



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, August 28, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Replacement Borehole H6A

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Fripp Unit 1HA
47-017-06986-00-00

Extended Lateral Length

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: Fripp Unit 1HA
Farm Name: Shawn A Glaspell
U.S. WELL NUMBER: 47-017-06986-00-00
Horizontal 6A Replacement Borehole H6A
Date Modification Issued: 8/28/2024

Promoting a healthy environment.

08/30/2024

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Resources Corporation 494507062 017-Doddridge McLellan Center Point 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Fripp Unit 1HA MOD Well Pad Name: Crimson Pad

3) Farm Name/Surface Owner: Shawn A. Glaspell Public Road Access: Riggins Run

4) Elevation, current ground: 1249' Elevation, proposed post-construction: 1222'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28800' MD

11) Proposed Horizontal Leg Length: 17692.2'

12) Approximate Fresh Water Strata Depths: 303', 953'

13) Method to Determine Fresh Water Depths: 47-017-00483

14) Approximate Saltwater Depths: 2123'

15) Approximate Coal Seam Depths: None Identified

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____


8-19-24

18) CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	H-40	94#	100	100	CTS, 89 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	1003	1003	CTS, 1045 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	28800	28800	6329 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	24"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-HPOZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

James M. C.
8-19-24

WW-6B
(10/14)

API NO. 47- 017 - _____
OPERATOR WELL NO. Fripp Unit 1HA MOD
Well Pad Name: Crimson Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new shallow well and complete Marcellus Shale.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 36.89 acres

22) Area to be disturbed for well pad only, less access road (acres): 14.46 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.


24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A/L cement.
Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake
Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.


8-19-24

4701706986

LEGEND

- Proposed gas well
- ⊛ Existing Well, as noted
- ⊛ Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone

47-017-30568

47-017-01818

47-017-01814

47-017-30193

47-017-04097

500' Buffer

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Environmental Protection

47-017-31088

47-017-04114

47-017-02258

Frripp 1HA

Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330



PARTY CHIEF: C. Lynch

DRAWN BY: D. Rader

RESEARCH: J. Miller

PREPARED: August 7, 2024

SURVEYED: Dec. 2016

PROJECT NO: 267-30-M-22

FIELD CREW: C.L., K.M.

Sheet 1 of 1

DRAWING NO: Frripp 1HA BHL MOD AOR



Scale: 1 inch = 2000 feet

08/30/2024

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017022580000								
47017310880000	I N UNDERWOOD	4	SOUTH PENN OIL	SOUTH PENN OIL	2,305		Big Injun	Weir, Fifth, Warren, Alexander
47017041140000	W S STUART	1	BIG SAND DRILLING	PENNZOIL PRODUCTS CO				
47017040970000	ZED UNDERWOOD	3	COMMONWEALTH ENERGY USA INC	MUTSCHELKNAUS C W	1,940		Big Injun	Weir, Fifth, Warren, Alexander
47017301930000	D A DOTSON 2	880	CARNEGIE NATURAL GAS	CARNEGIE NATURAL GAS	2,904		Gordon	Weir, Fifth, Warren, Alexander
47017018140000	W MUTSCHELKNAUS	1	TARGA DEVELOPMENT INC	STONESTREET LANDS	2,410		Big Injun, Squaw	Weir, Fifth, Warren, Alexander
47017305680000	ISAAC WRIGHT	1	RAAD SUPPLY CO	RAAD SUPPLY CO	2,340		Big Injun	Weir, Fifth, Warren, Alexander
47017018180000	W MUTSCHELKNAUS	3	TARGA DEVELOPMENT INC	STONESTREET LANDS	2,401		Big Injun, Squaw	Weir, Fifth, Warren, Alexander

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4701706986

1,187' to Bottom Hole

5,451' to Top Hole
TOP HOLE LATITUDE 39 - 25 - 00
BTM HOLE LATITUDE 39 - 27 - 30

TOP HOLE LONGITUDE 80 - 40 - 00
BTM HOLE LONGITUDE 80 - 42 - 30

11,711' to Top Hole

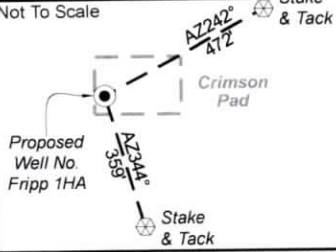
10,609' to Bottom Hole

Antero Resources
Well No. Fripp 1HA
BHL-MOD
Antero Resources Corporation



Page
1 of 2

Well Location References

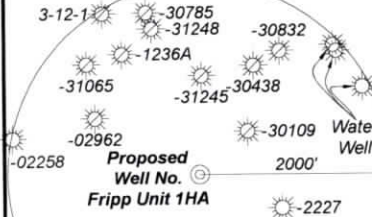


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



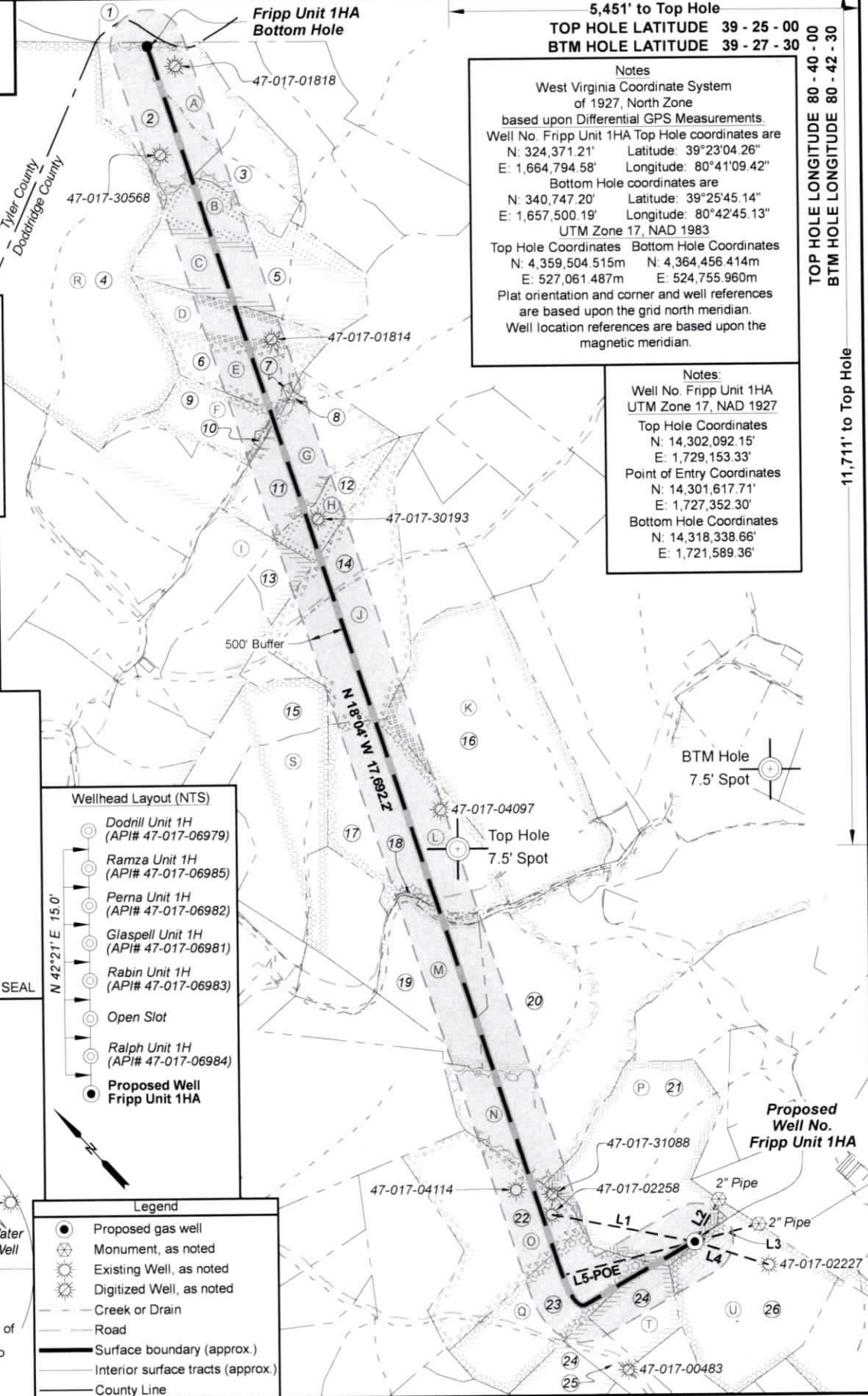
	Bearing	Dist.
L1	S 78°51' E	1,984.4'
L2	S 29°50' W	662.1'
L3	S 75°09' W	903.0'
L4	N 72°23' W	1,052.9'
L5	S 76°12' W	1,863.1'



Note: 3 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

- Wellhead Layout (NTS)
- Dodrill Unit 1H (API# 47-017-06979)
 - Ramza Unit 1H (API# 47-017-06985)
 - Perna Unit 1H (API# 47-017-06982)
 - Glaspell Unit 1H (API# 47-017-06981)
 - Rabin Unit 1H (API# 47-017-06983)
 - Open Slot
 - Ralph Unit 1H (API# 47-017-06984)
 - Proposed Well Fripp Unit 1HA

- Legend
- Proposed gas well
 - ⊗ Monument, as noted
 - ☀ Existing Well, as noted
 - ☀ Digitized Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - County Line



Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Fripp Unit 1HA Top Hole coordinates are
N: 324,371.21' Latitude: 39°23'04.26"
E: 1,664,794.58' Longitude: 80°41'09.42"
Bottom Hole coordinates are
N: 340,747.20' Latitude: 39°25'45.14"
E: 1,657,500.19' Longitude: 80°42'45.13"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,359,504.515m N: 4,364,456.414m
E: 527,061.487m E: 524,755.960m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Notes:
Well No. Fripp Unit 1HA UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,302,092.15'
E: 1,729,153.33'
Point of Entry Coordinates
N: 14,301,617.71'
E: 1,727,352.30'
Bottom Hole Coordinates
N: 14,318,338.66'
E: 1,721,589.36'

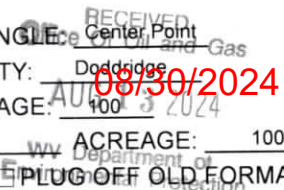
FILE NO: 267-30-M-22
DRAWING NO: Fripp 1HA Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: August 12 20 24
OPERATOR'S WELL NO. Fripp 1HA
API WELL NO
47 - 017 - 06986
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Existing: 1,249' Proposed: 1,222' WATERSHED: McElroy Creek QUADRANGLE: Center Point
DISTRICT: McClellan COUNTY: Doddridge
SURFACE OWNER: Shawn A. Glaspell ACREAGE: 100
ROYALTY OWNER: Minda Allen LEASE NO: ACREAGE: 100
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD 7,700' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,800' 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





Leases	
A	Robert L. Wolfe
B	Deborah Ann Cox
C	Jefferson Minerals, LLC
D	Ed Broome, Inc.
E	Grace Olive Rudder
F	Mary Ann Swiger
G	N.M. Laughery
H	Jacqueline L. Wichman Trust
I	W.B. Allen, et ux
J	Jay Bee Production Company, et al
K	Antero Minerals, LLC
L	Donald R. Reynolds
M	Donald R. Reynolds
N	Donald R. Reynolds
O	W.S. & Nannie L. Stuart
P	Minda Allen
Q	Thomas H. Downs
R	O.W.O. Hardman, et al
S	Mary F. Mutschelknaus
T	Robert O. Hopkins
U	Morris Mountaineer Oil & Gas, LLC

ID	TM-Par	Owner	Bk/Pg	Acres
1	12-28	Garnett M. Ferrebee	WB24/333	107.00
2	5-1	Robert L. Wolfe	231/560	58.00
3	5-9	Robert L. Wolfe	231/560	32.75
4	17-3	Coastal Forest Resources Co.	199/267	766.00
5	5-10	Kevin E. & Elizabeth A. Denny	287/49	88.89
6	5-11	Edward F. & Grace O. Rudder	244/30	53.76
7	5-11.2	Edward F. Rudder, et ux	172/531	0.37
8	11-35	Edward M. Rudder, et al	WB94/431	0.37
9	11-1	Jonathan G. Edwards	277/108	29.58
10	11-1.1	Bernice A. Swiger	273/502	0.91
11	5-11.1	Grace Olive Rudder	WB42/130	60.63
12	11-5.2	James B. & Hazel I. Lemasters	143/118	21.50
13	11-5.3	James B. & Hazel I. Lemasters	143/118	11.40
14	11-5	James B. & Hazel I. Lemasters	143/118	108.00
15	11-21	Mary K. & Paul Baker	92/51	63.98
16	11-14	Charles W. Yeager III	312/354	150.00
17	11-24	Barbara M. Swiger	WB59/593	90.83
18	11-33.1	Mary L. Glaspell, et al	WB33/513	0.60
19	11-33	Mary Lea Glaspell	WB33/513	50.00
20	11-34	Shawn A. Glaspell	271/230	254.51
21	17-3.3	Shawn A. Glaspell	283/601	100.00
22	17-9	John M. & Connie S. Underwood Irrevocable Trust	294/401	84.00
23	11-13	Shawn A. Glaspell	468/444	65.00
24	17-16	Faith L. Fry	238/167	36.84
25	17-18.1	Faith L. & Michael Fry	342/340	19.50
26	17-3.2	Shawn A. Glaspell	283/601	135.00

FILE NO: 267-30-M-22
 DRAWING NO: Fripp 1HA Well Plat
 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: August 12 20 24
 OPERATOR'S WELL NO. Fripp 1HA
 API WELL NO
47 - 017 - D6986
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Proposed: 1,222' Existing: 1,249' WATERSHED: McElroy Creek QUADRANGLE: Center Point
 DISTRICT: McClellan COUNTY: DeWitt
 SURFACE OWNER: Shawn A. Glaspell ACREAGE: 100
 ROYALTY OWNER: Minda Allen LEASE NO: _____ ACREAGE: 100
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD / 7,700' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,800' 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

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>A: Robert L. Wolfe Lease</u>	Robert L. Wolfe	Antero Resources Corporation	1/8+	505/389

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation
By: Tim Rady
Its: Senior Vice President of Land

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
P: Minda Allen Lease			
Minda Allen	W. B. Allen	1/8	7/357
W. B. Allen	South Penn Oil Company	Assignment	7/359
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company	Deed	203/621
Pennzoil Products Company	Pennzoil Exploration and Production Company	Deed	239/355
Pennzoil Exploration and Production Company	Pennz Energy Exploration and Production LLC	Deed	240/702
Pennz Energy Exploration and Production LLC	Devon Energy Production Company LP	Merger	244/399
Devon Energy Production Company LP	East Resources Inc	Assignment	247/337
East Resources Inc	East Resources Inc and HG Energy LLC	Assignment	253/31
East Resources Inc and HG Energy LLC	American Energy Marcellus LLC	Assignment	361/1
American Energy Marcellus LLC	Ascent Resources – Marcellus LLC	Name Change	36/455
Ascent Resources – Marcellus LLC	Tribune Resources LLC, an Oklahoma LLC	Merger	431/260
Tribune Resources LLC, an Oklahoma LLC	Antero Resources Corporation	Assignment	530/325
T: Robert O. Hopkins Lease			
Robert O. Hopkins	Antero Resources Corporation	1/8+	527/357
Q: Thomas H. Downs Lease			
Thomas H. Downs	Antero Resources Corporation	1/8+	515/362
O: W. S. & Nannie L. Stuart Lease			
W. S. & Nannie L. Stuart	South Penn Oil Company	1/8	11/180
South Penn Oil Company	South Penn Natural Gas Company	Assignment	53/162
South Penn Natural Gas Company	South Penn Oil Company	Deed	133/296
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company	Deed	203/621
Pennzoil Products Company	Pennzoil Exploration and Production Company	Deed	239/355
Pennzoil Exploration and Production Company	Pennz Energy Exploration and Production LLC	Deed	240/702
Pennz Energy Exploration and Production LLC	Devon Energy Production Company LP	Merger	244/399
Devon Energy Production Company LP	East Resources Inc and HG Energy LLC	Assignment	247/337
East Resources Inc and HG Energy LLC	Ascent Resources – Marcellus LLC	Assignment	367/147
Ascent Resources – Marcellus LLC	Tribune Resources, LLC	Merger	431/260
Tribune Resources, LLC	Antero Resources Corporation	Assignment	530/325
N: Donald R. Reynolds Lease			
Donald R. Reynolds	Antero Resources Corporation	1/8+	337/468
M: Donald R. Reynolds Lease			
Donald R. Reynolds	Tribune Resources, LLC	1/8	501/249
Tribune Resources, LLC	Antero Resources Corporation	Assignment	530/325
L: Donald R. Reynolds Lease			
Donald R. Reynolds	Antero Resources Corporation	1/8+	337/468

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WV Department of Environmental Protection

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
J: Jay Bee Production Company, et al Lease Jay Bee Production Company, et al	Antero Resources Corporation	1/8+	498/473
H: Jacqueline L. Wichman Trust Lease Jacqueline L. Wichman Trust	Antero Resources Corporation	1/8+	477/507
G: N. M. Laughery Lease N. M. Laughery I. M. McIntyre Carnegie Natural Gas Company Carnegie Production Company Equitable Production Company EQT Production Company Antero Resources Appalachian Corporation	I. M. McIntyre Carnegie Natural Gas Company Carnegie Production Company Equitable Production Company EQT Production Company Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Merger Name Change Assignment Merger	24/350 186/61 WVSOS WVSOS 302/504 46/523
F: Mary Ann Swiger Lease Mary Ann Swiger Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Merger	282/597 46/523
E: Grace Olive Rudder Lease Grace Olive Rudder	Antero Resources Corporation	1/8+	521/156
D: Ed Broome, Inc. Lease Ed Broome, Inc	Antero Resources Corporation	1/8+	506/489
C: Jefferson Minerals, LLC Lease Jefferson Minerals, LLC	Antero Resources Corporation	1/8+	469/427
B: Deborah Ann Cox Lease Deborah Ann Cox	Antero Resources Corporation	1/8+	517/131

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Office Of Oil and Gas

AUG 13 2024

WV Department of
Environmental Protection

***Cotenancy Utilization** - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

****Pooling/Unitization** – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.