

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

API 47 - 103 - 03585 County Wetzel District Green
Quad Pine Grove Pad Name Furbee Field/Pool Name ----
Farm name Antero Resources Group Well Number Gauss 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 4378586.143m Easting 523122.240m
Landing Point of Curve Northing 4378803.83m Easting 523296.85m
Bottom Hole Northing 4383386.832m Easting 521747.233m

Elevation (ft) 1211' 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 7/10/2023 Date drilling commenced 8/1/2023 Date drilling ceased 12/14/2023
Date completion activities began 1/7/2024 Date completion activities ceased 3/27/2024
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 575' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2284' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 973' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

9-30-24
08/16/2024

API 47-103 - 03585 Farm name Antero Resources Group Well number Gauss 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"	125.5'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	709'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3451'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	23457'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7064'		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	200 sx	15.6	1.18	236	0'	8 Hrs.
Surface	Class A	689 sx	15.6	1.20	827	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1167 sx	15.6	1.20	1400	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3696 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	4657	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23,457' MD, 6972' TVD (BHL), 7040' TVD (Deepest Point Drilled) Loggers TD (ft) 23427' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6273'

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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

08/16/2024 

API 47- 103 - 03585 Farm name Antero Resources Group Well number Gauss Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6980' (TOP)</u>	<u>TVD</u>	<u>7283' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas 16,566.75 mcfpd Oil 593.69 bpd NGL --- bpd Water 710.16 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>		<u>BOTTOM</u>		<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

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

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

Cementing Company Schlumberger US Land
Address 3600 Briarpark Drive City Houston State TX Zip 77042

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

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature *S Gaspar* Title Permitting Agent Date 6/28/2024

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

08/16/2024 *OW*

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	1/7/2024	23328	23284	30	Marcellus
2	1/7/2024	23244.77292	23080.6375	30	Marcellus
3	1/8/2024	23045.41042	22881.275	30	Marcellus
4	1/8/2024	22846.04792	22681.9125	30	Marcellus
5	1/9/2024	22646.68542	22482.55	30	Marcellus
6	1/9/2024	22447.32292	22283.1875	30	Marcellus
7	1/10/2024	22247.96042	22083.825	30	Marcellus
8	1/10/2024	22048.59792	21884.4625	30	Marcellus
9	1/10/2024	21849.23542	21685.1	30	Marcellus
10	1/11/2024	21649.87292	21485.7375	30	Marcellus
11	1/11/2024	21450.51042	21286.375	30	Marcellus
12	1/11/2024	21251.14792	21087.0125	30	Marcellus
13	1/12/2024	21051.78542	20887.65	30	Marcellus
14	1/12/2024	20852.42292	20688.2875	30	Marcellus
15	1/13/2024	20653.06042	20488.925	30	Marcellus
16	1/13/2024	20453.69792	20289.5625	30	Marcellus
17	1/13/2024	20254.33542	20090.2	30	Marcellus
18	1/14/2024	20054.97292	19890.8375	30	Marcellus
19	1/14/2024	19855.61042	19691.475	30	Marcellus
20	1/14/2024	19656.24792	19492.1125	30	Marcellus
21	1/15/2024	19456.88542	19292.75	30	Marcellus
22	1/15/2024	19257.52292	19093.3875	30	Marcellus
23	1/15/2024	19058.16042	18894.025	30	Marcellus
24	1/16/2024	18858.79792	18694.6625	30	Marcellus
25	1/16/2024	18659.43542	18495.3	30	Marcellus
26	1/17/2024	18460.07292	18295.9375	30	Marcellus
27	1/17/2024	18260.71042	18096.575	30	Marcellus
28	1/17/2024	18061.34792	17897.2125	30	Marcellus
29	1/18/2024	17861.98542	17697.85	30	Marcellus
30	1/18/2024	17662.62292	17498.4875	30	Marcellus
31	1/18/2024	17463.26042	17299.125	30	Marcellus
32	1/19/2024	17263.89792	17099.7625	30	Marcellus
33	1/19/2024	17064.53542	16900.4	30	Marcellus
34	1/19/2024	16865.17292	16701.0375	30	Marcellus
35	1/20/2024	16665.81042	16501.675	30	Marcellus
36	1/20/2024	16466.44792	16302.3125	30	Marcellus
37	1/21/2024	16267.08542	16102.95	30	Marcellus
38	1/21/2024	16067.72292	15903.5875	30	Marcellus
39	1/21/2024	15868.36042	15704.225	30	Marcellus
40	1/22/2024	15668.99792	15504.8625	30	Marcellus
41	1/22/2024	15469.63542	15305.5	30	Marcellus
42	1/22/2024	15270.27292	15106.1375	30	Marcellus
43	1/23/2024	15070.91042	14906.775	30	Marcellus
44	1/23/2024	14871.54792	14707.4125	30	Marcellus
45	1/23/2024	14672.18542	14508.05	30	Marcellus
46	1/23/2024	14472.82292	14308.6875	30	Marcellus
47	1/23/2024	14273.46042	14109.325	30	Marcellus
48	1/23/2024	14074.09792	13909.9625	30	Marcellus
49	1/24/2024	13874.73542	13710.6	30	Marcellus
50	1/24/2024	13675.37292	13511.2375	30	Marcellus
51	1/24/2024	13476.01042	13311.875	30	Marcellus
52	1/24/2024	13276.64792	13112.5125	30	Marcellus
53	1/24/2024	13077.28542	12913.15	30	Marcellus
54	1/24/2024	12877.92292	12713.7875	30	Marcellus
55	1/25/2024	12678.56042	12514.425	30	Marcellus
56	1/25/2024	12479.19792	12315.0625	30	Marcellus
57	1/25/2024	12279.83542	12115.7	30	Marcellus
58	1/25/2024	12080.47292	11916.3375	30	Marcellus
59	1/25/2024	11881.11042	11716.975	30	Marcellus
60	1/25/2024	11681.74792	11517.6125	30	Marcellus
61	1/26/2024	11482.38542	11318.25	30	Marcellus
62	1/26/2024	11283.02292	11118.8875	30	Marcellus
63	1/26/2024	11083.66042	10919.525	30	Marcellus
64	1/26/2024	10884.29792	10720.1625	30	Marcellus
65	1/26/2024	10684.93542	10520.8	30	Marcellus
66	1/26/2024	10485.57292	10321.4375	30	Marcellus
67	1/26/2024	10286.21042	10122.075	30	Marcellus
68	1/27/2024	10086.84792	9922.7125	30	Marcellus
69	1/27/2024	9887.48542	9723.35	30	Marcellus
70	1/27/2024	9688.12292	9523.9875	30	Marcellus
71	1/27/2024	9488.76042	9324.625	30	Marcellus
72	1/27/2024	9289.39792	9125.2625	30	Marcellus
73	1/28/2024	9090.03542	8925.9	30	Marcellus
74	1/28/2024	8890.67292	8726.5375	30	Marcellus
75	1/28/2024	8691.31042	8527.175	30	Marcellus
76	1/28/2024	8491.94792	8327.8125	30	Marcellus
77	1/28/2024	8292.58542	8128.45	30	Marcellus
78	1/28/2024	8093.22292	7929.0875	30	Marcellus
79	1/28/2024	7893.86042	7729.725	30	Marcellus
80	1/29/2024	7694.49792	7530.3625	30	Marcellus
81	1/29/2024	7495.13542	7331	30	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	1/7/2024	79.15845	9845.581	5876.16	3861.113	168620	5609.33333	N/A
2	1/7/2024	78.99495	9962.637	5428.68	3983.456	417160	7374.09524	N/A
3	1/8/2024	80.07628	10412.21	5257.76	3748.536	416820	7439.02381	N/A
4	1/8/2024	78.11857	10366.79	5433.4	3647.481	416640	7723.19048	N/A
5	1/9/2024	81.29452	10185.6	7058.94	3686.542	411860	6945.52381	N/A
6	1/9/2024	82.22408	10313.54	6648.87	4027.289	412900	7108.28571	N/A
7	1/10/2024	85.51161	10273.95	6283.79	3883.124	400700	6767.38095	N/A
8	1/10/2024	77.95735	10317.85	7090.69	3824.637	415880	7070.78571	N/A
9	1/10/2024	86.80227	10224.18	6863.9	3963.262	406580	7275	N/A
10	1/11/2024	84.73507	10426.89	6818.01	3950	412640	6787.95238	N/A
11	1/11/2024	86.1154	10460.96	6606.56	3908.628	412640	7151.83333	N/A
12	1/11/2024	85.2166	10287.8	6573.95	3913.306	418220	6975.66667	N/A
13	1/12/2024	87.13242	10424.32	6686.25	4175.519	418880	6971.2619	N/A
14	1/12/2024	78.01199	9743.343	6667.6	3990.363	410560	9948.90476	N/A
15	1/13/2024	80.73582	9647.705	6523.3	4142.404	405400	7016.45238	N/A
16	1/13/2024	89.27481	10422.03	6480.77	4164.277	413300	7204.61905	N/A
17	1/13/2024	89.67295	10075.63	6634.83	4331.73	410220	7096.61905	N/A
18	1/14/2024	86.78041	10240.03	6747.96	4218.683	409548	7127.30952	N/A
19	1/14/2024	88.15974	10356.42	6554.72	4273.024	410720	7166.38095	N/A
20	1/14/2024	65.11317	9019.407	6547.81	4437.498	413580	9167.11905	N/A
21	1/15/2024	84.31589	9901.151	6698.43	4278.667	417940	7225.7619	N/A
22	1/15/2024	87.8097	10299.67	6564.54	4108.074	412800	7209.40476	N/A
23	1/15/2024	86.59799	10177.71	6972.89	4335.97	408700	7279.30952	N/A
24	1/16/2024	83.2484	10269.33	6750.8	4380.355	405100	7149.42857	N/A
25	1/16/2024	83.80635	9711.891	6763.11	4429	398140	6827.90476	N/A
26	1/17/2024	84.43141	10009.14	6734.24	4531	405660	7124.92857	N/A
27	1/17/2024	81.95376	9614.586	6377.17	4396.764	409760	7117.30952	N/A
28	1/17/2024	93.42467	10081.34	6355.24	4539.561	407260	7291.19048	N/A
29	1/18/2024	95.40231	9889.01	5464.73	4487.662	414440	7062.7381	N/A
30	1/18/2024	92.85776	10269.98	6559.45	4385.07	413700	7068.71429	N/A
31	1/18/2024	90.68548	10083.95	6585.09	4613.192	410700	7115.97619	N/A
32	1/19/2024	92.68159	9916.923	5992.02	4450.75	410440	6952.2381	N/A
33	1/19/2024	90.70026	10082.52	6168.89	4384.77	410280	7113.07143	N/A
34	1/19/2024	95.77379	10000.02	5655.4	4228.262	405980	7820.14286	N/A
35	1/20/2024	92.61877	10233.29	6408.65	4313.537	402220	6886.83333	N/A
36	1/20/2024	92.7259	10011.2	5982.42	4452.922	407360	6946.16667	N/A
37	1/21/2024	89.98759	9681.785	5673.75	4649.615	409177	9258.38095	N/A
38	1/21/2024	91.63727	9740.202	6258.14	4296.038	409540	7341.71429	N/A
39	1/21/2024	94.47281	9793.073	6250.85	4700	413140	6960.90476	N/A
40	1/22/2024	95.52175	9580.223	6677.6	4709.939	410300	6844.80952	N/A
41	1/22/2024	95.39308	10030.08	6655.11	5099.749	406240	6767.14286	N/A
42	1/22/2024	91.32374	9897.207	6608.5	4370.846	411300	6581.19048	N/A
43	1/23/2024	75.37026	8949.089	7054.69	4067	419160	6673.83333	N/A
44	1/23/2024	91.55662	9648.963	6766.53	4364	412740	6887.38095	N/A
45	1/23/2024	92.00762	9250.176	6268.48	4294.703	406700	6849.7381	N/A
46	1/23/2024	92.97166	9385.472	6521.81	4602.985	413200	6819.7381	N/A
47	1/23/2024	93.51983	9588.271	6520.4	4324.448	413780	6736.64286	N/A
48	1/23/2024	95.60295	9810.005	6468.12	4224.521	409060	6914.78571	N/A
49	1/24/2024	95.46843	9685.695	7316.77	4282	416940	6750.19048	N/A
50	1/24/2024	96.48371	9613.259	6263.96	4316	420940	6612.5	N/A
51	1/24/2024	94.5329	9522.874	6020	4383.562	412820	6894.30952	N/A
52	1/24/2024	94.49084	9055.954	6560.16	4023.021	416940	6739.80952	N/A
53	1/24/2024	94.19138	9099	6227.38	4180	408860	6727.07143	N/A
54	1/24/2024	93.06341	8752.731	6260.9	4331	406840	6731.85714	N/A
55	1/25/2024	97.4684	9050.315	6728.96	3930	413580	6638.45238	N/A
56	1/25/2024	96.83635	9183.424	6122.64	4037	410400	6646.35714	N/A
57	1/25/2024	97.49157	9471.465	6516.61	4000	404140	6723.78571	N/A
58	1/25/2024	96.79686	9654.112	6202.19	4092.801	404080	6561.92857	N/A
59	1/25/2024	97.16271	9581.703	6322.08	4102.676	409080	6615.04762	N/A
60	1/25/2024	97.30749	9306.741	6449.87	4524	405620	6603.04762	N/A
61	1/26/2024	95.41421	9087.754	5765.15	4073	410500	6697.85714	N/A
62	1/26/2024	97.31273	8668.32	5751.81	3688	407840	7034.59524	N/A
63	1/26/2024	97.03058	8883.522	6471.06	3921.598	403600	6817.28571	N/A
64	1/26/2024	98.51729	8845.347	5370.16	3846.564	406080	7632.14286	N/A
65	1/26/2024	97.06729	8720.498	5389.32	3840.03	412640	7111.88095	N/A
66	1/26/2024	97.32236	8839.821	5617.84	4090	412540	7105.28571	N/A
67	1/26/2024	97.57571	8704.391	5498.51	4137	407320	6764.33333	N/A
68	1/27/2024	97.51609	8805.955	6772.28	4309	416640	6646.85714	N/A
69	1/27/2024	96.36832	8429.378	5551.24	3919.01	408580	6835.97619	N/A
70	1/27/2024	95.83682	8536.856	5985.7	3848.805	410760	6849.35714	N/A
71	1/27/2024	95.25687	8344.532	5864.7	3942.387	407780	6772.7381	N/A
72	1/27/2024	97.504	8721.997	5798.02	4174.933	406260	6905.52381	N/A
73	1/28/2024	97.97278	8553.252	5948.7	4157	407640	6878.88095	N/A
74	1/28/2024	88.34786	7896.541	5727.44	4272	413460	8739.97619	N/A
75	1/28/2024	94.9978	8691.852	5794.34	4094.773	411280	7003.16667	N/A
76	1/28/2024	96.10558	8599.554	5236.65	4119.073	403680	7242.11905	N/A
77	1/28/2024	95.56054	8685.518	5843.78	4055.596	408360	7001	N/A
78	1/28/2024	97.42129	8315.834	5939.78	4192	414420	6571.07143	N/A
79	1/28/2024	97.95975	8222.348	5641.35	4303	409580	6614.61905	N/A
80	1/29/2024	97.50314	8078.177	6028.62	4583	408060	6381.85714	N/A
81	1/29/2024	96.1456	8447.48	5866.94	4019	410340	6525.64286	N/A
	AVERAGE	91	9,518	6,264	4,197	33,005,285	571,131	TOTAL

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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	104	324	104	324
Shaley Siltstone, tr LS	324	374	324	374
Sandy Shale	374	624	374	624
Siltstone, Occ SS, tr Shale, tr Coal	474	824	474	824
Sandy Siltstone, tr LS, tr Shale	624	824	624	824
Silty Sandstone, tr LS	824	924	824	924
Sandy Siltstone, tr LS, tr Shale	924	1,024	924	1,024
Silty Sandstone, tr Shale	1,024	1,124	1,024	1,124
Silty Sandstone, tr Shale, tr LS	1,124	1,224	1,124	1,224
Shaley Sandstone, occ Siltstone	1,224	1,424	1,224	1,424
Silty Sandstone, tr shale	1,424	1,524	1,424	1,524
Sandy Siltstone, tr Coal	1,524	1,674	1,524	1,674
Siltly Sandstone, tr Coal, tr Shale	1,674	1,874	1,674	1,874
Sandy Shale, tr Coal	1,874	2,024	1,874	2,024
Silty Sandstone, rr Coal	2,024	2,119	2,024	2,120
Big Lime	2,145	2,897	2,120	2,899
Fifty Foot Sandstone	2,897	3,025	2,873	3,026
Gordon	3,025	3,235	3,000	3,236
Fifth Sandstone	3,235	3,303	3,210	3,304
Bayard	3,303	4,089	3,278	4,094
Speechley	4,089	4,366	4,068	4,377
Balltown	4,366	4,826	4,351	4,849
Bradford	4,826	5,186	4,823	5,218
Benson	5,186	5,620	5,192	5,666
Alexander	5,620	6,799	5,640	6,916
Sycamore	6,649	6,773	6,737	6,890
Middlesex	6,773	6,870	6,890	7,035
Burkett	6870	6901	7035	7089
Tully	6901	6980	7089	7283
Marcellus	6980	NA	7283	NA

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WV Department of
Environmental Protection

08/16/2024 

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	01/07/2024
Job End Date:	01/29/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03585-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GAUSS UNIT 1H
Latitude:	39.5566
Longitude:	-80.7308
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7041
Total Base Water Volume (gal)*:	25150133.5
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

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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
FDP-S1464-22	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8614A	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 10.0)	Operator	Base Fluid					
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.

08/16/2024

			Water	7732-18-5	100.00000	88.22158	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.57760	None
			Water	7732-18-5	100.00000	0.17551	None
			Hydrochloric acid	7647-01-0	30.00000	0.04166	None
			Complex amine compound	Proprietary	60.00000	0.02966	None
			Hydrotreated distillate	Proprietary	30.00000	0.01483	None
			Guar gum	9000-30-0	100.00000	0.00517	None
			Ammonium chloride	12125-02-9	5.00000	0.00247	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00247	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00247	None
			Glutaraldehyde	111-30-8	30.00000	0.00210	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00049	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00049	None
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00035	None
			Methanol	67-56-1	100.00000	0.00026	None
			Ammonium persulfate	7727-54-0	100.00000	0.00012	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00008	None
			Modified thiourea polymer	Proprietary	30.00000	0.00008	None
			Ethanol	64-17-5	1.00000	0.00007	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	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%

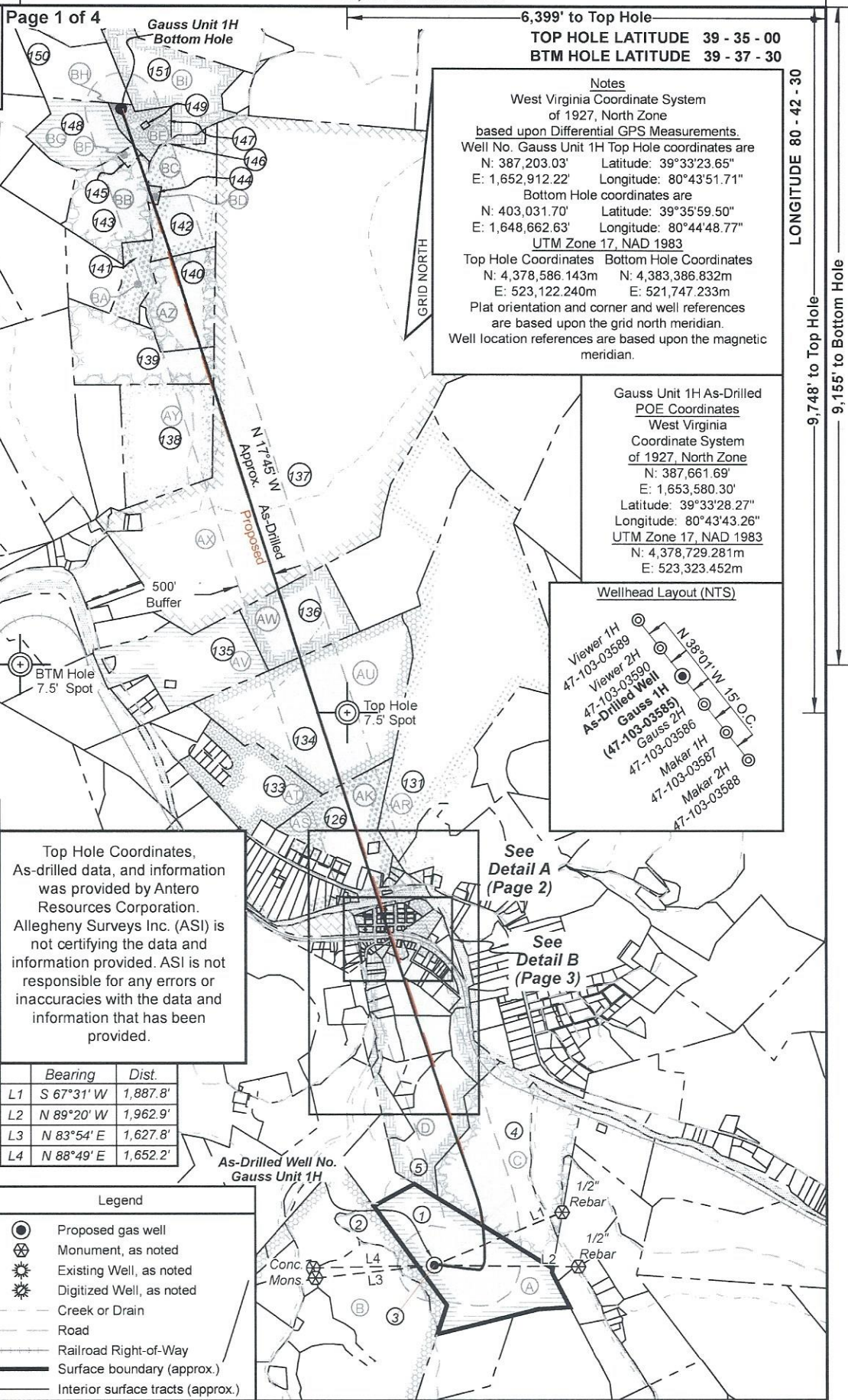
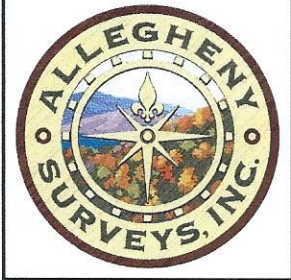
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

08/16/2024

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

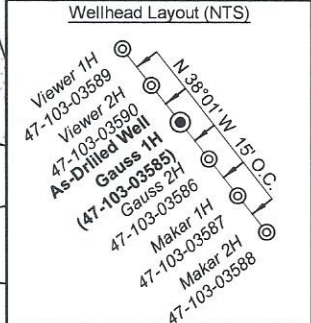
08/16/2024

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



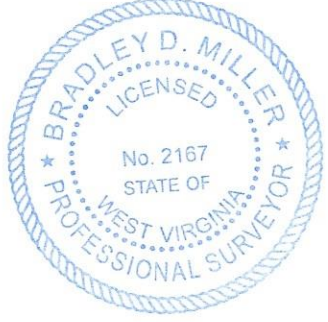
Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Gauss Unit 1H Top Hole coordinates are
 N: 387,203.03' Latitude: 39°33'23.65"
 E: 1,652,912.22' Longitude: 80°43'51.71"
 Bottom Hole coordinates are
 N: 403,031.70' Latitude: 39°35'59.50"
 E: 1,648,662.63' Longitude: 80°44'48.77"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,378,586.143m N: 4,383,386.832m
 E: 523,122.240m E: 521,747.233m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Gauss Unit 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 387,661.69'
 E: 1,653,580.30'
 Latitude: 39°33'28.27"
 Longitude: 80°43'43.26"
 UTM Zone 17, NAD 1983
 N: 4,378,729.281m
 E: 523,323.452m



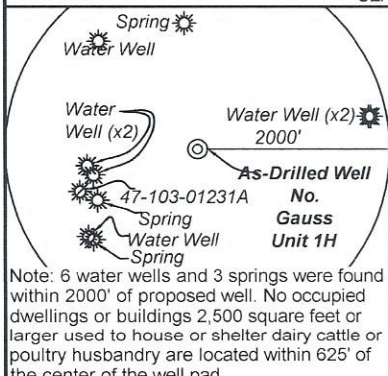
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



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.

	Bearing	Dist.
L1	S 67°31' W	1,887.8'
L2	N 89°20' W	1,962.9'
L3	N 83°54' E	1,627.8'
L4	N 88°49' E	1,652.2'



Legend
 ● Proposed gas well
 ⊗ Monument, as noted
 ☼ Existing Well, as noted
 ☼ Digitized Well, as noted
 --- Creek or Drain
 --- Road
 --- Railroad Right-of-Way
 --- Surface boundary (approx.)
 --- Interior surface tracts (approx.)

FILE NO: 121-34-G-18
 DRAWING NO: Gauss Unit 1H As-Drilled Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

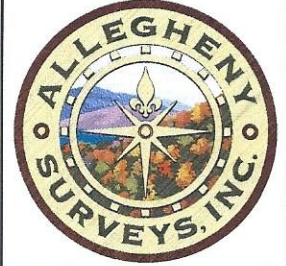
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: June 20 20 24
 OPERATOR'S WELL NO. Gauss Unit 1H
 API WELL NO
 47 - 103 - 03585
 STATE COUNTY PERMIT

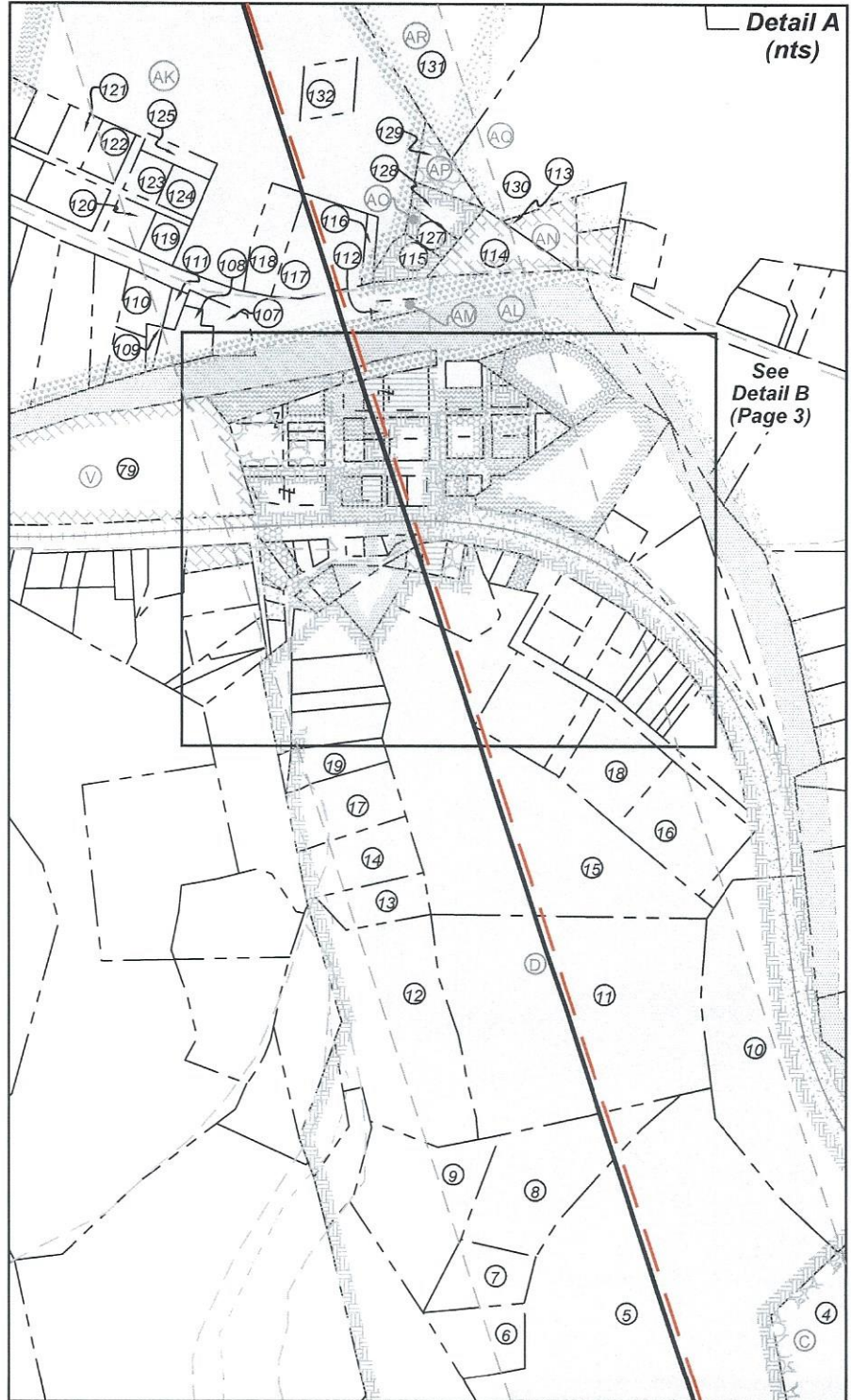
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Drilled 1211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzel
 SURFACE OWNER: Antero Resources Corp. ACREAGE: 58.1
 ROYALTY OWNER: James Allen Sell LEASE NO: _____ ACREAGE: 58.1
 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: 23,457' 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

08/16/2024



Leases	
A	James Allen Sell
B	William R. Stainaker
C	Marilyn Halley Seeley
D	Antero Minerals, LLC
E	Antero Minerals, LLC
F	Dennis G. Haught
G	Patricia Ruth Cain
H	Morgan S. Long, et ux
I	Timothy C. Wilcox
J	Pearl Lynn Larimore
K	Robert P. Willoughby
L	John S. Starkey
M	CSX Transportation, Inc.
N	Timothy Lynn & Michael A. McDiffitt
O	Judy Kocher
P	Donald L. & Cshawn L. Smith
Q	Church of Christ of Reader, WV
R	Gordon F. & Regeena S. Yost
S	CSX Transportation, Inc.
T	Wavelene Garrison Grantham
U	Ricky L. & Amy F. Bassett
V	Ruby Lynn Price
W	Daniel S. Brown, et ux
X	Matthew Bassett
Y	Thomas S. Haught, et ux
Z	Reader Lodge No. 282 IOOF
AA	Gary & Katherine White
AB	Frontier Communications
AC	Weldon P. Williams
AD	Darla J. Brinker
AE	Donald L., II & Cshawn L. Smith
AF	Donald L., II & Cshawn L. Smith
AG	Kevin Cunningham, et ux
AH	Daniel Melott
AI	Martha Lou Cunningham
AJ	Kevin Cunningham, et ux
AK	Shiben Estates, Inc.
AL	WVDNR
AM	Daniel W. Henderson, et ux
AN	Ronald M. Jackson, et ux
AO	Brent A. Whipkey
AP	Phillip W. Wiley
AQ	BRC Appalachian Minerals I, LLC
AR	Chesapeake Appalachia, LLC
AS	Daniel W. Henderson
AT	Michael Paul Melott, et ux
AU	Chesapeake Appalachia, LLC
AV	Margaret Lancaster, et vir
AW	Mary E. Snider
AX	Shiben Estates Inc.
AY	Barbara Anne Amos King
AZ	Valerie Preat
BA	James D. Highley, et ux
BB	Nancy B. Hatfield, et al
BC	Nancy B. Hatfield, et al
BD	Charles J. Stillwagoner, et ux
BE	Ryann Wade, Sr., et al
BF	John D. Morgan, et ux
BG	Fern Nuhring
BH	Nancy B. Hatfield, et al
BI	Cylde B. Snider



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STATE OF WEST VIRGINIA
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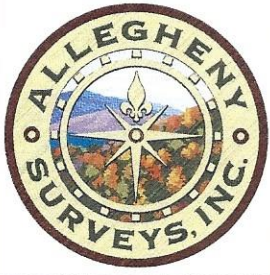
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47 - 103 - 03585
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WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Drilled 1211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
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 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,972' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,457' 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


08/16/2024



ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	Antero Resources Corp.	483/888	58.10
2	17-1	Antero Resources Corp	483/888	15.35
3	17-60	Ross Bucher	411/765	79.00
4	13-71	Charles R. & Kay L. Blair	387/577	63.11
5	13-70	Doris Ruth Haught, et al	AP112/912	33.78
6	13-70.2	Cory R. & Mary L. Haught	449/135	1.04
7	13-70.4	Adriene N. Derby	459/95	0.93
8	13-70.3	Tom & Betty C. Haught	303/65	2.59
9	13-70	Doris Ruth Haught, et al	AP112/912	33.78
10	13-47	Charles J. Stillwagoner III	460/921	8.00
11	29-69.1	Donald L. II & Cshawn L. Smith	350/465	8.80
12	13-46.1	Douglas A. & Shirley J. Bucher	300/188	4.42
13	13-46	Carol Knapp Revocable Trust	437/796	0.70
14	29-68	Carol Knapp Revocable Trust	437/796	1.30
15	29-69	Leroy E. & Virginia R. Derby	278/70	10.20
16	29-96	Brenda Ellen Glasscock	472/33	1.65
17	29-67	Carol Knapp Revocable Trust	437/796	1.33
18	29-95	Brian Keith Haught	420/216	1.26
19	29-67.1	Tully S. Vanwinkle	68/379	0.57
20	29-66	Tully S. Vanwinkle	68/379	0.63
21	29-90	Robert Eugene Eastham	388/59	1.25
22	29-94	Brian Keith Haught	420/216	0.27
23	29-65	Tully S. Vanwinkle	68/379	0.31
24	29-41	Faith Fellowship Ministries	477/796	0.45
25	29-64	Tully S. Vanwinkle	68/379	0.59

ID	TM-Par	Owner	Bk/Pg	Acres
26	29-89	Brenda Ellen Glasscock	472/33	0.61
27	29-88	Brian Keith Haught	420/216	0.10
28	29-87	Russell Craig Bates	429/422	0.10
29	29-86	Russell Craig Bates	429/422	0.21
30	29-79	James Stacey Anderson	402/596	0.22
31	29-78	James Stacey Anderson	402/596	0.13
32	29-77	Roland Lee & Jo Ann Pittman	333/528	0.32
33	29-76	Roland Lee & Jo Ann Pittman	333/528	0.18
34	29-75	Janet Lea Higginbotham	WB 8/638	0.38
35	29-80	John M. & Robin Lynn Pittman	295/446	0.30
36	29-73	John M. & Robin Lynn Pittman	295/446	0.33
37	29-56	Morgan S. & Chelcie L. Long	440/102	0.87
38	29-63	Timothy C. & Christena Wilcox	445/894	0.42
39	29-61	Pearl Lynn Larrimore	403/430	0.81
40	29-39	Faith Fellowship Ministries	477/796	0.20
41	29-38	Faith Fellowship Ministries	477/796	0.20
42	29-33	Faith Fellowship Ministries	477/796	0.15
43	29-42	Faith Fellowship Ministries	477/796	0.09
44	29-32	David & Debra Lancaster	261/469	0.47
45	29-43	Jami Barnes	442/231	0.06
46	29-31	David & Debra Lancaster	333/167	1.50
47	29-44	Jami Barnes	442/231	0.06
48	29-60	Pearl Lynn Larrimore	403/430	0.03
49	29-59	Pearl Lynn Larrimore	403/430	0.08
50	29-58	Pearl Lynn Larrimore	403/430	0.12

FILE NO: 121-34-G-18
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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: June 20 20 24
 OPERATOR'S WELL NO. Gauss Unit 1H
API WELL NO
47 — 103 — 03585
 STATE COUNTY PERMIT

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

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


08/16/2024



ID	TM-Par	Owner	Bk/Pg	Acres
51	29-57	Timothy C. & Christena Wilcox	445/894	0.14
52	29-45	William Leccese	484/153	0.01
53	29-30	Sara Larrimore, et al	AP107/99	0.25
54	29-46	William Leccese	484/153	0.19
55	29-47	William Leccese	484/153	0.12
56	29-47.1	Rhonda Thomas	431/798	0.09
57	29-48	Rhonda Thomas	431/798	0.08
58	29-49	Rusty Thomas	448/834	0.06
59	29-50	Timothy C. & Christena Wilcox	445/894	0.07
60	29-51	Timothy C. & Christena Wilcox	445/894	0.07
61	29-62	Timothy C. & Christena Wilcox	445/894	0.02
62	29-52	Morgan S. & Chelcie L. Long	440/102	0.07
63	29-53	Patricia Ruth Cain	292/649	0.12
64	29-54	Dennis G. Haught	355/427	0.11
65	29-55	Dennis G. Haught	355/427	0.02
66	29-70	Jonathan E. & Alexa R. Mason	440/489	0.13
67	29-72	Jonathan E. & Alexa R. Mason	440/489	0.12
68	29-71	Jonathan E. & Alexa R. Mason	440/489	0.12
69	29-36	Trinity United Methodist	---/---	0.20
70	29-34	Timothy Lynn & Michael Allen McDiffitt	399/54	2.32
71	29-24	Judy Kocher	WB80/936	0.05
72	29-25	Donald L. II & Cshawn Smith	464/819	0.08
73	29-26	Reader Church of Christ	322/452	0.11
74	29-27	Reader Church of Christ	333/123	0.11
75	29-114	B&O RR Co.	---/---	0.04
76	29-28	Gordon F. & Regenna S. Yost	317/17	0.08
77	29-29	Wavelene Garrison Grantham	WB46/458	0.08
78	28-31	Ricky L. & Amy F. Bassett	481/782	0.36
79	28-25	Sara Larrimore, et al	AP107/99	4.50
80	28-27	Daniel S. & Leah M. Brown	411/328	0.38
81	28-28	Matthew Bassett	396/508	0.06
82	28-29	Matthew Bassett	396/508	0.06
83	28-30	Daniel S. & Leah M. Brown	411/328	0.16
84	29-7	Betty & Thomas Haught	410/850	0.08
85	29-8	IOOF No. 282	102/514	0.08
86	29-9	Gary White	359/665	0.06
87	29-10	Reader Church of Christ	433/886	0.02
88	29-11	Reader Church of Christ	434/275	0.08
89	29-12	Church of Christ	169/109	0.15
90	29-13	Reader Church of Christ	428/429	0.15
91	29-22	Weldon Williams	377/402	0.14
92	29-23	Weldon Williams	377/402	0.14
93	29-21	Cathy Brown	399/473	0.14
94	29-20	Darla J. Brinker	371/308	0.14
95	29-19	Dillon Leroy Edgell	444/504	0.15
96	29-18	Kevin E. & Carol L. Cunningham	432/231	1.00
97	29-17	Daniel Melott	483/851	0.12
98	29-16	Martha L. Cunningham	WB69/361	0.14
99	29-15.1	Daniel Melott	483/851	0.03
100	29-120	Kevin E. & Carol L. Cunningham	432/231	0.06

ID	TM-Par	Owner	Bk/Pg	Acres
101	29-15	Rodney Anderson	W107/739	0.16
102	29-6	Gordon Yost	361/261	0.39
103	29-6.1	Short Line Telephone Co.	226/185	0.10
104	28-26.1	Thomas S. & Betty C. Haught	415/521	0.11
105	28-26	Thomas S. & Betty C. Haught	415/521	0.99
106	29-14	Matthew C. Briggs	429/840	1.00
107	28-33.1	Robin D. Stillwagoner	467/508	0.45
108	28-33.2	Thomas L. & Emily Marie Gifford	421/20	0.37
109	28-33	Benjamin J. Dotson	447/881	0.18
110	28-24	Benjamin J. Dotson	447/881	0.34
111	28-32.1	Benjamin J. Dotson	447/881	0.10
112	29-115	Daniel W. & Ruth Ann Henderson	244/111	0.25
113	29-1.1	Ronald M. & Pamela A. Jackson	320/38	0.56
114	29-1	Ronald M. & Pamela A. Jackson	320/38	1.00
115	29-116	Brent A. Whipkey	411/154	0.20
116	13-21.2	Kimberly Dawn & Daniel M. Henderson	433/507	0.14
117	13-21.1	Kimberly Dawn & Daniel M. Henderson	423/785	1.00
118	13-21.7	Kimberly Dawn & Daniel M. Henderson	440/838	0.62
119	28-44	David Lewis Anderson	242/483	0.28
120	28-3	David Anderson, et al	WB57/511	0.30
121	28-2.4	Robert L. Yoho	452/434	---
122	28-2.5	Robert L. Yoho	452/434	---
123	28-45	David Lewis Anderson	WB57/511	0.28
124	28-46	David Lewis Anderson	WB57/511	0.30
125	28-47	David Lewis Anderson	WB57/511	0.24
126	13-21	Daniel W. & Ruth A. Henderson	244/111	30.95
127	29-117	Brent A. Whipkey	411/154	0.18
128	29-118	Brent A. Whipkey	411/154	0.34
129	29-119	Phillip Wiley	368/706	0.42
130	13-24	Howard D. & Clara M. Bucher	367/144	34.02
131	13-7	WSD Properties LLC	441/793	162.00
132	13-22	James Cochran Memorial Cemetery	---/---	0.52
133	13-19.1	Michael Paul & Tamatha Lynn Melott	379/128	23.95
134	13-13	Linda M. Headley	385/209	85.50
135	13-6	Margaret Lancaster	333/440	39.39
136	8-43	Debra Key Fluharty, et al	368/559	35.00
137	8-28	Nancy B. Hatfield	474/48/1	449.48
138	8-34	Peter S. & Marietta A Florea	420/915	42
139	8-31	Valerie Preat	416/599	32.50
140	8-27	Valerie Preat	416/599	16.80
141	8-26.1	James D. & Julie M. Highley	360/318	9.79
142	8-23	Debra Kay Fluharty, et al	368/561	28.04
143	8-48	James D. Highley Jr.	472/167	41.00
144	8-23.1	Charles J. Stillwagoner III	441/514	0.91
145	8-14	John D. & Connie J. Morgan	400/281	1.06
146	8-17	Harold L. & Deborah C. Miller	393/500	2.12
147	8-16	Ryann M. Wade, et al	433/830	9.25
148	8-13.1	William H. & Charlene M. Gore	370/632	20.27
149	8-15	Keiger Cemetery	---/---	0.17
150	8-4.2	William H. & Charlene M. Gore	370/632	22.93
151	8-5	Charles J. Jr & Robin D Stillwagoner	367/460	37.87

FILE NO: 121-34-G-18
 DRAWING NO: Gauss Unit 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: June 20 20 24
 OPERATOR'S WELL NO. Gauss Unit 1H
 API WELL NO
 47 - 103 - 03585
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Drilled 1211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzel
 SURFACE OWNER: Antero Resources Corp. ACREAGE: 58.1
 ROYALTY OWNER: James Allen Sell LEASE NO: ACREAGE: 58.1

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,972' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,457' 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