

#### 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

Monday, September 11, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit approval for HOLTZ UNIT 2H

47-017-06963-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450

Operator's Well Number: HOLTZ UNIT 2H

Farm Name: ANTERO RESOURCES CORP

U.S. WELL NUMBER: 47-017-06963-00-00

Horizontal 6A

New Drill

Date Issued: 9/11/2023

Promoting a healthy environment.

API NO. 47-017 OPERATOR WELL NO. Holtz Unit 2H Well Pad Name: Genevieve Pad

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

		DE SACONT COLUMN OF THE OWNER AND THE OWNER.		/	
1) Well Operator: Antero Reso	urces Corporat	494507062	017-Doddrig	10401	West Union 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Holt	z Unit 2H	Well Pag	d Name: Gene	vieve Pad	
3) Farm Name/Surface Owner: A	ntero Resources Corpo	oration Public Roa	ad Access: WV	Route 18 I	N
4) Elevation, current ground: 8		evation, proposed	•		
5) Well Type (a) Gas X	Oil	Und	erground Storag	ge	
Other					
(b)If Gas Shall	low X	Deep			
Horiz	zontal X				
6) Existing Pad: Yes or No Yes	/		_		
7) Proposed Target Formation(s), Marcellus Shale: 7000' TVD, An			1		
8) Proposed Total Vertical Depth	: 7000' TVD	/			
9) Formation at Total Vertical De	-	/			
10) Proposed Total Measured Dep	pth: 7500' MD	/			
11) Proposed Horizontal Leg Len	igth: 500'				
12) Approximate Fresh Water Str	ata Depths:	308', 521'	(*)		
13) Method to Determine Fresh V	Vater Depths: 4	7-017-02319 /			
14) Approximate Saltwater Depth	ns: 1468'	1			
15) Approximate Coal Seam Dep	ths: None Ident	tified (			
16) Approximate Depth to Possib	le Void (coal min	ne, karst, other):	None Anticipat	ted	
17) Does Proposed well location of directly overlying or adjacent to a		Yes	No	X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
Office RECEIVED of Oil and Gas	Owner:				
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Environmental Protect					
Environmental Protection					Page 1 of 3

OF 08/18/2023

WW-6B (04/15) API NO. 47- 017 OPERATOR WELL NO. Holtz Unit 2H
Well Pad Name: Genevieve Pad

#### 18)

### **CASING AND TUBING PROGRAM**

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TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100' /	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	571'	571'	CTS, 595 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#	7500'	7500'	CTS, 962 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
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	Class G/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		

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OPERATOR WELL NO. Holtz Unit 2H

Well Pad Name: Genevieve Pad

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

Drill, perforate, fracture a new vertical 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): 24.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.69 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

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: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20 AC

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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.

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WW-9 (4/16)

API Number 47 - 017 - Operator's Well No. Holtz Unit 2H

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle West Union 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No
If so, please describe anticipated pit waste:  No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34
Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34
Off Site Disposal (Supply form WW-9 for disposal locatior(Meadowfill Landfill Permit #SWF-1032-98)  Other (Explain Northwestern Landfill Permit #SWF-1025/
WV0109410
Wetzel Co Landfill Permit #SWF-1021 Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Surface - Air/Freshwater, Intermediate -
Diffing mediam anticipated for this well (vertical and norizontal)? All, freshwater, on based, etc.
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etcDrill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Wetzel Co Landfill (Permit #SWF-1021)  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Gretchen Kohler
Company Official (Typed Name) Gretchen Kohler
Company Official Title Director of Environmental & Regulatory Compliance
ADO garmenoteco
Subscribed and sworn before me this day of
Cary Public Notary Public
My commission expires 10-5-20 CARLY RAYNE MARVEL Notary Public
Notary ID # 20224038743
My Commission Expires 10-05-2026

Operator's Well No. Holtz Unit 2H

Antero Resources Cor	poration		
Proposed Revegetation Treatmen	t: Acres Disturbed 24.86 ac	Prevegetation pH _	
Lime 2-4	Tons/acre or to correct to pH	6.5	
Fertilizer type Hay or str	aw or Wood Fiber (will be used w	there needed)	
Fertilizer amount 500		/acre	
Mulch 2-3	Tons/ac	cre	
Main Access Road (8.20 acres)+Wel	I Pad(7.69 acres) +AST Pad Access Road(1	.32 acres)+AST Pad (3.31 acres)+Topsoil(3.43 acres)+	Spoil Pile(0.91 acres) =24.86 Acres
	Seed	Mixtures	
Tempo	rary	Permanen	ıt
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue/Perennial Ryegrass	30 / 20
See attached Table IV-3 for additional see	d type (Genevieve Pad Design)	See attached Table IV-4A for additional seed	type (Genevieve Pad Design)
or type of grass seed reque	sted by surface owner	*or type of grass seed requeste	ed by surface owner
lan Approved by:			
Comments:			
			- Parada de Caracteria de Cara
and Table	1	200/11/2 23	
itle: OOG Inspe		Date: 08/18/2023	
neld Reviewed CEIVED	Yes (	_) No	
W. 2 and Gas			
Field Reviewed CEIVED  AUG 2 1 2023  Invironmental Protection			
Protection			
-UO-			



911 Address 2017 WV RT 18 N West Union, WV 26456

### Well Site Safety Plan **Antero Resources**

Well Name:

Dixie Unit 1H & 2H, Holtz Unit 1H & 2H,

Lyle Unit 1H & 2H

Pad Location: GENEVIEVE PAD

Doddridge County/West Union District

**GPS Coordinates:** 

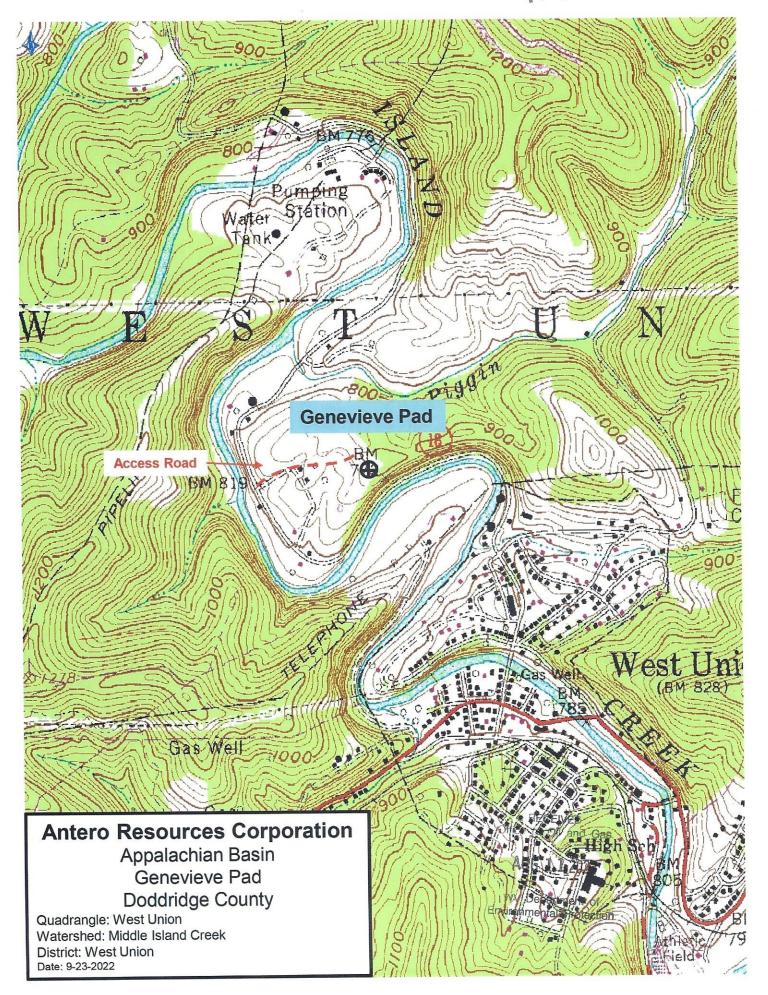
Entrance - Lat 39.302526 / Long -80.785822 (NAD83) Pad Center - Lat 39.303788/Long -80.781830 (NAD83)

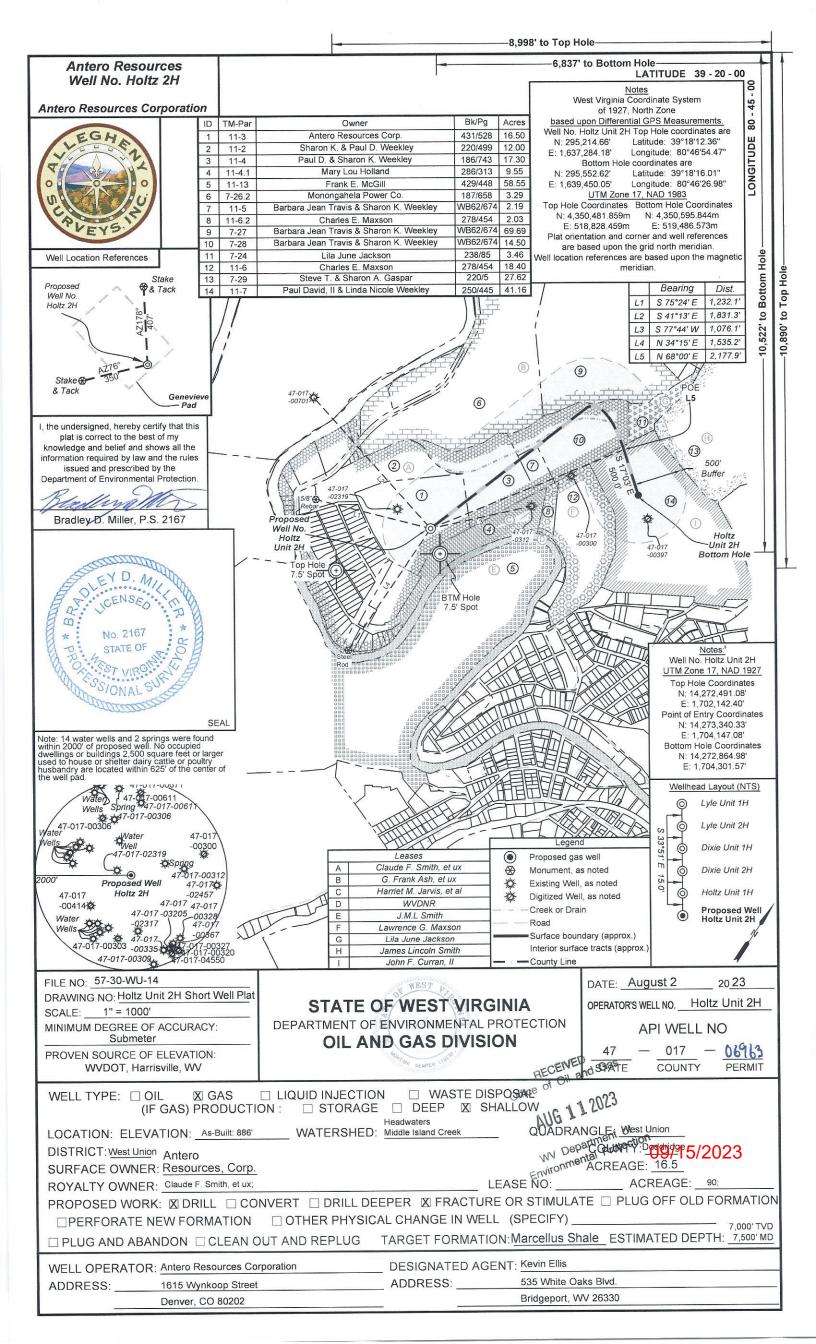
**Driving Directions:** From US-50, Turn south onto Smithburg RD and travel 0.2 Miles. Turn right onto Smithton Rd and continue 3.4 miles. Continue straight onto WV-18 and travel for 0.5 miles. Turn right to stay on WV-18 and travel for 1.0 mile. The Genevieve lease road is on the right.

**EMERGENCY (24 HOUR) CONTACT 1-800-878-1373** 

1

df 08/10/23





Operator's Well Number

Holtz Unit 2H

# 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:

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
/A: Claude	F. Smith, et ux Lease			
Claude F. S	Smith	Key Oil Company	1/8	104/704
Key Oil Co	mpany	XOIL Drilling Partners LP	Assignment	105/566
XOIL Drilli	ng Partners LP	XPLOR Corporation	Assignment	146/649
XPLOR Co		Venus Exploration	Merge	WV SOS
	loration Inc	Allegheny Interests Inc	Assignment	184/512
100 CO 10	Interests Inc	Rubin Resources Inc	Assignment	187/685
	ources Inc	Petro Edge Energy LLC	Assignment	230/666
	e Energy LLC	Statoil USA Onshore Properties Inc	Assignment	285/71
	A Onshore Properties Inc	EQT Production Company	Assignment	428/356
	uction Company	Antero Resources Corporation	Agreement	385/268



\*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.

\*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.

WW-6A1 (5/13)

Operator's Well No.	Holtz Unit 2H
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#### 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)

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- (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:

	John F. Curran, II.	Antero Resources Corporation	1/8+	463/171
/ I: John F. Curran, Il Lease				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or				D 1/D

#### 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

AUG 11 2023 The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or ment of pullifies the need for other permits/approvals that are the need for th nullifies the need for other permits/approvals that may be necessary and further affirms that all needed protection permits/approvals should be acquired from the appropriate authority before the effects of the contract of

Well Operator:	Antero Resources Corporation			
Ву:	Tim Rady	(m/ledy		
Its:	Senior Vice	President of Land		

Page 1 of 1

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July 31, 2023

Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

West Virginia Department of Environmental Protection Chief, Office of Oil and Gas Attn: Mr. James Martin 601 57th Street SE Charleston, WV 25304

RE:

Holtz Unit 1H - 2H

Quadrangle: West Union 7.5'

Doddridge County/West Union District, West Virginia

#### Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permits for the Holtz Unit 1H - 2H horizontal shallow wells. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Holtz Unit 1H - 2H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Adams Senior Landman

> Office of Oil Part Ones AUG 112023 W Department of Environmental Protection

WW-PN (11-18-2015)

#### Horizontal Natural Gas Well Work Permit **Application Notice By Publication**

Notice is hereby given: Pursuant to West Virginia Code 22-6A-10(e) priceshall publish in the county in which the well is lo	or to filing an application for a permit for a horizontal well the applicant ocated or is proposed to be located a Class II legal advertisement.
Paper: Doddridge Independent	
Public Notice Date: 06/23/2023 & 06/30/2023	
The following applicant intends to apply for a h surface excluding pipelines, gathering lines and any thirty day period.	orizontal natural well work permit which disturbs three acres or more of roads or utilizes more than two hundred ten thousand gallons of water in
Applicant: Antero Resources Corporation	Well Number: Holtz Unit 2H
Address: 1615 Wynkoop St. Denver, CO 8020	02
Business Conducted: Natural gas production.  Location –	
State: West Virginia	County: Doddridge
District: West Union	Quadrangle: West Union 7.5'
UTM Coordinate NAD83 Northing:	4350482m
UTM coordinate NAD83 Easting:	518829m
Watershed: Headwaters Middle Island Cre	eek

#### **Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: <a href="http://tagis.dep.wv.gov/convert/llutm\_conus.php">http://tagis.dep.wv.gov/convert/llutm\_conus.php</a>

#### **Electronic notification:**

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

**Reviewing Applications:** 

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to  $\underline{DEP.comments@wv.gov}$ .

**Submitting Comments:** 

Comments may be submitted online at <a href="https://apps.dep.wv.gov/oog/comments/comments.cfm">https://apps.dep.wv.gov/oog/comments/comments.cfm</a>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the present application is received by the Office of Oil and Gas. Environmental

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notice	e Certification: 08/08/2023	API No. 47- <u>01</u> Operator's We Well Pad Nam	ell No. Holtz Ur	
Notice has b	e provisions in West Virginia Code §	22-6A, the Operator has provided the require		
below for the State:	tract of land as follows: West Virginia	Easting: 518	8828.458m	
County:	Doddridge	IIIMNAIIX3	50481.858m	
District:	West Union		/ Route 18 N	
Quadrangle:	West Union 7.5'	Generally used farm name: Ant	tero Midstream, I	LLC
Watershed:	Headwaters Middle Island Creek			
prescribed by it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and seed the owners of the surface described equired by subsections (b) and (c), so surface owner notice of entry to support subsection (b), section sixteen (c)	every permit application filed under this see hall contain the following information: (14) A bed in subdivisions (1), (2) and (4), subsecti- action sixteen of this article; (ii) that the required arvey pursuant to subsection (a), section ten f this article were waived in writing by the ender proof of and certify to the secretary than the	A certification ion (b), secti rement was d of this articl surface own	in from the operator that (1) ion ten of this article, the leemed satisfied as a result le six-a; or (iii) the notice her; and Pursuant to West
that the Ope	rator has properly served the require	perator has attached proof to this Notice Certi d parties with the following:	fication	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY			ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or  NO PLAT SURVEY WAS CON	DUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PU	BLIC NOTICE			RECEIVED
■ 6. NC	TICE OF APPLICATION		a E	RECEIVED
The Operator the required Advertiseme Certification Pursuant to	parties and/or any associated writter ant with publication date verifications of Notice shall serve as proof that	ation Form all Notice Forms and Certification waivers. For the Public Notice, the operator on or the associated Affidavit of Publicate the required parties have been noticed as required Certification of Notice to the person may be certified mailing.	ns of Notice shall attach tion. The at ired under W	tached Notice Forms and lest Virginia Code § 22-6A.

WW-6AC (1/12)

#### Certification of Notice is hereby given:

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

AUG 1 1 2023

Wy Department of Control Protection
Environmental Protection

WW-6A (9-13)

API NO. 47-017 OPERATOR WELL NO. Holtz Unit 2H
Well Pad Name: Genevieve Pad

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Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 6/21/2023 Date Permit Application Filed: 8/9/2023 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE ✓ PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☑ METHOD OF DELIVERY THAT REQUIRES A PERSONAL ☐ REGISTERED RECEIPT OR SIGNATURE CONFIRMATION MAIL **SERVICE** Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Antero Resources Corporation Address: Address: 535 White Oaks Blvd Bridgeport, WV 26330 ☐ COAL OPERATOR Name: Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE Address: Name: PLEASE SEE ATTACHMENT RECEIVED of Oil and Gas Address: Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIRED Name: ☐ SURFACE OWNER(s) (Impoundments or Pits) W Department of EUNILOUWEUTAI beorgiou Address: Name: Address: \*Please attach additional forms if necessary

4701706963

WW-6A (8-13)

OPERATOR WELL NO. Holtz Unit 2H

Well Pad Name: Genevieve Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject are a capable of and qualified to test water supplies in accordance with standard acceptable methods.

Environmental Protection and-gas/pages/default.aspx.

#### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

470 1706963 API NO. 47-017 - OPERATOR WELL NO. Holtz Unit 2H

Well Pad Name: Genevieve Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas AUG 11 2023

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

N Department of Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to

09/15/2023

WW-6A (8-13)

OPERATOR WELL NO. Holtz Unit 2H

Well Pad Name: Genevieve Pad

#### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

#### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED Gas AUG 112023 W Department of Environmental Protection

WW-6A (8-13)

API NO. 47-017 OPERATOR WELL NO. Holtz Unit 2H Well Pad Name: Genevieve Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporatio

Telephone: (303) 357-7373 Email: cmarvel@anteroresources.com

Denver, CO 80202 Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy/Officer at depprivacyofficer@wv.gov.

CARLY RAYNE MARVEL Notary Public State of Colorado Notary ID # 20224038743 My Commission Expires 10-05-2026 Subscribed and sworn before me this 7 day of Aug., 2023.

Capu Rayl Marvel Notary Public My Commission Expires\_

FOUNED GAS

AUG 112023 W Department of Environmental Protection WW-6A4 (1/12) 4701706963 Operator Well No.\_\_\_\_\_

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time R Date of Notice	equirement: Notice shall be provided at least  106/21/2023 Date Permit	TEN (10) days prior to filing a Application Filed: 08/09/2023	permit application.		
Delivery meth	od pursuant to West Virginia Code § 22-6A	-16(b)			
☐ HAND DELIVER					
drilling a horiz of this subsection may	Va. Code § 22-6A-16(b), at least ten days pried or hand delivery, give the surface owner no ontal well: <i>Provided</i> , That notice given purson as of the date the notice was provided to the be waived in writing by the surface owner. It, facsimile number and electronic mail address.	otice of its intent to enter upon the uant to subsection (a), section te the surface owner: <i>Provided, how</i> The notice, if required, shall inch	n of this article satisfies the requirements ever, That the notice requirements of this adde the name, address, telephone number,		
Notice is her	eby provided to the SURFACE OWNE	R(s):			
Name: Antero Re	sources Corporation	Name:			
Address: 535 W	hite Oaks Blvd	Address:			
Bridgeport,	WV 26330				
Notice is her Pursuant to W the surface ow State: County: District: Quadrangle: Watershed:	est Virginia Code § 22-6A-16(b), notice is he ner's land for the purpose of drilling a horizor West Virginia  Doddridge  West Union  West Union 7.5'  Headwaters Middle Island Creek	reby given that the undersigned atal well on the tract of land as for UTM NAD 83  Public Road Access: Generally used farm name:	well operator has an intent to enter upon sllows: 518811m 4350512m Route 18 N Antero Resources		
This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .					
Notice is her	eby given by:	3			
Well Operator	: Antero Resources Corporation	Authorized Representative	Mallory Turco		
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.		
	Denver, CO 80202		Denver, CO 80202		
Telephone:	303-357-7182	Telephone:	303-357-7182		
Email:	mturco@anteroresources.com	Email:	mturco@anteroresources.com		
Facsimile:	303-357-7315	Facsimile:	303-357-7315		
Oil and Gas Privacy Notice:  The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Accumulations of State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Accumulations of State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Accumulations of State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Accumulations of State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information, Accumulations of State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information, Accumulations of State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information, Accumulation agency of State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information, Accumulation agency of State agency of State agency of State agency of State agency or as needed to comply agency of State agen					

Department of Environmental Protection

WW-6A5 (1/12)

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time F Date of Notice	Requirement: notice shall be provided no la  E	ter than the filing dication Filed:	ate of permit a	pplication. —
Delivery meth	od pursuant to West Virginia Code § 22-	6A-16(c)		
		AND ELIVERY		
return receipt the planned of required to be drilling of a h	Y. Va. Code § 22-6A-16(c), no later than the requested or hand delivery, give the surface peration. The notice required by this subservoided by subsection (b), section ten of the orizontal well; and (3) A proposed surface a surface affected by oil and gas operations as required by this section shall be given to the	owner whose land section shall includ his article to a surfact use and compensate to the extent the date.	will be used for e: (1) A copy of ce owner whose ation agreement mages are comp	of this code section; (2) The information e land will be used in conjunction with the containing an offer of compensation for ensable under article six-b of this chapter.
(at the address		s) ne of notice): Name: _ Address		
Notice is here Pursuant to W operation on State: County: District: Quadrangle:	Peby given:  Test Virginia Code § 22-6A-16(c), notice is In the surface owner's land for the purpose of the West Virginia Doddridge  West Union  West Union T.5'	hereby given that the drilling a horizontal of the UTM NAD 8.  Public Road A Generally use	Easting: Northing:  Access:	vell operator has developed a planned ct of land as follows:  518828.458m  4350481.858m  WV Route 18 N  Antero Midstream, LLC
Watershed: West Union 7.5  Watershed: Headwaters Middle Island Creek  This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the				
surface affect	ted by oil and gas operations to the extent related to horizontal drilling may be obtain located at 601 57 <sup>th</sup> Street, SE, Charles	the damages are coned from the Secret ston, WV 25304	ompensable und tary, at the WV (304-926-0450)	Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-departments">www.dep.wv.gov/oil-and-departments</a>
Well Operato		Address:	1615 Wynkoop Stre	et
Telephone:	303-357-7373	Facsimile:	Denver, CO 80202 303-357-7310	
The Office of duties. Your needed to cappropriately	Privacy Notice:  f Oil and Gas processes your personal information may be disclosed to comply with statutory or regulatory required secure your personal information. If you have Privacy Officer at depprivacyofficer@wv.g	mation, such as nan other State agenci rements, including have any questions	ne, address and es or third part Freedom of In	RECEIVED  of Oil and Gas  telephone number, as part of our regulatory ies in the normal/COUSse of business or as information Act requests. Our office will r your personal information, please contact  WV Department of Environmental Protection

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### **Comment and Waiver Provisions**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

### VOLUNTARY STATEMENT OF NO OBJECTION

WW-6A and required, and State: County: District: Quadrangle: Watershed:	ted above, and that I have received copies of attachments consisting of pages one (1) threwell plat, all for proposed well work on the West Virginia  Doddridge  West Union  West Union 7.5'  Headwaters Middle Island Creek  that I have no objection to the planned work of	a Notice of Apough e tract of land a UTM NAD Public Roa Generally t	poplication, an App including as follows: 883 Easting: Northing: d Access: used farm name:	the erosion and sediment control plan, if  518828.458m  4350481.858m  WV Route 18 N  Antero Resources Conforation  Office
*Please check	the box that applies		FOR EXECUT	ION BY A NATURAL PERSON
□ SURFAC	CE OWNER		Signature:	
□ SURFAC	CE OWNER (Road and/or Other Disturbate	nce)	Print Name:	
□ SURFAC	CE OWNER (Impoundments/Pits)			TON BY A CORPORATION, ETC.
□ COAL C	OWNER OR LESSEE		Company: AV	Heed resources corporation
□ COAL C	PERATOR		By: ON I	vice president operations
□ WATER	R PURVEYOR		Signature:	on MEver
□ OPERA	TOR OF ANY NATURAL GAS STORA	GE FIELD	Date:	

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Alanna J. Keller, P.E. Deputy Secretary of Transportation/ Deputy Commissioner of Highways Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

August 22, 2023

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Genevieve Pad, Doddridge County Holtz Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2019-0087 which has been issued to Antero Resources for access to the State Road for a well site located off West Virginia Route 18 F, MP 20.83.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Operations Engineer

Day K. Clayton

Central Office O&G Coordinator

Cc: Carly Marvel

Antero Resources

OM, D-4

File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

#### FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Contract of the Contract of th	(Proprietary)
	Ethoxylated alcohol blend	Mixture
	. Ethoxylated Nonylphenol	68412-54-4
	. Ethoxylated oleylamine	26635-93-8
	. Ethylene Glycol	107-21-1
	. Glycol Ethers	111-76-2
	. Guar gum	9000-30-0
15	. Hydrogen Chloride	7647-01-0
16	. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
17	. Isopropyl alcohol	67-63-0
18	I. Isopropyl alcohol I. Liquid, 2,2-dibromo-3- nitrilopropionamide I. Microparticle I. Petroleum Distillates (BTEX Below Detect)	O Gas 10222-01-2
19	. Microparticle	Proprietary
20	D. Petroleum Distillates (BTEX Below Detect)	÷ 2023 64742-47-8
21	Polyacrylamide(3)	5/-55-6
22	2. Propargyl Alcohol	ment of 107-19-7
23	8. Propylene Glycol	57-55-6 14808-60-7 7631-86-9
24	l. Quartz	14808-60-7
25	5. Sillica crystalline quartz	7631-86-9
26	5. Sodium Chloride	7647-14-5
27	7. Sodium Hydroxide	1310-73-2
28	3. Sugar	57-50-1
29	9. Surfactant	68439-51-0
30	). Suspending agent (solid)	14808-60-7
3.	1. Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
32	2. Solvent Naptha, petroleum, heavy aliph	64742-96-7
33	3. Soybean Oil, Me ester	67784-80-9
34	4. Copolymer of Maleic and Acrylic Acid	52255-49-9
3.	5. DETA Phosphonate	15827-60-8
3	6. Hexamythylene Triamine Penta	34690-00-1
3	7. Phosphino Carboxylic acid polymer	71050-62-9
3	8. Hexamethylene diamine penta	23605-74-5
3	9. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	0. Hexamethylene diamine penta (methylene phosphonic a	acid) 23605-74-5
	1. Diethylene Glycol	111-46-6
	2. Methenamine	100-97-0
4	3. Polyethylene polyamine	68603-67-8
1	4. Coco amine	61791-14-8
4	5. 2-Propyn-1-olcompound with methyloxirane	38172-91-7

WW-6A7 (6-12)

Well

OPERATOR:_	Antero Resources Corp.	WELL NO: Holtz Unit 2H
PAD NAME:_	Genevieve Pad	
REVIEWED E	BY: Mallory Turco	SIGNATURE: WWW

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

Restri	ctions	
$\checkmark$	At Least 100 Feet from Pad and LOD (including any E&S Control Feat Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	are) to any
	DEP Waiver and Permit Conditions	,
$\checkmark$	At Least 300 Feet from Pad and LOD (including any E&S Control Feat Naturally Producing Trout Stream; OR	are) to any
	DEP Waiver and Permit Conditions	
$\checkmark$	At Least 1000 Feet from Pad and LOD (including any E&S Control Feat Groundwater Intake or Public Water Supply; OR	ture) to any
	DEP Waiver and Permit Conditions	
<b>√</b>	At Least 250 Feet from an Existing Water Well or Developed Spring to Drilled; OR	Well Being
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
1	At Least 625 Feet from an Occupied Dwelling Structure to Center of th	e Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
$\checkmark$	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square of the Pad; OR	· Parker Spirit
	Surface Owner Waiver and Recorded with County Clerk, OR	nce of Oil and
	DEP Variance and Permit Conditions	AUU I
		WV Department of environmental Protection