LeMasters
R	Clarice Ann Brown LeMasters

ID	TM-Par	Owner	Bk/Pg	Acres
1	14-9	Dallison Lumber, Inc.	474/290	25.00
2	14-10	Sandra Jane Fortney	446/700	61.78
3	14-12	Freeda M. Brown	WB79/104	70.06
4	14-8	Clarice Ann Brown Lemasters	223/127	9.00
5	14-7	Clarice Ann Brown Lemasters	223/127	44.00
6	14-6	Antero Midstream, LLC	491/484	29.56
7	14-5	Donald L. & Myrna R. Mason	390/62	117.00
8	14-16	Antero Midstream, LLC	491/484	54.00
9	14-20	Dallison Lumber Co.	357/270	109.91
10	14-17	Clarice Ann Brown Lemasters	223/127	42.00
11	14-69	Lana R. & F. S. Null	410/472	0.50
12	14-23	Ren Realty LLC	447/844	1.4
13	14-24	Unknown	---/---	---
14	14-72	Joshua Curry Gump	420/795	12.16
15	14-21	Dominion Gathering & Processing, Inc.	460/781	3.20
16	14-22	Ren Realty LLC	447/844	1.25
17	14-23.1	Becky A. & Charles E. Moore, Jr.	427/232	0.50
18	14-26	Joshua Curry Gump	420/795	0.25
19	14-25	Joshua Curry Gump	420/795	0.55
20	14-36	Dominion Gathering & Processing, Inc.	460/781	57.41
21	14-30.14	Gail F. & Barbara L. Headley	384/233	20.56
22	14-27	John R. & Sheryl D. Greathouse	444/300	1.37
23	14-30.4	Eddie D. & Kim L. Dallison	444/866	0.68
24	14-30	Joshua Curry Gump	420/795	0.56
25	14-30.3	Eddie D. & Kim L. Dallison	444/866	0.33
26	14-30.12	Eddie D. & Kim L. Dallison	444/866	0.19
27	14-30.13	Gail F. & Barbara L. Headley	384/233	3.22
28	14-30.9	Joseph E. Tracy	373/192	1.32
29	14-38.2	Marilyn K. Daugherty	395/311	0.90
30	14-70	Raymond P. & Pamela J. Gaston	429/231	2.10
31	14-65	Hornet Midstream Pipeline, LLC	453/326	22.90
32	14-73	Tina D. Dallison	452/207	59.17
33	17-53	Robert & Toni Shaver	304/625	5.00
34	18-2	Michael E. Goodrich	380/383	72.83
35	14-64.11	Clara M. Haught	462/594	25.26
36	18-2.3	Heath L. Tennant	403/77	3.09
37	17-55	Michael & Cheryl Adams	350/359	0.36
38	18-2.11	Michael & Cheryl Adams	350/402	0.80
39	18-2.9	Darren P. Brown	383/436	7.45
40	18-2.6	Heath L. Tennant	403/77	3.55
41	18-2.2	Lucky A. Price & Darlene J. Price	395/124	1.90
42	18-2.8	Lucky A. Price & Darlene J. Davis-Price	423/431	2.13
43	18-2.1	Heath L. Tennant	404/26	56.85
44	18-2.12	Jeffery E. Derby & Rikki J. Miller	457/158	4.45
45	18-2.7	Howard B. & Roxie J. Rice	335/520	67.70
46	18-2.5	Howard B. & Roxie J. Rice	333/486	5.39
47	18-2.4	Andrew C. Brown, Jr.	401/340	16.19
48	18-4	Barbara D. Cunningham	291/112	212.80
49	18-4.3	Franklin & Pamela K. Cunningham	467/18	0.66
50	18-5	Franklin Cunningham	291/111	1.80
51	18-7.1	Barbara D. Cunningham	291/112	2.65
52	18-7	Tommy A. Bassett	439/617	13.35
53	18-6	Barbara D. Cunningham	291/112	56.80
54	18-6.1	Tommy A. Bassett	439/617	4.19
55	18-9.3	Herman K. & Bonita J. Ring	315/466	0.63
56	18-9.1	Herman K. & Bonita J. Ring	311/68	1.22
57	18-9.2	Charles D. Sr. & Cecelia F. Moore	436/311	1.01
58	18-9	Gordon F. Yost, et al	405/237	74.47
59	18-9.4	Brooks H. & Donna J. Hinerman	335/447	0.66
60	18-8.6	Brooks H. & Donna J. Hinerman	335/444	0.29
61	18-8.5	Brooks H. Hinerman	303/425	1.94
62	18-8.7	Brooks H. & Donna J. Hinerman	369/29	0.58
63	18-8.1	Brooks H. Hinerman	369/135	1.95
64	18-8.3	Shar-Lee R. Rogers, et al	418/719	0.89
65	18-8.8	Brooks H. & Donna J. Hinerman	369/135	5.02
66	18-10	Paul U. & Betty A. Garber Revocable Living Trust	474/722	150.00
67	18-9	Gordon F. Yost, et al	405/237	74.47
68	21-3	Dallison Lumber	419/596	50.00
69	21-6	Olga Lucille Nolan	260/264	18.20
70	21-8	Coastal Forest Resources Co.	444/105	60.70
71	21-14	Coastal Forest Resources Co.	444/105	60.00
72	21-13	Coastal Forest Resources Co.	444/105	27.70
73	4-21-3	WV Conservation Commission	207/239	5,104.5



FILE NO: 152-34-G-23
DRAWING NO: Cobb 1H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
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ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/23/2024
Job End Date:	11/16/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03657-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	COBB Unit 1H
Latitude:	39.577351
Longitude:	-80.695321
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7143
Total Base Water Volume (gal)*:	29684647
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

RECEIVED
Office of Oil and Gas
MAY 07 2025
WV Department of
Environmental Protection

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
Excelerate LX-21	Halliburton	Friction Reducer					
FDP-S1470-23	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 28%	Halliburton	Solvent					
LCA-1	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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WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	87.12723	None
			Crystalline silica, quartz	14808-60-7	100.00000	12.63740	None
			Water	7732-18-5	100.00000	0.19170	None
			Hydrochloric acid	7647-01-0	30.00000	0.04634	None
			Complex amine compound	Proprietary	60.00000	0.02286	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	0.01709	None
			Hydrotreated distillate	Proprietary	100.00000	0.01143	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00855	None
			Guar gum	9000-30-0	100.00000	0.00565	None
			Ammonium chloride	12125-02-9	5.00000	0.00333	None
			Glutaraldehyde	111-30-8	30.00000	0.00250	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00190	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00190	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00142	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00142	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00067	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00042	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00038	None
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00028	None
			Methanol	67-56-1	100.00000	0.00023	None
			Ammonium persulfate	7727-54-0	100.00000	0.00014	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

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			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)

05/16/2025