

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

API 47-095-02695 County Tyler District Ellsworth
Quad Porter Falls Pad Name Pyles Pad Field/Pool Name -----
Farm name Richard D Pyles Well Number Friend 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop St 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 4372711m Easting 514002m
Landing Point of Curve Northing 4372667.03m Easting 513776.01
Bottom Hole Northing 4377213m Easting 512254m

Elevation (ft) 1081' 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 06/05/2020 Date drilling commenced 8/24/2020 Date drilling ceased 9/5/2020
Date completion activities began 11/14/2020 Date completion activities ceased 2/7/2021
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 61 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2200 Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:

SMY
2/16/23
03/17/2023

API 47-095 - 02695 Farm name Richard D Pyles Well number Friend 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	24"	20"	80'	New	94# H-40	N/A	Y
Surface	17-1/2"	13-3/8"	347'	New	54.5# J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2549'	New	40# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	22911'	New	23# P-110	N/A	Y
Tubing		2-3/8"	6912'		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	285 sx	15.6	1.18	60	0	8 Hrs
Surface	Class A	500 sx	15.6	1.20	100	0	8 Hrs
Coal							
Intermediate 1	Class A	884 sx	15.6	1.19	187	0	8 Hrs
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3632 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	845	-500' into intermediate casing	8 Hrs
Tubing							

Drillers TD (ft) 22956' MD, 6532' TVD (BHL), 6632' (Deepest Point Drilled) Loggers TD (ft) 22956' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5866'

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 ever 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 on top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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API 47-095 - 02695 Farm name Richard D Pyles Well number Friend 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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API 47- 095 - 02695 Farm name Richard D Pyles Well number Friend 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6583' (Top)</u> TVD	<u>6982' (Top)</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 14797 mcfpd Oil 547 bpd NGL --- bpd Water 596 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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*PLEASE SEE ATTACHED EXHIBIT 3					

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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 Oilfield Services
Address 300 Schlumberger Dr City Sugarland State TX Zip 77478

Stimulating Company Halliburton
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 2/2/2023

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

03/17/2023
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Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	11/14/2020	22831.5	22784.2	60	Marcellus
2	11/15/2020	22627	22466	60	Marcellus
3	11/15/2020	22490.58874	22265.5325	60	Marcellus
4	11/15/2020	22230.12121	22065.0649	60	Marcellus
5	11/16/2020	22029.65368	21864.5974	60	Marcellus
6	11/16/2020	21829.18615	21664.1299	60	Marcellus
7	11/16/2020	21628.71861	21463.6623	60	Marcellus
8	11/17/2020	21428.25108	21263.1948	60	Marcellus
9	11/17/2020	21227.78355	21062.7273	60	Marcellus
10	11/17/2020	21027.31602	20862.2597	60	Marcellus
11	11/17/2020	20826.84848	20661.7922	60	Marcellus
12	11/17/2020	20626.38095	20461.3247	60	Marcellus
13	11/18/2020	20425.91342	20260.8571	60	Marcellus
14	11/18/2020	20225.44589	20060.3896	60	Marcellus
15	11/18/2020	20024.97835	19859.9221	60	Marcellus
16	11/18/2020	19824.51082	19659.4545	60	Marcellus
17	11/19/2020	19624.04329	19458.987	60	Marcellus
18	11/19/2020	19423.57576	19258.5195	60	Marcellus
19	11/19/2020	19223.10823	19058.0519	60	Marcellus
20	11/19/2020	19022.64069	18857.5844	60	Marcellus
21	11/20/2020	18822.17316	18657.1169	60	Marcellus
22	11/20/2020	18621.70563	18456.6494	60	Marcellus
23	11/20/2020	18421.2381	18256.1818	60	Marcellus
24	11/20/2020	18220.77056	18055.7143	60	Marcellus
25	11/20/2020	18020.30303	17855.2468	60	Marcellus
26	11/21/2020	17819.8355	17654.7792	60	Marcellus
27	11/21/2020	17619.36797	17454.3117	60	Marcellus
28	11/21/2020	17418.90043	17253.8442	60	Marcellus
29	11/21/2020	17218.4329	17053.3766	60	Marcellus
30	11/21/2020	17017.96537	16852.9091	60	Marcellus
31	11/22/2020	16817.49784	16652.4416	60	Marcellus
32	11/22/2020	16617.0303	16451.974	60	Marcellus
33	11/22/2020	16416.56277	16251.5065	60	Marcellus
34	11/22/2020	16216.09524	16051.039	60	Marcellus
35	11/23/2020	16015.62771	15850.5714	60	Marcellus
36	11/23/2020	15815.16017	15650.1039	60	Marcellus
37	11/23/2020	15614.69264	15449.6364	60	Marcellus
38	11/23/2020	15414.22511	15249.1688	60	Marcellus
39	11/24/2020	15213.75758	15048.7013	60	Marcellus
40	11/24/2020	15013.29004	14848.2338	60	Marcellus
41	11/24/2020	14812.82251	14647.7662	60	Marcellus
42	11/24/2020	14612.35498	14447.2987	60	Marcellus
43	11/25/2020	14411.88745	14246.8312	60	Marcellus
44	11/25/2020	14211.41991	14046.3636	60	Marcellus
45	11/26/2020	14010.95238	13845.8961	60	Marcellus
46	11/26/2020	13810.48485	13645.4286	60	Marcellus
47	11/26/2020	13610.01732	13444.961	60	Marcellus
48	11/27/2020	13409.54978	13244.4935	60	Marcellus
49	11/27/2020	13209.08225	13044.026	60	Marcellus
50	11/28/2020	13008.61472	12843.5584	60	Marcellus
51	11/28/2020	12808.14719	12643.0909	60	Marcellus
52	11/28/2020	12607.67965	12442.6234	60	Marcellus
53	11/28/2020	12407.21212	12242.1558	60	Marcellus
54	11/28/2020	12206.74459	12041.6883	60	Marcellus
55	11/29/2020	12006.27706	11841.2208	60	Marcellus
56	11/29/2020	11805.80952	11640.7532	60	Marcellus
57	11/29/2020	11605.34199	11440.2857	60	Marcellus
58	11/29/2020	11404.87446	11239.8182	60	Marcellus
59	11/30/2020	11204.40693	11039.3506	60	Marcellus
60	11/30/2020	11003.93939	10838.8831	60	Marcellus
61	11/30/2020	10803.47186	10638.4156	60	Marcellus
62	11/30/2020	10603.00433	10437.9481	60	Marcellus
63	11/30/2020	10402.5368	10237.4805	60	Marcellus
64	12/1/2020	10202.06926	10037.013	60	Marcellus
65	12/1/2020	10001.60173	9836.54545	60	Marcellus
66	12/1/2020	9801.134199	9636.07792	60	Marcellus
67	12/1/2020	9600.666667	9435.61039	60	Marcellus
68	12/2/2020	9400.199134	9235.14286	60	Marcellus
69	12/2/2020	9199.731602	9034.67532	60	Marcellus
70	12/3/2020	8999.264069	8834.20779	60	Marcellus
71	12/3/2020	8798.796537	8633.74026	60	Marcellus
72	12/3/2020	8598.329004	8433.27273	60	Marcellus
73	12/3/2020	8397.861472	8232.80519	60	Marcellus
74	12/3/2020	8197.393939	8032.33766	60	Marcellus
75	12/4/2020	7996.926407	7831.87013	60	Marcellus
76	12/4/2020	7796.458874	7631.4026	60	Marcellus
77	12/4/2020	7595.991342	7430.93506	60	Marcellus
78	12/4/2020	7395.52381	7230.46753	60	Marcellus
79	12/4/2020	7195.056277	7030	60	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	11/14/2020	71.31	9793.81	9105.97	3545.23	185900	238115	N/A
2	11/15/2020	80.78	9665	6109	4106	412800	437806	N/A
3	11/15/2020	84.48	10028	6050	4151	417920	315024	N/A
4	11/15/2020	86.76	10093	5727	4055	416520	317575	N/A
5	11/16/2020	76.62	8678	4959	4562	416480	353157	N/A
6	11/16/2020	89.1	9739	4830	4411	413690	320238	N/A
7	11/16/2020	86.54	10072	3529	4412	416760	304517	N/A
8	11/17/2020	86.98	10225	5657	4340	417870	296882	N/A
9	11/17/2020	86.49	9790		4172	418260	313212	N/A
10	11/17/2020	89.29	9908	5841	4044.03	412040	295651	N/A
11	11/17/2020	89.16	10069	6241	4370	414320	298178	N/A
12	11/17/2020	89.77	10048	5335	4397	415630	295672	N/A
13	11/18/2020	86.75	9673	6374	4014	416940	296850	N/A
14	11/18/2020	90.64	10039	5719	4220	413580	297230	N/A
15	11/18/2020	89.78	10062	5054	4369	419800	302826	N/A
16	11/18/2020	87.51	10036	6215	4060	415840	291429	N/A
17	11/19/2020	90.93	9992	6120	4637	415710	295953	N/A
18	11/19/2020	86.82	9828	5985	4423	418480	309507	N/A
19	11/19/2020	90.01	9975	5107	4388	421140	295089	N/A
20	11/19/2020	90.85	9932	7345	3869	416705	288219	N/A
21	11/20/2020	90.74	9721	7964	4274	419310	289598	N/A
22	11/20/2020	90.54	9939	7679	4159	416970	290589	N/A
23	11/20/2020	90.31	10056	8505	3604	416970	285410	N/A
24	11/20/2020	89.93	9559	9084	4531	418010	292530	N/A
25	11/20/2020	93.78	9933	6946	4367	418120	288702	N/A
26	11/21/2020	95.03	9877	8100	4385	415020	288360	N/A
27	11/21/2020	93.23	10037	8884	4129	421140	292909	N/A
28	11/21/2020	96.14	9800	7934	4249	419130	290095	N/A
29	11/21/2020	94.24	10056	6038	3868	420940	288095	N/A
30	11/21/2020	93.87	9889	7103	4115	417530	288313	N/A
31	11/22/2020	94.73	9526	7287	3979	411190	286385	N/A
32	11/22/2020	95.98	10033	7228	4568	414320	288080	N/A
33	11/22/2020	91.54	9403	7277	4333	419110	289767	N/A
34	11/22/2020	89.42	9580	6763	4415	415900	293168	N/A
35	11/23/2020	91.25	9987	7371	4295	415510	286033	N/A
36	11/23/2020	95.72	9780	7578	4522	417310	286927	N/A
37	11/23/2020	88.73	9968	8117	3984	420050	289622	N/A
38	11/23/2020	93.75	9872	5907	4093	419570	287233	N/A
39	11/24/2020	95.18	9782	5180	3868	416050	287010	N/A
40	11/24/2020	96.38	9680	6501	3843	415560	290581	N/A
41	11/24/2020	95.75	9623	5644	4112	417840	291035	N/A
42	11/24/2020	93.56	9300.44	7222.95	3889.69	417950	295157	N/A
43	11/25/2020	96.05	9606	7376	3852	420180	295972	N/A
44	11/25/2020	96.51	9028	7404	3962	417780	289462	N/A
45	11/26/2020	94.04	8943	7262	4198	420200	290612	N/A
46	11/26/2020	87.96	8752	7522	4065	414070	280206	N/A
47	11/26/2020	94.83	9048	6613	4013	418780	306259	N/A
48	11/27/2020	95.02	9621	8933	3652	413120	291056	N/A
49	11/27/2020	91.37	9170.48	7748.25	3607.46	411250	302871	N/A
50	11/28/2020	97.27	9354	8064	3429	410580	293130	N/A
51	11/28/2020	95.82	9302	7703	3558	416960	286506	N/A
52	11/28/2020	93.14	8718	5786	3833	415200	301753	N/A
53	11/28/2020	95.7	8837	7294	3525	412150	281984	N/A
54	11/28/2020	96.78	8684	7128	3342	412340	289198	N/A
55	11/29/2020	96.94	8906	7509	3302	405660	280289	N/A
56	11/29/2020	96.67	8534	6621	3634	413710	284156	N/A
57	11/29/2020	97.46	8712	7159	3285	420030	287450	N/A
58	11/29/2020	95.98	8687		3517	420080	291629	N/A
59	11/30/2020	95.68	8808	8059	3545	411490	285983	N/A
60	11/30/2020	96.48	8426		3477	417380	291659	N/A
61	11/30/2020	97.03	8640	7714	3354	418640	284077	N/A
62	11/30/2020	97.05	8688	6866	4051	419650	284124	N/A
63	11/30/2020	95.68	8210	6707	4561	417860	289933	N/A
64	12/1/2020	95.45	8083	5985	3881	412110	288639	N/A
65	12/1/2020	95.87	8066	7989	4093	403520	293504	N/A
66	12/1/2020	96.53	8106	7053	4017	418160	298975	N/A
67	12/1/2020	97	8367	7157	3563	412060	306041	N/A
68	12/2/2020	94.84	7957		4305	417480	304810	N/A
69	12/2/2020	96.23	7861	6650	4049	419330	303866	N/A
70	12/3/2020	96.36	7980	7096	4223	411860	301238	N/A
71	12/3/2020	95.95	7886	7101	3905.56	410000	297326	N/A
72	12/3/2020	94.08	7671	6659	4197	411070	304127	N/A
73	12/3/2020	94.7	7606	5359	4171	414270	299824	N/A
74	12/3/2020	95.59	7742.08	6585	4529	416930	305114	N/A
75	12/4/2020	97.64	7693	7192	4037	407760	304094	N/A
76	12/4/2020	97.01	7636	6759	4104	418960	279064	N/A
77	12/4/2020	93.69	7287		4076	411870	295453	N/A
78	12/4/2020	94.64	7322	6512	4400	416320	297631	N/A
79	12/4/2020	97.19	7509	6851	4189	418460	302663	N/A
	AVG=	93	9,171	6,838	4,046	32,627,155	23,399,407	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
Shale	79	124	79	124
Shaley Siltstone	124	474	124	474
Silty Shale	474	574	474	574
Siltstone, Tr Shale	574	724	574	724
Silty Shale	724	824	724	824
Shaley Sandstone	824	1,024	824	1,024
Shale, Tr Siltstone	1,024	1,274	1,024	1,274
Shale, Tr Sandstone	1,274	1,524	1,274	1,524
Silty Shale	1,524	1,624	1,524	1,624
Sandstone, Tr Shale	1,624	1,724	1,624	1,724
Sandy Shale	1,724	1,774	1,724	1,774
Shaley Siltstone	1,774	1,824	1,774	1,824
Shale	1,824	1,955	1,824	1,957
Big Lime	1,981	2,690	1,983	2,692
Fifty Foot Sandstone	2,690	2,795	2,692	2,797
Gordon	2,795	3,101	2,797	3,104
Fifth Sandstone	3,101	3,175	3,104	3,179
Bayard	3,175	4,042	3,179	4,082
Speechley	4,042	4,169	4,082	4,216
Balltown	4,169	4,700	4,216	4,768
Bradford	4,700	4,987	4,768	5,074
Benson	4,987	5,365	5,074	5,470
Alexander	5,365	6,435	5,470	6,617
Sycamore	6,295	6,409	6,441	6,591
Middlesex	6,409	6,504	6,591	6,752
Burkett	6,504	6,528	6,752	6,806
Tully	6,528	6,583	6,806	6,982
Marcellus	6,583	NA	6,982	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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



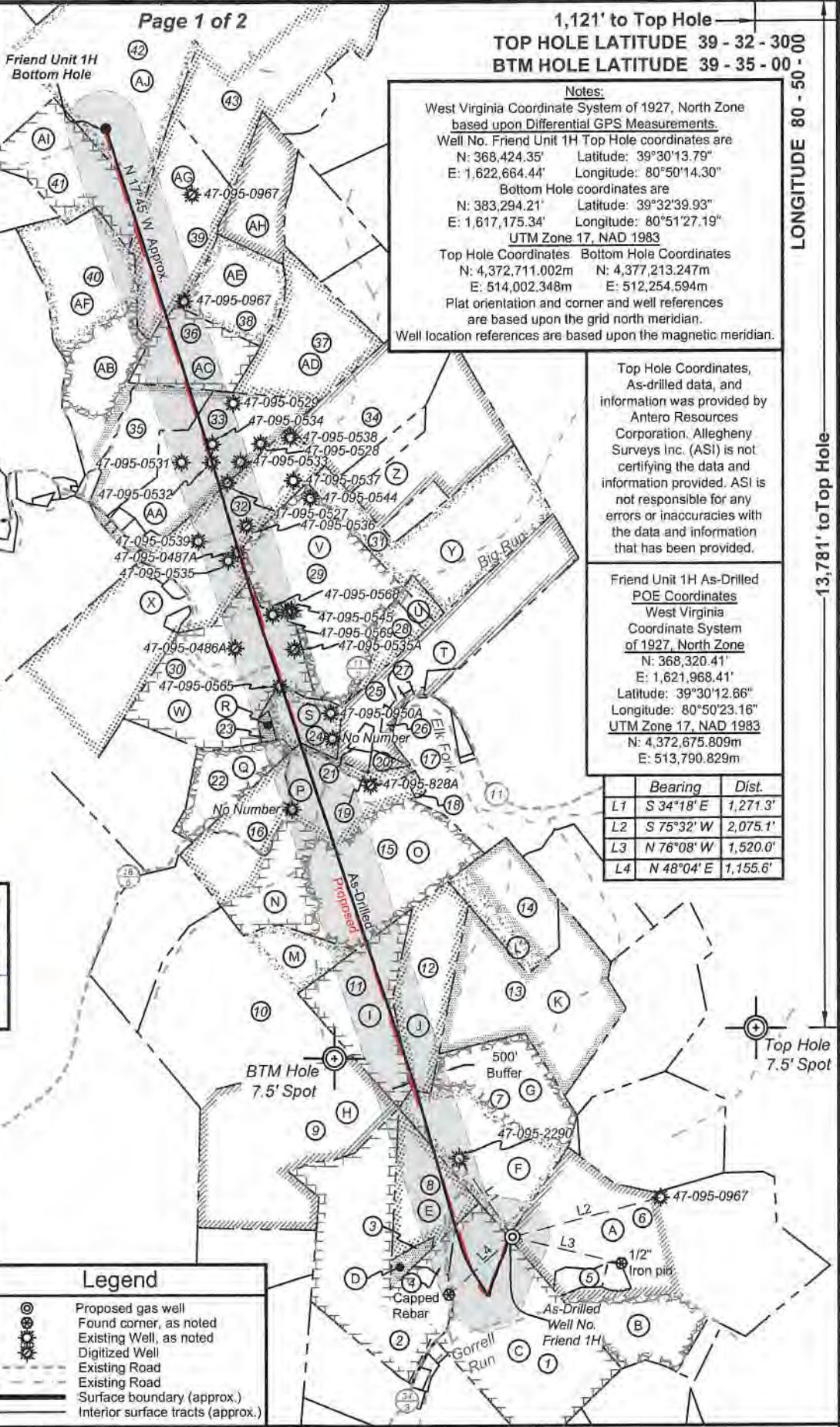
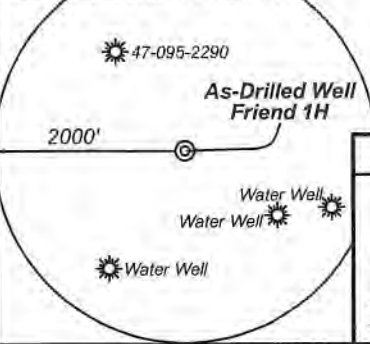
Wellhead Layout



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

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

Note: 3 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.



Legend

- Proposed gas well
- Found corner, as noted
- Existing Well, as noted
- Digitized Well
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

6,830' to Bottom Hole

1,121' to Top Hole
TOP HOLE LATITUDE 39 - 32 - 30.9
BTM HOLE LATITUDE 39 - 35 - 00.9

LONGITUDE 80 - 50 - 50

13,781' to Top Hole

14,172' to Bottom Hole

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Friend Unit 1H Top Hole coordinates are
 N: 368,424.35' Latitude: 39°30'13.79"
 E: 1,622,664.44' Longitude: 80°50'14.30"
 Bottom Hole coordinates are
 N: 383,294.21' Latitude: 39°32'39.93"
 E: 1,617,175.34' Longitude: 80°51'27.19"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,372,711.002m N: 4,377,213.247m
 E: 514,002.348m E: 512,254.594m
 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.

Friend Unit 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 368,320.41'
 E: 1,621,968.41'
 Latitude: 39°30'12.66"
 Longitude: 80°50'23.16"
UTM Zone 17, NAD 1983
 N: 4,372,675.809m
 E: 513,790.829m

Bearing	Dist.
L1 S 34°18' E	1,271.3'
L2 S 75°32' W	2,075.1'
L3 N 76°08' W	1,520.0'
L4 N 48°04' E	1,155.6'

FILE NO: 45-54-E-19
 DRAWING NO: Friend 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: February 24 2021
 OPERATOR'S WELL NO. Friend 1H
 API WELL NO
 47 - 095 - 02695
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
 DISTRICT: Ellsworth
 SURFACE OWNER: Richard D. Pyles
 ROYALTY OWNER: Richard D. Pyles, et ux; Joseph L. Sitko, et ux (2); BRC Appalachian Minerals I, LLC (3)
 DENNIS R. & CLISTA A. HEINTZMAN: ROSE ENTERPRISES, LLC;
 B&C OIL AND GAS COMPANY; SHARON ROSE FAINI; HELEN E. BOGGS
 CHARLES EUGENE FRIEND, ET UX; DARRELL SOLE; ALLEN SMITH;
 WILL E. MORRIS TRUST; JERRY SHOEMAKER; MICHAEL W. SCHMIDT, ET UX;
 COUNTY: Tyler
 ACREAGE: 168.5
 LEASE NO: ACREAGE: 119; 100; 30; 45; 134

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: 22,956' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

03/17/2023

59



ID	TM/Par	Owner	DB/PG	Acres
1	16-44	Robert A. Pyles, et al	335/482	87.82
2	15-38	Rodney A. & Candis L. Nash	351/701	85.48
3	16-23.1	Bruce Winkelmann	334/195	3.30
4	16-44.1	Carl Straight	543/ 598	3.70
5	16-42.1	Richard D. Pyles	336/815	4.56
6	16-42	Richard D. Pyles	379/20	168.50
7	16-22	Joesph L. Jr. & Karen Sitko	296/13	81.70
8	16-23	Joseph L. Sitko	314/462	29.7
9	15-30.1	Roger D. Blizzard & Ruth E. Spencer	343/427	101.38
10	15-11	Roger Matthes	318/137	115.47
11	15-10	Antero Midstream, Inc.	617/739	34.13
12	16-1	Antero Midstream, Inc.	617/739	35.25
13	16-2	David E. Bowyer	622/775	80.75
14	16-4	Darrell J. Sole	227/376	35.00
15	15-9	Antero Midstream, LLC	586/544	132.19
16	15-8	William A. & Joyce L. Caputo	245/485	14.00
17	11-36	David W. Fiber	574/847	21.16
18	10-53	Kathy M. & Doug O. Smith	331/220	1.10
19	10-52	Darwin & Shirley Martin	306/537	5.00
20	10-72	Darwin & Shirley Martin	322/28	1.99
21	10-73	Darwin & Shirley Martin	306/537	1.90
22	10-56	Mary K. Neff	413/731	22.06
23	10-55	Charles & Shirley E. Neff	218/46	1.47
24	10-54	Michael W. & Brenda S. Schmidt	244/409	14.06
25	11-32	Darwin & Shirley Martin	348/344	60.66
26	10-70	Darwin & Shirley Martin	326/490	1.19
27	11-32.2	Bernard R. & Denise F. McDougal	636/587	0.54
28	10-51	Charles E. & Laura Lynn Friend	334/839	8.03
29	10-49	Charles E. & Laura Lynn Friend	334/836	71.52
30	10-57	Charles E. & Laura Lynn Friend	334/836	84.39
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42	6-36	Dennis & Clista A. Heintzman	297/640	417.06
43	6-30.1	Larry M. & Amy B. Adams	369/344	150.34

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I	BRC Appalachian Minerals I, LLC
J	BRC Appalachian Minerals I, LLC
K	BRC Appalachian Minerals I, LLC
L	BRC Appalachian Minerals I, LLC
M	James Matthes
N	James L. Newsom Revocable Trust
O	Will E. Morris Trust
P	Jerry Shoemaker
Q	Kenneth R. Baker
R	Shirley E. Neff
S	Michael W. Schmidt, et ux
T	Haught Family Trust
U	Karen J. Wolfe
V	Darrell Sole
W	Charles Eugene Friend, et ux
X	Allen Smith
Y	Ridgetop Capital II, LP
Z	Helen M. Karcinski, et al
AA	B&C Oil and Gas Company
AB	BRC Appalachian Minerals I, LLC
AC	Sharon Rose Faini
AD	BRC Appalachian Minerals I, LLC
AE	B&C Oil and Gas Company
AF	Bounty Minerals, LLC
AG	Rose Enterprises, LLC
AH	B&C Oil and Gas Company
AI	Dennis R. & Clista A. Heintzman
AJ	BRC Appalachian Minerals I, LLC

FILE NO: 45-54-E-19
 DRAWING NO: Friend 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

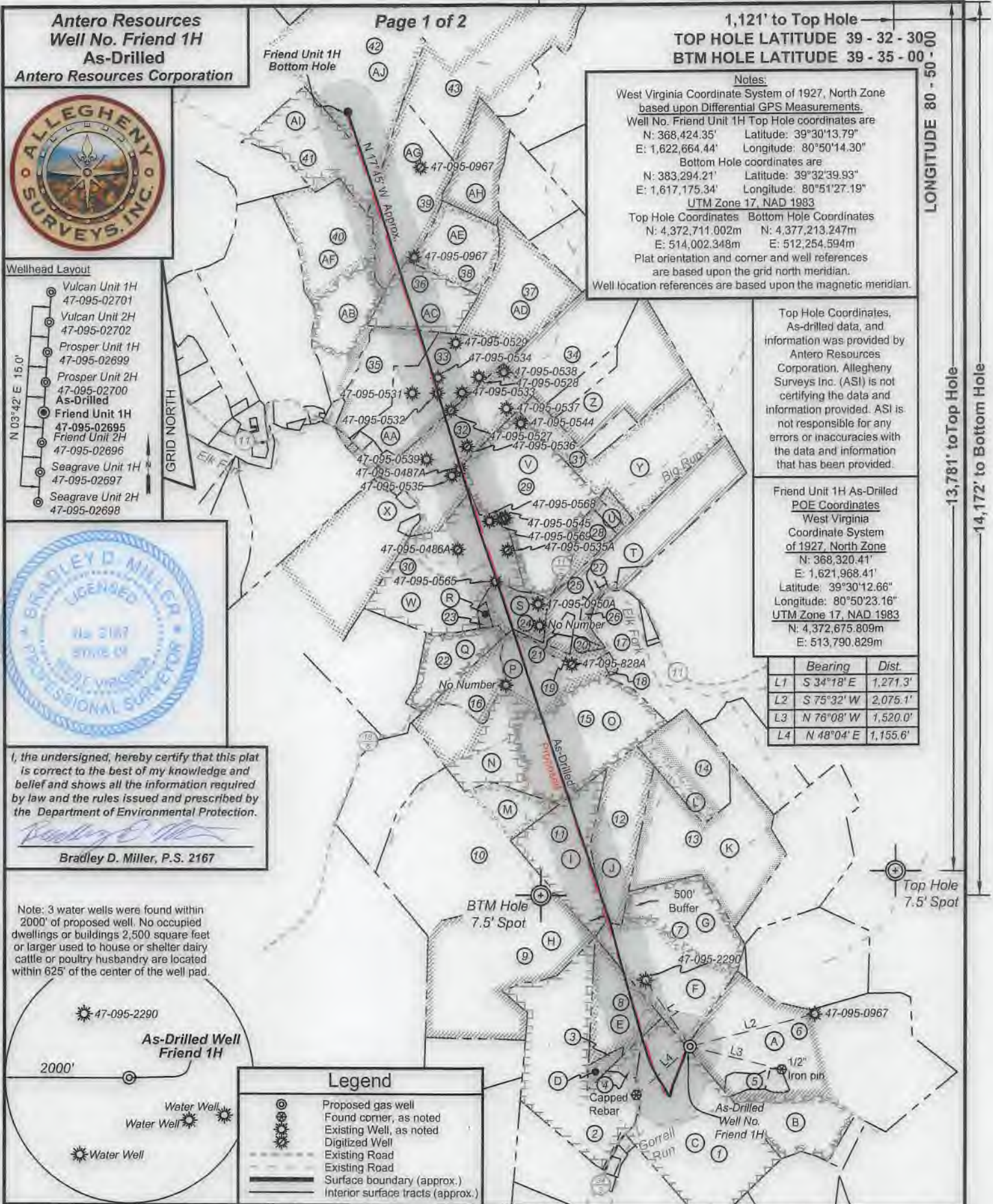
DATE: February 24 2021
 OPERATOR'S WELL NO. Friend 1H
 API WELL NO
 47 - 095 - 02695
 STATE COUNTY PERMIT

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

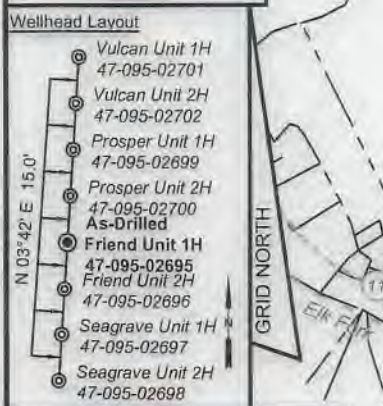
LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
 DISTRICT: Ellsworth DENNIS R. & CLISTA A. HEINTZMAN; ROSE ENTERPRISES, LLC; COUNTY: Tyler 03/17/2023
 SURFACE OWNER: Richard D. Pyles B&C OIL AND GAS COMPANY; SHARON ROSE FAINI; HELEN E. BOGGS
 CHARLES EUGENE FRIEND, ET UX; DARRELL SOLE; ALLEN SMITH; ACREAGE: 168.5
 ROYALTY OWNER: Richard D. Pyles, et ux; JOSEPH L. SITKO, ET UX (2); BRC APPALACHIAN MINERALS I, LLC (3) LEASE NO: ACREAGE: 14.06; 68.86; 71.52; 119; 100; 30; 45; 134

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: 22,956' MD 6,532' TVD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

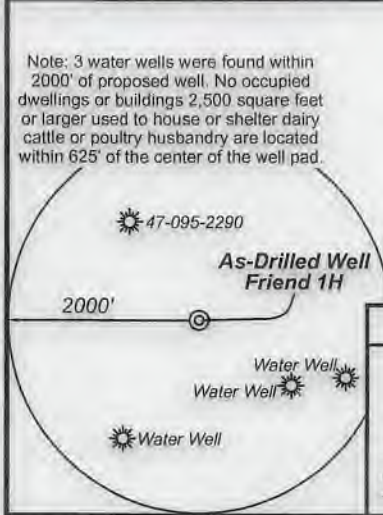


Antero Resources
Well No. Friend 1H
As-Drilled
Antero Resources Corporation



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
- Found corner, as noted
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STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: February 24 2021
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 API WELL NO
 47 - 095 - 02695
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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 ROYALTY OWNER: Richard D. Pyles, et ux; JOSEPH L. SILKO, et ux (2); BRC APPALACHIAN MINERALS I, LLC (3) LEASE NO: ACREAGE: 119; 100; 30; 45; 134

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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

03/17/2023



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T	Haught Family Trust
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W	Charles Eugene Friend, et ux
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AC	Sharon Rose Faini
AD	BRC Appalachian Minerals I, LLC
AE	B&C Oil and Gas Company
AF	Bounty Minerals, LLC
AG	Rose Enterprises, LLC
AH	B&C Oil and Gas Company
AI	Dennis R. & Clista A. Heintzman
AJ	BRC Appalachian Minerals I, LLC

FILE NO: 45-54-E-19
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SCALE: 1" = 2000'
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Submeter
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STATE OF WEST VIRGINIA
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OIL AND GAS DIVISION

DATE: February 24 2021
OPERATOR'S WELL NO. Friend 1H
API WELL NO
47 - 095 - 02695
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
DISTRICT: Ellsworth DENNIS R. & CLISTA A. HEINTZMAN; ROSE ENTERPRISES, LLC; COUNTY: Tyler
SURFACE OWNER: Richard D. Pyles B&C OIL AND GAS COMPANY; SHARON ROSE FAINI; HELEN E. BOGGS
ROYALTY OWNER: Richard D. Pyles, et ux; Joseph L. Sitko, et ux (2); BRC Appalachian Minerals I, LLC (3) LEASE NO: ACREAGE: 168.5
ACREAGE: 45; 34.13; 35.25; 64.65; 70.0; 67; 14.06; 68.86; 71.52; 119; 100; 30; 45; 134

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,532' TVD
22,956' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

03/17/2023

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/14/2020
Job End Date:	12/4/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02695-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Friend 1H
Latitude:	39.50383000
Longitude:	-80.83731000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,586
Total Base Water Volume (gal):	24,674,967
Total Base Non Water Volume:	0



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
Produced Water Blend	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.40928	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.05468	

RECEIVED
 Office of Oil and Gas
 FEB 06 2023
 WV Department of
 Environmental Protection

Sm

Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
MC B-8614	Halliburton	Biocide					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			

SM

Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica, quartz	14808-60-7	100.00000	13.44202	
			Complex Amine Compound	Proprietary	60.00000	0.03220	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01610	
			Proprietary	Proprietary	20.00000	0.01379	
			Proprietary	Proprietary	10.00000	0.00689	
			Hydrochloric acid	7647-01-0	30.00000	0.00426	
			Guar gum	9000-30-0	100.00000	0.00350	
			Surfactant	Proprietary	5.00000	0.00268	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00268	
			Glutaraldehyde	111-30-8	30.00000	0.00249	
			Ethoxylated alcohols	Proprietary	5.00000	0.00054	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00054	
			Organic chloride compound	Proprietary	1.00000	0.00054	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00041	
			Methanol	67-56-1	100.00000	0.00011	
			Ammonium persulfate	7727-54-0	100.00000	0.00009	
			Ethanol	64-17-5	1.00000	0.00008	
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			Modified thiourea polymer	Proprietary	30.00000	0.00001	

			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Formaldehyde	50-00-0	0.01000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	
			Sodium hydroxide	1310-73-2	0.01000	0.00001	
			Organic salt #2	Proprietary	0.01000	0.00001	
			Organic salt #1	Proprietary	0.01000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			Hexadecene	629-73-2	5.00000	0.00000	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

* 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%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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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