

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

API 47 - 103 - 03496 County Wetzel District Green
Quad Pine Grove Pad Name Furbee Field/Pool Name -----
Farm name James A. Sell Well Number Reader 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 4378651.621m Easting 523087.804m
Landing Point of Curve Northing 4378536.09m Easting 523394.95m
Bottom Hole Northing 4374325.369m Easting 524850.591m

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Elevation (ft) 1211' GL Type of Well New Existing Type of Report Interdepartmental Environmental Production
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 4/28/2022 Date drilling commenced 8/15/2022 Date drilling ceased 10/18/2022
Date completion activities began 12/8/2022 Date completion activities ceased 2/20/2023
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

APPROVED

Reviewed by:

10/06/2023

Signature
8/10/23

API 47- 103 - 03496 Farm name James A. Sell Well number Reader Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	28"	20"	130'	New	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	670'	New	54.5#, K-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3490'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22522'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7130'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	209 sx	15.6	1.18	247	0'	8 Hrs.
Surface	Class A	780 sx	15.8	1.17	913	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1235 sx	15.8	1.16	1433	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3625 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.25 (Tail)	4531	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 22522' MD, 7133' TVD (BHL), 7133' (Deepest Point Drilled) Loggers TD (ft) 22522' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6321'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature temperature
 Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API 47-103-03496 Farm Name James A. Sell Well Number Reader Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/8/2022	22394.8	22351.7	60	Marcellus
2	12/9/2022	22312.83221	22146.4932	60	Marcellus
3	12/9/2022	22110.82545	21944.4865	60	Marcellus
4	12/10/2022	21908.81869	21742.4797	60	Marcellus
5	12/11/2022	21706.81194	21540.473	60	Marcellus
6	12/11/2022	21504.80518	21338.4662	60	Marcellus
7	12/12/2022	21302.79842	21136.4595	60	Marcellus
8	12/12/2022	21100.79167	20934.4527	60	Marcellus
9	12/13/2022	20898.78491	20732.4459	60	Marcellus
10	12/14/2022	20696.77815	20530.4392	60	Marcellus
11	12/14/2022	20494.7714	20328.4324	60	Marcellus
12	12/15/2022	20292.76464	20126.4257	60	Marcellus
13	12/15/2022	20090.75788	19924.4189	60	Marcellus
14	12/15/2022	19888.75113	19722.4122	60	Marcellus
15	12/16/2022	19686.74437	19520.4054	60	Marcellus
16	12/16/2022	19484.73761	19318.3986	60	Marcellus
17	12/17/2022	19282.73086	19116.3919	60	Marcellus
18	12/17/2022	19080.7241	18914.3851	60	Marcellus
19	12/18/2022	18878.71734	18712.3784	60	Marcellus
20	12/18/2022	18676.71059	18510.3716	60	Marcellus
21	12/19/2022	18474.70383	18308.3649	60	Marcellus
22	12/20/2022	18272.69707	18106.3581	60	Marcellus
23	12/20/2022	18070.69032	17904.3514	60	Marcellus
24	12/21/2022	17868.68356	17702.3446	60	Marcellus
25	12/22/2022	17666.6768	17500.3378	60	Marcellus
26	12/22/2022	17464.67005	17298.3311	60	Marcellus
27	12/22/2022	17262.66329	17096.3243	60	Marcellus
28	12/23/2022	17060.65653	16894.3176	60	Marcellus
29	12/26/2022	16858.64977	16692.3108	60	Marcellus
30	12/27/2022	16656.64302	16490.3041	60	Marcellus
31	12/27/2022	16454.63626	16288.2973	60	Marcellus
32	12/27/2022	16252.6295	16086.2905	60	Marcellus
33	12/28/2022	16050.62275	15884.2838	60	Marcellus
34	12/28/2022	15848.61599	15682.277	60	Marcellus
35	12/28/2022	15646.60923	15480.2703	60	Marcellus
36	12/29/2022	15444.60248	15278.2635	60	Marcellus
37	12/29/2022	15242.59572	15076.2568	60	Marcellus
38	12/29/2022	15040.58896	14874.25	60	Marcellus
39	12/29/2022	14838.58221	14672.2432	60	Marcellus
40	12/30/2022	14636.57545	14470.2365	60	Marcellus
41	12/30/2022	14434.56869	14268.2297	60	Marcellus
42	12/31/2022	14232.56194	14066.223	60	Marcellus
43	12/31/2022	14030.55518	13864.2162	60	Marcellus
44	12/31/2022	13828.54842	13662.2095	60	Marcellus
45	12/31/2022	13626.54167	13460.2027	60	Marcellus
46	1/1/2023	13424.53491	13258.1959	60	Marcellus
47	1/1/2023	13222.52815	13056.1892	60	Marcellus
48	1/1/2023	13020.5214	12854.1824	60	Marcellus
49	1/1/2023	12818.51464	12652.1757	60	Marcellus
50	1/2/2023	12616.50788	12450.1689	60	Marcellus
51	1/2/2023	12414.50113	12248.1622	60	Marcellus
52	1/2/2023	12212.49437	12046.1554	60	Marcellus
53	1/2/2023	12010.48761	11844.1486	60	Marcellus
54	1/3/2023	11808.48086	11642.1419	60	Marcellus
55	1/3/2023	11606.4741	11440.1351	60	Marcellus
56	1/3/2023	11404.46734	11238.1284	60	Marcellus
57	1/3/2023	11202.46059	11036.1216	60	Marcellus
58	1/4/2023	11000.45383	10834.1149	60	Marcellus
59	1/4/2023	10798.44707	10632.1081	60	Marcellus
60	1/4/2023	10596.44032	10430.1014	60	Marcellus
61	1/4/2023	10394.43356	10228.0946	60	Marcellus
62	1/4/2023	10192.4268	10026.0878	60	Marcellus
63	1/4/2023	9990.420045	9824.08108	60	Marcellus
64	1/5/2023	9788.413288	9622.07432	60	Marcellus
65	1/5/2023	9586.406532	9420.06757	60	Marcellus
66	1/5/2023	9384.399775	9218.06081	60	Marcellus
67	1/5/2023	9182.393018	9016.05405	60	Marcellus
68	1/5/2023	8980.386261	8814.0473	60	Marcellus
69	1/5/2023	8778.379505	8612.04054	60	Marcellus
70	1/6/2023	8576.372748	8410.03378	60	Marcellus
71	1/6/2023	8374.365991	8208.02703	60	Marcellus
72	1/6/2023	8172.359234	8006.02027	60	Marcellus
73	1/6/2023	7970.352477	7804.01351	60	Marcellus
74	1/6/2023	7768.345721	7602.00676	60	Marcellus
75	1/6/2023	7566.338964	7400	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	12/8/2022	79.0	9017	6480	3782	173340	211590	N/A
2	12/9/2022	85.7	9356	5961	4124	396430	404218	N/A
3	12/9/2022	87.8	10269	6450	4925	408395	374217	N/A
4	12/10/2022	92.8	10302	5759	4177	393735	365574	N/A
5	12/11/2022	92.0	10440	5461	4984	373948	328645	N/A
6	12/11/2022	92.3	9762	5850.4	4037.52	400190	396176	N/A
7	12/12/2022	86.1	9595	6211	4927	401240	364013	N/A
8	12/12/2022	89.7	9843	6502	4448	401570	296104	N/A
9	12/13/2022	84.3	9573	5997	5053	397831	368033	N/A
10	12/13/2022	93.2	10333	6675	5638	425050	390902	N/A
11	12/14/2022	90.1	9596	5552	4134	410730	370578	N/A
12	12/14/2022	94.9	9839	6346	5292	409060	306343	N/A
13	12/15/2022	90.8	9794	6492	4563	414170	333959	N/A
14	12/15/2022	95.4	10075	5259	5238	412000	303209	N/A
15	12/16/2022	89.5	9887	5409	4380	413360	297780	N/A
16	12/16/2022	96.7	9760	6035	5294	420820	388039	N/A
17	12/17/2022	96.4	9750	5642	5686	412904	296410	N/A
18	12/17/2022	89.0	9514	5820	4890	406050	350226	N/A
19	12/17/2022	97.0	9859	5383	5163	412070	287043	N/A
20	12/18/2022	90.1	9428	5876	4627	404388	283876	N/A
21	12/18/2022	93.0	9409	5461	5079	410310	350699	N/A
22	12/20/2022	74.1	8907	5529	5114	439520	607543	N/A
23	12/20/2022	90.5	9769	6050	4254	410160	281856	N/A
24	12/21/2022	96.8	9716	6185	4181	416960	295075	N/A
25	12/21/2022	93.6	9577	5563	4344	416700	285758	N/A
26	12/22/2022	95.0	9072	9398	4533	411770	273213	N/A
27	12/22/2022	86.7	9077	6051	5101	411490	287011	N/A
28	12/22/2022	97.3	9049	8608	4336	395560	278964	N/A
29	12/25/2022	82.9	9323	5802	4392	405570	377784	N/A
30	12/27/2022	77.8	9012	6714	4399	398800	556275	N/A
31	12/27/2022	91.2	9061	5474	4260	400870	288739	N/A
32	12/27/2022	87.5	8715	8193	4291	415750	324754	N/A
33	12/28/2022	86.0	8715	5514	4766	394750	295637	N/A
34	12/28/2022	95.1	9556	6215	3984	402970	292804	N/A
35	12/28/2022	91.3	9086	5365	4260	403410	293328	N/A
36	12/29/2022	91.7	8924	5249	4396	394600	300932	N/A
37	12/29/2022	73.5	9848	5779	4455	401350	374045	N/A
38	12/29/2022	92.9	9019	5079	4786	403000	291791	N/A
39	12/29/2022	93.8	9017	5433	5234	398320	287439	N/A
40	12/29/2022	93.4	8594	4954	5058	392050	326939	N/A
41	12/30/2022	91.7	8989	5005	4896	396620	290932	N/A
42	12/30/2022	93.6	8731	4525	4246	403220	296185	N/A
43	12/31/2022	90.0	8522	5735	4432	410768	284257	N/A
44	12/31/2022	93.3	8484	4420	4335	407680	301965	N/A
45	12/31/2022	94.1	8769	5564	4101	408000	299736	N/A
46	12/31/2022	93.7	8797	5982	4200	410420	284587	N/A
47	1/1/2023	94.6	8770	5426	4364	413770	321575	N/A
48	1/1/2023	95.1	8727	5140	4539	402800	294401	N/A
49	1/1/2023	95.1	8920	5811	4713	413590	291014	N/A
50	1/1/2023	95.9	8717	6225	5045	411960	290165	N/A
51	1/2/2023	93.7	8808	5185	4917	397560	288374	N/A
52	1/2/2023	94.6	8728	7267	4089	408040	282746	N/A
53	1/2/2023	93.9	8502	4620	3965	399150	296025	N/A
54	1/2/2023	95.0	8880	5692	4446	399040	287620	N/A
55	1/3/2023	96.4	8503	5866	5040	395880	282850	N/A
56	1/3/2023	93.0	8308	5316	4301	393600	282054	N/A
57	1/3/2023	93.7	8546	5530	4387	410280	283167	N/A
58	1/4/2023	95.4	8871	4500	4170	412050	288464	N/A
59	1/4/2023	94.6	8487	5848	4023	403150	271457	N/A
60	1/4/2023	94.5	8233	5497	4470	414370	286157	N/A
61	1/4/2023	92.7	8363	5523	4409	398870	283207	N/A
62	1/4/2023	94.4	7986	5268	3911	406860	278994	N/A
63	1/4/2023	94.6	8238	5698	4181	405570	282449	N/A
64	1/5/2023	94.2	8292	5937	4094	408340	284583	N/A
65	1/5/2023	95.1	8535	5193	4083	411130	277887	N/A
66	1/5/2023	94.2	8081	6102	4123	397350	279858	N/A
67	1/5/2023	95.4	7764	5566	4314	403220	283402	N/A
68	1/5/2023	93.4	7936	5448	4087	397550	274994	N/A
69	1/5/2023	95.0	7898	5116	4227	400680	284707	N/A
70	1/5/2023	94.3	7928	3636	4534	405210	284499	N/A
71	1/6/2023	95.4	7722	5247	4587	402980	283313	N/A
72	1/6/2023	92.3	7511	5518	4399	408640	287547	N/A
73	1/6/2023	95.0	7472	5984	4019	398110	279670	N/A
74	1/6/2023	95.9	7632	5557	3968	412640	294666	N/A
75	1/6/2023	93.3	7474	5140	4240	400521	270957	N/A
AVERAGE		92	8,954	5,758	4,513	30,180,810	23,421,985	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	100	320	100	320
Shaley Siltstone, tr LS	320	370	320	370
Sandy Shale	370	620	370	620
Siltstone, Occ SS, tr Shale, tr Coal	470	820	470	820
Sandy Siltstone, tr LS, tr Shale	620	820	620	820
Silty Sandstone, tr LS	820	920	820	920
Sandy Siltstone, tr LS, tr Shale	920	1,020	920	1,020
Silty Sandstone, tr Shale	1,020	1,120	1,020	1,120
Silty Sandstone, tr Shale, tr LS	1,120	1,220	1,120	1,220
Shaley Sandstone, occ Siltstone	1,220	1,420	1,220	1,420
Silty Sandstone, tr shale	1,420	1,520	1,420	1,520
Sandy Siltstone, tr Coal	1,520	1,670	1,520	1,670
Silty Sandstone, tr Coal, tr Shale	1,670	1,870	1,670	1,870
Sandy Shale, tr Coal	1,870	2,020	1,870	2,020
Silty Sandstone, rr Coal	2,020	2,099	2,020	2,099
Big Lime	2,129	2,969	2,099	2,985
Fifty Foot Sandstone	2,969	3,016	2,955	3,033
Gordon	3,016	3,237	3,003	3,261
Fifth Sandstone	3,237	3,574	3,231	3,607
Bayard	3,574	3,975	3,577	4,019
Speechley	3,975	4,120	3,989	4,169
Balltown	4,120	4,624	4,139	4,686
Bradford	4,624	5,182	4,656	5,256
Benson	5,182	5,625	5,226	5,709
Alexander	5,625	6,819	5,679	6,967
Sycamore	6,659	6,789	6,775	6,937
Middlesex	6,789	6,890	6,937	7,090
Burkett	6,890	6,918	7,090	7,145
Tully	6,918	6,998	7,145	7,348
Marcellus	6,998	NA	7,348	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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/8/2022
Job End Date:	1/6/2023
State:	West Virginia
County:	Wetzel
API Number:	47-103-03496-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Reader Unit 1H
Latitude:	39.55716000
Longitude:	-80.73143000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,132
Total Base Water Volume (gal):	23,659,582
Total Base Non Water Volume:	0



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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	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.71846	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.13691	

MC B-8614A	MultiChem	Biocide					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
SAND, COMMON BROWN 100 MESH	Halliburton	Proppant					
				Listed Below			
LCA-1	Halliburton	Solvent					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			

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Chemstream StimSTREAM FR 9800	Chemstream, Inc.	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	13.07534	
			Hydrochloric acid	7647-01-0	30.00000	0.03858	
			Butene, homopolymer	9003-29-6	25.00000	0.01554	
			Alkanes, C16-20-iso-	Proprietary	25.00000	0.01554	
			Guar gum	9000-30-0	100.00000	0.00525	
			Glutaraldehyde	111-30-8	30.00000	0.00249	
			Ethoxylated alcohols (C12-16)	68213-23-0	3.00000	0.00186	
			Hydrotreated distillate	Proprietary	100.00000	0.00152	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Methanol	67-56-1	100.00000	0.00024	
			Ammonium persulfate	7727-54-0	100.00000	0.00015	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00007	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	
			Oxylated phenolic resin	Proprietary	30.00000	0.00004	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

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* 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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MAY 10 2023

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

6,512' to Top Hole

772' to Bottom Hole
 TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30



As-Drilled Well No. Reader Unit 1H

Conc. Mons. L4 L3

Notes
 West Virginia Coordinate System of 1927, North Zone
 based upon Differential GPS Measurements.
 Well No. Reader Unit 1H Top Hole coordinates are
 N: 387,419.78' Latitude: 39°33'25.78"
 E: 1,652,802.80' Longitude: 80°43'53.14"
 Bottom Hole coordinates are
 N: 373,126.70' Latitude: 39°31'05.26"
 E: 1,658,350.83' Longitude: 80°42'39.86"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,378,651.621m N: 4,374,325.369m
 E: 523,087.804m E: 524,850.591m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

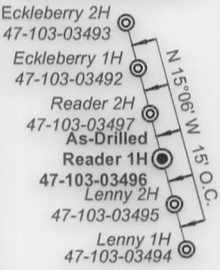
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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

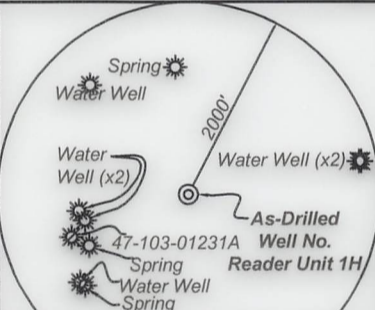
Bradley D. Miller
 Bradley D. Miller, P.S. 2167

Reader Unit 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 387,532.89'
 E: 1,653,699.69'
 Latitude: 39°33'27.02"
 Longitude: 80°43'41.72"
 UTM Zone 17, NAD 1983
 N: 4,378,690.649m
 E: 523,360.479m

Wellhead Layout (NTS)



	Bearing	Dist.
L1	S 74°46' W	1,921.3'
L2	N 83°25' W	2,086.0'
L3	N 75°32' E	1,558.6'
L4	N 80°46' E	1,562.6'



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.

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: 129-34-G-18
 DRAWING NO: Reader 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: May 5 2023
 OPERATOR'S WELL NO. Reader Unit 1H
 API WELL NO
 47 - 103 - 03496
 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 James COUNTY: Wetzel
 SURFACE OWNER: A. Sell Joshua R. Edgell, et al; Tribune Resources Minerals, LLC; AMP Fund II, LP (2); Shiben Estates, Inc. (3); BRC Appalachian Minerals I, LLC (2);
 ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Josephine Brast, et al; George David Sell; LEASE NO: ACREAGE: 65.4875; 140.3333

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,133' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,522' 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

10/06/2023

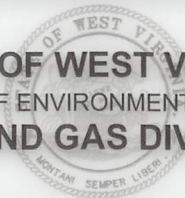


ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	James Allen Sell	370/148	58.10
2	17-1	James Allen Sell	370/148	15.35
3	13-70	Doris Ruth Haught, et al	W49/615	33.78
4	13-71	Charles R. & Kay L. Blair	387/577	63.11
5	17-60	Ross Bucher	411/765	79.00
6	17-54	James Allen Sell	370/148	25.50
7	17-17	James Allen Sell	370/148	70.00
8	17-26	Heartland Forest Land Fund VII, LP	431/936	75.50
9	17-37	Heartland Forest Land Fund VII, LP	431/936	5.00
10	17-48	Heartland Forest Land Fund VII, LP	431/936	20.00
11	17-38	Heartland Forest Land Fund VII, LP	431/936	60.00
12	17-47	George David Sell	351/473	40.00
13	17-35	Alfred Raymond Furbee, Sr. & Olive Gay Brown	333/638	60.00
14	20-5	Debbie Brown, et al	A96/679	45.00
15	20-14	Robert Bassett	371/32	126.74
16	20-7	Debra L. & Mary Jane Brown	437/718	0.80
17	20-6	Debbie Brown, et al	A96/679	6.00
18	20-14.3	Albert E. & Betty Jean Clutter	379/182	14.35
19	20-14.4	Matthew D. Bassett, et al	421/365	97.18
20	20-14.10	Bobbi Jean Bassett	432/506	11.54
21	20-14.2	Coastal Forest Resources Co.	444/105	37.40
22	20-14.7	Randy D. & Dori R. Ice	404/39	1.74
23	20-14.6	Randy D. & Dori R. Ice	404/39	2.06
24	20-14.8	Randy D. & Dori R. Ice	404/43	2.46
25	20-14.9	Randy D. & Dori R. Ice	404/39	53.33
26	20-20.1	Robert Bassett	371/32	0.44
27	20-14.5	Marsha C. Hamrick, et al	363/279	44.46
28	20-19	Coastal Forest Resources Co.	444/105	16.44
29	20-19.2	Coastal Forest Resources Co.	444/105	35.56
30	20-28	Coastal Forest Resources Co.	444/105	36.00
31	20-37	Coastal Forest Resources Co.	444/105	246.84

Leases	
A	James Allen Sell
B	Antero Minerals, LLC
C	Marilyn Halley Seeley
D	William R. Stalnaker
E	Shiben Estates, Inc.
F	Shiben Estates, Inc.
G	BRC Appalachian Minerals I, LLC
H	AMP Fund II, LP
I	AMP Fund II, LP
J	George David Sell
K	Shiben Estates, Inc.
L	BRC Appalachian Minerals I, LLC
M	Tribune Resources Minerals, LLC
N	Joshua R. Edgell, et al
O	Morris Mountaineer Oil & Gas LLC
P	Josephine Brast, et al
Q	Shiben Estates, Inc.

FILE NO: 129-34-G-18
 DRAWING NO: Reader 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: May 5 2023
 OPERATOR'S WELL NO. Reader Unit 1H
 API WELL NO
47 — 103 — 03496
 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 James

COUNTY: Wayne

SURFACE OWNER: A. Sell
Joshua R. Edgell, et al;
 Tribune Resources Minerals, LLC; AMP Fund II, LP (2);
 Shiben Estates, Inc. (3); BRC Appalachian Minerals I, LLC (2);

ACREAGE: 58.1
36.7; 83.6; 900; 40;
 264.75; 70; 75.5;
 89; 50; 257; 72;

ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Josephine Brast, et al; George David Sell;

LEASE NO: _____ ACREAGE: 65.4875; 140.3333

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,133' TVD
22,522' 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

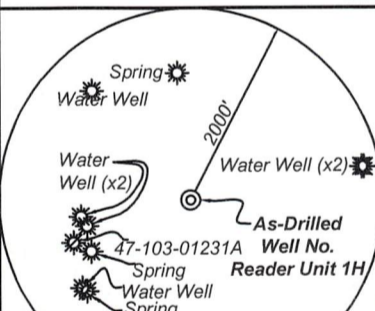
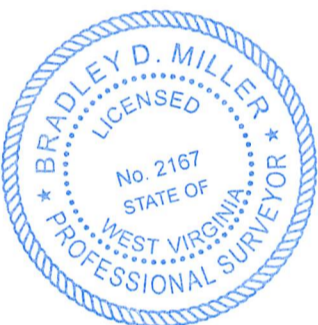
Antero Resources
Well No. Reader 1H
As-Drilled
 Antero Resources Corporation



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

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

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



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	Bearing	Dist.
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L3	N 75°32' E	1,558.6'
L4	N 80°46' E	1,562.6'

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.)

6,512' to Top Hole

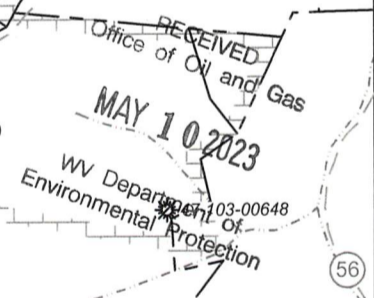
772' to Bottom Hole
 TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Reader Unit 1H Top Hole coordinates are
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 Latitude: 39°33'27.02"
 Longitude: 80°43'41.72"
 UTM Zone 17, NAD 1983
 N: 4,378,690.649m
 E: 523,360.479m

Wellhead Layout (NTS)

- Eckleberry 2H 47-103-03493
- Eckleberry 1H 47-103-03492
- Reader 2H 47-103-03497
- As-Drilled Reader 1H 47-103-03496
- Lenny 2H 47-103-03495
- Lenny 1H 47-103-03494



FILE NO: 129-34-G-18
 DRAWING NO: Reader 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: May 5 20 23
 OPERATOR'S WELL NO. Reader Unit 1H
 API WELL NO
 47 - 103 - 03496
 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 James COUNTY: Wayne
 SURFACE OWNER: A. Sell Joshua R. Edgell, et al; Tribune Resources Minerals, LLC; AMP Fund II, LP (2); Shiben Estates, Inc. (3); BRC Appalachian Minerals I, LLC (2);
 ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Josephine Brast, et al; George David Sell; LEASE NO: ACREAGE: 65.4875; 140.3333
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,133' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,522' 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

LONGITUDE 80 - 42 - 30
 8,573' to Bottom Hole
 9,534' to Top Hole

N 15°08' W 151.0 C.C.

10/06/2023

JM



ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	James Allen Sell	370/148	58.10
2	17-1	James Allen Sell	370/148	15.35
3	13-70	Doris Ruth Haught, et al	W49/615	33.78
4	13-71	Charles R. & Kay L. Blair	387/577	63.11
5	17-60	Ross Bucher	411/765	79.00
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26	20-20.1	Robert Bassett	371/32	0.44
27	20-14.5	Marsha C. Hamrick, et al	363/279	44.46
28	20-19	Coastal Forest Resources Co.	444/105	16.44
29	20-19.2	Coastal Forest Resources Co.	444/105	35.56
30	20-28	Coastal Forest Resources Co.	444/105	36.00
31	20-37	Coastal Forest Resources Co.	444/105	246.84

Leases	
A	James Allen Sell
B	Antero Minerals, LLC
C	Marilyn Halley Seeley
D	William R. Stalnaker
E	Shiben Estates, Inc.
F	Shiben Estates, Inc.
G	BRC Appalachian Minerals I, LLC
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L	BRC Appalachian Minerals I, LLC
M	Tribune Resources Minerals, LLC
N	Joshua R. Edgell, et al
O	Morris Mountaineer Oil & Gas LLC
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MAY 10 2023
 WV Department of
 Environmental Protection

FILE NO: 129-34-G-18
 DRAWING NO: Reader 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: May 5 2023
 OPERATOR'S WELL NO. Reader Unit 1H
 API WELL NO
 47 - 103 - 03496
 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 James COUNTY: WV 10/06/2023

SURFACE OWNER: A. Sell Joshua R. Edgell, et al; Tribune Resources Minerals, LLC; AMP Fund II, LP (2);
 Shiben Estates, Inc. (3); BRC Appalachian Minerals I, LLC (2);
 ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Josephine Brast, et al; George David Sell; LEASE NO: _____ ACREAGE: 65.4875; 140.3333
 ACREAGE: 58.1 264.75; 70; 75.5; 89; 50; 257; 72;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,133' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,522' 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