

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

RECEIVED
Office of Oil and Gas

FEB 09 2021

WV Department of
Environmental Protection

API 47-095-02670 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 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 4369108.970m Easting 508769.641m
Landing Point of Curve Northing ----- Easting -----
Bottom Hole Northing 4368780.857m Easting 508276.611m

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 3/8/2020 Date drilling ceased 3/22/2020
Date completion activities began 8/17/2020 Date completion activities ceased 9/12/2020
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:

ALB
2/23/2021
04/02/2021

API 47- 095 - 02670 Farm name Michael J. & Melinda R. Hogue Well number Fender 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	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	565'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2683'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15500'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6947'		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	327 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	701 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) 15548' MD, 6356' TVD (BHL), 6407' (Deepest Point Drilled) Loggers TD (ft) 15548' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5767'

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 - 02670 Farm name Michael J. & Melinda R. Hogue Well number Fender Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
<u>Marcellus</u>	<u>6348' (TOP)</u>	<u>TVD</u>	<u>7025' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas 3351 mcfpd Oil 119 bpd NGL --- bpd Water 16 bpd GAS MEASURED BY Estimated Orifice Pilot

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

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor H&P Drilling
Address 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

API 47-095-02670 Farm Name Michael J. & Melinda R. Hogue Well Number Fender Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/17/2020	15431.1	15383.1	60	Marcellus
2	8/17/2020	15347.32317	15178.439	60	Marcellus
3	8/17/2020	15144.6622	14975.778	60	Marcellus
4	8/17/2020	14942.00122	14773.1171	60	Marcellus
5	8/18/2020	14739.34024	14570.4561	60	Marcellus
6	8/18/2020	14536.67927	14367.7951	60	Marcellus
7	8/18/2020	14334.01829	14165.1341	60	Marcellus
8	8/18/2020	14131.35732	13962.4732	60	Marcellus
9	8/19/2020	13928.69634	13759.8122	60	Marcellus
10	8/19/2020	13726.03537	13557.1512	60	Marcellus
11	8/19/2020	13523.37439	13354.4902	60	Marcellus
12	8/19/2020	13320.71341	13151.8293	60	Marcellus
13	8/19/2020	13118.05244	12949.1683	60	Marcellus
14	8/20/2020	12915.39146	12746.5073	60	Marcellus
15	8/20/2020	12712.73049	12543.8463	60	Marcellus
16	8/20/2020	12510.06951	12341.1854	60	Marcellus
17	8/20/2020	12307.40854	12138.5244	60	Marcellus
18	8/21/2020	12104.74756	11935.8634	60	Marcellus
19	8/21/2020	11902.08659	11733.2024	60	Marcellus
20	8/21/2020	11699.42561	11530.5415	60	Marcellus
21	8/21/2020	11496.76463	11327.8805	60	Marcellus
22	8/21/2020	11294.10366	11125.2195	60	Marcellus
23	8/22/2020	11091.44268	10922.5585	60	Marcellus
24	8/22/2020	10888.78171	10719.8976	60	Marcellus
25	8/22/2020	10686.12073	10517.2366	60	Marcellus
26	8/22/2020	10483.45976	10314.5756	60	Marcellus
27	8/22/2020	10280.79878	10111.9146	60	Marcellus
28	8/23/2020	10078.1378	9909.25366	60	Marcellus
29	8/23/2020	9875.476829	9706.59268	60	Marcellus
30	8/23/2020	9672.815854	9503.93171	60	Marcellus
31	8/23/2020	9470.154878	9301.27073	60	Marcellus
32	8/23/2020	9267.493902	9098.60976	60	Marcellus
33	8/24/2020	9064.832927	8895.94878	60	Marcellus
34	8/24/2020	8862.171951	8693.2878	60	Marcellus
35	8/24/2020	8659.510976	8490.62683	60	Marcellus
36	8/24/2020	8456.85	8287.96585	60	Marcellus
37	8/24/2020	8254.189024	8085.30488	60	Marcellus
38	8/24/2020	8051.528049	7882.6439	60	Marcellus
39	8/25/2020	7848.867073	7679.98293	60	Marcellus
40	8/25/2020	7646.206098	7477.32195	60	Marcellus
41	8/25/2020	7443.545122	7274.66098	60	Marcellus
42	8/25/2020	7240.884146	7072	60	Marcellus

04/02/2021

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	8/17/2020	61.06	8622.82	8797	3885.69	185100	211663	N/A
2	8/17/2020	79.18	8712.75	6408.87	3980.33	412340	322662	N/A
3	8/17/2020	78.37	8603.35	5868	3753.38	412280	318757	N/A
4	8/17/2020	81.66	8701.36	6036.76	3857.52	413320	316153	N/A
5	8/18/2020	78.93	8775.86	6474.47	3816.98	413140	317427	N/A
6	8/18/2020	80.09	8620.04	5774	3287.25	408900	310813	N/A
7	8/18/2020	83.2	8774	5713	3798	410500	310753	N/A
8	8/18/2020	81.24	8877	5634	3777	408680	309521	N/A
9	8/19/2020	81.82	8884	6055	4066	409380	303981	N/A
10	8/19/2020	79.16	8988	5904	3905	408600	303807	N/A
11	8/19/2020	84.22	9066	6479	3785	408340	303665	N/A
12	8/19/2020	81.72	8866	6555	3965	412560	302759	N/A
13	8/19/2020	84.94	8782	6374	4044	411840	304742	N/A
14	8/20/2020	83.7	8912	6162	4076	412360	300476	N/A
15	8/20/2020	83.6	8889	5823	3985	413920	304299	N/A
16	8/20/2020	80.59	8892	5160	3893	411960	302991	N/A
17	8/20/2020	83.42	8862	6438	4118	410580	298490	N/A
18	8/21/2020	75.41	8943	5829	4090	414680	305204	N/A
19	8/21/2020	85.68	8927	6380	3868	421760	300329	N/A
20	8/21/2020	83.5	9012	5891	3922	414420	297874	N/A
21	8/21/2020	89.16	8920	5658	4083	411640	291874	N/A
22	8/21/2020	80.9	8922	5683	3947	412080	305688	N/A
23	8/22/2020	82.32	8810	6102	3596	410460	319950	N/A
24	8/22/2020	87.18	8682	5751	4009	408540	291876	N/A
25	8/22/2020	89.04	8626	5190	3932	408900	294666	N/A
26	8/22/2020	88.77	8760	6193	4052	411780	299373	N/A
27	8/22/2020	94.3	8802	6526	4228	409560	293592	N/A
28	8/23/2020	92.92	8826	6079	4082	409040	294003	N/A
29	8/23/2020	93.36	8591	6385	4161	409540	290032	N/A
30	8/23/2020	92.48	8671	7065	4160	411900	284223	N/A
31	8/23/2020	94.89	8769	6127	4069	411520	288157	N/A
32	8/23/2020	92.57	8829	5962	4047	411280	291691	N/A
33	8/24/2020	94.86	8786	5992	3919	409520	291212	N/A
34	8/24/2020	92.26	8553	6749	3993	407960	295803	N/A
35	8/24/2020	95.84	8445	6424	4261	409500	289632	N/A
36	8/24/2020	95.12	8570	6185	3969	412060	290801	N/A
37	8/24/2020	93.85	8613	6107	3998	411380	316482	N/A
38	8/24/2020	95.69	8588	6287	4065	411960	288359	N/A
39	8/25/2020	95.44	8621	6087	3988	414060	290903	N/A
40	8/25/2020	94.86	8523.8	6756.49	3831.22	413840	291086	N/A
41	8/25/2020	94.77	8542.68	6945	3713.65	412900	295240	N/A
42	8/25/2020	97.3	8385	6536	3648	411460	290237	N/A
	AVG=	86.4	8,760	6,195	3,951	16,644,080	12,241,009	TOTAL

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:	8/17/2020
Job End Date:	8/25/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02670-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	FENDER 1H
Latitude:	39.47144000
Longitude:	-80.89822000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,406
Total Base Water Volume (gal):	12,501,522
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	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	87.81766	Density = 10.00
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16784	



**RADIAL CEMENT BOND
GAMMA RAY/CCLV/DL**

Company ANTERO RESOURCES CORPORATION
Well FENDER UNIT 1H
Field MARCELLUS
County TYLER
State W.V.

Company ANTERO RESOURCES CORPORATION
Well FENDER UNIT 1H
Field MARCELLUS
County TYLER State W.V.

Location: API #: 47-095-026700000

Other Services

SEC	TWP	RGE	Elevation	1014'	Elevation
Permanent Datum	G.L.				K.B. 1039'
Log Measured From	K.B.				D.F. 1039'
Drilling Measured From	K.B. OF 25'				G.L. 1014'

Date	4/9/20
Run Number	ONE
Depth Driller	15528'
Depth Logger	7092'
Bottom Logged Interval	7092'
Top Log Interval	SURFACE
Open Hole Size	N/A
Type Fluid	H2O
Density / Viscosity	N/A
Max. Recorded Temp.	144 DEG
Estimated Cement Top	N/A
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	340
Location	BRIDGEPORT, WV
Recorded By	J. BOGGS
Witnessed By	BRANDON HAIRE

Borehole Record		Casing Record					
Run Number	Bit	From	To	Size	Weight	From	To
				5"	18LB	SURFACE	15528'

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR USING KLX ENERGY SERVICES

LOG WAS RAN ON 5" CASING
BOTTOM HOLE TEMP- 144 DEG
MARKER JOINT @ 5635'-5646'

Database File: f:\fender 1h.db
Dataset Pathname: pass4.7
Presentation Format: _scblt12
Dataset Creation: Fri Apr 10 12:39:37 2020 by Calc Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

04/02/2021

10,932' to Bottom Hole

6,712' to Top Hole

LATITUDE 39 - 30 - 00

LONGITUDE 80 - 52 - 30

10,299' to Top Hole

Antero Resources
Well No. Fender Unit 1H
As-Drilled
Antero Resources Corporation



Legend

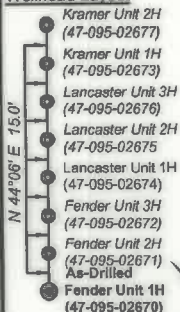
- Proposed gas well
- Monument, as noted
- ⊙ Existing Well, as noted
- ⊙ Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Page 1 of 2

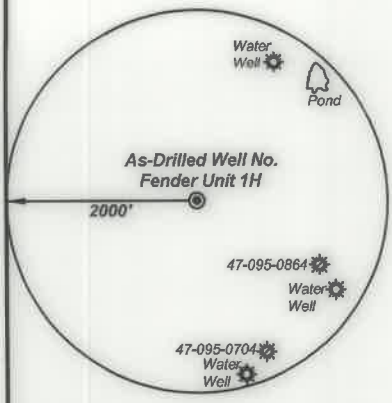
Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Fender Unit 1H Top Hole coordinates are
N: 356,891.43' Latitude: 39°28'17.20"
E: 1,605,296.00' Longitude: 80°53'53.57"
POE coordinates are
N: 355,841.78' Latitude: 39°28'06.57"
E: 1,603,660.14' Longitude: 80°54'14.22"
Bottom Hole coordinates are
N: 363,671.94' Latitude: 39°29'23.56"
E: 1,601,076.08' Longitude: 80°54'48.74"
UTM Zone 17, NAD 1983
Top Hole Coordinates POE Coordinates
N: 4,369,108.970m N: 4,368,780.857m
E: 508,769.641m E: 508,276.611m
Bottom Hole Coordinates
N: 4,371,153.183m
E: 507,449.543m
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.

Wellhead Layout



	Bearing	Dist.
L1	S 46°09' E	1,401.2'
L2	S 25°20' E	1,549.9'
L3	N 76°13' W	929.4'
L4	N 09°25' W	1,418.3'



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



SEAL

FILE NO: 17-54-E-19
DRAWING NO: Fender Unit 1H 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 1H
API WELL NO
47 - 095 - 02670
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 BRC Appalachian Minerals I, LLC; Arthur D. Haught; Ruth E. Blake; Betty Lou Hadley; Sam Maxson; The Swan Living Trust; Peter W. & Irmagard E. Guenter, Joint Living Trust; ACREAGE: 192.0
ROYALTY OWNER: Michael J. & Melinda R. Hogue; Ryan L. Walton, et ux (2); David L. Lancaster, et ux (2) LEASE NO: ACREAGE: 166.09063; 93.1; 18.89; 58.27275; 191.5; 35.9; 36.5

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: 15,548' 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

Denver, CO 80505
 ADDRESS: 1612 Wyanook Street
 WELL OPERATOR: Antero Resources Corporation

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 12,248. MD
 REEVALUATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PROPOSED WORK: DRIFT CORRECT DRIFT DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PROPERTY OWNER: Michael J. & Melinda R. Hogue; Ryan L. Walton, et ux (S); David L. Lancaster, et ux (S)
 SURFACE OWNER: Michael J. & Melinda R. Hogue; Ryan L. Walton, et ux (S); David L. Lancaster, et ux (S)
 DISTRICT: Elkhorn
 LOCATION: ELEVATION: As-Drilled 1,102. WATERBED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

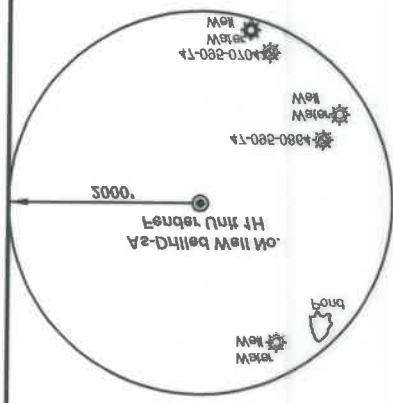
MDOT, Hartselle, WV
 PROVEN SOURCE OF ELEVATION:
 Surmeter
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 1200.
 DRAWING NO: Fender Unit 1H As-Drilled
 FILE NO: 17-24-E-18

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

STATE: 20 COUNTY: 002 PERMIT: 0520
 API WELL NO:
 OPERATORS WELL NO: Fender 1H
 DATE: December 30 2010

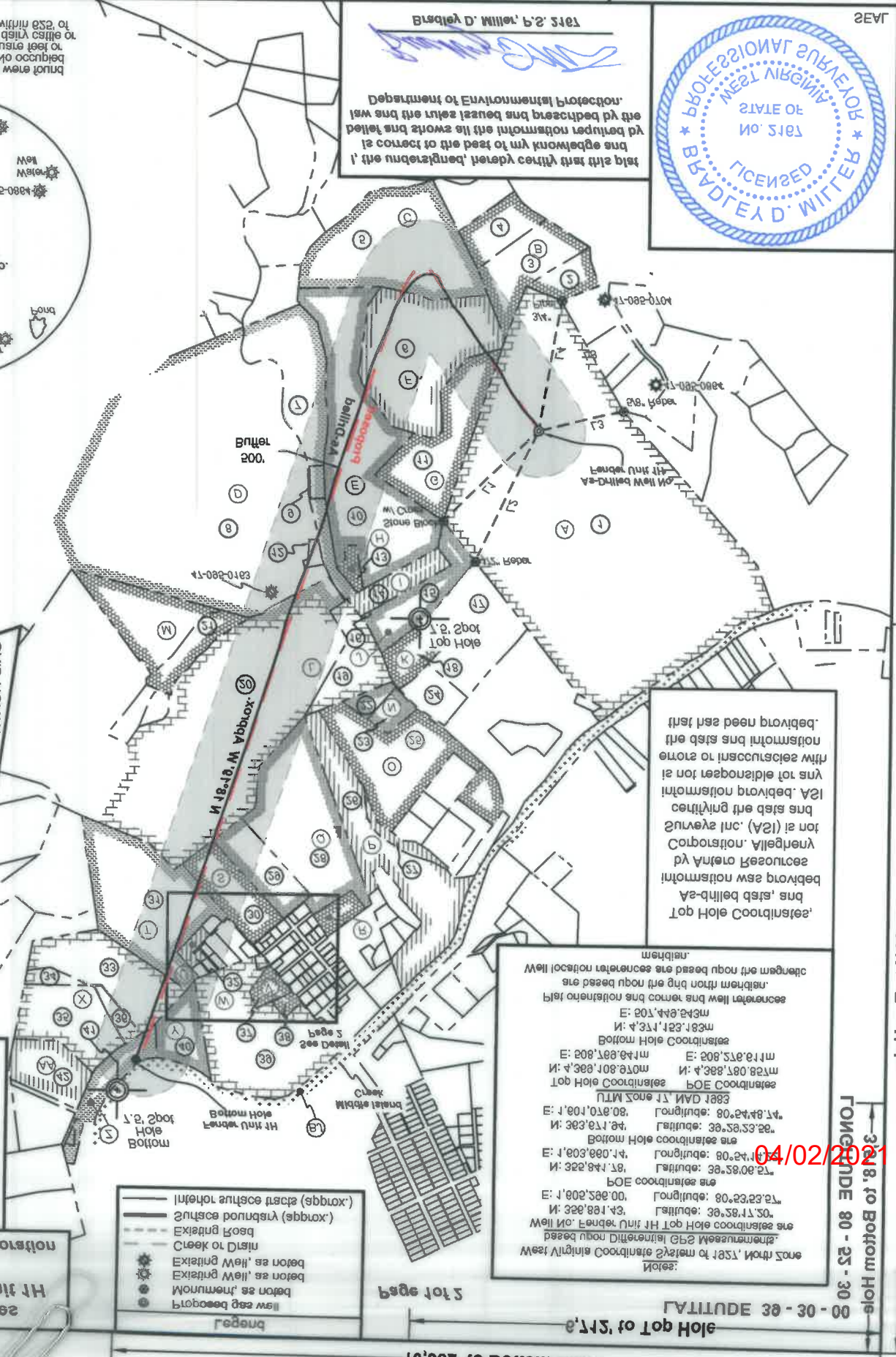
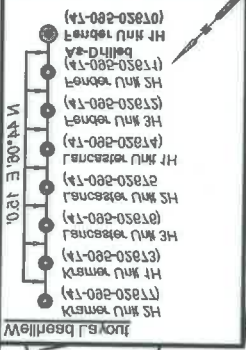
The center of the well bore is located within 252.0 of boundary independently located within 252.0 of adjacent houses or adjacent dairy cattle or dwellings or buildings 2500 feet or more within 2000.0 of well. No occupied building or other structure is located within 2000.0 of well.

Bradley D. Miller, P.S. 2167
 Department of Environmental Protection,
 is correct to the best of my knowledge and is correct to the best of my knowledge and I, the undersigned, hereby certify that this plat



G4	N 08.52. W	1' 418' 3.
G3	N 16.13. W	850' 4.
G2	S 26.50. E	1' 248' 0.
G1	S 46.08. E	1' 401' 3.

Beaching Dist.



that top Hole Coordinates and As-Drilled was provided information was provided by Antero Resources Corporation (AR) is not a certified professional surveyor and therefore the information provided is not reliable for any use in connection with the information provided herein. Information has been provided.

Well location reference are based on the following:

E: 207144.8243	N: 4311423.183m	Bottom Hole Coordinates
E: 207188.841m	N: 4311423.183m	Top Hole Coordinates
E: 207188.841m	N: 4311423.183m	Bottom Hole Coordinates are
E: 207188.841m	N: 4311423.183m	Bottom Hole Coordinates are
E: 207188.841m	N: 4311423.183m	Bottom Hole Coordinates are



Antero Resources Corporation
 As-Drilled
 Well No. Fender Unit 1H
 Antero Resources

- Legend
- Interior surface fracts (approx)
 - Surface topography (approx)
 - Existing Road
 - Creek or Drain
 - Existing Well
 - Existing Well
 - Proposed well gas desorption

10,590. to Job Hole

368. to Bottom Hole
 LONGITUDE 80 - 25 - 30

10,933. to Bottom Hole

LATITUDE 38 - 30 - 00

04/02/2011

10,932' to Bottom Hole

6,712' to Top Hole

LATITUDE 39 - 30 - 00

LONGITUDE 80 - 52 - 30

10,299' to Top Hole

Antero Resources
Well No. Fender Unit 1H
As-Drilled
Antero Resources Corporation



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.)

Page 1 of 2

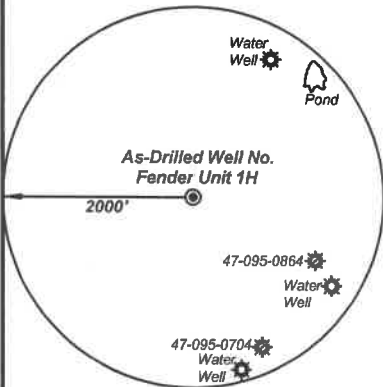
Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Fender Unit 1H Top Hole coordinates are
N: 356,891.43' Latitude: 39°28'17.20"
E: 1,605,296.00' Longitude: 80°53'53.57"
POE coordinates are
N: 355,841.78' Latitude: 39°28'06.57"
E: 1,603,660.14' Longitude: 80°54'14.22"
Bottom Hole coordinates are
N: 363,891.94' Latitude: 39°29'23.56"
E: 1,601,076.08' Longitude: 80°54'48.74"
UTM Zone 17, NAD 1983
Top Hole Coordinates POE Coordinates
N: 4,369,108.970m N: 4,368,780.857m
E: 508,769.641m E: 508,276.611m
Bottom Hole Coordinates
N: 4,371,153.183m
E: 507,449.543m
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.

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)
- Fender Unit 3H (47-095-02672)
- Fender Unit 2H (47-095-02671) As-Drilled
- Fender Unit 1H (47-095-02670)

	Bearing	Dist.
L1	S 46°09' E	1,401.2'
L2	S 25°20' E	1,549.9'
L3	N 76°13' W	929.4'
L4	N 09°25' W	1,418.3'



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



SEAL

FILE NO: 17-54-E-19

DRAWING NO: Fender Unit 1H 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 1H

API WELL NO

47 - 095 - 02670
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

SURFACE OWNER: Michael J. & Melinda R. Hogue

BRC Appalachian Minerals I, LLC; Arthur D. Haught;
Ruth E. Blake; Betty Lou Hadley; Sam Maxson;
The Swan Living Trust; Peter W. & Irmagard E. Guenter, Joint Living Trust;

COUNTY: Tyler

ACREAGE: 192.0

ROYALTY OWNER: Michael J. & Melinda R. Hogue; Ryan L. Walton, et ux (2); David L. Lancaster, et ux (2)

LEASE NO: ACREAGE:

8.38;
40.25; 20.25
166.09063; 93.1;
18.89; 58.27275;
191.5; 35.9; 36.5

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: 15,548' MD 6,356' TVD

WELL OPERATOR: Antero Resources Corporation

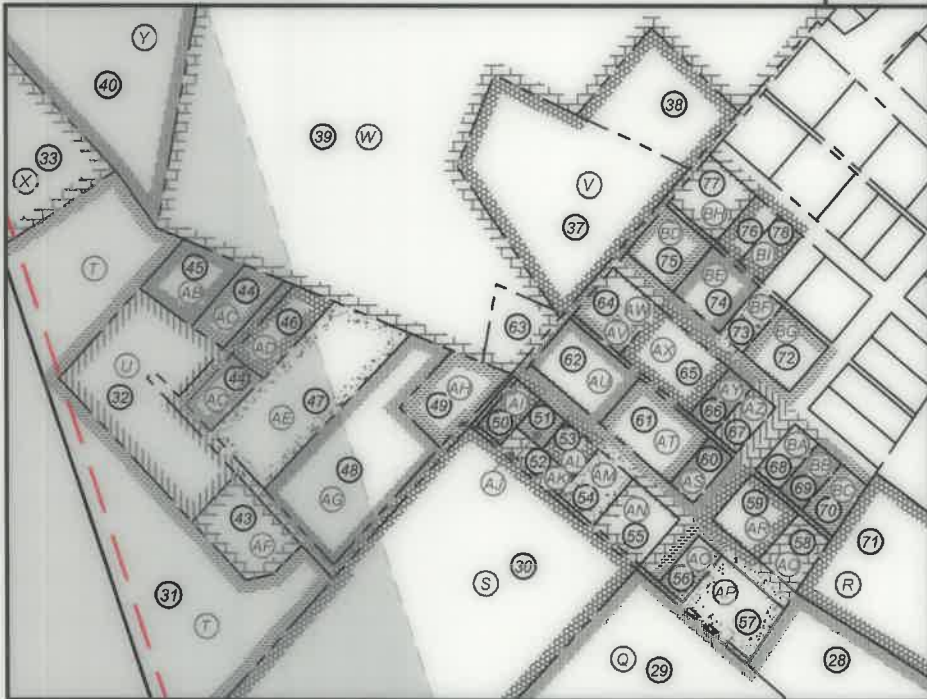
DESIGNATED AGENT: Dianna Stamper - CT Corporation System

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 5400 D Big Tyler Road
Charleston, WV 25313



Detail



Leases	
A	Michael J. & Melinda R. Hogue
B	James F. Doan, et ux
C	Ryan L. Walton, et ux
D	The Swan Living Trust
E	David L. Lancaster, et ux
F	Ryan L. Walton, et ux
G	David L. Lancaster, et ux
H	Kenneth W. Lancaster
I	Terry Lee Fiber
J	Joe & Shirley Varese
K	Leeman W. Mason, et ux
L	Peter W. & Irmagard Guenter Joint Living Trust
M	Thomas & Cynthia H. Hall
N	BRC Appalachian Minerals I, LLC
O	Robert C. Kramer
P	Charles E. Anderson, et ux
Q	Ruth E. Blake
R	Earnestine Pelikan & David Leasure
S	Betty Lou Hadley
T	Sam Maxson
U	Larry K. Spencer
V	Tustin Family Trust
W	Tustin Family Trust
X	BRC Appalachian Minerals I, LLC
Y	Nellie M. Wilson, et al
Z	Arthur D. Haught
AA	Mary Frances Carpenter
AB	Larry K. Spencer
AC	Larry K. Spencer
AD	Harold L. Holloway, Jr., et ux
AE	Michael H. Glover, et ux
AF	Betty Lou Hadley
AG	Jordan L. & Michael P. Haught
AH	James M. Glover, et ux
AI	James M. Glover, et ux
AJ	April N. DeLong
AK	Ruth Blake
AL	Ruth Blake
AM	Betty Lou Hadley
AN	James D. Anderson & Tracy A. Doll
AO	Betty Lou Hadley
AP	Bessie L. Matthews, et vir
AQ	Betty Lou Hadley
AR	Betty Lou Hadley
AS	Betty Lou Hadley
AT	Stephen D. Ashley, et ux
AU	James M. Glover, et ux
AV	Martha J. Hayes, et vir
AW	Betty Lou Hadley
AX	Betty Lou Hadley
AY	Betty Lou Smith
AZ	Betty Hadley
BA	Laura June Smith
BB	Kathryn Knowlton
BC	Crystal Christophel
BD	Timothy Stanley, et ux
BE	Donald E. Huffman
BF	Betty Lou Hadley
BG	Betty Lou Hadley
BH	Nancy Glover
BI	William H. Eddy
BJ	WV DNR

ID	TM/Par	Owner	Bk/Pg	Acres
1	20/108	Michael J. & Melinda R. Hogue	348/404	192.00
2	26/46.10	Leon & Drema Gall Ison	359/311	4.98
3	26/46.5	Richard Doty	493/673	13.14
4	26/46.4	Timothy F. & Jasmine Y. Kanz	415/716	8.10
5	26/22	Ryan Lee & Melinda Jo Walton	342/687	36.50
6	26/21	Ryan Lee & Melinda Jo Walton	342/687	35.90
7	26/20	Kenneth & Brenda Lancaster	210/502	20.00
8	20/102	Antero Midstream LLC	575/69	203.59
9	20/103	Kenneth & Brenda Lancaster	210/341	1.20
10	20/104	David Lancaster	210/505	57.00
11	20/107	David L. & Kathy A. Lancaster	314/344	18.89
12	20/102.1	Terrell Lee Henderson	445/302	0.951
13	20/104.1	Kenneth & Brenda Lancaster	328/13	1.796
14	20/105.1	Terry Lee Fiber	335/682	6.06
15	20/105	Joe & Shirley Varese	352/736	11.322
16	20/105.2	Terry Lee Fiber	336/480	0.098
17	20/106	Eugene F. & Phyllis A. Howell	223/371	19.76
18	20/106.1	Lee Ann Hall	486/806	5.493
19	20/99	Pioneer Land Company LLC	431/414	10.00
20	20/85	Pioneer Land Company LLC	431/414	83.10
21	20/83.5	Thomas & Cynthia Hall	392/229	6.416
22	20/93.1	Vernon Stevens	423/703	2.14
23	20/93.5	Nina Smith & Mary Bennett	308/115	2.88
24	20/106.2	Nancy Forester	328/633	5.429
25	20/93	Robert C. Kramer	547/650	23.964
26	20/92	Charles & Doris Anderson	210/359	27.00
27	20/94	Charles & Doris Anderson	217/398	2.806
28	20/86	Ruth E. Blake	317/103	23.75
29	20/44.1	Ruth E. Blake	317/103	10.17
30	20/44.2	Roy D. Hadley & Betty L. Gulley	295/375	11.27
31	20/43	Janet Neff, et al	429/173	35.00
32	20A/1	William G. & Larry K. Spencer	296/368	1.71
33	20/42	Janet Neff, et al	429/173	20.23
34	20/42.1	Kenneth & Mary Ashley	351/771	1.889
35	20/41	Kenneth & Mary Ashley	194/365	15.79
36	20/41.1	Janet Neff, et al	429/173	2.218
37	20/46.1	Betty Tustin	WB45/156	2.476
38	20/47	Betty Tustin	WB45/156	1.00
39	20/46	Betty Tustin	WB45/156	29.66

ID	TM/Par	Owner	Bk/Pg	Acres
40	20/45	Nellie M. Wilson	337/462	8.00
41	20/40.1	Gary & Margaret Rymer	232/12	7.07
42	20/40	William H. & Judy M. White	352/566	9.31
43	20A/6	Roy D. & Betty Lou Hadley	353/558	0.53
44	20A/3.1	Larry K. Spencer	425/56	0.524
45	20A/2	Wanda M. Spencer, et al	AR50/170	0.45
46	20A/3	Harold L. & Debra C. Holloway	225/51	0.366
47	20A/5	Michael H. & Vola J. Glover	208/103	1.38
48	20A/7	Jordan L. & Michael P. Haught	522/391	1.66
49	20A/8	James M. & Sara K. Glover	434/163	0.44
50	20A/9	James M. & Sarah M. Glover	578/622	0.17
51	20A/10	April N. DeLong	437/806	0.11
52	20A/10.1	Ruth E. Blake	348/604	0.16
53	20A/11	Ruth E. Blake	343/574	0.14
54	20A/12	Roy D. & Betty Lou Hadley	304/366	0.25
55	20A/13	James D. Anderson & Tracy A. Doll	400/425	0.33
56	20A/55	Roy D. & Betty Lou Hadley	350/341	0.17
57	20A/54	Bessie L. Matthews, et vir	521/634	0.46
58	20A/52	Betty Lou Hadley	579/652	0.24
59	20A/53	Deloris Gulley	AR40/97	0.33
60	20A/14	Roy D. Hadley	332/696	0.17
61	20A/15	Stephen D. & Brenda J. Ashley	317/183	0.50
62	20A/16	James M. Glover	330/197	0.50
63	20/46.2	James & Sara Glover	350/386	0.386
64	20A/17	Chris L. Hayes & Martha J. Tennant	343/212	0.17
65	20A/18	Roy D. Hadley	WB23/305	0.66
66	20A/19	Roy D. Hadley	WB23/305	0.17
67	20A/20	Betty Hadley	470/683	0.17
68	20A/50	Betty Lou Hadley	579/652	0.17
69	20A/51	Shirl A. Henderson	WB19/379	0.17
70	20A/51.1	Crystal Christophel	WB19/379	0.16
71	20/86.1	Earnest Leasure, et al	321/160	0.37
72	20A/21	Roy D. Hadley	317/674	3.00
73	20A/22	Roy Hadley	WB23/305	0.17
74	20A/23	Connie Sue Tanner	327/883	0.33
75	20A/24	Timothy & Tonya Stanley	581/792	0.33
76	20A/26.1	Evelyn S. Smith	328/95	0.165
77	20A/25	Nancy Glover	147/104	0.33
78	20A/26	Evelyn S. Smith	332/681	0.165

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

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

DATE: December 30 2020
 OPERATOR'S WELL NO. Fender 1H
 API WELL NO
 47 - 095 - 02670
 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 BRC Appalachian Minerals I, LLC; Arthur D. Haught; Ruth E. Blake; Betty Lou Hadley; Sam Maxson; The Swan Living Trust; Peter W. & Irmagard E. Guenter, Joint Living Trust; ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; Ryan L. Walton, et ux (2); David L. Lancaster, et ux (2) 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: 15,548' 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: 1818 Wyliekoop Street
 CHESTER, WV 26313 ADDRESS: 2400 D Big Tree Road
 WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Diana Stamber - CT Corporation System

BUNG AND AVOIDON CLEAN OUT AND BERTING TARGET FORMATION: Marcellus shale ESTIMATED DEPTH: 18248, MD
 BERTING AND AVOIDON OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 8'328, LVD
 PROPOSED WORK: DRIFT CORRECT DRIFT DEEPER FRACKURE OR STIMULATE BUNG OFF OLD FORMATION
 BOYALTY OWNER: Michael J. & Melinda B. Hogue; Ryan L. Walton et ux (S); David L. Gausselet et ux (S) LEASE NO: ACBEAGE: 181'2: 32'8: 38'2
 SURFACE OWNER: Michael J. & Melinda B. Hogue The Swan Living Trust; Peter M. & Margaret E. Gwenter; Joint Living Trust; Kirt E. Blake; Betty Lou Hodge; Sam Maxson; ACBEAGE: 185'0 18'88: 28'51312:
 DISTRICT: Elsworth BRC Appalachia Minerals I, LLC; Arthur D. Hought; 188 08083: 83'1: 41'452: 11'58812:
 LOCATION: ELEVATION: As-Built 1'012, WATERBED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 32: 40'852: 8'38:
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 WELL TYPE: OIL GAS FLUID INJECTION WASTE DISPOSAL

WADOT: Hamshille, WV
 PROVEN SOURCE OF ELEVATION:
 Surveyed
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 100'
 DRAWING NO: Fender Unit 1H As-Drilled
 FILE NO: 11-24-E-18



STATE: WV COUNTY: MORGAN PERMIT: 03210
 API WELL NO: Fender 1H
 OPERATOR'S WELL NO: Fender 1H
 DATE: December 30 2020

ID	TMPL#	OWNER	BKFB	ACRES	ID	TMPL#	OWNER	BKFB	ACRES
38	50148	Betty Tustin	MB42128	58.88	18	50142	Michelle M. Wilson	3311423	8.00
37	50143	Betty Tustin	MB42128	1.00	17	50145B	Isacly Glover	1411104	0.33
36	50142	Betty Tustin	MB42128	5.438	16	50145B	Evelyn S. Smith	358182	0.182
35	50141	Jane Hest et al	450113	5.318	15	50145A	Evelyn S. Smith	2811385	0.33
34	50141	Kenneth W. Gausselet	1841382	12.38	14	501453	Timothy & Tanya Stamber	2811385	0.33
33	50142	Kenneth W. Gausselet	321131	1.888	13	501453	Connie Sue Tanner	3511883	0.33
32	50143	Jane Hest et al	450113	50.53	12	501455	Kol Hodge	MB531302	0.11
31	50141	William C. & Gail K. Spencer	5881388	1.11	11	501451	Kol D. Hodge	3113814	3.00
30	50143	Jane Hest et al	450113	32.00	10	50148	Estelle Lesane et al	3511180	0.31
29	50144	Kol D. Hodge & Betty L. Hodge	5881382	11.51	9	50142	Clyde Christophel	MB181318	0.18
28	50144	Kirt E. Blake	311103	10.11	8	50140	Shirley A. Henderson	MB181318	0.11
27	50148	Kirt E. Blake	311103	53.32	7	50140	Betty Lou Hodge	2818825	0.11
26	50143	Charles & Dora Anderson	5111388	5.800	6	50140	Betty Lou Hodge	4101883	0.11
25	50143	Charles & Dora Anderson	5101388	51.00	5	50148	Kol D. Hodge	MB531302	0.11
24	50143	Robert C. Kramer	2411820	53.884	4	50148	Kol D. Hodge	MB531302	0.88
23	50140	Isacly Glover	3581823	2.458	3	50141	Chris L. Hayes & Martha J. Tennant	2431315	0.11
22	50143	Mira Smith & Mary Bennett	3081112	5.88	2	50148	James & Sara Glover	3201388	0.388
21	50143	Lemon Stevens	4531103	5.14	1	50148	James M. Glover	3301181	0.20
20	50143	Thomas & Cynthia Hall	3851358	8.418	0	50142	Stephan D. & Brenda J. Ashely	3111183	0.20
19	50142	Bronco Land Company LLC	4311414	83.10	0	50144	Kol D. Hodge	3351888	0.11
18	50142	Bronco Land Company LLC	4311414	10.00	0	50143	Debra Giffey	AR41081	0.33
17	50140	Gee Ann Hall	4881808	2.483	0	50142	Betty Lou Hodge	2818825	0.24
16	50140	Eugene F. & Sylvia A. Howell	5531311	18.38	0	50142	Bessie L. Matthews et al	2511824	0.48
15	50140	Levy Lee Fifer	3381480	0.888	0	50142	Kol D. & Betty Lou Hodge	3201341	0.11
14	50140	Joe & Shirley Vasee	3251138	11.355	0	50143	James D. Anderson & Tracy A. Doll	4001452	0.33
13	50140	Levy Lee Fifer	3381883	8.08	0	50141	Kol D. & Betty Lou Hodge	3041388	0.52
12	50140	Kenneth W. Gausselet & Brenda Gausselet	358113	1.388	0	50141	Kirt E. Blake	2431214	0.14
11	50140	Levy Lee Henderson	4421305	0.821	0	50140	Kirt E. Blake	2481804	0.18
10	50141	David L. & Kaitly A. Gausselet	3141344	18.88	0	50140	Abby M. DeFong	4311808	0.11
9	50140	David Gausselet	5101202	21.00	0	50148	James M. & Sara M. Glover	2818825	0.11
8	50140	Kenneth W. Gausselet	5101341	1.50	0	50148	James M. & Sara K. Glover	4341183	0.44
7	50140	Antero Middlesex LLC	212188	503.88	0	50141	John L. & Michele F. Hought	2551381	1.88
6	50140	Kenneth W. Gausselet	5101205	50.00	0	50142	Michelle H. & Lois J. Glover	5081103	1.38
5	50141	Ryan Lee & Melinda Jo Walton	3451881	32.80	0	50143	Helen J. & Dora C. Holloway	35212	0.388
4	50143	Ryan Lee & Melinda Jo Walton	3451881	32.20	0	50143	James M. Spencer et al	AR201110	0.42
3	50148	Timothy F. & Leanne Y. Karp	4121118	8.10	0	50143	Gail K. Spencer	452182	0.254
2	50148	Richard Day	4831813	13.14	0	50148	Kol D. & Betty Lou Hodge	3231228	0.23
1	50148	Leon & Dorena Gailson	3281311	4.88	0	50140	William H. & Judy M. White	3251288	8.31
0	50148	Michael J. & Melinda B. Hogue	3441404	185.00	0	50141	Gay & Margaret Rymer	5351115	1.01

71	MA DIB
70	William H. Eddy
69	Isacly Glover
68	Betty Lou Hodge
67	Betty Lou Hodge
66	Dorena E. Holloway
65	Timothy & Tanya Stamber
64	Clyde Christophel
63	James M. Glover et ux
62	James M. Glover et ux
61	Stephan D. & Brenda J. Ashely et ux
60	Betty Lou Hodge
59	Betty Lou Hodge
58	Betty Lou Hodge
57	Betty Lou Hodge
56	Betty Lou Hodge
55	Betty Lou Hodge
54	Betty Lou Hodge
53	Betty Lou Hodge
52	Betty Lou Hodge
51	Betty Lou Hodge
50	Betty Lou Hodge
49	Betty Lou Hodge
48	Betty Lou Hodge
47	Betty Lou Hodge
46	Betty Lou Hodge
45	Betty Lou Hodge
44	Betty Lou Hodge
43	Betty Lou Hodge
42	Betty Lou Hodge
41	Betty Lou Hodge
40	Betty Lou Hodge
39	Betty Lou Hodge
38	Betty Lou Hodge
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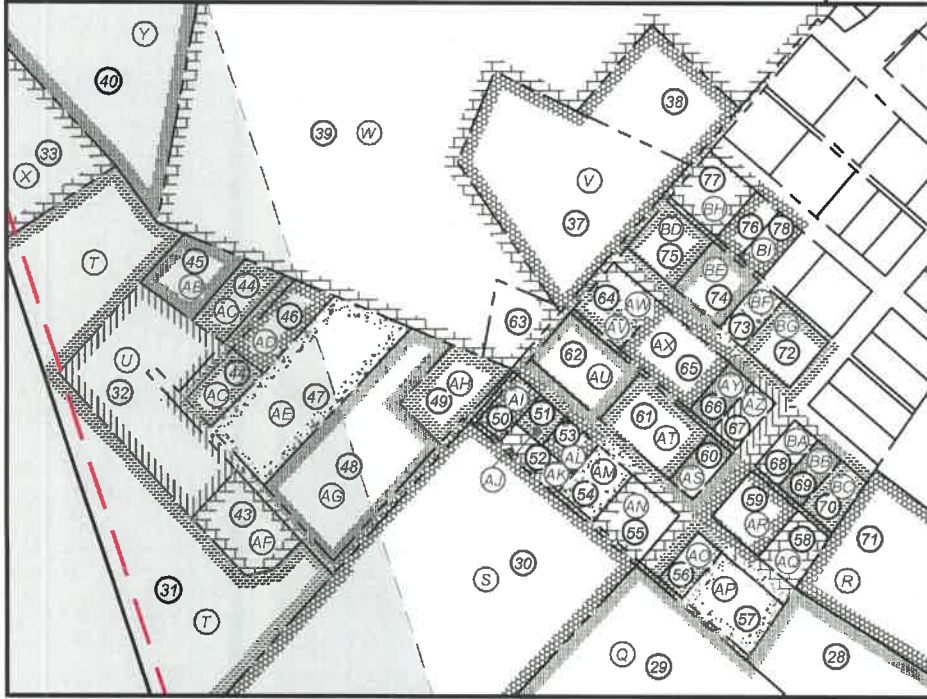


Antero Resources Corporation
 As-Drilled
 Well No. Fender Unit 1H
 Antero Resources





Detail



Leases	
A	Michael J. & Melinda R. Hogue
B	James F. Doan, et ux
C	Ryan L. Walton, et ux
D	The Swan Living Trust
E	David L. Lancaster, et ux
F	Ryan L. Walton, et ux
G	David L. Lancaster, et ux
H	Kenneth W. Lancaster
I	Terry Lee Fiber
J	Joe & Shirley Varese
K	Leeman W. Mason, et ux
L	Peter W. & Irmagard Guenter Joint Living Trust
M	Thomas & Cynthia H. Hall
N	BRC Appalachian Minerals I, LLC
O	Robert C. Kramer
P	Charles E. Anderson, et ux
Q	Ruth E. Blake
R	Earnestine Pelikan & David Leasure
S	Betty Lou Hadley
T	Sam Maxson
U	Larry K. Spencer
V	Tustin Family Trust
W	Tustin Family Trust
X	BRC Appalachian Minerals I, LLC
Y	Nellie M. Wilson, et al
Z	Arthur D. Haught
AA	Mary Frances Carpenter
AB	Larry K. Spencer
AC	Larry K. Spencer
AD	Harold L. Holloway, Jr., et ux
AE	Michael H. Glover, et ux
AF	Betty Lou Hadley
AG	Jordan L. & Michael P. Haught
AH	James M. Glover, et ux
AI	James M. Glover, et ux
AJ	April N. DeLong
AK	Ruth Blake
AL	Ruth Blake
AM	Betty Lou Hadley
AN	James D. Anderson & Tracy A. Doll
AO	Betty Lou Hadley
AP	Bessie L. Matthews, et vir
AQ	Betty Lou Hadley
AR	Betty Lou Hadley
AS	Betty Lou Hadley
AT	Stephen D. Ashley, et ux
AU	James M. Glover, et ux
AV	Martha J. Hayes, et vir
AW	Betty Lou Hadley
AX	Betty Lou Hadley
AY	Betty Lou Smith
AZ	Betty Hadley
BA	Laura June Smith
BB	Kathryn Knowlton
BC	Crystal Christophel
BD	Timothy Stanley, et ux
BE	Donald E. Huffman
BF	Betty Lou Hadley
BG	Betty Lou Hadley
BH	Nancy Glover
BI	William H. Eddy
BJ	WV DNR

ID	TM/Par	Owner	Bk/Pg	Acres
1	20/108	Michael J. & Melinda R. Hogue	348/404	192.00
2	26/46.10	Leon & Drema Gall Ison	359/311	4.98
3	26/46.5	Richard Doty	493/673	13.14
4	26/46.4	Timothy F. & Jasmine Y. Kanz	415/716	8.10
5	26/22	Ryan Lee & Melinda Jo Walton	342/687	36.50
6	26/21	Ryan Lee & Melinda Jo Walton	342/687	35.90
7	26/20	Kenneth & Brenda Lancaster	210/502	20.00
8	20/102	Antero Midstream LLC	575/69	203.59
9	20/103	Kenneth & Brenda Lancaster	210/341	1.20
10	20/104	David Lancaster	210/505	57.00
11	20/107	David L. & Kathy A. Lancaster	314/344	18.89
12	20/102.1	Terrell Lee Henderson	445/302	0.951
13	20/104.1	Kenneth & Brenda Lancaster	328/13	1.796
14	20/105.1	Terry Lee Fiber	335/682	6.06
15	20/105	Joe & Shirley Varese	352/736	11.322
16	20/105.2	Terry Lee Fiber	336/480	0.098
17	20/106	Eugene F. & Phyllis A. Howell	223/371	19.76
18	20/106.1	Lee Ann Hall	486/806	5.493
19	20/99	Pioneer Land Company LLC	431/414	10.00
20	20/85	Pioneer Land Company LLC	431/414	83.10
21	20/83.5	Thomas & Cynthia Hall	392/229	6.416
22	20/93.1	Vernon Stevens	423/703	2.14
23	20/93.5	Nina Smith & Mary Bennett	308/115	2.88
24	20/106.2	Nancy Forester	328/633	5.429
25	20/93	Robert C. Kramer	547/650	23.964
26	20/92	Charles & Doris Anderson	210/359	27.00
27	20/94	Charles & Doris Anderson	217/398	2.806
28	20/86	Ruth E. Blake	317/103	23.75
29	20/44.1	Ruth E. Blake	317/103	10.17
30	20/44.2	Roy D. Hadley & Betty L. Gulley	295/375	11.27
31	20/43	Janet Neff, et al	429/173	35.00
32	20A/1	William G. & Larry K. Spencer	296/368	1.71
33	20/42	Janet Neff, et al	429/173	20.23
34	20/42.1	Kenneth & Mary Ashley	351/771	1.889
35	20/41	Kenneth & Mary Ashley	194/365	15.79
36	20/41.1	Janet Neff, et al	429/173	2.218
37	20/46.1	Betty Tustin	WB45/156	2.476
38	20/47	Betty Tustin	WB45/156	1.00
39	20/46	Betty Tustin	WB45/156	29.66

ID	TM/Par	Owner	Bk/Pg	Acres
40	20/45	Nellie M. Wilson	337/462	8.00
41	20/40.1	Gary & Margaret Rymer	232/12	7.07
42	20/40	William H. & Judy M. White	352/566	9.31
43	20A/6	Roy D. & Betty Lou Hadley	353/558	0.53
44	20A/3.1	Larry K. Spencer	425/56	0.524
45	20A/2	Wanda M. Spencer, et al	AR50/170	0.45
46	20A/3	Harold L. & Debra C. Holloway	225/51	0.366
47	20A/5	Michael H. & Voia J. Glover	208/103	1.38
48	20A/7	Jordan L. & Michael P. Haught	522/391	1.66
49	20A/8	James M. & Sara K. Glover	434/163	0.44
50	20A/9	James M. & Sarah M. Glover	578/622	0.17
51	20A/10	April N. DeLong	437/806	0.11
52	20A/10.1	Ruth E. Blake	348/604	0.16
53	20A/11	Ruth E. Blake	343/574	0.14
54	20A/12	Roy D. & Betty Lou Hadley	304/366	0.25
55	20A/13	James D. Anderson & Tracy A. Doll	400/425	0.33
56	20A/55	Roy D. & Betty Lou Hadley	350/341	0.17
57	20A/54	Bessie L. Matthews, et vir	521/634	0.46
58	20A/52	Betty Lou Hadley	579/652	0.24
59	20A/53	Deloris Guley	AR40/97	0.33
60	20A/14	Roy D. Hadley	332/696	0.17
61	20A/15	Stephen D. & Brenda J. Ashley	317/183	0.50
62	20A/16	James M. Glover	330/197	0.50
63	20/46.2	James & Sara Glover	350/386	0.386
64	20A/17	Chris L. Hayes & Martha J. Tennant	343/212	0.17
65	20A/18	Roy D. Hadley	WB23/305	0.66
66	20A/19	Roy D. Hadley	WB23/305	0.17
67	20A/20	Betty Hadley	470/683	0.17
68	20A/50	Betty Lou Hadley	579/652	0.17
69	20A/51	Shir A. Henderson	WB19/379	0.17
70	20A/51.1	Crystal Christophel	WB19/379	0.16
71	20/86.1	Earnest Leasure, et al	321/160	0.37
72	20A/21	Roy D. Hadley	317/674	3.00
73	20A/22	Roy Hadley	WB23/305	0.17
74	20A/23	Connie Sue Tanner	327/883	0.33
75	20A/24	Timothy & Tonya Stanley	581/792	0.33
76	20A/26.1	Evelyn S. Smith	328/95	0.165
77	20A/25	Nancy Glover	147/104	0.33
78	20A/26	Evelyn S. Smith	332/681	0.165

FILE NO: 17-54-E-19
 DRAWING NO: Fender Unit 1H 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 1H
 API WELL NO
 47 - 095 - 02670
 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; Ruth E. Blake; Betty Lou Hadley; Sam Maxson; BRC Appalachian Minerals I, LLC; Arthur D. Haught; The Swan Living Trust; Peter W. & Irmagard E. Guenter, Joint Living Trust; ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; Ryan L. Walton, et ux (2); David L. Lancaster, et ux (2) 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: 15,548' MD
 6,356' 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

04/02/2021
 8.38;
 35.40.625;
 16.05.963; 95.1;
 18.89; 58.27275;
 191.5; 35.9; 36.5