

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

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FEB 09 2021

WV Department of
Environmental Protection

API 47 - 095 - 02672 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Hogue Pad Field/Pool Name ----
Farm name Michael J. & Melinda R. Hogue Well Number Fender Unit 3H
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 4369115.303m Easting 508775.520m
Landing Point of Curve Northing 4377635.065m Easting 507893.145m
Bottom Hole Northing 4368546.055m Easting 508363.304m

Elevation (ft) 1015' 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 2/10/2020 Date drilling commenced 3/4/2020 Date drilling ceased 4/7/2020
Date completion activities began 8/19/2020 Date completion activities ceased 9/8/2020
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 456' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1581' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 740' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
JCB
2/22/2021
04/02/2021

API 47-095 - 02672 Farm name Michael J. & Melinda R. Hogue Well number Fender Unit 3H

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"	567'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2643'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16723'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6919'		4.7#, N-80		
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	109 sx	15.6	1.18	244	0'	8 Hrs.
Surface	Class A	328 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	698 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 3040 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	2819	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 16768' MD, 6463' TVD (BHL), 6465' (Deepest Point Drilled) Loggers TD (ft) 16768' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6160'

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

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

API 47- 095 - 02672 Farm name Michael J. & Melinda R. Hogue Well number Fender Unit 3H

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								

Please insert additional pages as applicable.

API 47- 095 - 02672 Farm name Michael J. & Melinda R. Hogue Well number Fender Unit 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6349' (TOP)</u> TVD	<u>6968' (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 3309 mcfpd Oil 120 bpd NGL --- bpd Water 14 bpd GAS MEASURED BY Estimated Orifice Pilot

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

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor H&P Drilling
Address 1437 South Boulder Avenue City Tulsa State OK Zip 74119

Logging Company KLX Energy Services
Address 1415 Louisiana Street, Suite 2900 City Houston State TX Zip 77002

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature  Title Permitting Agent Date 12-18-20

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

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/2/2020	16653.4	16609.6	60	Marcellus
2	8/2/2020	16571.55532	16403.3319	60	Marcellus
3	8/2/2020	16367.28723	16199.0638	60	Marcellus
4	8/3/2020	16163.01915	15994.7957	60	Marcellus
5	8/3/2020	15958.75106	15790.5277	60	Marcellus
6	8/3/2020	15754.48298	15586.2596	60	Marcellus
7	8/4/2020	15550.21489	15381.9915	60	Marcellus
8	8/4/2020	15345.94681	15177.7234	60	Marcellus
9	8/4/2020	15141.67872	14973.4553	60	Marcellus
10	8/5/2020	14937.41064	14769.1872	60	Marcellus
11	8/5/2020	14733.14255	14564.9191	60	Marcellus
12	8/6/2020	14528.87447	14360.6511	60	Marcellus
13	8/6/2020	14324.60638	14156.383	60	Marcellus
14	8/6/2020	14120.3383	13952.1149	60	Marcellus
15	8/7/2020	13916.07021	13747.8468	60	Marcellus
16	8/7/2020	13711.80213	13543.5787	60	Marcellus
17	8/7/2020	13507.53404	13339.3106	60	Marcellus
18	8/8/2020	13303.26596	13135.0426	60	Marcellus
19	8/8/2020	13098.99787	12930.7745	60	Marcellus
20	8/8/2020	12894.72979	12726.5064	60	Marcellus
21	8/9/2020	12690.4617	12522.2383	60	Marcellus
22	8/9/2020	12486.19362	12317.9702	60	Marcellus
23	8/9/2020	12281.92553	12113.7021	60	Marcellus
24	8/10/2020	12077.65745	11909.434	60	Marcellus
25	8/10/2020	11873.38936	11705.166	60	Marcellus
26	8/10/2020	11669.12128	11500.8979	60	Marcellus
27	8/10/2020	11464.85319	11296.6298	60	Marcellus
28	8/11/2020	11260.58511	11092.3617	60	Marcellus
29	8/11/2020	11056.31702	10888.0936	60	Marcellus
30	8/11/2020	10852.04894	10683.8255	60	Marcellus
31	8/12/2020	10647.78085	10479.5574	60	Marcellus
32	8/12/2020	10443.51277	10275.2894	60	Marcellus
33	8/12/2020	10239.24468	10071.0213	60	Marcellus
34	8/13/2020	10034.9766	9866.75319	60	Marcellus
35	8/13/2020	9830.708511	9662.48511	60	Marcellus
36	8/13/2020	9626.440426	9458.21702	60	Marcellus
37	8/14/2020	9422.17234	9253.94894	60	Marcellus
38	8/14/2020	9217.904255	9049.68085	60	Marcellus
39	8/14/2020	9013.63617	8845.41277	60	Marcellus
40	8/15/2020	8809.368085	8641.14468	60	Marcellus
41	8/15/2020	8605.1	8436.8766	60	Marcellus
42	8/15/2020	8400.831915	8232.60851	60	Marcellus
43	8/15/2020	8196.56383	8028.34043	60	Marcellus
44	8/15/2020	7992.295745	7824.07234	60	Marcellus
45	8/16/2020	7788.02766	7619.80426	60	Marcellus
46	8/16/2020	7583.759574	7415.53617	60	Marcellus
47	8/16/2020	7379.491489	7211.26809	60	Marcellus
48	8/16/2020	7175.223404	7007	60	Marcellus

API 47-095-02671 Farm Name Michael J. & Melinda R. Hogue Well Number Fender Unit 2H

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	8/2/2020	61.53	8697	7986	4268	178060	225932	N/A
2	8/2/2020	71.68	8846	5596	4625	412000	323766	N/A
3	8/2/2020	74.48	8822	6614	4431	410380	318514	N/A
4	8/3/2020	70.4	8736	6705	4283	412720	319244	N/A
5	8/3/2020	69.3	8671	6606	4209	409080	313088	N/A
6	8/3/2020	73	8804	6985	4183	410620	309319	N/A
7	8/4/2020	73.49	8654	5701	4369	411040	312894	N/A
8	8/4/2020	74.54	8632	5148	4300	410240	316730	N/A
9	8/4/2020	75.51	8711	4775	4265	410780	316411	N/A
10	8/5/2020	74.95	8669	4614	4417	408680	313105	N/A
11	8/5/2020	74.24	8650	5083	4144	407940	311565	N/A
12	8/6/2020	76.64	8793	8328	3273	411140	315220	N/A
13	8/6/2020	74.63	8806	4930	4029	408680	310804	N/A
14	8/6/2020	76.59	8683	5976	3998	408900	312132	N/A
15	8/7/2020	78.43	8775	8575	4348	411020	313423	N/A
16	8/7/2020	73.71	8742	5104	3912	407560	310116	N/A
17	8/7/2020	77.22	8692	4721	4396	407900	307610	N/A
18	8/8/2020	78.03	8728	7363	3635	409820	309213	N/A
19	8/8/2020	76.65	8406.67	3209	4033.86	410920	310531	N/A
20	8/8/2020	76.39	8198	3534	4468.16	410980	377439	N/A
21	8/9/2020	81.14	8714	3736	4320.93	410000	308578	N/A
22	8/9/2020	81.33	8706	4462	4146.67	408540	307525	N/A
23	8/9/2020	82.05	8718	4263	4060.56	410980	307061	N/A
24	8/10/2020	84.7	8703	4477	4215.29	412640	304240	N/A
25	8/10/2020	82.93	8684	5032	4230.4	409140	299620	N/A
26	8/10/2020	85	8650	4813	3909.41	411720	303045	N/A
27	8/10/2020	85.34	8721	4831	4204.52	413780	301753	N/A
28	8/11/2020	83.6	8618	5109	4014	414560	303607	N/A
29	8/11/2020	87.15	8616	3574	4222	413760	306070	N/A
30	8/11/2020	90.18	8648	4243	4071	411140	308098	N/A
31	8/12/2020	89.13	8542	4973	4347	414020	306364	N/A
32	8/12/2020	89.63	8427	5199	3976	411420	294158	N/A
33	8/12/2020	91.06	8648	4332	3933	410700	292392	N/A
34	8/13/2020	90.34	8484	5088	3726	409200	296144	N/A
35	8/13/2020	87.95	8386	7315	4425	410900	293016	N/A
36	8/13/2020	94.12	8543	3252	3956	410980	292932	N/A
37	8/14/2020	91.52	8469	4738	4267	408860	295087	N/A
38	8/14/2020	92.47	8565	5274	4478	409820	291989	N/A
39	8/14/2020	95.71	8409	4938	3915	410580	286927	N/A
40	8/15/2020	97.25	8629	5341	4144	410320	289013	N/A
41	8/15/2020	95.7	8452	7849	4029	410060	289898	N/A
42	8/15/2020	94.58	8362	7045	4043	410540	288952	N/A
43	8/15/2020	98.14	8280	7306	4290	410660	287886	N/A
44	8/15/2020	97.85	8165	5939	4004	412100	334509	N/A
45	8/16/2020	98.03	8286	5922	4094	412160	285062	N/A
46	8/16/2020	96	8264	6832	4060	411300	285861	N/A
47	8/16/2020	96.27	8246	4627	4367	410220	286829	N/A
48	8/16/2020	96.61	7933	4463	4265	411400	284063	N/A
	AVG=	81.5	8,635	5,375	4,151	16,601,580	12,241,009	TOTAL

04/02/2021

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Silty Sandstone	75	175	75	175
Siltstone	175	275	175	275
Shaly Siltstone	275	335	275	335
Silty Shale	335	555	335	555
Silty Sandstone	555	575	555	575
Shale	575	955	575	955
Shaly Sandstone	955	1,035	955	1,035
Sandstone	1,035	1,215	1,035	1,215
Sandy Shale	1,215	1,255	1,215	1,255
Shaly Siltstone	1,255	1,315	1,255	1,315
Sandstone	1,315	1,435	1,315	1,435
Shaly Sandstone	1,435	1,515	1,435	1,515
Sandy Shale	1,515	1,517	1,515	N/A
Big Lime	1,532	2,101	1,528	2,128
Fifty Foot Sandstone	2,101	2,333	2,113	2,364
Gordon	2,333	2,663	2,349	2,700
Fifth Sandstone	2,663	2,775	2,685	2,814
Bayard	2,775	3,581	2,799	3,637
Speechley	3,581	3,736	3,622	3,796
Balltown	3,736	4,259	3,781	4,332
Bradford	4,259	4,529	4,317	4,607
Benson	4,529	4,849	4,592	4,935
Alexander	4,849	5,915	4,920	6,100
Sycamore	5,778	5,885	5,939	6,070
Middlesex	5,885	5,969	6,085	6,224
Burkett	5,969	5,994	6,239	6,281
Tully	5,994	6,016	6,296	6,345
Marcellus	6,016	NA	6,345	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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/2/2020
Job End Date:	8/16/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02672-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Fender 3H
Latitude:	39.47150000
Longitude:	-80.89814000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,462
Total Base Water Volume (gal):	14,543,472
Total Base Non Water Volume:	0



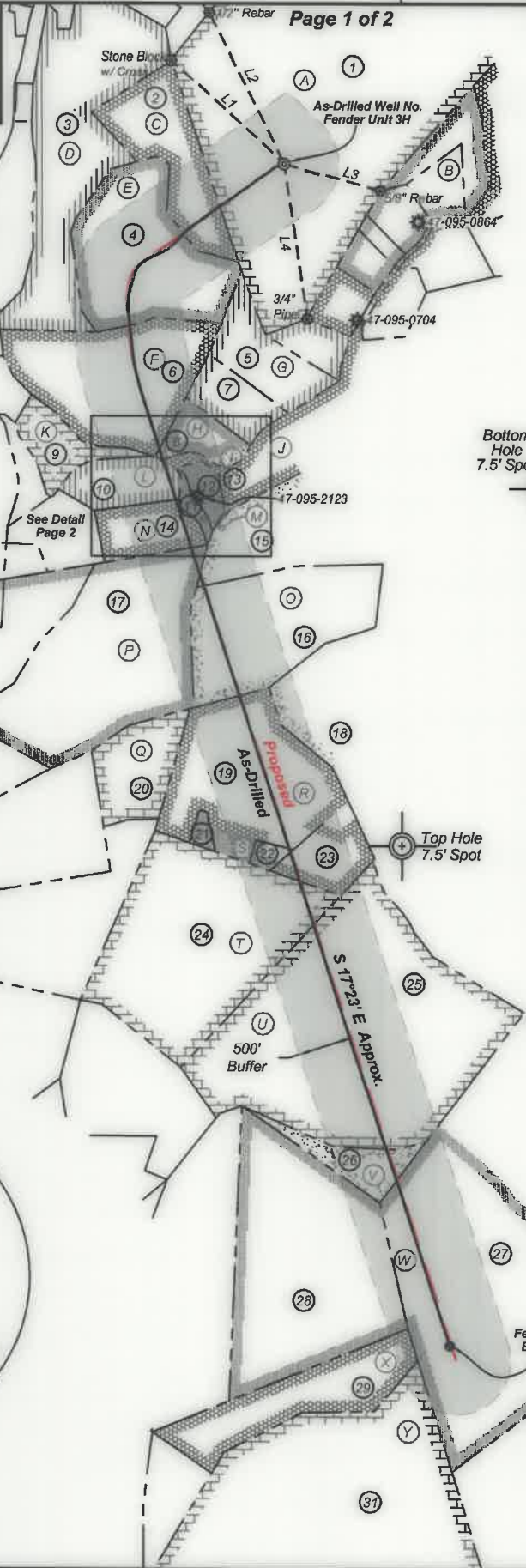
Hydraulic Fracturing Fluid Composition:

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 Mixture	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	88.01106	Density = 10.00
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16622	

Exceletrate LX-15	Halliburton	Friction Reducer											
							Listed Below						
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					Listed Below						
							Listed Below						
HAI-501	Halliburton	Acid Corrosion Inhibitor					Listed Below						
							Listed Below						
WG-36 GELLING AGENT	Halliburton	Gelling Agent					Listed Below						
							Listed Below						
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					Listed Below						
							Listed Below						
MC B-8614	Halliburton	Biocide					Listed Below						
							Listed Below						
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					Listed Below						
							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							11.78847	
			Complex Amine Compound	Proprietary	60.00000							0.04214	
			Hydrochloric acid	7647-01-0	30.00000							0.03509	

					Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02107	
					Guar gum	9000-30-0	100.00000	0.00585	
					Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00351	
					Surfactant	Proprietary	5.00000	0.00351	
					Glutaraldehyde	111-30-8	30.00000	0.00213	
					Ethoxylated alcohols	Proprietary	5.00000	0.00071	
					Organic chloride compound	Proprietary	1.00000	0.00070	
					Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00070	
					Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00035	
					Methanol	67-56-1	100.00000	0.00029	
					Ammonium persulfate	7727-54-0	100.00000	0.00011	
					Ethanol	64-17-5	1.00000	0.00007	
					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	0.00003	
					Propargyl alcohol	107-19-7	5.00000	0.00001	
					Hexadecene	629-73-2	5.00000	0.00001	
					Phosphoric acid	7664-38-2	0.10000	0.00001	
					Sodium hydroxide	1310-73-2	0.01000	0.00001	
					Acrylamide	79-06-1	0.01000	0.00001	
					Organic salt #2	Proprietary	0.01000	0.00001	
					Nitrated acetate salt	Proprietary	0.01000	0.00001	
					Sodium glycolate	2836-32-0	0.01000	0.00001	
					Organic salt #1	Proprietary	0.01000	0.00001	
					Formaldehyde	50-00-0	0.01000	0.00001	

Antero Resources
Well No. Fender Unit 3H
As-Drilled
Antero Resources Corporation



6,692' to Top Hole
 4,963' to Bottom Hole
TOP HOLE LATITUDE 39 - 30 - 00
BTM HOLE LATITUDE 39 - 27 - 30

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.

LONGITUDE 80 - 52 - 30
 5,914' to Bottom Hole
 10,278' to Top Hole

Wellhead Layout

N 44°06' E 15.0'

- Kramer Unit 2H (47-095-02677)
- Kramer Unit 1H (47-095-02673)
- Lancaster Unit 3H (47-095-02676)
- Lancaster Unit 2H (47-095-02675)
- Lancaster Unit 1H (47-095-02674)
- As-Drilled Well Fender Unit 3H (47-095-02672)
- Fender Unit 2H (47-095-02671)
- Fender Unit 1H (47-095-02670)

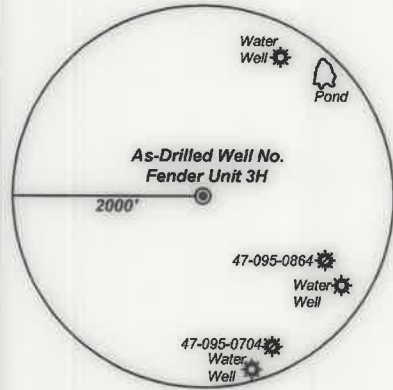
Bearing	Dist.
L1 S 47°19' E	1,401.5'
L2 S 26°19' E	1,540.0'
L3 N 74°41' W	915.5'
L4 N 08°31' W	1,435.4'

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Fender Unit 3H Top Hole coordinates are
 N: 356,911.89' Latitude: 39°28'17.40"
 E: 1,605,315.64' Longitude: 80°53'53.33"
 POE coordinates are
 N: 355,125.59' Latitude: 39°27'59.54"
 E: 1,603,932.75' Longitude: 80°54'10.60"
 Bottom Hole coordinates are
 N: 346,101.90' Latitude: 39°26'30.80"
 E: 1,606,813.17' Longitude: 80°53'32.10"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates POE Coordinates
 N: 4,369,115.303m N: 4,368,546.055m
 E: 508,775.520m E: 508,363.304m
 Bottom Hole Coordinates
 N: 4,365,829.627m
 E: 509,286.726m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

SEAL



Note: 3 water wells and 1 pond 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.

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

FILE NO: 17-54-E-19
 DRAWING NO: Fender Unit 3H As-Drilled
 SCALE: 1" = 1500'
 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: December 30 2020
 OPERATOR'S WELL NO. Fender 3H
 API WELL NO
 47 - 095 - 02672
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth Ridgetop Capital, LP; Donald H. Lancaster; et ux; Jay Bee Royalty, LLC; Janet L. Dieng; BRC Appalachian Minerals I, LLC; James F. Doan, et ux; Anthony Matthew Goffi Irrevocable Trust; Clarence W. Mutschelknaus, et al; Denny L. Palmer, et ux; Eric D. Westbrook, et ux; Douglas J. Wince; COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue ACREAGE: 192
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; David L. Lancaster, et ux; Ryan L. Walton, et ux(3); LEASE NO: _____ ACREAGE: _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,463' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,768' 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

ADDRESS: Denver, CO 80205
 ADDRESS: Charleston, WV 25313
 WELL OPERATOR: Antero Resources Corporation
 DESIGNATED AGENT: Diana Stampler - CT Corporation System

PLUG AND ABANDON CLEAN OUT AND REGRIND TARGET FORMATION: Marcelline shale ESTIMATED DEPTH: 18,189. MD
 IMPROVE FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 8,483. LVD
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 COUNTY OWNER: Michael T. & Melinda R. Hogue; David L. Lancaster, et ux; Ryan L. Mellon, et ux(3); LEASE NO: ACREAGE: 181.24.18.88.32.8
 SURFACE OWNER: Michael T. & Melinda R. Hogue; Dennis L. Palmer, et ux; Eric D. Westbrook, et ux; Douglas J. Milice; ACREAGE: 182 38.2.1.03.0.48.0
 DISTRICT: Elsworth; Anthony Mathew with Inevitable Trust; Clarence A. Mutschelknaus, et ux; 38.2.305.888.2.2.18.4.81.41.2.00.53.104.4.00.1.20.1.21.03.2.4
 LOCATION: ELEVATION: As-Drilled 1,012; WATERSHED: Upper Middle Island Creek; QUADRANGLE: Middlebourne 100.1.20.1.21.03.2.4

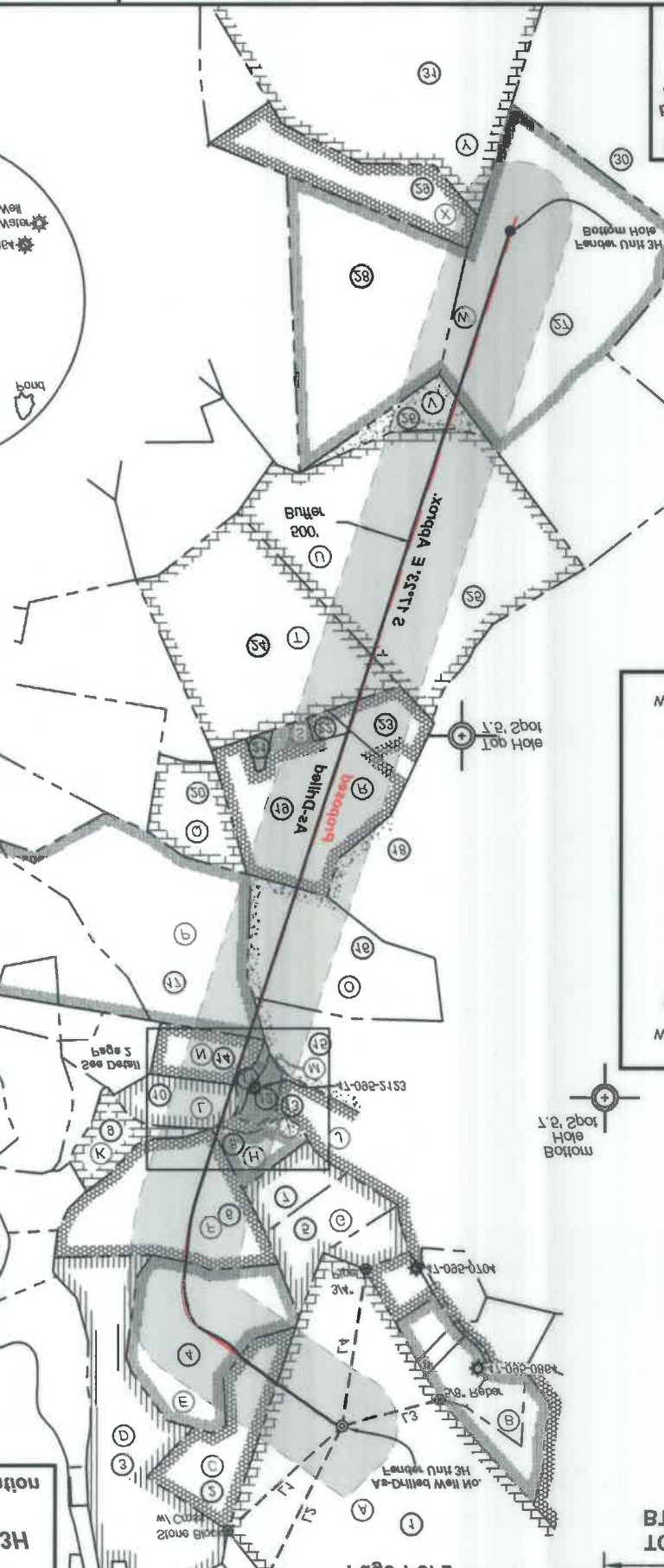
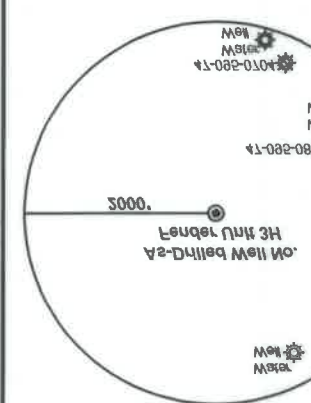
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 WELL TYPE: OIL GAS FLUID INJECTION WASTE DISPOSAL

MWDOT, Hancock, WV
 PROVEN SOURCE OF ELEVATION:
 SURVEYOR
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 1200'
 DRAWING NO: Fender Unit 3H As-Drilled
 FIGE NO: 17-24-E-18



STATE: 24 - COUNTY: 88 - PERMIT: 2522
 API WELL NO:
 OPERATORS WELL NO: Fender 3H
 DATE: December 30 2010

The center of the well pad is located within 250' of proposed gas well. No occupied dwellings or buildings are located within 2000' of proposed well. Note: 2' buffer zone around well.

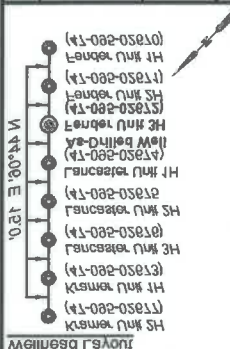


Bradley D. Miller, P.E. 2181
 Department of Environmental Protection
 The law and the rules issued and prescribed by the Department and shown all the information required by the permit and the rest of my knowledge and is correct to the best of my knowledge and is the undersigned, hereby certify that this plan is true and correct.



Legend:
 - - - - - Interior surface tract (approx)
 - - - - - Surface boundary (approx)
 - - - - - Existing Road
 - - - - - Creek or Ditch
 * Existing Well, as noted
 * Existing Well, as noted
 * Monument
 * Proposed gas well

Grid	North	East
17	1108.34.W	1'432.4'
13	1174.41.W	842.2'
12	238.18.E	1'840.0'
11	242.18.E	1'401.2'
	Beating	Dist



Well location references are based upon the magnetic declination.
 Well location references are based upon the grid north meridian.
 Plot orientation and corner and well references are based upon the grid north meridian.
 E: 208'288.755m
 N: 4'382'828'822m
 Bottom Hole Coordinates
 E: 208'282.250m
 N: 4'388'248'022m
 Top Hole Coordinates
 E: 1'808'814.17
 N: 348'101.80
 Bottom Hole Coordinates are
 E: 1'803'832.12
 N: 322'122.88
 Top Hole Coordinates are
 E: 1'802'312.84
 N: 328'811.88
 Well No: Fender Unit 3H Top Hole coordinates are based upon the difference between the Virginia coordinates of the well.



Antero Resources Corporation
 As-Drilled
 Well No. Fender Unit 3H
 Antero Resources

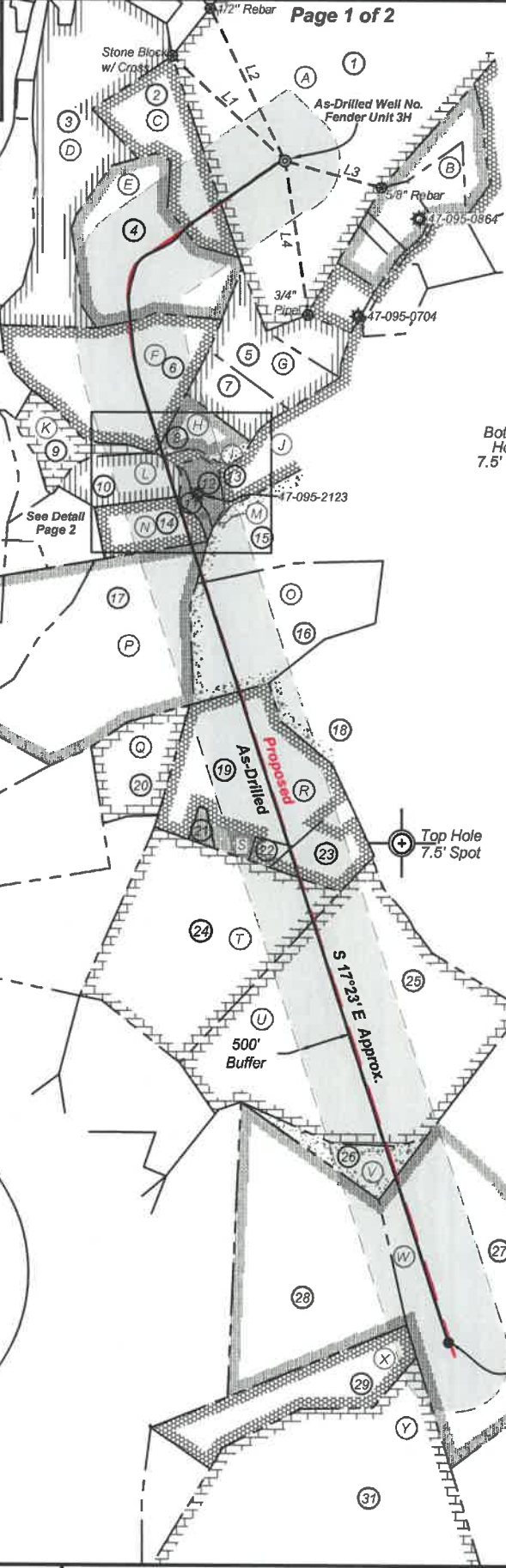
This has been provided. The data and information with errors or inaccuracies with is not responsible for any information provided and certifying the data and surveying the data. Valtech Energy Services, Inc. (A) Corporation, Antero Resources information was provided As-Drilled data and Top Hole Coordinates.

2'814. to Bottom Hole
 LONGITUDE 80 - 25 - 30
 2'814. to Bottom Hole
 TOP HOLE LATITUDE 38 - 30 - 00
 2'814. to Bottom Hole
 8'882. to Top Hole

10'528. to Top Hole

04/02/2012

Antero Resources
Well No. Fender Unit 3H
As-Drilled
Antero Resources Corporation



6,692' to Top Hole
 4,963' to Bottom Hole
TOP HOLE LATITUDE 39 - 30 - 00
BTM HOLE LATITUDE 39 - 27 - 30

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.

LONGITUDE 80 - 52 - 30
 5,914' to Bottom Hole
 10,278' to Top Hole

Wellhead Layout

- Kramer Unit 2H (47-095-02677)
- Kramer Unit 1H (47-095-02673)
- Lancaster Unit 3H (47-095-02676)
- Lancaster Unit 2H (47-095-02675)
- Lancaster Unit 1H (47-095-02674)
- As-Drilled Well Fender Unit 3H (47-095-02672)
- Fender Unit 2H (47-095-02671)
- Fender Unit 1H (47-095-02670)

Bearing	Dist.
L1 S 47°19' E	1,401.5'
L2 S 26°19' E	1,540.0'
L3 N 74°41' W	915.5'
L4 N 08°31' W	1,435.4'

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Fender Unit 3H Top Hole coordinates are
 N: 356,911.89' Latitude: 39°28'17.40"
 E: 1,605,315.64' Longitude: 80°53'53.33"
 POE coordinates are
 N: 355,125.59' Latitude: 39°27'59.54"
 E: 1,603,932.75' Longitude: 80°54'10.60"
 Bottom Hole coordinates are
 N: 346,101.90' Latitude: 39°26'30.80"
 E: 1,606,813.17' Longitude: 80°53'32.10"
UTM Zone 17, NAD 1983
 Top Hole Coordinates POE Coordinates
 N: 4,369,115.303m N: 4,368,546.055m
 E: 508,775.520m E: 508,363.304m
 Bottom Hole Coordinates
 N: 4,365,829.627m
 E: 509,286.726m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)



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

FILE NO: 17-54-E-19
 DRAWING NO: Fender Unit 3H As-Drilled
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

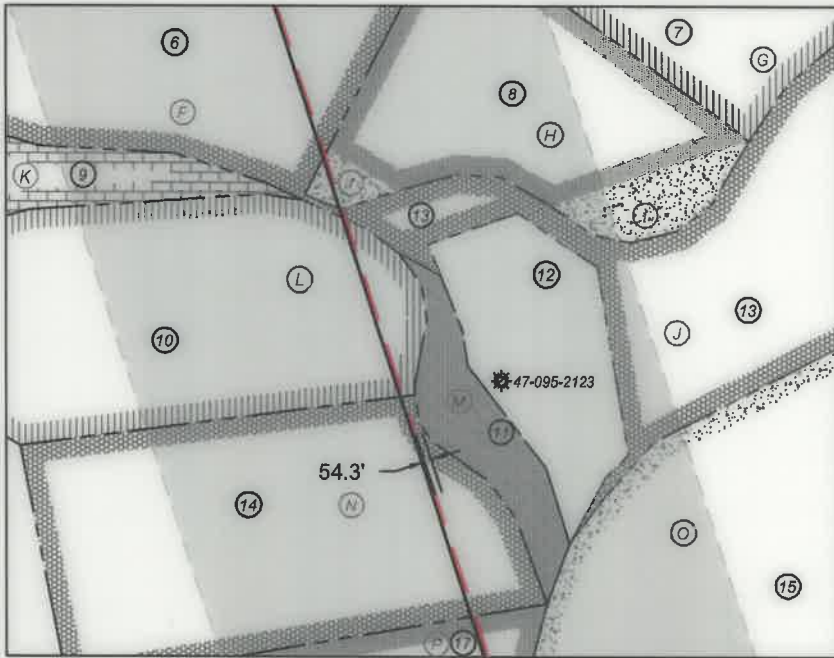
DATE: December 30 2020
 OPERATOR'S WELL NO. Fender 3H
 API WELL NO
 47 - 095 - 02672
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth Ridgetop Capital, LP; Donald H. Lancaster, et ux; Jay Bee Royalty, LLC; Janet L. Dieng; BRC Appalachian Minerals I, LLC; James F. Doan, et ux; COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue Anthony Matthew Goffi Irrevocable Trust; Clarence W. Mutschelknaus, et al; Denny L. Palmer, et ux; Eric D. Westbrook, et ux; Douglas J. Wince; ACREAGE: 192
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; David L. Lancaster, et ux; Ryan L. Walton, et ux(3); LEASE NO: ACREAGE: 191.5; 18.89; 35.9
 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: 16,768' 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

04-02-2021
 100: 310.393; 5.4
 100: 7.50; 151.625;
 9.36; 302.8975;
 36.5; 1.03; 9.40;
 191.5; 18.89; 35.9



Leases	
A	Michael J. & Melinda R. Hogue
B	James F. Doan, et ux
C	David L. Lancaster, et ux
D	David L. Lancaster, et ux
E	Ryan L. Walton, et ux
F	Ryan L. Walton, et ux
G	James F. Doan, et ux
H	James F. Doan, et ux
I	Ryan L. Walton, et ux
J	Ridgetop Capital, LP
K	James Fallucco
L	Denny L. Palmer, et ux
M	Jay-Bee Royalty, LLC
N	Eric D. Westbrook, et ux
O	Anthony Matthew Goffi Irrevocable Trust
P	Clarence W. Mutschelknaus, et al
Q	Jay-Bee Royalty
R	Jay Bee Royalty
S	Merle G. Reed
T	Douglas J. Wince
U	Donald H. Lancaster, et ux
V	Janet L. Dieng
W	BRC Appalachian Minerals I, LLC
X	J&N Enterprises, LLC
Y	Ray E. Adkins, et ux

ID	TM/Par	Owner	Bk/Pg	Acres
1	20-108	Michael K. & Melinda R. Hogue	348/404	192.00
2	20-107	David L. & Kathy A. Lancaster	314/344	18.89
3	20-104	David Lancaster	210/505	57.004
4	26-21	Ryan Lee & Melinda Jo. Walton	342/687	35.9
5	26-46.5	Richard Doty	493/673	13.14
6	26-22	Ryan Lee & Melinda Jo. Walton	342/687	36.5
7	26-46.4	Timothy F. & Jasmine Y. Kanz	415/716	8.1
8	26-46.11	Ryan L. & Melinda J. Walton	332/342	6.43
9	26-19.5	James Fallucco	361/260	8.603
10	26-19.11	Denny L. & Sheila Palmer	352/100	9.40
11	26-19.9	Jay-Bee Oil & Gas Inc.	420/93	1.496
12	26-46.24	Jay-Bee Oil & Gas Inc.	420/93	3.059
13	26-46	Jay-Bee Production Co.	420/97	286.39
14	26-19.4	Eric D. & Wendy R. Westbrook	352/420	9.36
15	26-45	Anthony M. Goffi Irrevocable Trust	353/683	52.90
16	26-44	Anthony M. Goffi Irrevocable Trust	353/683	39
17	26-26.1	William Alan Marich	337/629	57.223
18	26-49	Anthony M. Goffi Irrevocable Trust	353/683	130.75
19	26-43	C.W. Red Est., et al	234/156	36.08
20	26-42	Charles Junior Reed	241/288	13
21	26-41	C.W. Reed Est.	30/487	1
22	26-40	C.W. Reed Est.	234/156	2.75
23	26-39	Rosa B. Reed Est.	234/156	8.17
24	26-37	Scott College	309/299	60.23
25	26-38	Anthony M. Goffi Irrevocable Trust	355/688	100
26	29-7	WV DNR	227/141	7.5
27	29-8	WV DNR	227/141	133
28	29-9	WV DNR	227/141	59
29	3-2	WV DNR	227/141	30.06
30	3-1	WV DNR	227/141	309.55
31	3-3	Edward R. & Susan P. Adkins	362/245	100

FILE NO: 17-54-E-19
 DRAWING NO: Fender Unit 3H As-Drilled
 SCALE: 1" = 1500'
 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: December 30 2020
 OPERATOR'S WELL NO. Fender 3H
 API WELL NO
47 - 095 - 02672
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue ACREAGE: 192
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; David L. Lancaster, et ux; Ryan L. Walton, et ux(3); LEASE NO: _____ ACREAGE: _____
 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: 16,768' 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

Denver, CO 80505
 ADDRESS: 1612 Wyliekoop Street
 WEGG OPERATOR: Antero Resources Corporation

Charleston, WV 25313
 ADDRESS: 2400 D Big Tyler Road
 DESIGNATED AGENT: Diana Stimpert - CT Corporation System

PLUG AND ABANDON CLEAN OUT AND BEGUG TARGET FORMATION: Marcelinus shale ESTIMATED DEPTH: 16,188. MD
 REEVALUATE NEW FORMATION OTHER PHYSICAL CHANGE IN WEGG (SPECIFY) AS-Drilled 6,483. LVD

PROPOSED WORK: DRILL COMPLET DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

ROYALTY OWNER: Michael J. & Melinda B. Hogue; David L. Lancaster, et ux; Ryan L. Walton, et ux(2); LEASE NO: ACBEAGE: 1612-18-88-328
 SURFACE OWNER: Michael J. & Melinda B. Hogue; Dennis L. Palmer, et ux; Eric D. Westbrook, et ux; Douglas J. Mince; Anthony Matthew Coffi Inevocable Trust; Clarence M. Mutschelknaus, et al; ACBEAGE: 162
 DISTRICT: Elkhorn DISTRICT: Elkhorn COUNTY: Tyler ACBEAGE: 162
 LOCATION: ELEVATION: AS-Drill 1,012. WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 100: 1' 20: 121' 52: 2' 4

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

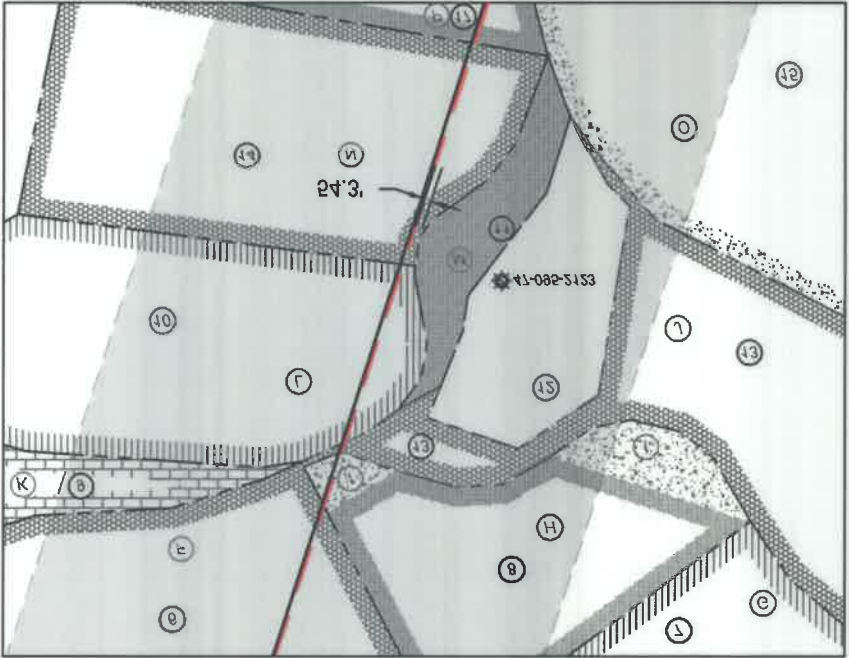
MADOL' Hanchellville, WV
 BROKEN SOURCE OF ELEVATION:
 Surmeter
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 1200.
 DRAWING NO: Fender Unit 3H AS-Drilled
 FILE NO: 11-24-E-18



STATE: WV COUNTY: 062 PERMIT: 05023
 API WEGG NO
 OPERATORS WEGG NO: Fender 3H
 DATE: December 30 2010

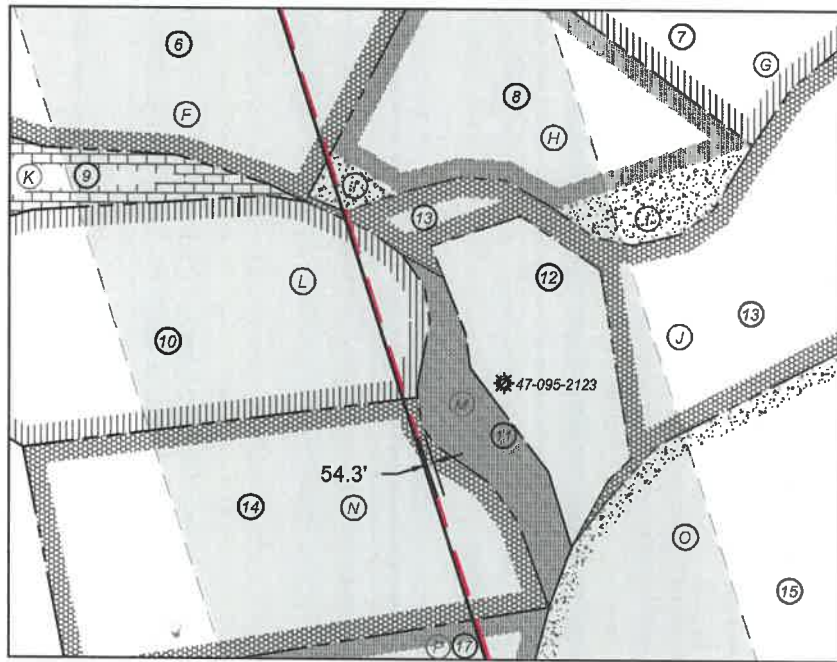
A	Ryan L. Adams, et ux
X	WMI Enterprises, LLC
M	BSC Appalachia Minerals, LLC
A	James L. Drenth
U	Douglas H. Lancaster, et ux
T	Douglas J. Mince
S	Merle C. Reed
R	Ray Bee Royalty
C	Ray-Bee Royalty
B	Clarence M. Mutschelknaus, et al
O	Inevocable Trust
I	Anthony Matthew Coffi
N	Eric D. Westbrook, et ux
M	Ray-Bee Royalty, LLC
G	Dennis L. Palmer, et ux
K	James Falucco
L	Bridgeport Capital, LP
I	Ryan L. Walton, et ux
H	James E. Doss, et ux
E	James E. Doss, et ux
E	Ryan L. Walton, et ux
D	Ryan L. Walton, et ux
D	David L. Lancaster, et ux
C	David L. Lancaster, et ux
B	James E. Doss, et ux
V	Michael J. & Melinda B. Hogue
Leases	

ID	TRAP	Owner	BLP#	Acres
31	3-3	Edward B. & Susan P. Adkins	3821342	100
30	3-1	WA DNR	3311441	308.88
28	3-5	WA DNR	3311441	30.08
28	28-8	WA DNR	3311441	28
21	28-8	WA DNR	3311441	132
28	28-1	WA DNR	3311441	1.2
28	28-38	Anthony M. Coffi Inevocable Trust	3221888	100
24	28-31	Scott College	3081388	80.53
23	28-38	Ross B. Reed Est.	3241128	8.11
25	28-40	C.M. Reed Est.	3241128	5.12
21	28-41	C.M. Reed Est.	301481	1
20	28-45	Charles Junior Reed	2441388	13
18	28-43	C.M. Reed Est., et al	3241128	38.08
18	28-48	Anthony M. Coffi Inevocable Trust	3221888	130.12
11	28-28.1	William Alan Metch	3211828	21.553
18	28-44	Anthony M. Coffi Inevocable Trust	3221888	38
12	28-42	Anthony M. Coffi Inevocable Trust	3221888	25.80
14	28-18.4	Eric D. & Wendyl B. Westbrook	3251450	8.38
13	28-48	Ray-Bee Production Co.	450181	588.38
15	28-48.54	Ray-Bee Oil & Gas Inc.	450181	3.028
11	28-18.8	Ray-Bee Oil & Gas Inc.	450181	1.488
10	28-18.11	Dennis L. & Sheila Palmer	3251100	8.40
8	28-18.2	James Falucco	3811388	8.803
8	28-48.11	Ryan L. & Melinda J. Walton	3251345	8.43
1	28-48.4	Timothy F. & Rosaline Y. Kears	4121148	8.1
8	28-55	Ryan Lee & Melinda Jo. Walton	3451881	38.2
2	28-48.2	Richard Doff	4831813	13.14
4	28-51	Ryan Lee & Melinda Jo. Walton	3451881	38.8
3	20-104	David Lancaster	5101202	21.004
5	20-101	David L. & Kathy A. Lancaster	3141344	18.88
1	20-108	Michael K. & Melinda B. Hogue	3481404	182.00



Antero Resources Corporation
 AS-Drilled
 Well No. Fender Unit 3H
 Antero Resources





Leases	
A	Michael J. & Melinda R. Hogue
B	James F. Doan, et ux
C	David L. Lancaster, et ux
D	David L. Lancaster, et ux
E	Ryan L. Walton, et ux
F	Ryan L. Walton, et ux
G	James F. Doan, et ux
H	James F. Doan, et ux
I	Ryan L. Walton, et ux
J	Ridgetop Capital, LP
K	James Fallucco
L	Denny L. Palmer, et ux
M	Jay-Bee Royalty, LLC
N	Eric D. Westbrook, et ux
O	Anthony Matthew Goffi Irrevocable Trust
P	Clarence W. Mutschelknaus, et al
Q	Jay-Bee Royalty
R	Jay Bee Royalty
S	Merle G. Reed
T	Douglas J. Wince
U	Donald H. Lancaster, et ux
V	Janet L. Dieng
W	BRC Appalachian Minerals I, LLC
X	J&N Enterprises, LLC
Y	Ray E. Adkins, et ux

ID	TM/Par	Owner	Bk/Pg	Acres
1	20-108	Michael K. & Melinda R. Hogue	348/404	192.00
2	20-107	David L. & Kathy A. Lancaster	314/344	18.89
3	20-104	David Lancaster	210/505	57.004
4	26-21	Ryan Lee & Melinda Jo. Walton	342/687	35.9
5	26-46.5	Richard Doty	493/673	13.14
6	26-22	Ryan Lee & Melinda Jo. Walton	342/687	36.5
7	26-46.4	Timothy F. & Jasmine Y. Kanz	415/716	8.1
8	26-46.11	Ryan L. & Melinda J. Walton	332/342	6.43
9	26-19.5	James Fallucco	361/260	8.603
10	26-19.11	Denny L. & Sheila Palmer	352/100	9.40
11	26-19.9	Jay-Bee Oil & Gas Inc.	420/93	1.496
12	26-46.24	Jay-Bee Oil & Gas Inc.	420/93	3.059
13	26-46	Jay-Bee Production Co.	420/97	286.39
14	26-19.4	Eric D. & Wendy R. Westbrook	352/420	9.36
15	26-45	Anthony M.Goffi Irrevocable Trust	353/683	52.90
16	26-44	Anthony M.Goffi Irrevocable Trust	353/683	39
17	26-26.1	William Alan Marich	337/629	57.223
18	26-49	Anthony M.Goffi Irrevocable Trust	353/683	130.75
19	26-43	C.W. Red Est., et al	234/156	36.08
20	26-42	Charles Junior Reed	241/288	13
21	26-41	C.W. Reed Est.	30/487	1
22	26-40	C.W. Reed Est.	234/156	2.75
23	26-39	Rosa B. Reed Est.	234/156	8.17
24	26-37	Scott College	309/299	60.23
25	26-38	Anthony M.Goffi Irrevocable Trust	355/688	100
26	29-7	WV DNR	227/141	7.5
27	29-8	WV DNR	227/141	133
28	29-9	WV DNR	227/141	59
29	3-2	WV DNR	227/141	30.06
30	3-1	WV DNR	227/141	309.55
31	3-3	Edward R. & Susan P. Adkins	362/245	100

FILE NO: 17-54-E-19
 DRAWING NO: Fender Unit 3H As-Drilled
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Fender 3H
 API WELL NO
 47 - 095 - 02672
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth Ridgetop Capital, LP; Donald H. Lancaster, et ux; Jay Bee Royalty, LLC; COUNTY: Tyler 100; 310.393; 5.4
 SURFACE OWNER: Michael J. & Melinda R. Hogue Janet L. Dieng; BRC Appalachian Minerals I, LLC; James F. Doan, et ux; ANTHONY MATTHEW GOFFI IRREVOCABLE TRUST; CLARENCE W. MUTSCHELKNAUS, ET AL; ACREAGE: 192 04/02/2023 9.36; 302.89875;
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; David L. Lancaster, et ux; Ryan L. Walton, et ux(3); LEASE NO: ACREAGE: 36.5; 1.03; 9.40;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,463' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,768' 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