

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

API 47 - 103 - 03614 County Wetzel District Green
Quad Pine Grove 7.5' Pad Name Cedar Field/Pool Name -----
Farm name Dallison Lumber Company Well Number Gowland 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 4379816.237m Easting 524586.384m
Landing Point of Curve Northing 4379292.99m Easting 524747.02m
Bottom Hole Northing 4374332.611m Easting 526476.704m

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

Date permit issued 10/4/2023 Date drilling commenced 11/1/2023 Date drilling ceased 1/20/2024
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

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APPROVED
Reviewed by: [Signature]
01/17/2025
11/19/24

API 47-103 - 03614 Farm name Dallison Lumber Company Well number Gowland 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"	730'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3532'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	26066'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7165'		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	209 sx	15.6	1.18	247	0'	8 Hrs.
Surface	Class C	685 sx	15.8	1.16	795	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1230 sx	15.8	1.16	1427	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4540 sx (Tail)	13.5 (Spacer), 15.2 (Lead)	1.30 (Tail)	5902	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 26066' MD, 7208' TVD (BHL), 7208' TVD (Deepest Point Drilled) Loggers TD (ft) 26036' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6210'

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

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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

01/17/2025 

API 47-103-03614 Farm Name Dallison Lumber Company Well Number Gowland Unit 1H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/6/2024	25938	25894	33	Marcellus
2	4/7/2024	25855.46196	25689.7717	33	Marcellus
3	4/7/2024	25654.2337	25488.5435	33	Marcellus
4	4/8/2024	25453.00543	25287.3152	33	Marcellus
5	4/8/2024	25251.77717	25086.087	33	Marcellus
6	4/9/2024	25050.54891	24884.8587	33	Marcellus
7	4/9/2024	24849.32065	24683.6304	33	Marcellus
8	4/10/2024	24648.09239	24482.4022	33	Marcellus
9	4/10/2024	24446.86413	24281.1739	33	Marcellus
10	4/11/2024	24245.63587	24079.9457	33	Marcellus
11	4/12/2024	24044.40761	23878.7174	33	Marcellus
12	4/12/2024	23843.17935	23677.4891	33	Marcellus
13	4/13/2024	23641.95109	23476.2609	33	Marcellus
14	4/13/2024	23440.72283	23275.0326	33	Marcellus
15	4/14/2024	23239.49457	23073.8043	33	Marcellus
16	4/14/2024	23038.2663	22872.5761	33	Marcellus
17	4/14/2024	22837.03804	22671.3478	33	Marcellus
18	4/15/2024	22635.80978	22470.1196	33	Marcellus
19	4/15/2024	22434.58152	22268.8913	33	Marcellus
20	4/15/2024	22233.35326	22067.663	33	Marcellus
21	4/16/2024	22032.125	21866.4348	33	Marcellus
22	4/16/2024	21830.89674	21665.2065	33	Marcellus
23	4/16/2024	21629.66848	21463.9783	33	Marcellus
24	4/17/2024	21428.44022	21262.75	33	Marcellus
25	4/17/2024	21227.21196	21061.5217	33	Marcellus
26	4/17/2024	21025.9837	20860.2935	33	Marcellus
27	4/18/2024	20824.75543	20659.0652	33	Marcellus
28	4/18/2024	20623.52717	20457.837	33	Marcellus
29	4/21/2024	20422.29891	20256.6087	33	Marcellus
30	4/21/2024	20221.07065	20055.3804	33	Marcellus
31	4/23/2024	20019.84239	19854.1522	33	Marcellus
32	4/23/2024	19818.61413	19652.9239	33	Marcellus
33	4/24/2024	19617.38587	19451.6957	33	Marcellus
34	4/25/2024	19416.15761	19250.4674	33	Marcellus
35	4/26/2024	19214.92935	19049.2391	33	Marcellus
36	4/27/2024	19013.70109	18848.0109	33	Marcellus
37	4/27/2024	18812.47283	18646.7826	33	Marcellus
38	4/29/2024	18611.24457	18445.5543	33	Marcellus
39	4/30/2024	18410.0163	18244.3261	33	Marcellus
40	4/30/2024	18208.78804	18043.0978	33	Marcellus
41	5/1/2024	18007.55978	17841.8696	33	Marcellus
42	5/2/2024	17806.33152	17640.6413	33	Marcellus
43	5/3/2024	17605.10326	17439.413	33	Marcellus
44	5/4/2024	17403.875	17238.1848	33	Marcellus
45	5/5/2024	17202.64674	17036.9565	33	Marcellus
46	5/5/2024	17001.41848	16835.7283	33	Marcellus
47	5/6/2024	16800.19022	16634.5	33	Marcellus
48	5/6/2024	16598.96196	16433.2717	33	Marcellus
49	5/7/2024	16397.7337	16232.0435	33	Marcellus
50	5/7/2024	16196.50543	16030.8152	33	Marcellus
51	5/8/2024	15995.27717	15829.587	33	Marcellus
52	5/8/2024	15794.04891	15628.3587	33	Marcellus
53	5/9/2024	15592.82065	15427.1304	33	Marcellus
54	5/9/2024	15391.59239	15225.9022	33	Marcellus
55	5/9/2024	15190.36413	15024.6739	33	Marcellus
56	5/10/2024	14989.13587	14823.4457	33	Marcellus
57	5/10/2024	14787.90761	14622.2174	33	Marcellus
58	5/11/2024	14586.67935	14420.9891	33	Marcellus
59	5/11/2024	14385.45109	14219.7609	33	Marcellus
60	5/11/2024	14184.22283	14018.5326	33	Marcellus
61	5/12/2024	13982.99457	13817.3043	33	Marcellus
62	5/12/2024	13781.7663	13616.0761	33	Marcellus
63	5/12/2024	13580.53804	13414.8478	33	Marcellus
64	5/13/2024	13379.30978	13213.6196	33	Marcellus
65	5/13/2024	13178.08152	13012.3913	33	Marcellus
66	5/14/2024	12976.85326	12811.163	33	Marcellus
67	5/14/2024	12775.625	12609.9348	33	Marcellus
68	5/14/2024	12574.39674	12408.7065	33	Marcellus
69	5/15/2024	12373.16848	12207.4783	33	Marcellus
70	5/15/2024	12171.94022	12006.25	33	Marcellus
71	5/16/2024	11970.71196	11805.0217	33	Marcellus
72	5/16/2024	11769.4837	11603.7935	33	Marcellus
73	5/16/2024	11568.25543	11402.5652	33	Marcellus
74	5/17/2024	11367.02717	11201.337	33	Marcellus
75	5/17/2024	11165.79891	11000.1087	33	Marcellus
76	5/17/2024	10964.57065	10798.8804	33	Marcellus
77	5/18/2024	10763.34239	10597.6522	33	Marcellus
78	5/18/2024	10562.11413	10396.4239	33	Marcellus
79	5/19/2024	10360.88587	10195.1957	33	Marcellus
80	5/19/2024	10159.65761	9993.96739	33	Marcellus
81	5/19/2024	9958.429348	9792.73913	33	Marcellus
82	5/20/2024	9757.201087	9591.51087	33	Marcellus
83	5/20/2024	9555.972826	9390.28261	33	Marcellus
84	5/20/2024	9354.744565	9189.05435	33	Marcellus
85	5/21/2024	9153.516304	8987.82609	33	Marcellus
86	5/21/2024	8952.288043	8786.59783	33	Marcellus
87	5/21/2024	8751.059783	8585.36957	33	Marcellus
88	5/22/2024	8549.831522	8384.1413	33	Marcellus
89	5/22/2024	8348.603261	8182.91304	33	Marcellus
90	5/22/2024	8147.375	7981.68478	33	Marcellus
91	5/23/2024	7946.146739	7780.45652	33	Marcellus
92	5/24/2024	7744.918478	7579.22826	33	Marcellus
93	5/24/2024	7543.690217	7378	33	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	74.63594	9668.656	6754.94	3810.194	166520	5146.5952	N/A
2	4/7/2024	85.92213	10236.27	7133.49	4245.348	420920	7330.8571	N/A
3	4/7/2024	85.51448	10334.71	7416.98	4983	416940	7374.7143	N/A
4	4/8/2024	90.77638	10522.5	7056.9	4331.772	404310	6934.8095	N/A
5	4/8/2024	87.22328	10543.56	7690.62	4876	399190	7255.4762	N/A
6	4/9/2024	88.01487	10518.98	6793.25	4283.709	417900	7099.9286	N/A
7	4/9/2024	89.3567	10432.98	7289.4	4435.472	405180	7015.6667	N/A
8	4/10/2024	83.44555	10582.59	7162.52	4522.072	402220	6835.5	N/A
9	4/10/2024	89.14663	10564.89	7071.99	4381	399300	7167.9524	N/A
10	4/11/2024	89.77849	10625.48	7131.72	4111.424	418460	7295.5952	N/A
11	4/12/2024	90.11015	10665.57	7376.29	4618.333	421980	7347.0952	N/A
12	4/12/2024	85.60549	10298.49	7109.17	4605.935	413640	7134.0952	N/A
13	4/13/2024	93.16766	10689.21	7301.53	4157.694	413180	7235.5	N/A
14	4/13/2024	84.30353	10392.52	7216.15	4316.348	415080	7363.9524	N/A
15	4/14/2024	90.53789	10536.4	7595.86	4175.423	414120	7230.0952	N/A
16	4/14/2024	94.14074	10488.52	6895.5	4437.358	404360	7300.4524	N/A
17	4/14/2024	91.70702	10518.79	7293.7	4057.351	418040	7299.7857	N/A
18	4/15/2024	91.53367	10636.8	6764.58	4182.821	418480	7303.1905	N/A
19	4/15/2024	92.63825	10356.33	6927.03	4378.778	416780	7267.9286	N/A
20	4/15/2024	93.27175	10512.12	7173.15	4516.097	415740	7127.0238	N/A
21	4/16/2024	94.54335	10589.86	6573.8	4143.226	420020	7103.6667	N/A
22	4/16/2024	89.50177	10444.74	10632.31	4394.508	417860	7032.2381	N/A
23	4/16/2024	93.24778	10474.58	7460.43	4391.541	421700	7197.4762	N/A
24	4/17/2024	95.00508	10475.92	7571.61	4498.517	417520	7257.381	N/A
25	4/17/2024	89.93248	10360.29	7316.03	3923.249	409420	7139.5238	N/A
26	4/17/2024	92.01081	10559.34	7443.14	4216.491	418940	7094.2381	N/A
27	4/18/2024	92.13589	10470.81	7476.56	4253.169	415220	7079.619	N/A
28	4/18/2024	94.25449	10430.04	7109.4	4070.341	379180	6724.2857	N/A
29	4/21/2024	95.71275	10406.22	7152.02	4481	412520	7230.1905	N/A
30	4/21/2024	93.37114	10448.77	7768.07	4438	418300	7161.6905	N/A
31	4/23/2024	79.2985	9934.975	7358.2	4482	431580	14695.429	N/A
32	4/23/2024	91.82543	10303.7	6994.59	4587.823	412020	7679.0714	N/A
33	4/24/2024	83.88505	10308.65	7009.97	4236.878	418620	7635.6429	N/A
34	4/25/2024	88.80921	10450.06	7102.93	3947.796	415460	7393.7857	N/A
35	4/26/2024	91.83385	10081.96	6131.77	4471.045	412400	7714.3571	N/A
36	4/27/2024	89.15843	10444.14	7160.66	4104.181	418760	7721.6667	N/A
37	4/27/2024	94.94887	10256.97	6399.75	4490.817	398450	8037.881	N/A
38	4/29/2024	97.3778	10424.38	7039.49	4040.834	422660	7692.8333	N/A
39	4/30/2024	91.46489	9611.096	7350.15	4255.848	402160	7460.4048	N/A
40	4/30/2024	91.56826	9964.736	7735.92	4139.539	411720	7386.6429	N/A
41	5/1/2024	93.4626	9968.3	6907.39	4185.695	418980	7424.619	N/A
42	5/2/2024	92.17603	10011.14	7269.83	4272	416660	7761.9286	N/A
43	5/3/2024	92.9084	9901.444	7783.57	4080.998	414520	7582.7381	N/A
44	5/4/2024	93.23224	9714.389	6994.21	4123.01	416460	7125.5238	N/A
45	5/5/2024	87.63503	9323.838	7579.75	4336.094	418360	7481.2857	N/A
46	5/5/2024	87.2154	9313.441	7259.6	4367	414700	7600.9286	N/A
47	5/6/2024	90.15106	9241.695	6841.23	4139.965	421460	7372.0476	N/A
48	5/6/2024	92.38483	9732.628	7020.93	4683	421360	7475.5238	N/A
49	5/7/2024	93.18104	9415.714	6981.59	4664	416620	7364.4048	N/A
50	5/7/2024	91.85631	9375.519	7915.72	4052.635	413340	7266.9286	N/A
51	5/8/2024	95	9477	7754.13	4597	419220	7181.4762	N/A
52	5/8/2024	97.30764	9482.73	6942.39	4514	419600	7067.6429	N/A
53	5/9/2024	97.08266	9078.063	7112.09	4232.255	403800	7862.7381	N/A
54	5/9/2024	91.50992	9464.349	8194.6	4591	401270	7087.6667	N/A
55	5/9/2024	95.0275	9036.83	7610.15	4252.595	410800	7281.2381	N/A
56	5/10/2024	96.42686	9360.882	7087.11	4448	418920	7006.6667	N/A
57	5/10/2024	96.37127	9409.738	6144.38	4236	417440	7445.1905	N/A
58	5/11/2024	92.90678	9339.659	6773.68	4349.334	416080	7241.2381	N/A
59	5/11/2024	96.44353	9095.519	6278.91	4629	410900	7277.0238	N/A
60	5/11/2024	94.63902	8878.886	6334.1	4391	418580	7357.7857	N/A
61	5/12/2024	96.54786	9017.963	6506.06	4215.729	394430	6939.6905	N/A
62	5/12/2024	96.54724	9043	6518.03	4053	413830	7117.381	N/A
63	5/12/2024	94.43	9083	6856.71	4250.984	418180	7066.0476	N/A
64	5/13/2024	96.5115	9041.22	5838.48	4150	419340	7380.4524	N/A
65	5/13/2024	95.92739	8896.357	6020.06	4076.697	399780	6979.381	N/A
66	5/14/2024	96.53961	8888.84	6536.51	4172.657	400030	7098.5952	N/A
67	5/14/2024	97.57842	8960.161	6121.22	4233.374	400620	6952.9286	N/A
68	5/14/2024	97.37409	8888.761	6282.98	4139.765	420680	7465.0238	N/A
69	5/15/2024	96.47766	8757.21	6476.87	4037.57	417720	7185.1429	N/A
70	5/15/2024	96.90442	8940.078	6561.45	3889.467	421210	7144.4286	N/A
71	5/16/2024	96.91583	8639.025	6186.8	3893.778	413160	6984.6429	N/A
72	5/16/2024	97.1378	8699.074	6115.31	4014.092	421360	7214.1905	N/A
73	5/16/2024	97.97111	8639.369	6254.34	3894.94	422240	7523.2143	N/A
74	5/17/2024	97.61306	8377.215	6202.87	4138.789	419520	7435.2857	N/A
75	5/17/2024	97.71197	8330.072	5861.1	4163.045	418020	7184.2143	N/A
76	5/17/2024	96.87794	8505.688	6667.84	4003.183	416960	6997.5952	N/A
77	5/18/2024	97.39401	8244.142	6219.36	4141.921	415680	7308.7857	N/A
78	5/18/2024	96.29867	8638.665	7757.76	4070.568	414920	7176.9048	N/A
79	5/19/2024	97.78941	8150.55	5862.36	4257	423488	7121.4048	N/A
80	5/19/2024	97.01735	8260.765	6611.44	4303	413360	7168	N/A
81	5/19/2024	98.38035	8126.607	6237.71	4192.52	418760	7229.2857	N/A
82	5/20/2024	98.75224	8304.844	6124.74	4006	419680	7270.4286	N/A
83	5/20/2024	97.86803	8190.782	6414.49	4213	414080	7005.0476	N/A
84	5/20/2024	98.36471	8138.05	5938.99	4150	423400	7313.5	N/A
85	5/21/2024	98.59402	8088.285	6634.25	3976.948	420860	7228.1667	N/A
86	5/21/2024	97.61815	7725.268	6034.17	3932	420800	7070.0238	N/A
87	5/21/2024	98.04362	7493.803	6184.63	4031	414560	6746.2857	N/A
88	5/22/2024	97.92937	7837.689	6545.62	4358	420280	6997.5476	N/A
89	5/22/2024	97.84897	7697.916	6281.18	4043	410540	7036.0238	N/A
90	5/22/2024	97.08745	7807.734	6766.24	3884.409	415240	6889.0476	N/A
91	5/23/2024	97.61294	7718.458	6567.85	3958.771	416440	7012.7619	N/A
92	5/24/2024	92.35483	7592.097	5900.05	4378	424860	9787.0952	N/A
93	5/24/2024	97.56107	7437.271	5760.81	3947.045	423920	6993	N/A
AVERAGE		93.3	9,466	6,899	4,265	38,313,868	681,790	0

RECEIVED
Office of Oil and Gas

OCT 02 2024

WV Department of
Environmental Protection

01/17/2025

EXHIBIT 3

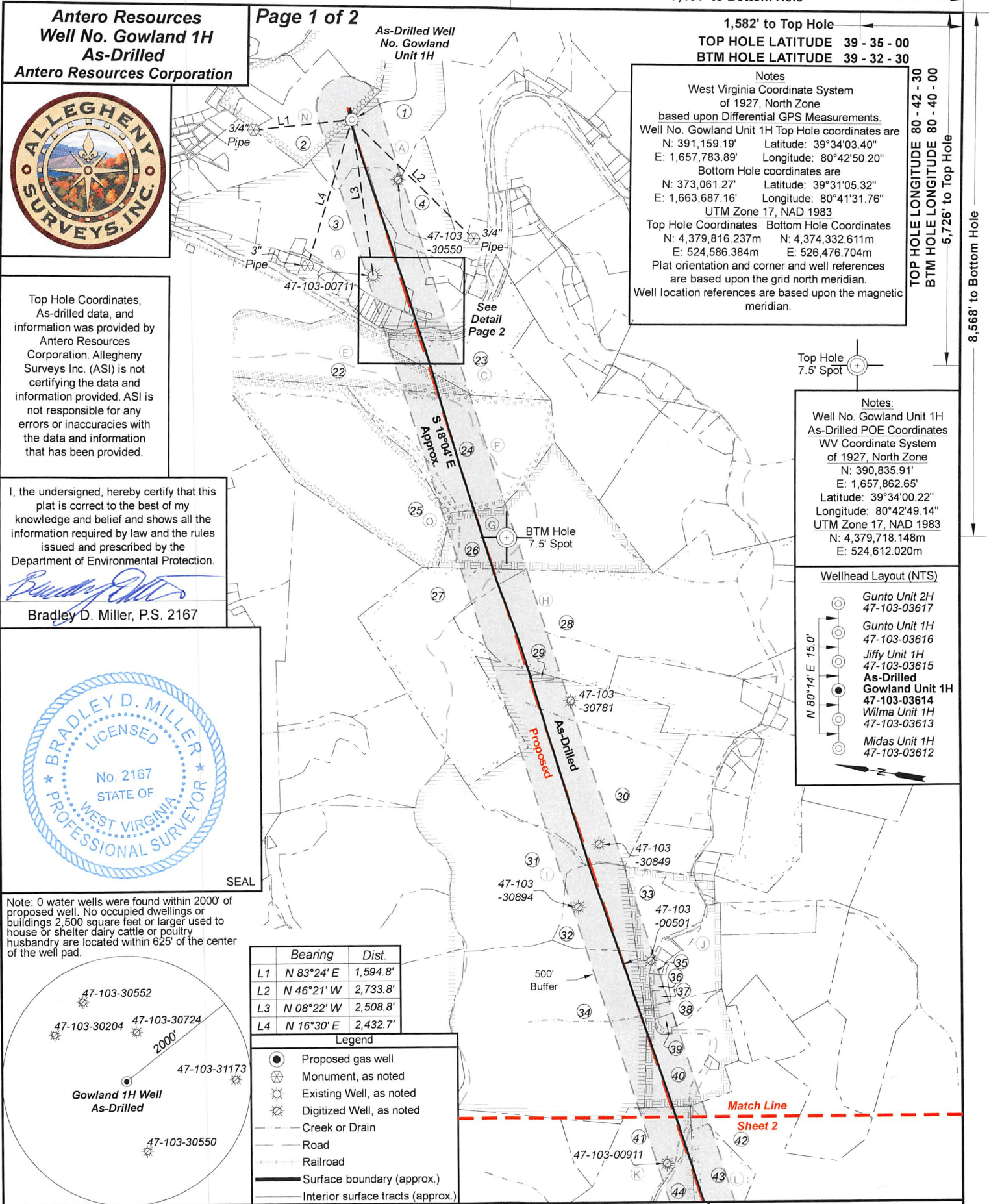
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Sandy Siltstone, LS	100	320	100	320
Shaley Siltstone, tr LS	320	370	320	370
Sandy Shale	370	620	370	620
Siltstone, Occ SS, tr Shale, tr Coal	470	820	470	820
Sandy 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
Siltly 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	2,164	2,020	2,164
Big Lime	2,194	2,998	2,164	2,998
Fifty Foot Sandstone	2,998	3,058	2,968	3,058
Gordon	3,058	3,303	3,028	3,303
Fifth Sandstone	3,303	3,650	3,273	3,650
Bayard	3,650	4,020	3,620	4,020
Speechley	4,020	4,169	3,990	4,169
Balltown	4,169	4,652	4,139	4,652
Bradford	4,652	5,255	4,622	5,256
Benson	5,255	5,684	5,226	5,691
Alexander	5,684	6,894	5,661	6,948
Sycamore	6,730	6,864	6,759	6,918
Middlesex	6,864	6,962	6,918	7,059
Burkett	6,962	6,993	7,059	7,114
Tully	6993	7078	7114	7326
Marcellus	7078	NA	7326	NA

RECEIVED
Office of Oil and Gas

OCT 02 2024

WV Department of
Environmental Protection

01/17/2025



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

Page 1 of 2

As-Drilled Well
 No. Gowland
 Unit 1H

7,191' to Bottom Hole
 1,582' to Top Hole
TOP HOLE LATITUDE 39 - 35 - 00
BTM HOLE LATITUDE 39 - 32 - 30



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Gowland Unit 1H Top Hole coordinates are N: 391,159.19' Longitude: 80°42'50.20" E: 1,657,783.89' Bottom Hole coordinates are N: 373,061.27' Longitude: 39°31'05.32" E: 1,663,687.16' UTM Zone 17, NAD 1983 Top Hole Coordinates Bottom Hole Coordinates N: 4,379,816.237m N: 4,374,332.611m E: 524,586.384m E: 526,476.704m Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

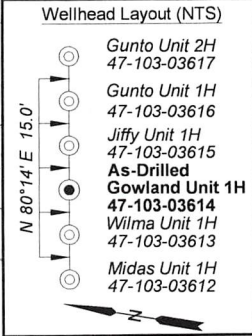
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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.

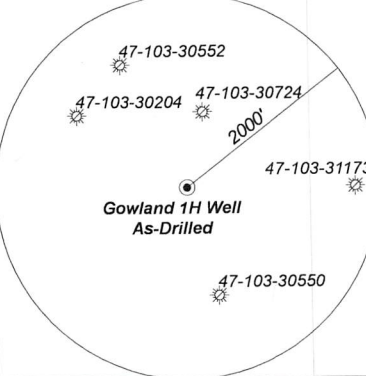
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Notes:
 Well No. Gowland Unit 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone N: 390,835.91' E: 1,657,862.65' Longitude: 80°42'49.14" UTM Zone 17, NAD 1983 N: 4,379,718.148m E: 524,612.020m



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°24' E	1,594.8'
L2 N 46°21' W	2,733.8'
L3 N 08°22' W	2,508.8'
L4 N 16°30' E	2,432.7'

- 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.)

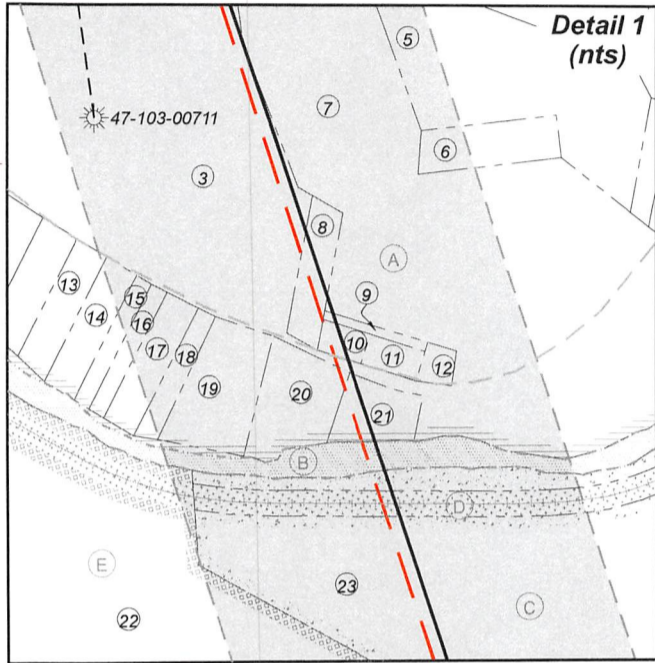
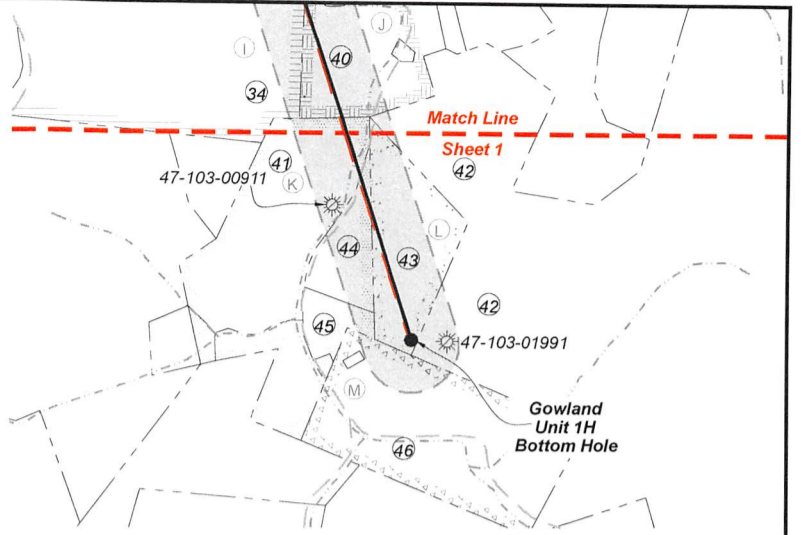
FILE NO: 122-34-G-18
 DRAWING NO: Gowland 1H As-Drilled Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: September 9 20 24
 OPERATOR'S WELL NO. Gowland 1H
 API WELL NO
 47 - 103 - 03614
 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 Dallison Lumber COMPANY: Wetzel COUNTY: Wetzel
 SURFACE OWNER: Company ACREAGE: 51.5
 ROYALTY OWNER: Jenkins Miller LEASE NO: ACREAGE: 200
 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: 26,066' MD 7,208' 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	Coastal Forest Resources Co.
D	CSX Transportation, Inc.
E	Tribune Resources Minerals, LLC
F	Jeffrey T. Hayes
G	Tribune Resources Minerals, LLC
H	Thomas Cunningham, et ux
I	Shiben Estates Inc.
J	Shiben Estates Inc.
K	Louisa J. Fluharty
L	Paul J. Shiben, et al
M	Rachel Wright, et al
N	Antero Minerals, LLC
O	Shiben Estates Inc.

ID	TM-Par	Owner	Bk/Pg	Acres
1	14-19	Dallison Lumber Company	357/267	51.50
2	13-40	Kenneth E. & Vicky A. VanDyne	357/204	42.33
3	13-83	Emma Virginia Miller	133/455	58.00
4	14-34	Dearld T. Mason	292/646	41.00
5	14-42	Karen King, et al	WB96/811	2.87
6	14-41	Amy J. Byard	389/385	1.00
7	14-60	Amy J. Byard	389/385	21.25
8	14-58.1	George Washington Cain, Jr.	428/922	0.75
9	14-59	Garnet Gas Corporation	406/398	0.15
10	14-58	George Washington Cain, Jr.	428/922	0.23
11	14-59.1	Paula N. Quinn	386/474	0.27
12	14-61	Paula Nell Quinn	368/98	0.21
13	14-52	Michael T. & Mildred L. Quinn	483/885	0.75
14	14-53	David Jack & Tonya Michelle Stout	370/158	0.75
15	14-54	David Jack & Tonya Michelle Stout	370/158	0.48
16	14-55	James Allen & Andrea N. Sell	333/134	0.50
17	14-56	James Allen & Andrea N. Sell	333/134	0.73
18	14-57	James Allen & Andrea N. Sell	333/134	0.31
19	17-6	Phillip Dennison	442/24	1.71
20	17-9	Norma King	418/712	1.00
21	17-8	Anthony & Antonia Hupp	432/30	0.70
22	17-5	Coastal Forest Resources	444/105	90.00
23	17-10	Coastal Forest Resources	444/105	90.00
24	17-21	Pauline E. Hayes	420/626	83.30
25	17-20	Heartland Forest Land Fund VII LP	431/936	123.50
26	17-32	Pauline E. Hayes	420/626	79.25
27	17-40	Heartland Forest Land Fund VII LP	431/936	120.00
28	18-4	Barbara D. Cunningham	291/112	212.80
29	17-41	Heartland Forest Land Fund VII, LP	431/936	0.94
30	17-51	Linda K. Ice & Harry G. Witcherman Jr.	WB66/545	156.00
31	20-46	Sara Ruth Cool & Peggy Ann Dawson Supplemental Needs Trust	471/207	107.1
32	20-48	Charles R. Kuhn & William J. Shrum	411/688	30.00
33	21-4	Michael & Janet Miller	282/45	23.06
34	20-15	Coastal Forest Resources Co.	444/105	198.00
35	21-7.1	Robert D. & Gloria Fluharty	296/83	1.33
36	21-7.3	Roger D. & Janet Fluharty	296/89	1.53
37	21-7.6	Roger & Janet Fluharty	436/803	1.83
38	21-7.7	Robert & Gloria Fluharty	436/808	5.44
39	21-7.9	Charles Fluharty	439/535	1.97
40	21-9	Kyle R. & Lauren Fluharty	439/308	45.90
41	21-15	Douglas & Debra Williams	385/159	57.06
42	21-3	State of WV	207/239	5228.5
43	21-17	Coastal Forest Resources	444/105	47.00
44	21-16.2	Ascent Resources Marcellus	448/247	14.56
45	21-16	Christopher & Kimberly Campbell	405/756	6.71
46	21-21	Sanford Joe Haught	423/709	83.00

FILE NO: 122-34-G-18
 DRAWING NO: Gowland 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. Gowland 1H
 API WELL NO
 47 - 103 - 03614
 STATE COUNTY PERMIT

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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,066' MD 7,208' 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

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

Page 1 of 2

As-Drilled Well
 No. Gowland
 Unit 1H

7,191' to Bottom Hole

1,582' to Top Hole
 TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

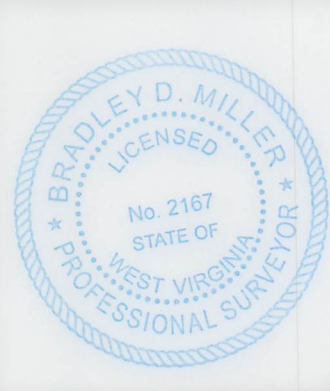


Notes
 West Virginia Coordinate System
 of 1927, North Zone
 based upon Differential GPS Measurements.
 Well No. Gowland Unit 1H Top Hole coordinates are
 N: 391,159.19' Longitude: 80°42'50.20"
 E: 1,657,783.89' Longitude: 80°41'31.76"
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 Top Hole Coordinates Bottom Hole Coordinates
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 E: 524,586.384m E: 526,476.704m
 Plat orientation and corner and well references
 are based upon the grid north meridian.
 Well location references are based upon the magnetic
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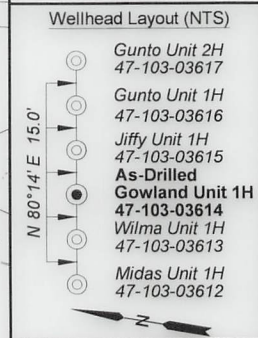
Top Hole Coordinates,
 As-drilled data, and
 information was provided by
 Antero Resources
 Corporation. Allegany
 Surveys Inc. (ASI) is not
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I, the undersigned, hereby certify that this
 plat is correct to the best of my
 knowledge and belief and shows all the
 information required by law and the rules
 issued and prescribed by the
 Department of Environmental Protection.

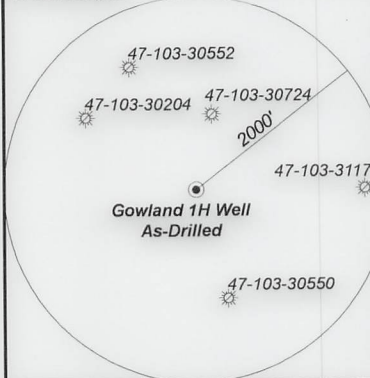
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Notes:
 Well No. Gowland Unit 1H
 As-Drilled POE Coordinates
 WV Coordinate System
 of 1927, North Zone
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 E: 1,657,862.65'
 Latitude: 39°34'00.22"
 Longitude: 80°42'49.14"
 UTM Zone 17, NAD 1983
 N: 4,379,718.148m
 E: 524,612.020m



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 buildings 2,500 square feet or larger used to
 house or shelter dairy cattle or poultry
 husbandry are located within 625' of the center
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L4 N 16°30' E	2,432.7'

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 - ⊗ Monument, as noted
 - ☀ Existing Well, as noted
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 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

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

DATE: September 9 2024
 OPERATOR'S WELL NO. Gowland 1H
 API WELL NO
 47 - 103 - 03614
 STATE COUNTY PERMIT

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 ROYALTY OWNER: Jenkins Miller LEASE NO: ACREAGE: 200
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,066' MD

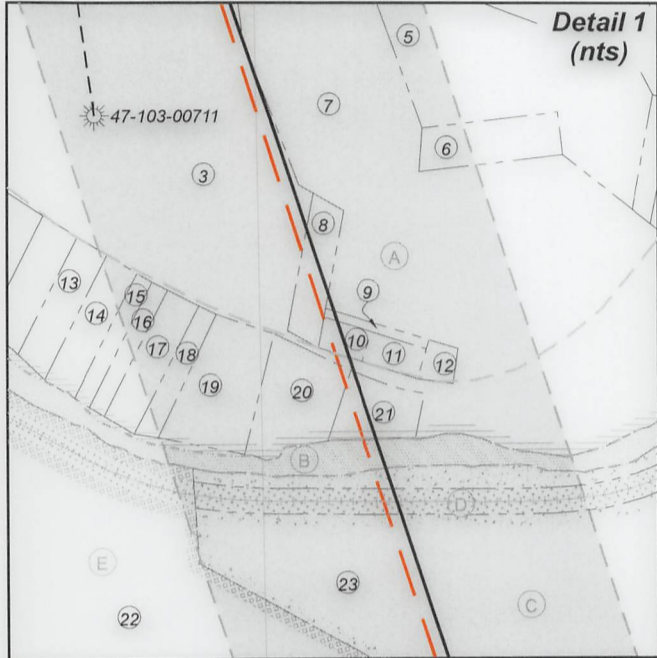
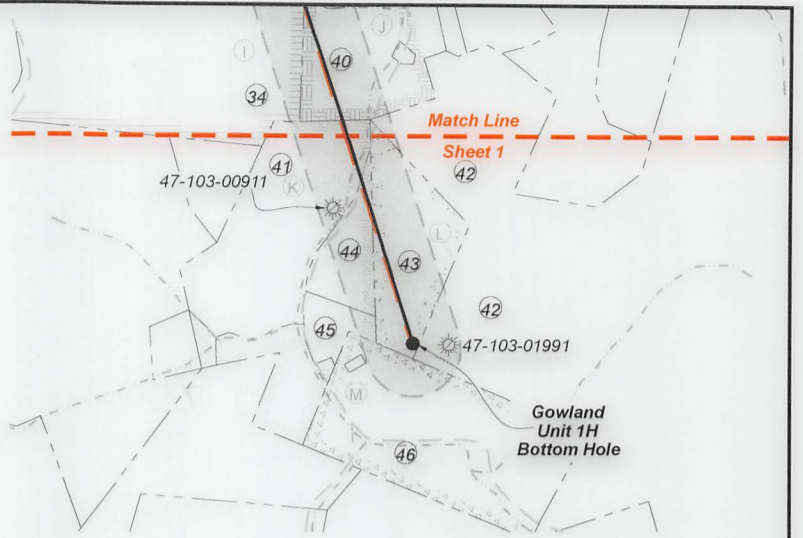
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

TOP HOLE LONGITUDE 80 - 42 - 30
 BTM HOLE LONGITUDE 80 - 40 - 00
 5,726' to Top Hole
 8,568' to Bottom Hole

Approx. S 18°34' E

Proposed As-Drilled

Match Line
 Sheet 2



ID	TM-Par	Owner	Bk/Pg	Acres
1	14-19	Dallison Lumber Company	357/267	51.50
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4	14-34	Dearld T. Mason	292/646	41.00
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37	21-7.6	Roger & Janet Fluharty	436/803	1.83
38	21-7.7	Robert & Gloria Fluharty	436/808	5.44
39	21-7.9	Charles Fluharty	439/535	1.97
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42	21-3	State of WV	207/239	5228.5
43	21-17	Coastal Forest Resources	444/105	47.00
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45	21-16	Christopher & Kimberly Campbell	405/756	6.71
46	21-21	Sanford Joe Haught	423/709	83.00

Leases	
A	Jenkins Miller
B	WVDNR
C	Coastal Forest Resources Co.
D	CSX Transportation, Inc.
E	Tribune Resources Minerals, LLC
F	Jeffrey T. Hayes
G	Tribune Resources Minerals, LLC
H	Thomas Cunningham, et ux
I	Shiben Estates Inc.
J	Shiben Estates Inc.
K	Louisa J. Fluharty
L	Paul J. Shiben, et al
M	Rachel Wright, et al
N	Antero Minerals, LLC
O	Shiben Estates Inc.

FILE NO: 122-34-G-18
DRAWING NO: Gowland 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. Gowland 1H
API WELL NO
47 - 103 - 03614
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 Dallison Lumber COMPANY COUNTY: Wetzel 01/17/2025
SURFACE OWNER: Company ACREAGE: 51.5
ROYALTY OWNER: Jenkins Miller LEASE NO: ACREAGE: 200

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: 7,208' TVD 26,066' 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

Hydraulic Fracturing Fluid Product Component Information Disclosure


Job Start Date:	04/06/2024
Job End Date:	05/24/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03614-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GOWLAND 1H
Latitude:	39.56769
Longitude:	-80.713765
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7208
Total Base Water Volume (gal)*:	29809067.06
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
Excelerate 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					RECEIVED Office of Oil and Gas
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					OCT 02 2024
MC B-8123	MultiChem	Biocide					WV Department of Environmental Protection
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 10.0)	Operator	Base Fluid					

01/17/2025


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	88.41649	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.37671	None
			Water	7732-18-5	100.00000	0.14148	None
			Hydrochloric acid	7647-01-0	30.00000	0.03368	None
			Complex amine compound	Proprietary	60.00000	0.01805	None
			Guar gum	9000-30-0	100.00000	0.01280	None
			Ethanaminium, N,N,N-trimethyl-2-(1-oxo-2-propen-1-yl)oxy-, chloride (1:1), polymer with 2-propenamamide	69418-26-4	60.00000	0.01274	None
			Hydrotreated distillate	Proprietary	30.00000	0.00902	None
			Proprietary	Proprietary	20.00000	0.00696	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00637	None
			Ammonium chloride	12125-02-9	5.00000	0.00257	None
			Glutaraldehyde	111-30-8	30.00000	0.00205	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00150	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00150	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00106	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00106	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00051	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00051	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00034	None
			Methanol	67-56-1	100.00000	0.00021	None
			Ammonium persulfate	7727-54-0	100.00000	0.00019	None
			Citric acid	77-92-9	60.00000	0.00007	None

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			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00006	None
			Modified thiourea polymer	Proprietary	30.00000	0.00006	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00006	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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