

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

Thursday, March 13, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for SAIL UNIT 1H

47-085-10554-00-00

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.

Martin

Operator's Well Number: SAIL UNIT 1H

Farm Name: LOUIS DANIEL EASTERDAY

U.S. WELL NUMBER:

47-085-10554-00-00

Horizontal 6A New Drill

Date Issued: 3/13/2025

API Number: 4708510554

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 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. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-085 - 10554	
OPERATOR WELL NO. Sail Unit 1H	
Well Pad Name: Minear Pad	

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

		1		/	3
1) Well Operator: Antero Res	ources Corpora	494507062	085- Ritchie	Union	Pullman 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Sa	il Unit 1H	Well Pa	d Name: Minea	r Pad	
3) Farm Name/Surface Owner:	Louis Daniel Easterday Revocable	Public Roa	nd Access: Pull	man Road	i
4) Elevation, current ground:	1111' El	evation, proposed	post-construction	on: 1097'	
5) Well Type (a) Gas X Other	Oil	Und	erground Storag	е	
(b)If Gas Sha	llow X	Deep			0
	rizontal X				
6) Existing Pad: Yes or No No			_		
 Proposed Target Formation(s Marcellus Shale: 6800' TVD, A 					
8) Proposed Total Vertical Dept	h: 6800' TVD				
9) Formation at Total Vertical D	epth: Marcellus				
10) Proposed Total Measured D	epth: 8300' MD	/			
11) Proposed Horizontal Leg Le	ngth: 320.5'				
12) Approximate Fresh Water S	trata Depths:	105', 190', 450',	757'		
13) Method to Determine Fresh	Water Depths: 4	7-085-08082, 47	-085-04932		
14) Approximate Saltwater Dept	ths: 1085', 1522'	1			
15) Approximate Coal Seam De	pths: N/A	500000			
16) Approximate Depth to Possi	ble Void (coal mi	ne, karst, other):	None Anticipat	ed	
17) Does Proposed well location directly overlying or adjacent to		ns Yes	Off No c	ECEIVED f X 0il and Gi	බය
(a) If Yes, provide Mine Info:	Name:		FEB	21 2025	
	Depth:		WV De	W. Internal de la Contraction	
	Seam:			ental Protecti	ion
	Owner:				

Jung Mel 2-12-25

4708510554

API NO. 47- 085

OPERATOR WELL NO. Sail Unit 1H

Well Pad Name: Minear Pad

18)

CASING AND TUBING PROGRAM

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#	807	807 /	CTS, 841 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#	8300	8300 /	1164 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	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	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

Office of Oil and Gas

PACKERS

		FEB 2,1 2025
Kind:	N/A	WV Department of
Sizes:	N/A	Environmental Protection
Depths Set:	N/A	

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4708510554

API NO. 47- 085

OPERATOR WELL NO. Sail Unit 1H

Well Pad Name: Minear Pad

(9) De	scribe proposed	l well work	, including the	drilling and	plugging back	of any pilot hole:
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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): 36.68 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.70 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.

Office of Oil and Case

FEB 21 2025

WV Department o

Environmental Professor

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.

Jenny Mell 2-12-25

Page 3 of 3 03/14/2025

4708510554

API Number	47 - 085		
Opera	ator's Well N	No. Sail Unit 1H	

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
Operator Name
Watershed (HUC 10) South Fork Hughes River Watershed Quadrangle Pullman 7.5' Do your article to young more than 5 000 bbls of water to complete the proposed well work? Yes No
Do you anticipate using more than 3,000 bits of water to complete the projected with
A Company of the Comp
it so, prease desertor anticipated pix waster.
Will a synthetic liner be used in the pit? Yes No 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 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) Northwestern Landfill Permit #SWF-1025/
Other (Explain
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-
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil 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, etc. Drill 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
1 lation 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 all aware that there are significant
penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Gretchen Kohler Gretchen Kohler Gretchen Kohler Gretchen Kohler
Company Official (Typed Name)
Company Official Title Director of Environmental & Regulatory Compliance WV Department of
Environmental Protection
Subscribed and sworn before me this 2Nd day of JANUARY, 20_25
Notary Public CARLY RAYNE WREN
NOTARY PUBLIC
My commission expires STATE OF COLORADO NOTARY ID 20224038743
MY COMMIS 03/44/2025 ⁰²⁶

Form WW-9		Operator's	s Well No. Sail Unit 1H
Antero Resources Cor	poration		
Proposed Revegetation Treatmen	t: Acres Disturbed 36.68 a	cres Prevegetation	pH
	Tons/acre or to correct to pH		
Fertilizer type	aw or Wood Fiber (will be used	where needed)	
Fertilizer amount 500	lb	s/acre	
Mulch 2-3	Tons/a	ocre	
Access Road "A" (10.44	acres) + Access Road "B" (1.34 acres) + W	Vell Pad (17.70 acres) + Excess/Topsoil Materia Acres	Stockpiles (7.20 acres) = 36.68
Tempo	rary	Per	manent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional s	eed type (Minear Pad Design)	See attached Table IV-4A for additi	onal seed type (Minear Pad Design)
*or type of grass seed reque	sted by surface owner	*or type of grass seed rec	uested by surface owner
	vill be land applied, include di rea.	ation (unless engineered plans inc mensions (L x W x D) of the pit,	and dimensions (L x W), and area
Plan Approved by:	any fle		
Comments:			page was story and store in the deletes till message application in the companion and
			Office of Oil and Ges
			FEB 21 2025
			Wy Department of Environmental Protection
Title: Oil & Gas	Inspector	Date: 2-12-25	
Field Reviewed?	Yes () No	



911 Address 7295 Pullman Rd Pullman, WV 26415

Well Site Safety Plan Antero Resources

Well Name: Minear Unit 5V, Aft Unit 1H, Autumn Unit 1H,

Elliott Unit 1H, Keel Unit 1H, Jib Unit 1H, Sail Unit 1H

Pad Location: Minear PAD

Ritchie County/Union District

GPS Coordinates:

Entrance - Lat 39.202899/Long -80.951534 (NAD83)

Pad Center - Lat 39.199879/Long -80.958385 (NAD83)

Driving Directions:

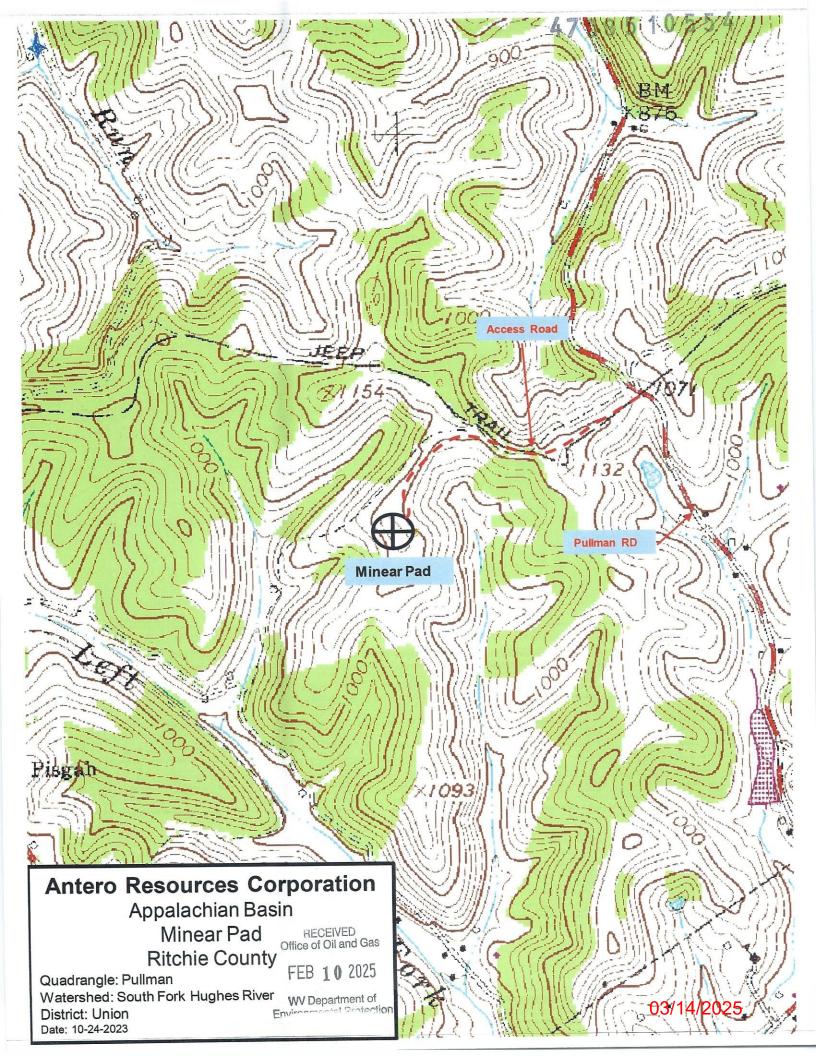
From US-50 turn south onto WV-74 and travel for 6.4 miles. The Mineae Lease Road is on the right.

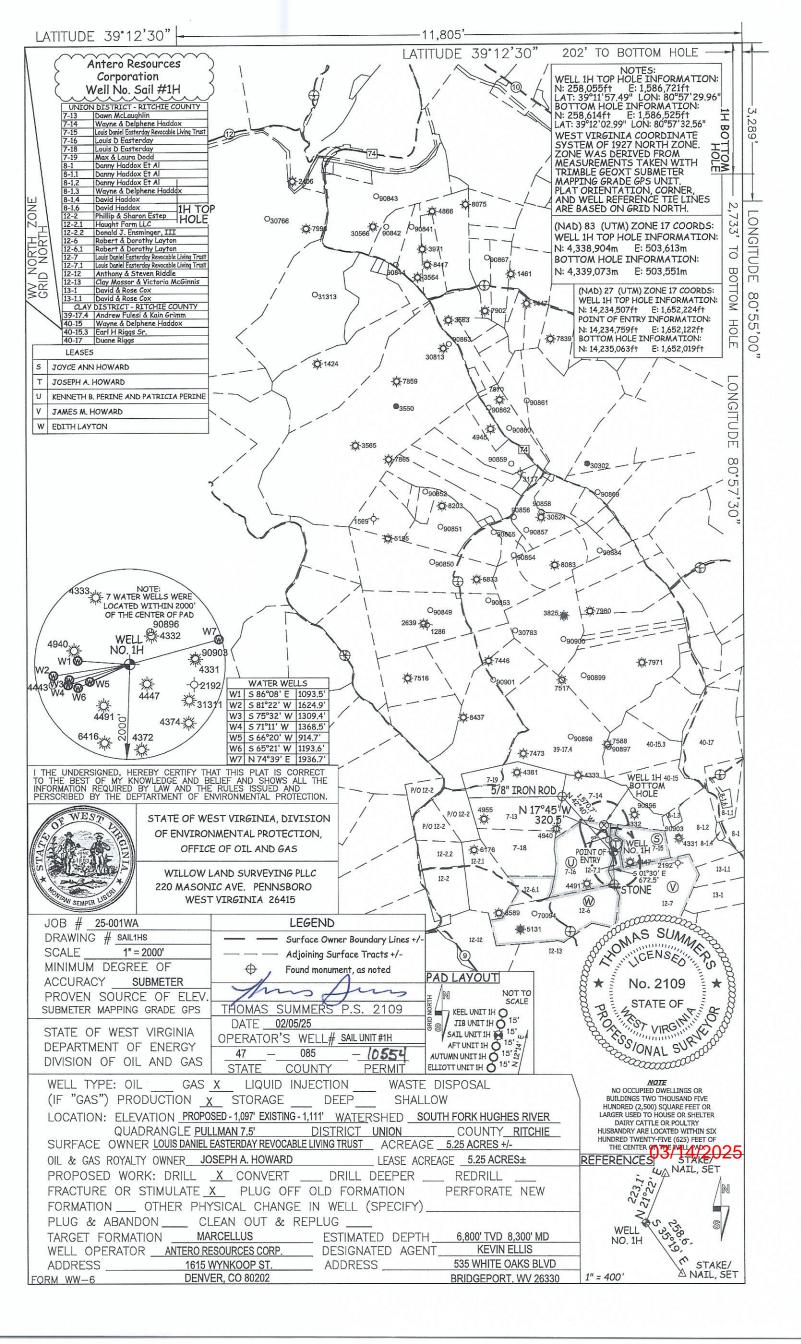
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373



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Juny Merc 2-03/14/2025





Operator's Well Number

Sail Unit 1H

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

T: Joseph A. Howard Lease Joseph A. Howard

Antero Resources Corporation

1/8+

323/561

*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.

RECEIVED Office of Oil and Gas

FEB 10 2025

WW-6A1 (5/13)

Operator's	Well No.	Sail Unit 1H
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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)

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: Kenneth B. Perine and Patricia Perin	1e Lease			
	Kenneth B. Perine and Patricia Perine	Warren R. Haught	1/8	128/339
	Warren R. Haught	ANJO Investments Inc	Assignment	198/310
	ANJO Investments Inc	710 Corporation	Assignment	194/342
	710 Corporation	Whittle Corporation	Assignment	234/182
	Whittle Corporation	Haught Energy Corporation	Assignment	262/474
	Haught Energy Corporation	Burning Springs Energy, LLC	Assignment	308/796
	Burning Springs Energy, LLC	HG Energy II Appalachia, LLC	Assignment	316/372
	HG Energy II Appalachia, LLC	Antero Resources Corporation	Assignment	334/368

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

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

Senior Vice President of Land

Office of Oil and Gas

FEB 1 0 2025

WV Department of Environmental Protection

Page 2 of 2



Antero Resources

February 6, 2025

February 6, 2025

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:

Sail Unit 1H

Quadrangle: Pullman 7.5'

Ritchie County/Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Sail Unit 1H horizontal shallow well. 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 Sail Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Anthony Hoehler

Landman

RECEIVED Office of Oil and Gas

FEB 10 2025

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) prior to filing an app shall publish in the county in which the well is located or is propo	
Paper: Pennsboro News	
Public Notice Date: 12/11/2024 & 12/18/2024	
The following applicant intends to apply for a horizontal natural surface excluding pipelines, gathering lines and roads or utilizes any thirty day period.	The state of the s
Applicant: Antero Resources Corporation	Well Number: Sail Unit 1H
Address: 1615 Wynkoop St. Denver, CO 80202	
Business Conducted: Natural gas production.	
Location –	
State: West Virginia Cou	unty: Ritchie
	adrangle: Pullman /
UTM Coordinate NAD83 Northing: 4338903.76m	-
UTM coordinate NAD83 Easting: 503613.49m	
Watershed: South Fork Hughes River	
Coordinate Conversion: To convert the coordinates above into longitude and latitude, visit	:: http://tagis.dep.wv.gov/convert/llutm_conus.php
Electronic notification: To receive an email when applications have been received or issue	ed by the Office of Oil and Gas, visit

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 DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, 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.

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

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

http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

WW-6AC (1/12)

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

Date of Notice Certification: 02/06/2025 API No. 47- 085 -					
		tor's Well No. Sail Ur			
	Well P	ad Name: Minear Pa	ad		
Notice has been given:	N 100 - NOT - NOT NO 100	10 No.			
Pursuant to the provisions in West Virginia Code § 22-6A,	the Operator has provided th	e required parties w	ith the Notice Forms listed		
below for the tract of land as follows:	T	502642 40m			
State: West Virginia	UTM NAD 83 Eastin				
County: Ritchie	Northi	Pullman Road			
District: Union	Public Road Access: Generally used farm nam	Marie No. 1 (Albert No. 1) (Albert N	erday Revocable Living Trust		
Quadrangle: Pullman 7.5'	Generally used farm flan	IIE. Louis Daniel Lask	Study Novocubic Living Truck		
Watershed: South Fork Hughes River					
Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.					
D W. W	as attached proof to this Not	ica Cartification			
Pursuant to West Virginia Code § 22-6A, the Operator h that the Operator has properly served the required parties	s with the following:	ice certification			
*PLEASE CHECK ALL THAT APPLY	s with the following.		OOG OFFICE USE ONLY		
		EGANOENO			
☐ 1. NOTICE OF SEISMIC ACTIVITY or ■ N			☐ RECEIVED/		
SEISM	MIC ACTIVITY WAS CON	DUCTED	NOT REQUIRED		
☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or	■ NO PLAT SURVEY WA	AS CONDUCTED	☐ RECEIVED		
NOTI	OTICE NOT REQUIRED B CE OF ENTRY FOR PLAT CONDUCTED or		☐ RECEIVED/ NOT REQUIRED		
	WRITTEN WAIVER BY SU (PLEASE ATTACH)	RFACE OWNER			
■ 4. NOTICE OF PLANNED OPERATION			☐ RECEIVED		
■ 5. PUBLIC NOTICE			☐ RECEIVED		
■ 6. NOTICE OF APPLICATION			☐ RECEIVED		

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal Service, Gas the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I Jon McEvers				
Well Operator:	Antero Resources Corporation	C	Address:	1615 Wynkoop Street
By:	Jon McEvers On ///	Eug.	es	Denver, CO 80202
Its:	Senior VP of Operations		Facsimile:	303-357-7373
Telephone:	303-357-6799	·	Email:	cmarvel@anteroresources.com
S	MOTARY SEAL CARLY RAYNE WREN NOTARY PUBLIC TATE OF COLORADO DTARY ID 20224038743 MMISSION EXPIRES 10/65/2026	-	ribed and swo	orn before me this 5 day of Feb 2025 J ROMNE WELN Notary Public Repires 10-5-710

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 deprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

FEB 10 2025

WV Department of Environmental Protection

03/14/2025

WW-6A (9-13) 47085 10554
API NO. 47-085 - OPERATOR WELL NO. Sail Unit 1H
Well Pad Name: Minear Pad

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

Noti	ce Time Requirement: notice shall be provided no later the	han the filing date of permit application.	
	of Notice: 2/7/2025 Date Permit Application Filed: 2/7/ce of:	7/2025	
V	PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PPROVAL FOR THE F AN IMPOUNDMENT OR PIT	
Deli	very method pursuant to West Virginia Code § 22-6A-	10(b)	
		THOD OF DELIVERY THAT REQUIRES A SEIPT OR SIGNATURE CONFIRMATION	
sedification sedif	stered mail or by any method of delivery that requires a receip ment control plan required by section seven of this article, and surface of the tract on which the well is or is proposed to be lond and gas leasehold being developed by the proposed well work, tribed in the erosion and sediment control plan submitted pursator or lessee, in the event the tract of land on which the well e coal seams; (4) The owners of record of the surface tract or work, if the surface tract is to be used for the placement, con- coundment or pit as described in section nine of this article; (5 as a water well, spring or water supply source located within or- yide water for consumption by humans or domestic animals; as cosed well work activity is to take place. (c)(1) If more than the section (b) of this section hold interests in the lands, the appli- tords of the sheriff required to be maintained pursuant to section vision of this article to the contrary, notice to a lien holder is a le R. § 35-8-5.7.a requires, in part, that the operator shall also the purveyor or surface owner subject to notice and water testing	d the well plat to each of the following persons: (1) The ovocated; (2) The owners of record of the surface tract or tract; if the surface tract is to be used for roads or other land disputate to subsection (c), section seven of this article; (3) The proposed to be drilled is located [sic] is known to be undertracts overlying the oil and gas leasehold being developed astruction, enlargement, alteration, repair, removal or abands) Any surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well pade and (6) The operator of any natural gas storage field within three tenants in common or other co-owners of interests destant may serve the documents required upon the person destant may serve the documents required upon the person destant may serve the documents required upon the person destant on eight, article one, chapter eleven-a of this code. (2) Note that the control of the well site Safety Plan ("WSSP") to the surface oprovide the Well Site Safety Plan ("WSSP") to the surface	cts overlying the sturbance as e coal owner, erlain by one or by the proposed donment of any ne applicant to which is used to which the scribed in escribed in the withstanding any lowner. W. Va.
☑ S Na	Application Notice WSSP Notice E&S Plan Notice WRFACE OWNER(s) MRE: PLEASE SEE ATTACHMENT	© Well Plat Notice is hereby provided to: □ COAL OWNER OR LESSEE Name: Address:	
Ad	dress:		
	me:dress:	COAL OPERATOR Name: Address:	
Na	SURFACE OWNER(s) (Road and/or Other Disturbance) me: dress:	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE Name: Louis D, Easterday	
Na	me:	Address: 719 Slab Creek Rd	
Ad	dress:	Harrisville, WV 26362 OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
	SURFACE OWNER(s) (Impoundments or Pits) me:	Name:Address:	RECEIVED Office of Oil and Gas
Ad	dress:	*Please attach additional forms if necessary	FEB 10 2025
			WV Department of Environmental Protection

WW-6A (8-13) 4708510554

OPERATOR WELL NO. Sail Unit 1H

Well Pad Name: Minear 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.

This Notice Shall Include:

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 area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-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)

OPERATOR WELL NO. Sail Unit 1H

Well Pad Name: Minear 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 RECEIVED location or construction of the applicant's proposed well work to the Secretary at: Office of Oil and Gas

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

FEB 1 0 2025

WV Department of **Environmental Protection**

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

WW-6A (8-13) API NO. 47-085 8 5 1 0 5 5 4

OPERATOR WELL NO. Sail Unit 1H

Well Pad Name: Minear 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 determines that:

- (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 Office of Oil and Gas

FEB 10 2025

WW-6A
(8-13)

API NO. 47- 085 OPERATOR WELL NO. Sail Unit 1H
Well Pad Name: Minear Pad

Notice is hereby given by:
Well Operator: Antero Resources Corporation
Telephone: (303) 357-7373
Denver, CO 80202
Email: cmarvel@anteroresources.com
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 WREN
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224038743
MY COMMISSION EXPIRES 10/65/2026

Subscribed and sworn before me this 5 day of Feb., 2025.

Cally family Well Notary Public

My Commission Expires 10 -5 - 24

RECEIVED
Office of Oil and Gas

FEB 10 2025

WW-6A4 (1/12) Operator Well No. Sail Unit 1H

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 Red Date of Notice:	quirement: Notice shall be provided at least TE 12/09/2024	N (10) days prior to filing a pelication Filed: 02/07/2025	ermit application.
Delivery method	l pursuant to West Virginia Code § 22-6A-16	(b)	
HAND DELIVERY	CERTIFIED MAIL RETURN RECEIPT REQUESTE	D	
receipt requested drilling a horizon of this subsection	Va. Code § 22-6A-16(b), at least ten days prior to do n't and delivery, give the surface owner notice intal well: <i>Provided</i> , That notice given pursuant in as of the date the notice was provided to the surface owner. The facsimile number and electronic mail address of	e of its intent to enter upon the t to subsection (a), section ten arface owner: <i>Provided, howe</i> notice, if required, shall include	of this article satisfies the requirements ver, That the notice requirements of this le the name, address, telephone number,
Notice is herel	by provided to the SURFACE OWNER(s):	
Name: PLEASE SE	EE ATTACHED	Name:	
Address:		Address:	
State: V County: R	Inion I	JTM NAD 83 Easting: 5 Northing: 4 Public Road Access: F	03613.49m 1338903.76m Pullman Road
District:	THE .		
Zunarungier _	outh Fork Hughes River	Generally used farm name: L	ouis Daniel Easterday Revocable Living Trust
facsimile numb	hall Include: est Virginia Code § 22-6A-16(b), this notice ser and electronic mail address of the operator ontal drilling may be obtained from the Secreta 7 th Street, SE, Charleston, WV 25304 (304-926)	and the operator's authorized arv, at the WV Department of	Environmental Protection headquarters,
Notice is here	by given by:	-	
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 Office of Oil and Gas
Facsimile:	303-357-7315	Facsimile:	303-357-7315
Oil and Gas I	Privacy Notice: Dil and Gas processes your personal information	, such as name, address and tel	lephone number, as part of contractive

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or disction 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.

WW-6A5 (1/12) Operator Well No. Sail Unit 1H

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

	otice: 02/07/2025 Date Permit A	pplication Filed: 02/07		пррисации.
Delivery n	nethod pursuant to West Virginia Code §	22-6A-16(c)		
	TIFIED MAIL URN RECEIPT REQUESTED	HAND DELIVERY		
return rece the planne required to drilling of damages to	o W. Va. Code § 22-6A-16(c), no later that interpreted or hand delivery, give the surficted operation. The notice required by this is to be provided by subsection (b), section tends a horizontal well; and (3) A proposed surficted by oil and gas operation of the surface affected by oil and gas operation tices required by this section shall be given	face owner whose land subsection shall include of this article to a surfa- face use and compens- tons to the extent the da	will be used for le: (1) A copy of the cowner whose ation agreement mages are comp	r the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the containing an offer of compensation for pensable under article six-b of this chapter.
(at the add	ress listed in the records of the sheriff at the		:	
Pursuant to		of drilling a horizonta UTM NAD 8 Public Road A	well on the trace Easting: Northing:	
Pursuant to to be prov horizontal surface af informatio headquarte	ce Shall Include: o West Virginia Code § 22-6A-16(c), this nowided by W. Va. Code § 22-6A-10(b) to a well; and (3) A proposed surface use and confected by oil and gas operations to the extension related to horizontal drilling may be obtained by the confected at 601 57th Street, SE, Chardefault.aspx.	surface owner whose compensation agreement ent the damages are co- tained from the Secret	land will be un nt containing an empensable und ary, at the WV	sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Well Oper		Address:	1615 Wynkoop Stree	et RECEIVED Office of Oil and Gas
Telephone Email:		Facsimile:	Denver, CO 80202	
Elliali.	cmarvel@anteroresources.com	racsimile.	303-357-7310	FEB 10 2025
	as Privacy Notice:	Samuatian anal as man	a addmass and t	WV Department of

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

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

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

January 13, 2025

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

Subject: DOH Permit for the Minear Well Pad, Ritchie County
Aft Unit 1H Well Site Autumn Unit 1H Well Site Elliott Unit 1H Well Site
Jib Unit 1H Well Site Keel Unit 1H Well Site Sail Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOII permit #03-2023-0229 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Ritchie County Route 74 WV MP 15.39.

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,

Lacy D. Pratt

Central Office O&G Coordinator

Lacy D. Pratt

RECEIVED
Office of Oil and Gas

FEB 10 2025

WV Department of Environmental Protection

Cc: Carly Wren

Antero Resources Corporation

OM, D-3 File

List of Anticipated Additives Used for Fracturing or **Stimulating Well**

Additives	Chemical Abstract Service Number	
	(CAS #)	
Fresh Water	7732-18-5	
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
Ammonium Persulfate	7727-54-0	
Anionic copolymer	Proprietary	
Anionic polymer	Proprietary	
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	
Cellulase enzyme	Proprietary	
Demulsifier Base	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	
Hydrogen Chloride	7647-01-0	
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
Isopropyl alcohol	67-63-0	
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	
Microparticle	Proprietary	
Petroleum Distillates (BTEX Below Detect)	64742-47-8	
Polyacrylamide	57-55-6	
Propargyl Alcohol	107-19-7	
Propylene Glycol	57-55-6	
Quartz	14808-60-7	
Sillica, crystalline quartz	7631-86-9	
Sodium Chloride	7647-14-5	
Sodium Hydroxide	1310-73-2	
Sugar	57-50-1	
Surfactant	68439-51-0	
Suspending agent (solid)	14808-60-7	
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester	67784-80-9	
Copolymer of Maleic and Acrylic Acid	52255-49-9	
DETA phosphonate	15827-60-8	
Hexamthylene Triamine Penta	34690-00-1	
Phosphino Carboxylic acid polymer	71050-62-9	
Hexamethylene Diamine Tetra	23605-75-5	
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	RECEIVED
Hexamethylene diamine penta (methylene phosphonic acid)		of Oil and G
Diethylene Glycol		
Methenamine	100-97-0	10 202
Polyethylene polyamine	WV Do	epartment o
Coco amine	61791-14-8	ental Protec
2-Propyn-1-olcompound with methyloxirane	38172-91-7	

OPERATOR: Antero Resources Corp. WELL NO: Sail Unit 1H

PAD NAME: Minear Pad

REVIEWED BY: Mallory Turco SIGNATURE: Mallory Turco

WW-6A7

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Res	trictions	
(meladas as 🗸	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to a Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	nny
	DEP Waiver and Permit Conditions	
) (an induis as 🗸	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to a Naturally Producing Trout Stream; OR	any
	DEP Waiver and Permit Conditions	
D (intereshier a	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to Groundwater Intake or Public Water Supply; OR	any
	DEP Waiver and Permit Conditions	
Cater Wolf or 1	At Least 250 Feet from an Existing Water Well or Developed Spring to Well B Drilled; OR	eing
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
Lisariano son	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; C)R
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
naganja tan 🗸	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to	the Center
	of the Pad; OR	RECEIVED Office of Oil and Gas
	Surface Owner Waiver and Recorded with County Clerk, OR	FEB 10 2025
	DEP Variance and Permit Conditions	WV Department of Environmental Protection