

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

API 47 - 103 - 03589 County Wetzel District Green
Quad Pine Grove Pad Name Furbee Field/Pool Name -----
Farm name Antero Resources Group Well Number Viewer 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 4378593.300m Easting 523116.489m
Landing Point of Curve Northing 4378648.40m Easting 522829.95m
Bottom Hole Northing 4383086.861m Easting 521312.768m

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 10/21/2023
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

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

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API 47-103 - 03589 Farm name Antero Resources Group Well number Viewer 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"	697'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3443'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	22886'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7077'		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	605 sx	15.6	1.20	726	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1165 sx	15.6	1.20	1398	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3932 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	4954	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 22,886' MD, 6,963' TVD (BHL), 7,036' TVD (Deepest Point Drilled) Loggers TD (ft) 22,856' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,309'

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

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API 47- 103 - 03589 Farm name Antero Resources Group Well number Viewer Unit 1H

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6,961' (TOP)	TVD	7,240' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
16,231.30 mcfpd 580.18 bpd --- bpd 690.19 bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***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 _____

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

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API 47-103-03589 Farm Name Antero Resources Group Well Number Viewer Unit 1H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	1/7/2024	22759	22719	36	Marcellus
2	1/7/2024	22679.60823	22514.6494	36	Marcellus
3	1/8/2024	22479.25758	22314.2987	36	Marcellus
4	1/8/2024	22278.90693	22113.9481	36	Marcellus
5	1/8/2024	22078.55628	21913.5974	36	Marcellus
6	1/8/2024	21878.20563	21713.2468	36	Marcellus
7	1/9/2024	21677.85498	21512.8961	36	Marcellus
8	1/9/2024	21477.50433	21312.5455	36	Marcellus
9	1/9/2024	21277.15368	21112.1948	36	Marcellus
10	1/10/2024	21076.80303	20911.8442	36	Marcellus
11	1/10/2024	20876.45238	20711.4935	36	Marcellus
12	1/10/2024	20676.10173	20511.1429	36	Marcellus
13	1/10/2024	20475.75108	20310.7922	36	Marcellus
14	1/10/2024	20275.40043	20110.4416	36	Marcellus
15	1/10/2024	20075.04978	19910.0909	36	Marcellus
16	1/11/2024	19874.69913	19709.7403	36	Marcellus
17	1/11/2024	19674.34848	19509.3896	36	Marcellus
18	1/11/2024	19473.99784	19309.039	36	Marcellus
19	1/11/2024	19273.64719	19108.6883	36	Marcellus
20	1/11/2024	19073.29654	18908.3377	36	Marcellus
21	1/12/2024	18872.94589	18707.987	36	Marcellus
22	1/12/2024	18672.59524	18507.6364	36	Marcellus
23	1/12/2024	18472.24459	18307.2857	36	Marcellus
24	1/12/2024	18271.89394	18106.9351	36	Marcellus
25	1/12/2024	18071.54329	17906.5844	36	Marcellus
26	1/12/2024	17871.19264	17706.2338	36	Marcellus
27	1/13/2024	17670.84199	17505.8831	36	Marcellus
28	1/13/2024	17470.49134	17305.5325	36	Marcellus
29	1/13/2024	17270.14069	17105.1818	36	Marcellus
30	1/13/2024	17069.79004	16904.8312	36	Marcellus
31	1/14/2024	16869.43939	16704.4805	36	Marcellus
32	1/14/2024	16669.08874	16504.1299	36	Marcellus
33	1/14/2024	16468.7381	16303.7792	36	Marcellus
34	1/14/2024	16268.38745	16103.4286	36	Marcellus
35	1/14/2024	16068.0368	15903.0779	36	Marcellus
36	1/14/2024	15867.68615	15702.7273	36	Marcellus
37	1/15/2024	15667.3355	15502.3766	36	Marcellus
38	1/15/2024	15466.98485	15302.026	36	Marcellus
39	1/15/2024	15266.6342	15101.6753	36	Marcellus
40	1/15/2024	15066.28355	14901.3247	36	Marcellus
41	1/16/2024	14865.9329	14700.974	36	Marcellus
42	1/16/2024	14665.58225	14500.6234	36	Marcellus
43	1/16/2024	14465.2316	14300.2727	36	Marcellus
44	1/16/2024	14264.88095	14099.9221	36	Marcellus
45	1/16/2024	14064.5303	13899.5714	36	Marcellus
46	1/17/2024	13864.17965	13699.2208	36	Marcellus
47	1/17/2024	13663.829	13498.8701	36	Marcellus
48	1/17/2024	13463.47835	13298.5195	36	Marcellus
49	1/17/2024	13263.12771	13098.1688	36	Marcellus
50	1/17/2024	13062.77706	12897.8182	36	Marcellus
51	1/17/2024	12862.42641	12697.4675	36	Marcellus
52	1/17/2024	12662.07576	12497.1169	36	Marcellus
53	1/18/2024	12461.72511	12296.7662	36	Marcellus
54	1/18/2024	12261.37446	12096.4156	36	Marcellus
55	1/18/2024	12061.02381	11896.0649	36	Marcellus
56	1/18/2024	11860.67316	11695.7143	36	Marcellus
57	1/18/2024	11660.32251	11495.3636	36	Marcellus
58	1/18/2024	11459.97186	11295.013	36	Marcellus
59	1/19/2024	11259.62121	11094.6623	36	Marcellus
60	1/19/2024	11059.27056	10894.3117	36	Marcellus
61	1/19/2024	10858.91991	10693.961	36	Marcellus
62	1/19/2024	10658.56926	10493.6104	36	Marcellus
63	1/20/2024	10458.21861	10293.2597	36	Marcellus
64	1/20/2024	10257.86797	10092.9091	36	Marcellus
65	1/20/2024	10057.51732	9892.55844	36	Marcellus
66	1/20/2024	9857.16667	9692.20779	36	Marcellus
67	1/20/2024	9656.816017	9491.85714	36	Marcellus
68	1/21/2024	9456.465368	9291.50649	36	Marcellus
69	1/21/2024	9256.114719	9091.15584	36	Marcellus
70	1/21/2024	9055.764069	8890.80519	36	Marcellus
71	1/21/2024	8855.41342	8690.45455	36	Marcellus
72	1/21/2024	8655.062771	8490.1039	36	Marcellus
73	1/22/2024	8454.712121	8289.75325	36	Marcellus
74	1/22/2024	8254.361472	8089.4026	36	Marcellus
75	1/22/2024	8054.010823	7889.05195	36	Marcellus
76	1/22/2024	7853.660173	7688.7013	36	Marcellus
77	1/22/2024	7653.309524	7488.35065	36	Marcellus
78	1/22/2024	7452.958874	7288	36	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	1/7/2024	75.39592	10071.27	7158.9	4091	165140	5464.40476	N/A
2	1/7/2024	78.66029	10266	6350.7	3944.944	414940	7654.69048	N/A
3	1/8/2024	80.43122	10255.63	6214	3891.49	416900	7483.7619	N/A
4	1/8/2024	77.68559	10296.25	5838.68	4130	413260	7754.71429	N/A
5	1/8/2024	80.96832	9763.211	5191.48	3986.69	413100	7534.66667	N/A
6	1/8/2024	83.13927	10240.1	7191.36	4151.637	417040	7166.40476	N/A
7	1/9/2024	84.02598	10306.25	6915.69	4181.601	414880	7209.71429	N/A
8	1/9/2024	83.25205	10193.18	7053.93	3863.721	410780	7179.64286	N/A
9	1/9/2024	85.37592	10116.19	6969.52	4497.112	410680	7091.47619	N/A
10	1/10/2024	87.73494	10021.84	6410.37	4147.225	408320	6951.02381	N/A
11	1/10/2024	86.20634	10136.64	6569.16	4371.139	416320	7003.42857	N/A
12	1/10/2024	86.1087	10254.8	7004.73	3937	407420	7143.78571	N/A
13	1/10/2024	90.98841	10332.6	6703.05	4157.073	410800	7270.85714	N/A
14	1/10/2024	88.85228	10193.65	6920.84	4003	409240	7337.02381	N/A
15	1/10/2024	90.43959	10197.92	6119.61	4234.281	411900	7024.90476	N/A
16	1/11/2024	91.82876	10159.1	6710.27	4274.93	412900	6967.40476	N/A
17	1/11/2024	89.99805	10408.53	6365.67	4179.196	413720	7013.30952	N/A
18	1/11/2024	88.27081	10360.47	7101.65	4546.81	406200	7114.2381	N/A
19	1/11/2024	90.99066	10142.93	6811.78	4177.142	403620	6937.16667	N/A
20	1/11/2024	91.78665	10228.77	7058	4173.59	408980	6965.47619	N/A
21	1/12/2024	90.28256	10194.13	6160.1	4171.77	414060	6996.38095	N/A
22	1/12/2024	91.71123	10271.05	6899.79	4135.414	411160	6950.92857	N/A
23	1/12/2024	94.01338	10310.29	6540.43	4449.705	411900	7032.85714	N/A
24	1/12/2024	92.1194	10345.37	6819.49	4255.119	413740	7106.47619	N/A
25	1/12/2024	91.59604	10364.48	6833.97	4313.58	403400	7061.30952	N/A
26	1/12/2024	79.53353	9458.726	7050.3	4312.754	410400	7123.30952	N/A
27	1/13/2024	86.11232	9448.012	7038.89	4272.439	411120	6934.07143	N/A
28	1/13/2024	91.97626	9951.758	6703.42	4410.799	406720	6976.5	N/A
29	1/13/2024	94.0311	9915.292	5846.81	4618.607	412620	7217.35714	N/A
30	1/13/2024	93.08988	9695.074	6205.99	4536.659	411160	7108.7381	N/A
31	1/14/2024	94.27897	10164.17	6153.63	4508.264	403220	7103.42857	N/A
32	1/14/2024	93.832	10131.52	6902.22	4467.683	411180	7237	N/A
33	1/14/2024	93.95391	10282.2	6962.82	4083.375	397720	7118.5	N/A
34	1/14/2024	93.87746	10292.26	6895.02	4586.048	410520	7107.95238	N/A
35	1/14/2024	93.25039	9827.723	6683.42	4591.875	417480	7257.92857	N/A
36	1/14/2024	92.86871	9840.087	7105.06	4545.786	408360	7176.85714	N/A
37	1/15/2024	94.96724	9981.329	6861.13	4517.426	413820	7438.16667	N/A
38	1/15/2024	96.04064	10136.98	6801.7	4479.473	414900	7075.33333	N/A
39	1/15/2024	93.707	9995.683	7290.92	4922.741	412580	9142.09524	N/A
40	1/15/2024	93.92938	10115.6	7444.12	4916.179	416360	7273.57143	N/A
41	1/16/2024	92.28308	9856.774	7276.48	4683.677	410540	7073.80952	N/A
42	1/16/2024	92.44422	9767.199	6848.81	5148.432	407740	7010.35714	N/A
43	1/16/2024	93.53931	9842.702	6765.12	4515.544	405860	7567	N/A
44	1/16/2024	93.85069	9559.328	7313.41	4261.923	414780	7152.78571	N/A
45	1/16/2024	91.67	9435.126	6585.57	4371	407720	7044.88095	N/A
46	1/17/2024	91.79807	9599.856	7024.13	4350	401980	6977.16667	N/A
47	1/17/2024	94.45039	9790.571	6592.87	5109	416120	7144.66667	N/A
48	1/17/2024	94.97675	9896.647	7033.49	4359.387	407580	7116.88095	N/A
49	1/17/2024	93.75794	9132.517	6379.34	4677.78	409680	7103.52381	N/A
50	1/17/2024	94.8557	8701.377	5583.93	4761.25	410760	7094.59524	N/A
51	1/17/2024	96.96047	9214.883	4405.18	4340.867	404420	6979.95238	N/A
52	1/17/2024	96.54704	9087.359	5909.39	4445.967	406640	7035.2619	N/A
53	1/18/2024	97.56787	9083.666	3397.46	4266.813	409420	6963.78571	N/A
54	1/18/2024	97.40604	8925.621	6153.59	4436.787	410560	7124.71429	N/A
55	1/18/2024	95.2195	8353.43	7088.28	4471.821	419820	7217.2381	N/A
56	1/18/2024	96.58203	8552.776	7366.44	4577.439	415620	7140.19048	N/A
57	1/18/2024	95.92586	8651.589	6761.07	4406	408540	7116.69048	N/A
58	1/18/2024	97.64519	8911.235	5932.86	4402.271	408140	7007.92857	N/A
59	1/19/2024	97.98738	9073.366	5721.54	4514.9	414460	7070.61905	N/A
60	1/19/2024	97.79294	9193.015	4119.47	4611.502	411580	7195.47619	N/A
61	1/19/2024	95.37807	9151.364	6870.08	4803.801	405160	6914.90476	N/A
62	1/19/2024	97.56682	8842.948	6209.31	4148.168	408540	7077.71429	N/A
63	1/20/2024	98.08872	8771.012	5708.42	4068.937	406860	6857.07143	N/A
64	1/20/2024	97.51031	8465.786	6577.26	4224.367	404840	6913.19048	N/A
65	1/20/2024	97.80718	8613.677	6322.56	4405.233	407940	6925.57143	N/A
66	1/20/2024	97.35246	8702.81	5901.48	4048.318	412740	6769.54762	N/A
67	1/20/2024	96.64299	8514.571	5429.82	3990.868	407940	6859.80952	N/A
68	1/21/2024	98.20939	8506.719	6247.4	4083.393	408420	6801	N/A
69	1/21/2024	99.34022	8150.138	6408.69	3986.645	406603	6963	N/A
70	1/21/2024	96.77955	7809.315	7027.05	4165.142	403720	6936.69048	N/A
71	1/21/2024	97.75429	7760.796	6060.8	4102.21	406580	6716.83333	N/A
72	1/21/2024	98.0739	7747.748	6730.89	4142	415980	6940.28571	N/A
73	1/22/2024	97.84361	8384.03	7996.19	4134.121	416560	6878.88095	N/A
74	1/22/2024	98.1354	7712.969	6578.13	4311.888	417380	6800.7381	N/A
75	1/22/2024	97.89373	7698.49	7385.87	4169.408	404200	6873.33333	N/A
76	1/22/2024	96.04197	7505.351	5383.23	4122	413860	6839.04762	N/A
77	1/22/2024	97.40235	8601.209	6319.21	4166.334	415960	6888.59524	N/A
78	1/22/2024	97.79334	8313.958	6432.39	4412.558	414400	6703.83333	N/A
	AVERAGE	93	9,469	6,509	4,336	31,778,203	552,504	TOTAL

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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	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	2,114	2,024	2,115
Big Lime	2,140	2,878	2,115	2,879
Fifty Foot Sandstone	2,878	3,020	2,853	3,020
Gordon	3,020	3,238	2,994	3,239
Fifth Sandstone	3,238	3,300	3,213	3,300
Bayard	3,300	4,085	3,274	4,094
Speechley	4,085	4,348	4,068	4,362
Balltown	4,348	4,803	4,336	4,828
Bradford	4,803	5,181	4,802	5,218
Benson	5,181	5,621	5,192	5,670
Alexander	5,621	6,782	5,644	6,887
Sycamore	6,630	6,756	6,711	6,861
Middlesex	6,756	6,855	6,861	7,003
Burkett	6855	6882	7003	7052
Tully	6882	6961	7052	7240
Marcellus	6961	NA	7240	NA

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08/16/2024

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	01/07/2024
Job End Date:	01/22/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03589-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	VIEWER UNIT 1H
Latitude:	39.5567
Longitude:	-80.7309
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7036
Total Base Water Volume (gal)*:	24310696
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
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					

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Items above are Trade Names. Items below are the individual ingredients.

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A handwritten signature in blue ink, appearing to be "MD", is located in the bottom right corner of the page.

			Water	7732-18-5	100.00000	88.28709	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.54063	None
			Water	7732-18-5	100.00000	0.14743	None
			Hydrochloric acid	7647-01-0	30.00000	0.03291	None
			Complex amine compound	Proprietary	60.00000	0.03056	None
			Hydrotreated distillate	Proprietary	30.00000	0.01528	None
			Guar gum	9000-30-0	100.00000	0.00418	None
			Ammonium chloride	12125-02-9	5.00000	0.00255	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00255	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00255	None
			Glutaraldehyde	111-30-8	30.00000	0.00215	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
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00036	None
			Methanol	67-56-1	100.00000	0.00021	None
			Ammonium persulfate	7727-54-0	100.00000	0.00010	None
			Ethanol	64-17-5	1.00000	0.00007	None
			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	0.00003	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.

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Environmental Protection

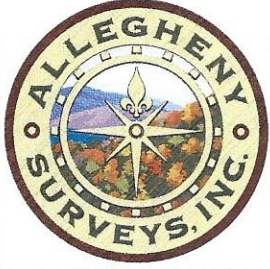
08/16/2024

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. Viewer 1H
As-Drilled
 Antero Resources Corporation

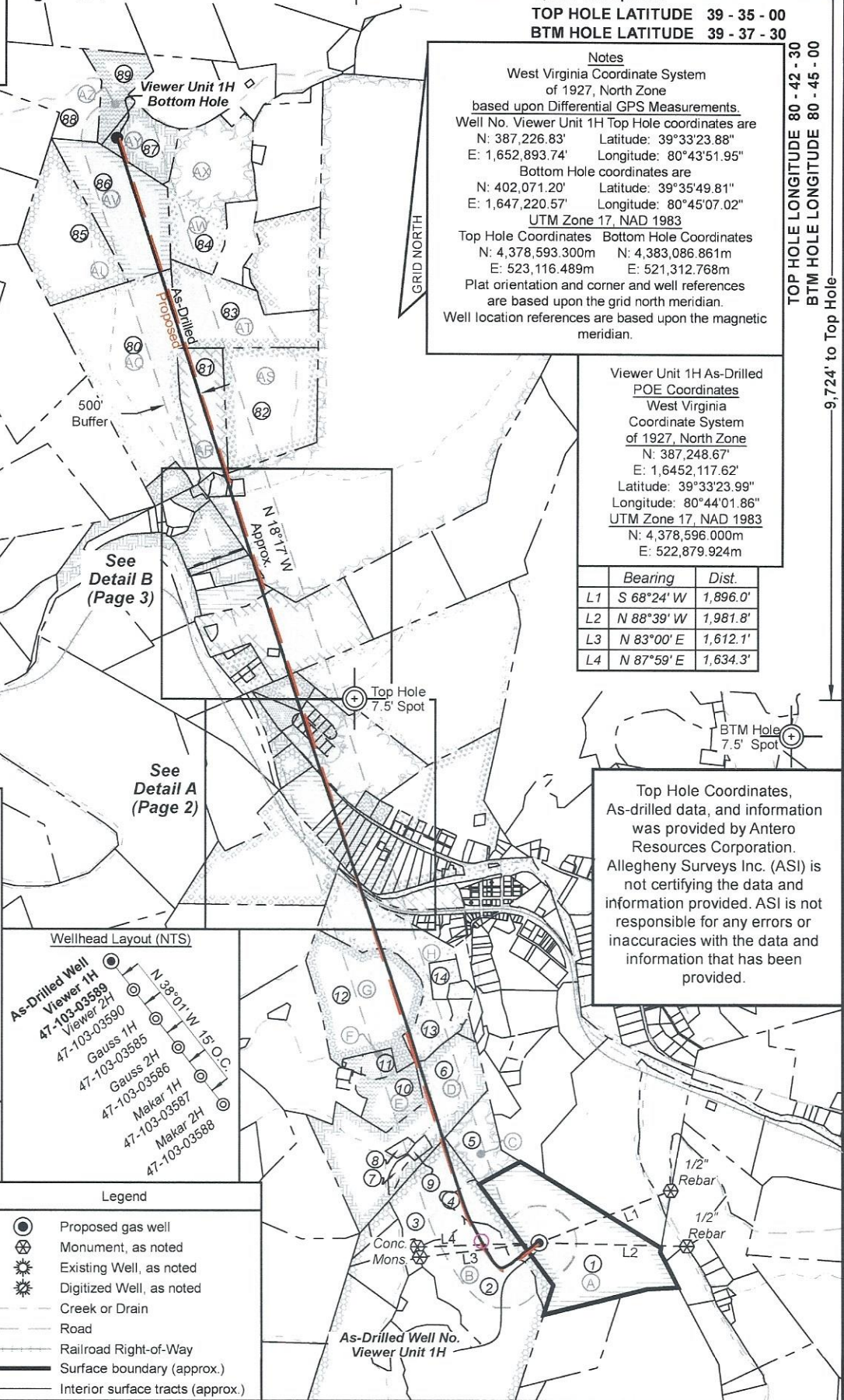
Page 1 of 4



550' to Bottom Hole
 6,418' to Top Hole
 TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 37 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Viewer Unit 1H Top Hole coordinates are
 N: 387,226.83' Latitude: 39°33'23.88"
 E: 1,652,893.74' Longitude: 80°43'51.95"
 Bottom Hole coordinates are
 N: 402,071.20' Latitude: 39°35'49.81"
 E: 1,647,220.57' Longitude: 80°45'07.02"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,378,593.300m N: 4,383,086.861m
 E: 523,116.489m E: 521,312.768m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

TOP HOLE LONGITUDE 80 - 42 - 30
 BTM HOLE LONGITUDE 80 - 45 - 00
 9,724' to Top Hole
 10,136' to Bottom Hole

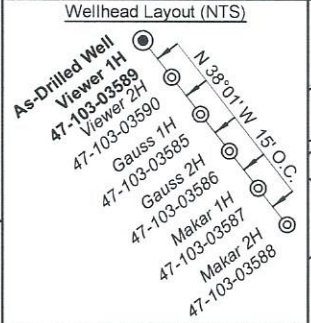


Viewer Unit 1H As-Drilled POE Coordinates West Virginia Coordinate System of 1927, North Zone
 N: 387,248.67'
 E: 1,6452,117.62'
 Latitude: 39°33'23.99"
 Longitude: 80°44'01.86"
 UTM Zone 17, NAD 1983
 N: 4,378,596.000m
 E: 522,879.924m

	Bearing	Dist.
L1	S 68°24' W	1,896.0'
L2	N 88°39' W	1,981.8'
L3	N 83°00' E	1,612.1'
L4	N 87°59' E	1,634.3'

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



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.)

Spring
 Water Well
 Water Well (x2)
 2000'
 As-Drilled Well No. Viewer Unit 1H
 47-103-01231A
 Spring Water Well Spring

Note: 6 water wells and 3 springs 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.

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.

FILE NO: 27-34-G-18
 DRAWING NO: Viewer Unit 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: June 20 20 24
 OPERATOR'S WELL NO. Viewer Unit 1H
 API WELL NO
 47 - 103 - 03589
 STATE COUNTY PERMIT

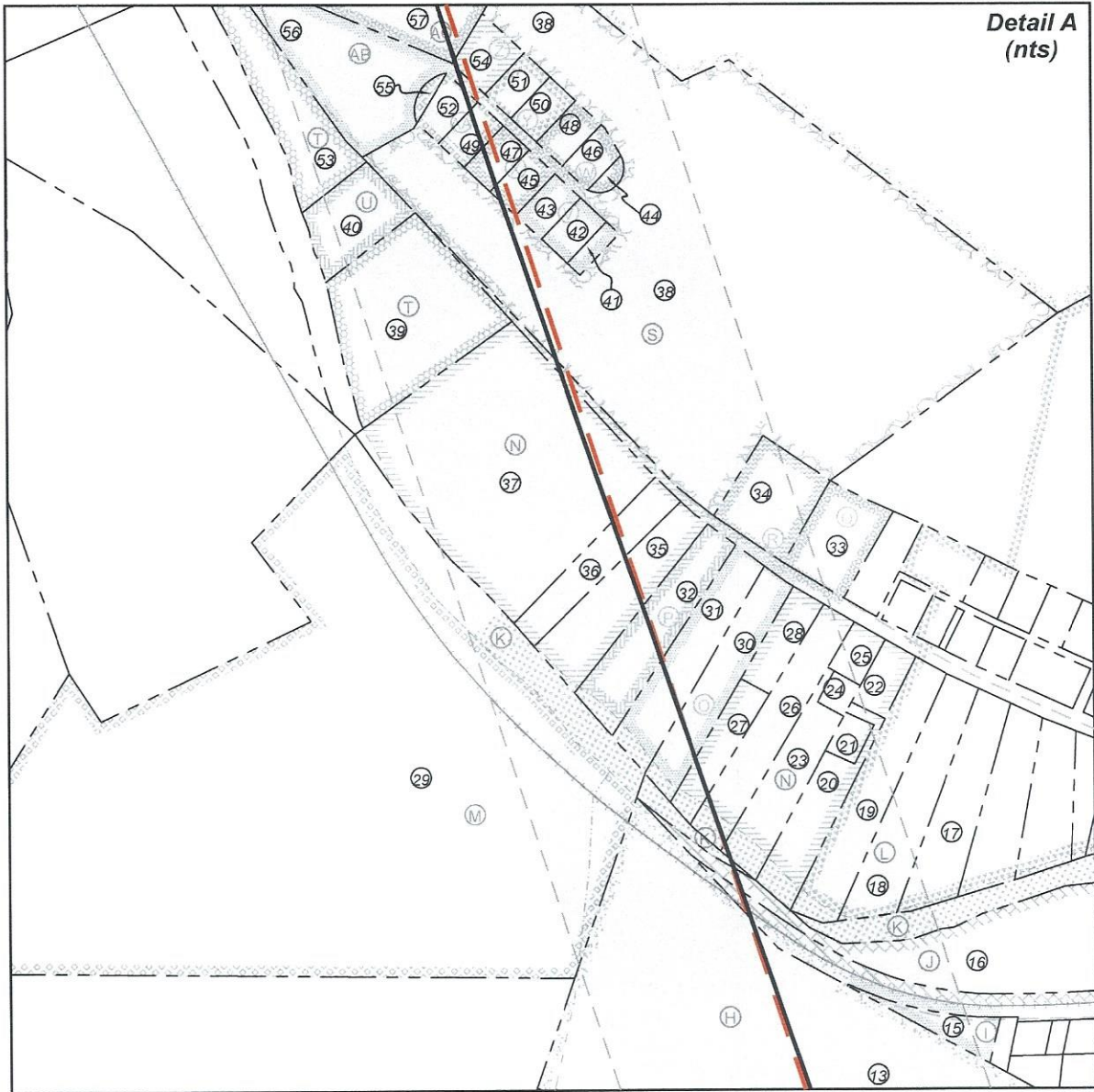
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Drilled 1,211' 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: 22,886' 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



FILE NO: 27-34-G-18
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 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

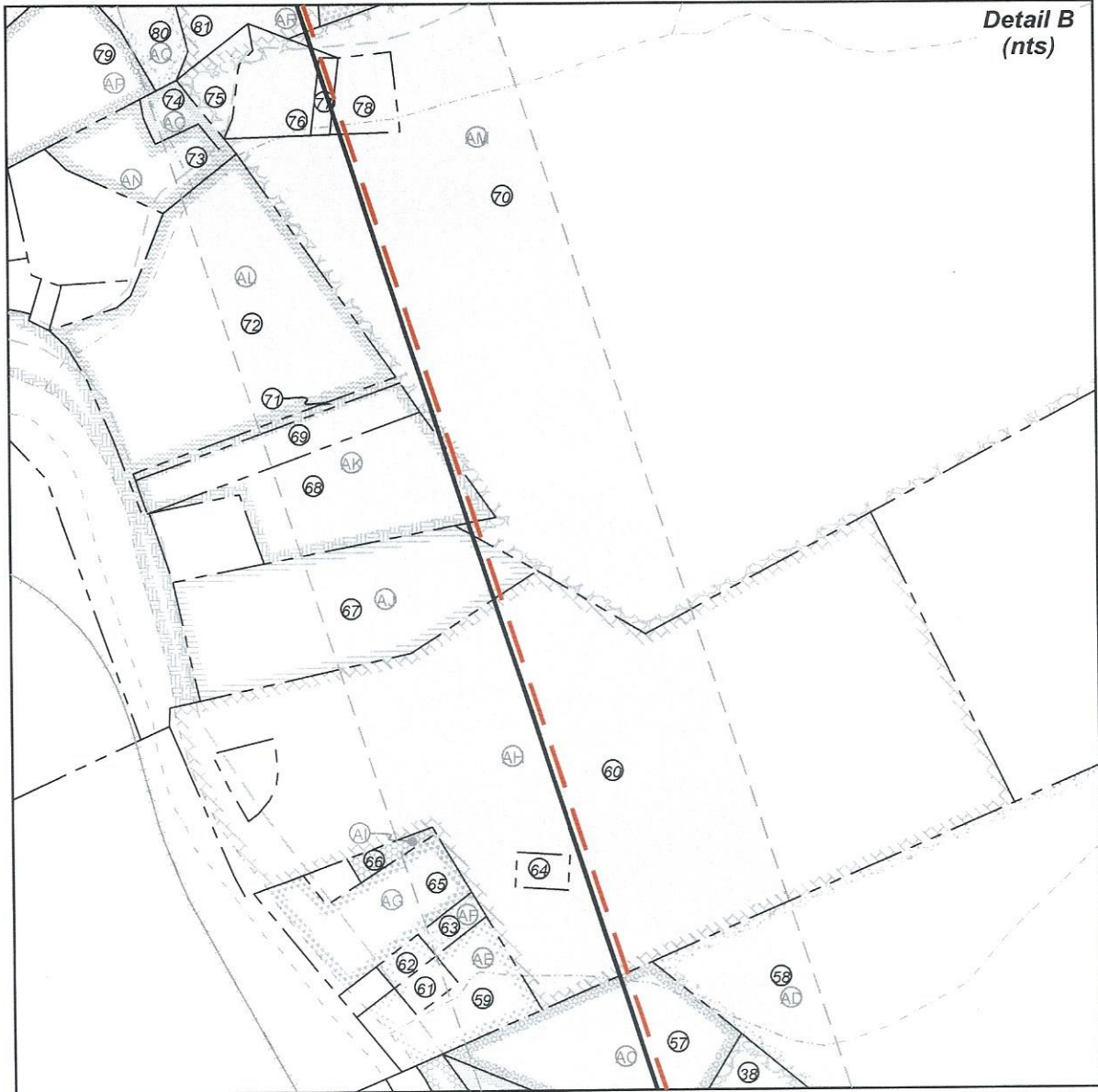
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WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,886' MD 6,963' 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

06/16/2024



FILE NO: 27-34-G-18
 DRAWING NO: Viewer Unit 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: June 20 20 24
 OPERATOR'S WELL NO. Viewer Unit 1H
 API WELL NO
 47 — 103 — 03589
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Drilled 1,211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wayne
 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 6,963' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,886' 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

06/16/2024

**Antero Resources
Well No. Viewer 1H
As-Drilled**

Antero Resources Corporation



Leases	
A	James Allen Sell
B	William R. Stalnaker
C	George Neason Myers, et ux
D	Antero Minerals, LLC
E	John Ronald Harter, et ux
F	Dean H. Bucher
G	Dean H. Bucher
H	Dean H. Bucher
I	Kenneth Calvin Willard
J	Ruby Lynn Price
K	WVDNR
L	Shiben Estates, Inc.
M	Coastal Forest Resources Co.
N	Nola Jean Parks
O	Howard D. Bucher, et ux
P	Dean H. Bucher
Q	Kimberly K. McCale
R	Bryan J. Lemasters, et ux

Leases	
S	Michael Paul Melott, et ux
T	Betty C. Long
U	Gary R. Partridge, et ux
V	Teresa R. Brown
W	Jack E. Dakan, et ux
X	William J. Hupp, et ux
Y	Joseph L. Cain, et ux
Z	Katrina D. Swiger
AA	Bonnie Jean Brown
AB	Roger L. Harrison, et ux
AC	Roger Dean Long, et ux
AD	Chesapeake Appalachia, LLC
AE	Timothy L. McDiffitt, et ux
AF	Daniel S. Brown
AG	Judy Smith
AH	Margaret Lancaster, et vir
AI	Margaret Lancaster

Leases	
AJ	Rocky G. Miracle, et ux
AK	H. Dorn Higginbotham, et ux
AL	H. Dorn Higginbotham, et ux
AM	Shiben Estates Inc.
AN	Donald Ardell Howell
AO	Samuel R. Haught, et ux
AP	Lloyd Lee King
AQ	Carolyn Jacobs Hampson
AR	Lillian Priscilla Grimm
AS	Barbara Anne Amos King
AT	Valerie Preat
AU	P&P Fujimo LLC
AV	Maria Delia Estrada
AW	Nancy B. Hatfield, et al
AX	Nancy B. Hatfield, et al
AY	Nancy B. Hatfield, et al
AZ	Nancy B. Hatfield, et al

ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	Antero Resources Corp.	483/888	58.10
2	17-60	Ross Bucher	411/765	79.00
3	17-57	Steven C. & Bertie G. Blinkman	388/243	20.60
4	17-1	Antero Resources Corp	483/888	15.35
5	13-69.1	Donald L. Mason	410/759	14.00
6	13-69	Donald L. Mason	410/759	69.61
7	13-69.4	David P. & Jami D. Morris	450/428	1.46
8	13-69.2	Carol S. Bishop	344/568	1.25
9	13-69.3	David P. & Jami D. Morris	364/9	1.25
10	13-68	John Ronald & Johnna Shay Harter	437/867	14.62
11	13-68.1	Charles M. Haught	315/642	3.44
12	13-43	John R. & Johnna S. Harter	437/867	46.25
13	13-90	Coastal Forest Resources Co.	444/105	36.13
14	13-91	Coastal Forest Resources Co.	444/105	3.47
15	28-42	George Keck	71/258	0.50
16	28-25	Sara Larrimore, et al	AP107/99	4.50
17	28-20	Thelma L. Brideman	MS10/131	1.82
18	28-19	Ricky L. & Cindy S. Wade	420/441	2.07
19	28-18	Ronald S. Anderson	417/63	2.14
20	28-17.2	Darel L. & Joyce A. Ueltschy	424/365	1.33
21	28-17.1	Darel L. & Joyce A. Ueltschy	424/365	0.25
22	28-17	Sharyn D. Utt	360/348	0.49
23	28-15	Nathan D. & Jacqueline Johnson	404/399	1.46
24	28-16	Nathan D. & Jacqueline Johnson	404/399	0.20
25	28-15.1	Christopher David Thomas	365/112	0.35
26	28-14	Benjamin F. & Ruth Kocher	242/14	1.83
27	28-13	Benjamin F. & Ruth Kocher	221/369	0.83
28	28-12	Benjamin F. Kocher	202/264	0.67
29	13-28	Coastal Forest Resources Co.	444/105	46.2
30	28-11	Howard D. & Clara Mae Bucher	285/483	1.62
31	28-10	Dale & Clara M. Bucher	198/265	1.78
32	28-9	Cecil E. McDiffitt	308/298	1.85
33	28-2.6	Phillip Bassett	440/61	---
34	28-1	Bryan J. & Christina D. Lemasters	315/335	---
35	28-8	John C. & Wilma Jean Brown	212/387	1.85
36	28-7.1	Gloria D. & Eugene Mason, Jr.	261/373	1.24
37	28-7	William C. & Blanche Kocher	196/423	8.35
38	13-19.1	Michael Paul & Tamatha Lynn Melott	379/128	23.95
39	13-20	Betty Long	191/288	6.94
40	13-20.1	Gary R. & Angela E. Partridge	451/425	1.39
41	13A-29	Alyson P. Weber	439/352	0.18
42	13A-22	Alyson P. Weber	439/352	0.37
43	13A-21	Alyson P. Weber	439/352	0.37
44	13A-28	Jack E. & Constance D. Dakan	354/503	0.10
45	13A-20	William J. & Velma S. Hupp	300/343	0.37

ID	TM-Par	Owner	Bk/Pg	Acres
46	13A-27	Jack E. & Constance D. Dakan	268/88	0.34
47	13A-19	William J. & Velma S. Hupp	300/343	0.37
48	13A-26	Jack E. & Constance D. Dakan	273/171	0.37
49	13A-18	Bonnie Jean Brown	362/553	0.37
50	13A-25	Joseph L. & Roberta E. Cain	378/385	0.37
51	13A-24	Joseph L. & Roberta E. Cain	378/385	0.37
52	13A-17	Bonnie Jean Brown	318/576	0.38
53	13-20	Betty Long	191/288	6.94
54	13A-23.1	Katrina D. Swiger	388/273	0.54
55	13A-30	Bonnie Jean Brown	362/553	0.11
56	13-19.3	Roger L. & Sarah M. Harrison	455/399	3.00
57	13-19.2	Roger D. & Kimmie L. Long	313/183	4.99
58	13-13	Linda M. Headley	385/209	85.5
59	13-12.3	Timothy L. & Tammy D. McDiffitt	441/68	2.24
60	13-6	Margaret Lancaster	333/440	39.39
61	13-12.2	Timothy L. & Tammy D. McDiffitt	441/68	0.34
62	13-12.1	Timothy L. & Tammy D. McDiffitt	441/68	0.27
63	13-12.4	Bradley Keith & Daniel Scott Brown	440/781	0.48
64	13-5	Cochran Cemetery	---/---	0.35
65	13-12	Judy Smith	341/320	2.71
66	13-14	Phillip Dale Haught	465/207	0.32
67	13-4	Rocky G. & Vicki S. Miracle	325/11	6.89
68	8-36.6	Kevin R. & Ronald L. Hall	360/124	4.25
69	8-38.7	Robert & Carolyn Kocher	269/420	1.86
70	8-28	Nancy B. Hatfield	474/48/1	449.48
71	8-38.10	Robert P. & Carolyn J. Kocher	484/459	0.36
72	8-38.2	H. Dorn Higginbotham & Janet L. Higginbotham	286/386	10.32
73	8-40	Ronald M. Jackson	487/60	1.74
74	8-40.1	Teresa D. Post	464/331	0.57
75	8-28.2	Theresa A. Ice	347/368	0.85
76	8-28.3	Theresa Ann Ice	368/549	1.72
77	8-28.4	Debra K. Fluharty	451/394	0.27
78	8-28.1	Debra K. Fluharty	342/680	0.89
79	8-39	John F. King	25/264	4.5
80	8-30	Michael L. & Erin M. Greathouse	363/91	76
81	8-33	Lloyd L. King	319/55	20.35
82	8-34	Peter S. & Marietta A. Florea	420/915	42
83	8-31	Valerie Preat	416/599	32.5
84	8-48	James D. Highley Jr.	472/167	41.00
85	8-21	BP Mineral Holdings II LLC	425/427	43.5
86	8-22	John D. & Connie J. Morgan	417/944	40
87	8-12	John D. & Connie J. Morgan	417/944	13.60
88	8-10	Andrea Wade	420/853	35.50
89	8-11	Andrea Wade	420/853	13.50

FILE NO: 27-34-G-18
DRAWING NO: Viewer Unit 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: June 20 20 24
OPERATOR'S WELL NO: Viewer Unit 1H
API WELL NO
47 — 103 — 03589
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Drilled 1,211' 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: 22,886' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Kevin Ellis

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330