

#### west virginia department of environmental protection

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

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

Wednesday, December 13, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for FARLEY UNIT 1H

47-017-06970-00-00

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.

James A. Martin

Chief

Operator's Well Number: FARLEY UNIT 1H

Farm Name: ANTERO RESOURCES CORP

U.S. WELL NUMBER: 47-017-06970-00-00

Horizontal 6A New Drill Date Issued: 12/12/2023



#### 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 dep.wv.gov

## ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Antero Resources Corporation 1615 Wynkoop Street Denver, CO 80202 DATE: February 24, 2022 ORDER NO.: 2022-W-3

#### **INTRODUCTION**

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to Antero Resources Corporation (hereinafter "Antero" or "Operator"), collectively the "Parties."

#### FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- 2. Antero is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 1615 Wynkoop Street, Denver, CO 80202.
- 3. On January 27, 2022, Antero submitted a well work permit application identified as API# 47-17-06920. The well is located on the Locke Pad in the Southwest District of Doddridge County, West
- Virginia.
- 4. On January 27, 2022, Antero requested a waiver for Wetlands DC, JB, and KB as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-017-06920.

#### **CONCLUSIONS OF LAW**

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "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 Office of Oil and Gas 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 Office of Oil and Gas 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."

#### **ORDER**

West Virginia Code §22-6A-12(b) requires, in part, that "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. The Office of Oil and Gas grants the request for a waiver for Wetlands DC, JB, and KB from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-017-06920. The Office of Oil and Gas hereby **ORDERS** that Antero shall meet the following site construction and operational requirements for the Locke Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetlands DC, JB, and KB shall be protected by two rows of forty-two inch (42") SMARTFence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies:
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

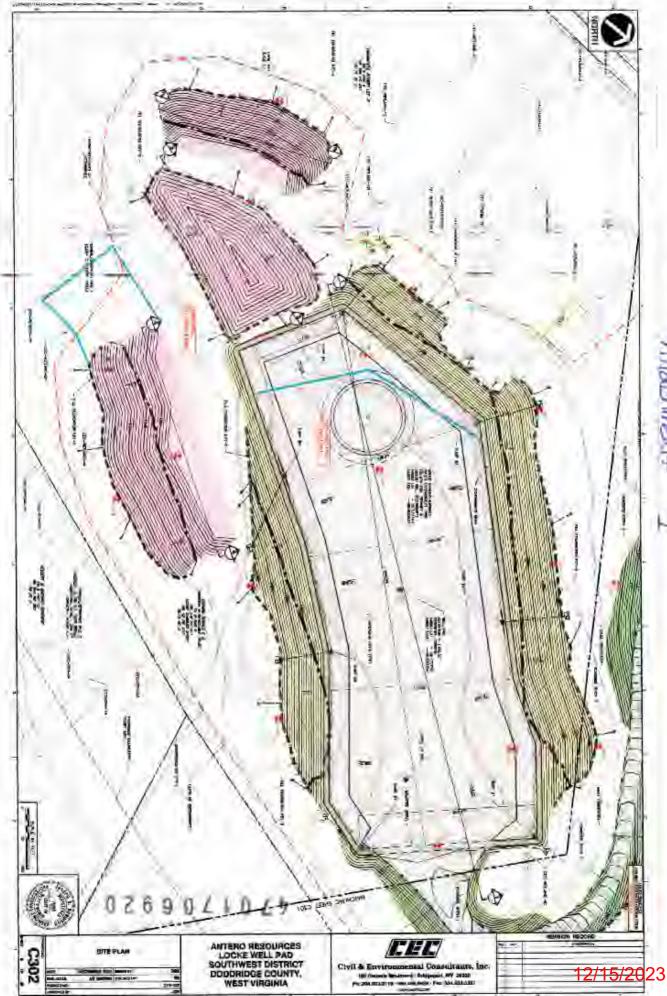
Thus ORDERED, the 24th day of February 2022.

#### IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:

JAMES A. MARTIN, CHIEF



API Number:	
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## PERMIT CONDITIONS 4701706970

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.
- 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.
- 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.
- 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.

WW-6B (04/15)

API NO. 47-017 -		
OPERATOR WELL	NO.	Ferley Unit 1H
Well Pad Name:	Locke	Ped

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

1) Weil Operator:	Antero F	Resources	Corporat	494507062	017 - Doddgi	Southwe	Oxford 7.5'
-	<del></del>		-	Operator ID	County	District	Quadrangle
2) Operator's We	ll Number:	Farley Uni	t 1H	Well Pac	Name: Locke	Pad	
3) Farm Name/Su	rface Own	er: Antero Res	sources Corp	Public Roa	d Access: Tay	lor Drain R	oad
4) Elevation, curr	ent ground:	1100.5' - AS	SBUILT E	evation, proposed	post-construction	on:	
	n) Gas <u>X</u> other	(	Oil	Unde	erground Storag	ge	
(1)	,	Shallow Horizontal	X	Deep		<u></u>	
6) Existing Pad: Y	es or No	Yes					
				ipated Thickness a ss- 55 feet, Associa	-		
8) Proposed Total	Vertical D	epth: 7000	D' TVD				·-·
9) Formation at T			Marcellus				. ,
10) Proposed Tota	al Measure	d Depth:	11500' M	D			
11) Proposed Hor	izontal Leg	Length:	356' <b>*</b> O	pen to modification	on at a later da	te	
12) Approximate	Fresh Wate	r Strata Dej	pths:	236', 260', 320',	326'		
13) Method to De 14) Approximate			тершь	17017033800000, 470170009800	00 Offset well records. Dep	ths have been adjus	and according to surface elevations
15) Approximate	Coal Seam	Depths: N	/A		·-		
16) Approximate	Depth to Po	ossible Voic	l (coal mi	ne, karst, other):	None Anticipat	ed	<del></del>
17) Does Propose directly overlying				ns Yes	No	X	OENED
(a) If Yes, provide	de Mine In:	fo: Name:				Office of	CENED Gas
		Depth:				NU/	1 1 5 20?3
		Seam:			,, <u>, , , , , , , , , , , , , , , , , ,</u>		9
		Owner	::			9/4% 	Dopont of Project of the Americal Project of the Pr
			-		•	Eliang	HILO: V

WW-6B (04/15) 4701706970

OPERATOR WELL NO. Farley Unit 1H
Well Pad Name: Locke 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	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	376'	376'	CTS, 392 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2750'	2750'	CTS, 1120 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	11500'	11500'	CTS, 1970 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners	<u> </u>						

Town 1 Sayolda 11-14-23

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"	0.375"	2250	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							<u></u>
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners			<u> </u>				

		PACKERS	Office of Oil and Gas
Kind:	N/A		NOV 15 2073
Sizes:	N/A		MA Ocaci, Pruisi.
Depths Set:	N/A		

4701706970

OPERATOR WELL NO. Farley Unit 1H.

Well Pad Name: Looke Pad

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

Drill a new horizontal shallow well into the Marcellus Shale.

\*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

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): 27.54 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 13.31 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. Oil and Office of Oil and Gas

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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Environmental Protection

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% saft + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class G/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.

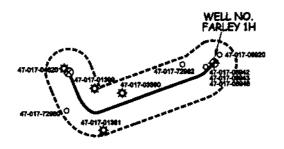
intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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.

Page 3 of 3

#### LOCKE PAD ANTERO RESOURCES CORPORATION



RECEIVED Office of Oil and Gas

NOV 0 6 2023

WV Dagartment of Environmental Protection

WILLOW LAND SURVEYING, PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717

**DATE:** 10/31/23

DRAWN BY: T.B.S.

JOB#: 23-019WA FILE: FARLEY1HSAOR.DWG 0,

SCALE: 1-INCH = 2000-FEET 2000'

4000'

6000

12/15/2023

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017069200000	LOCKE UNIT	5V	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
47017069420000		18	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	16,348	6937 - 16227	Marcellus	
47017069430000		2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	16,754	7122 - 16620	Marcellus	
47017069460000		2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	16,978	6926 - 16847	Marcellus	
47017729820000		1	UNKNOWN	UNKNOWN				
47017033900000		j-807	GREYLOCK CONVENTIONAL LLC	J & J ENTERPRISES	5,988	4273 - 4969	Riley, Alexander	Weir, Benson
47017013810000		1	R & R OIL & GAS LLC	FRIESTAD FRANCIS	2,044		Salt Sands, Maxton, Blue Monday, Big Lime, Big Injun	Weir, Benson, Alexander
47017013990000		2	TRIO OIL & GAS	TRIO PETROLEUM INC	2,035		Big Injun	Weir, Benson, Alexander
47017729800000	The state of the s	2	UNKNOWN	UNKNOWN				
47017046200000		7	KEY OIL CO	KEY OIL CO	5,328	3294 - 5145	Speechley, Riley, Benson, Alexander	Weir

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WW Dapartment of Environmental Proteotion

Antero Resources

1615 Vynkoop Street Denver, CO 80202

Office 303 357,7310

Fax 303.357.7315



October 27, 2023

West Virginia Office of Oil and Gas Attn: Taylor Brewer 601 57<sup>th</sup> St SE Charleston, WV 25304

RE: Request for Variance – Class L Cement Farley Unit 1H & 2H, Osborne Unit 1H & 2H Doddridge County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal wells (Farley Unit 1H & 2H and Osborne Unit 1H & 2H) on the Locke pad.

Antero only plans to use this method if Class A cement is not available to be use due to supply issues. Please see Order No 2022-14 attached.

If you have any questions or need further information, please feel free to contact Mallory Turco, Permitting Manager, at (303) 357-7182 or email at <a href="mailto:mturco@anteroresources.com">mturco@anteroresources.com</a>.

Sincerely,

81

Stefan Gaspar Permitting Agent Antero Resources Corporation



#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 928-0450

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

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

)		
)	ORDER NO.	2022-14
)		
)		
<b>)</b>		
)		
	) ) ) )	) ORDER NO. ) ) ) )

#### REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

RECEIVED
Office of Oil and Gas

#### FINDINGS OF FACT

NOV 0 6 2023

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Continuation Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
- Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a
  variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in
  place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment.

 On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

#### CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

#### ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

NOV 0 6 2023

WV Department of Environments Protection

WW-9 (4/16)

API Number 47 - 017

Operator's Well No. Farley 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 494507067	2
Watershed (HUC 10) South Fork Hughes River Quadrangle Oxford 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 win [Chilling and Flowcock Fluor will be stored in tanks. Current	pt will be tanked and haused utt site.
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 F	
Reuse (at API Number Future permitted well locations when applicable. API# will be provided  Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Land	
	dfill Permit #SWF-1025/
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and	
	Air/Freemwater, entermediens If Fourn, Pynduction: Water Based Most
-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, remove	ed 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? Meedowill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit #SWF-1021)	mil # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associate West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PC on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prot provisions of the permit are enforceable by law. Violations of any term or condition of the general pe law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the interpolation form and all attachments thereto and that, based on my inquiry of those individuals i obtaining the information, I believe that the information is true, accurate, and complete. I am awa penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Gretchen Kohler  Company Official (Typed Name) Gretchen Kohler	office of Oil and August 15-2023
Company Official Title Director Environmental & Regulatory Compliance	Wy Departmen
	Environmental Protection
Subscribed and swom before me this 3'd day of November , 2023	
Stetan Gaspar Notary Public	***************
My commission expires November 15, 2026	STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669 IY COMMISSION EXPIRES NOVEMBER 15, 2026

Form WW-9

Antero Resources Cor		Operators	Well No. Farley Unit 1H			
Aittele Nesources Cor	poration					
Proposed Revegetation Treatmen	at: Acres Disturbed 27.54 at	Prevegetation	рН			
	Tons/acre or to correct to pH					
Fertilizer type Has or st	raw or Wood Fiber (will be used t	where needed)				
Fertilizer amount 500		s/acre				
Mulch 2-3	Tons/s					
Main Access Rose	d (7.89 acres) + Well Pad (13.31 acres) + \$	ori Pile 1 (1.58 acres) + Topsoil/Stripping 1 (2.9 6 acres) = 27.59 acres	30 acrea) + Topsoil/Stripping 2			
Тетро	Drary	Perr	naneut			
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 a	seed type (Locke Pad Design)	See attached Table IV-4A for addition	See attached Table IV-4A for additional seed type (Locke Pad Design)			
*or type of grass seed reque	ested by surface owner	*or type of grass seed req	uested by surface owner			
provided). If water from the pit w	vill be land applied, include di	ation (unless engineered plans inc mensions (L x W x D) of the pit, a				
	will be land applied, include direa. 7.5' topographic sheet.	mensions (L x W x D) of the pit, a				
provided). If water from the pit wacreage, of the land application a Photocopied section of involved	vill be land applied, include dis trea.	mensions (L x W x D) of the pit, a	nd dimensions (L x W), and ar			
provided). If water from the pit was acreage, of the land application a	will be land applied, include direa. 7.5' topographic sheet.	mensions (L x W x D) of the pit, a	nd dimensions (L x W), and ar			
provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, include direa. 7.5' topographic sheet.	mensions (L x W x D) of the pit, a	RECEIVED Gas			
provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, include direa. 7.5' topographic sheet.	mensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas NOV 15 2023			
provided). If water from the pit water acreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, include direa. 7.5' topographic sheet.	mensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas NOV 15 2023			
provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, include direa. 7.5' topographic sheet.	mensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas NOV 15 2023			
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provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, include direa.  7.5' topographic sheet.	mensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas NOV 15 2023			
provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, include direa.  7.5' topographic sheet.	mensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas NOV 15 2023			
provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by:  Comments:	vill be land applied, include direa.  7.5' topographic sheet.	mensions (L x W x D) of the pit, a	RECEIVED Office of Oil and Gas NOV 15 2023  WV Department of Protection Environmental			
provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by:	vill be land applied, include direa.  7.5' topographic sheet.	Date: 1/-/4-2	RECEIVED Office of Oil and Gas NOV 15 2023  WV Department of Protection Environmental			

#### Form WW-9 Additives Attachment

#### SURFACE INTERVAL

- 1. Fresh Water
- 2. Soap -Foamer AC
- 3. Air

#### **INTERMEDIATE INTERVAL**

#### STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

#### **PRODUCTION INTERVAL**

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol - Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

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Office of Outland Gas

NOV 0 6 (L23

WM Deportment of Environmental Protection 13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

**Drilling Detergent – Surfactant** 

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer – Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt - Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

**Drilling Fluid Lubricant** 

HECFIVED Office of Oil and Gas

NOV 0 6 2023

Environmental Procession



911 Address 2703 Taylor Drain Rd, West Union WV 26456

# Well Site Safety Plan Antero Resources

Well Name: Locke Unit 5H, Jenkins Unit 1H-3H, Shotter Unit 1H-2H, Stope Unit 1H-2H, Osborne 1H-2H, Farley 1H-2H

Pad Location: LOCKE PAD

Doddridge County/Southwest District

RECEIVED
Office of Oil and Gas

NOV 1 5 2023

**GPS Coordinates:** 

W Departs - Environmental Projection

Entrance - 39.178401, -80.836153(NAD83)

Pad Center - 39.177765, -80.833194 (NAD83)

#### **Driving Directions:**

From Pullman; Head northeast on Main St towards Ash Hill St for 0.3 miles. Turn right onto Oxford Rd for 5.1 miles. Continue onto S Fork of Hughes River for 0.8 miles. Turn right onto Taylor Drain Rd for 2.7 miles. Lease road will be on the left.

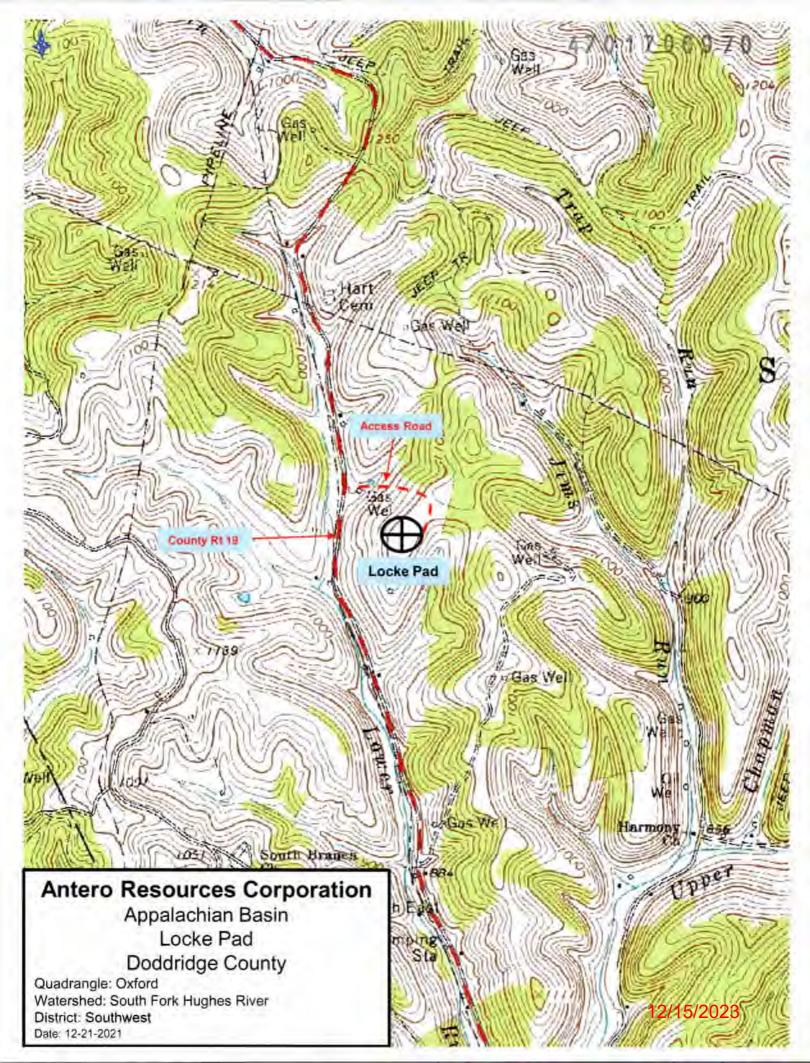
#### **Alternate Route:**

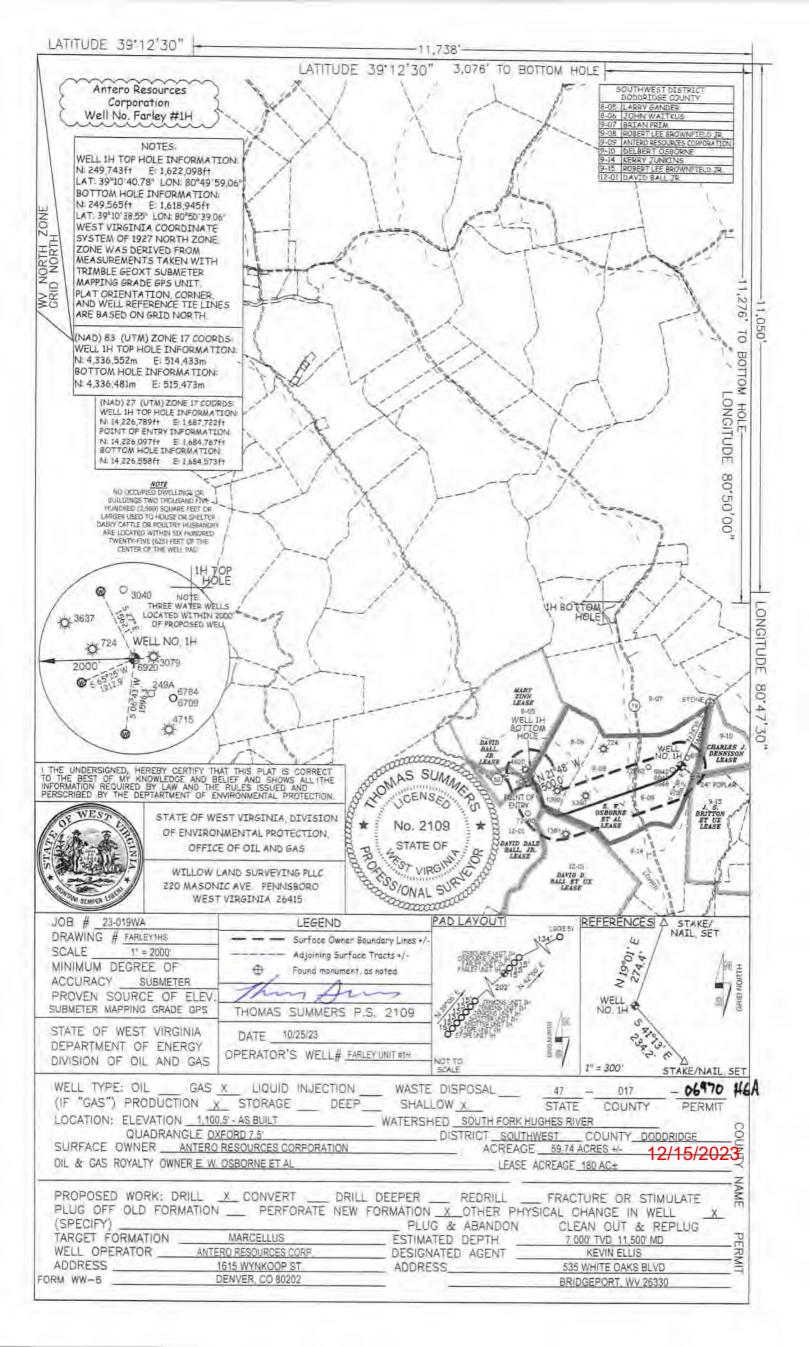
From Auburn; Head west on Auburn Rd/ Main St toward Toll Gate Rd for 30 ft. Take Co Rd 7/13 and Summers Rd Brushy Fork to Taylor Drain Rd in Doddridge County for 6.5 miles. Turn left onto Taylor Drain Rd for 1.5 miles. Lease road will be on the right.

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

12mth L Suyola 11-14-23

1





Operator's Well Number

Farley 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 –

- 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
E.W. Osbourne Et Al Lease			
E.W. Osbourne Et Al	Hope Natural Gas	1/8	57/132
Hope Natural Gas	Trio Oll and Gas Company	Assignment	72/496
Trio Oil and Gas Company	Charter D. Stinespring, Paul B. Davis & G.W. Hill	Assignment	131/687
Charter D. Stinespring, Paul B. Davis & G.W. Hill	J & J Enterprises, Inc.	Assignment	131/762
J & J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	200,000
Eastern American Energy Corporation	Energy Corporation of America	Merger	159/139
Energy Corporation of America	Antero Resources Appalachian Corporation	A 7 7 7 7 1	6/450
Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	272/307
Amero Resources Apparachian corporation	Antero Resources Corporation	Name Change	46/523
David D. Ball Et Ux Lease			
David D. Ball Et Ux	L.E. Mossor & Harry Haddox	1/8	89/301
L.E. Mossor & Harry Haddox	Francis Friestad	Assignment	89/454
Francis Friestad	W.H. Thomson	Assignment	90/313
W.H. Thomson	Bet-Ro, Inc.	Assignment	222/426
Bet-Ro, Inc.	Key Oil Company	Assignment	183/418
Key Oil Company	Antero Resources Appalachian Corporation	Assignment.	255/257
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
David Dale Ball, Jr. Lease			
David Dale Ball, Jr.	Antero Resources Corporation	1/8+	417/123
E.W. Osborne Et Al Lease			
E.W. Osborne Et AL	Hope Natural Gas	1/8	57/132
Hope Natural Gas	Trio Oil and Gas Company	Assignment	72/496
Trio Oil and Gas Company	Charter D. Stinespring, Paul B. Davis & G.W. Hill	Assignment	131/687
Charter D. Stinespring, Paul B. Davis, & G.W. Hill	J & J Enterprises, Inc.	Assignment	131/762
J & J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	159/139
Eastern American Energy Corporation	Energy Corporation of America	Merger	6/450
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	272/307
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	
		Traine Sittings	Diffusion Count Gas
			NOV 0 6:2-23

Environmental Projection

<sup>\*</sup>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.

<sup>\*</sup>Co-tenancy utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' Interests in this tract.

<sup>&</sup>quot;Posting/Unitization - Antero has fited a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to

Operator's	Wall Ma	Farley Unit 1H	
Operator s	well two	raney will in	

#### 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 -

- 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
Mary Zinn Lease				
	Mary Zinn Key Oil Company Antero Resources Appalachian Corporation	Key Oil Company Antero Resources Appalachian Company Antero Resources Corporation	1/8 Assignment Name Change	0188/0107 0276/0526 <b>0046/0523</b>

<sup>\*</sup>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.

#### 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

MERSIVED Office AND OF STREET

WV F above of

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

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

Page I of 1

<sup>\*</sup>Co-tenancy utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with the development of certain royalty owners' interests in this tract.

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

October 27, 2023

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

RE: Farley Unit 1H

Quadrangle: Oxford 7.5'

Doddridge County/Southwest District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Farley 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 Farley 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

Office of Oil and Gas

NOV 0 6 2023

WV Department of Environmental Protection

WW-PN (11-18-2015)

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

Notice is	hereby	given:
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Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

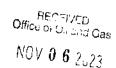
Paper: The Doddridge Independent			
Public Notice Date: 9/8/2023-9/15/2023			
The following applicant intends to apply for a surface excluding pipelines, gathering lines an any thirty day period.	horizontal n d roads or ut	atural well work	k permit which disturbs three acres or more of two hundred ten thousand gallons of water in
Applicant: Antero Resources Corporation		Well Nun	nber: Farley Unit 1H
Address: 1615 Wynkoop St. Denver, CO 802	02	<u></u> _	
Business Conducted: Natural gas production  Location –	1.		
State: West Virginia		County:	Doddridge
District: Southwest		Quadrangle:	Oxford 7.5'
UTM Coordinate NAD83 Northing:	4336552m		
UTM coordinate NAD83 Easting:	514433m	<del></del>	
Watershed: South Fork Hughes River			
Saandinata Canananian		- <del>-</del>	

#### 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 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 of the proposed permit application may be reviewed at the WV Department of Environmental Protection of the proposed permit application may be reviewed at the WV Department of Environmental Protection of the proposed permit application may be reviewed at the WV Department of Environmental Protection of the proposed permit application may be reviewed at the WV Department of Environmental Protection of the proposed permit application may be reviewed at the WV Department of Environmental Protection of the proposed permit application may be reviewed at the WV Department of Environmental Protection of the proposed permit application may be reviewed at the WV Department of Environmental Protection (1997) and (199 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.

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: <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>



#### The Doddridge Independent **PUBLISHER'S CERTIFICATE**

I, Michael D. Zorn, Publisher of The Doddridge Independent, A newspaper of general circulation published in the town of West Union, Doddridge County. West Virginia, do hereby certify that:

PUBLIC NOTICE OF APPLICATION FOR NATURAL GAS HORIZONTAL WELL DRILLING PERMIT, pursuant to West Virginia Code Section 22-6A-10(e).

Antero Resources Corporation, 1615 Wynkoop Street, Denver, CO 80202, is applying for a permit for a natural gas horizontal well, Farley Unit 1H, located at approximately UTM NAD 83 Easting 514433m, UTM NAD 83 Northing 4336552m in South Fork Hughes River Watershed, Oxford Quadrangle, Southwest District, Doddridge County, wv

was published in The Doddridge Independent 2 times commencing on Friday, September 8, 2023 and Ending on Friday, September 15, 2023 at the request of:

#### Antero Resources Corporation

Given under my hand this Monday, September 18, 2023

The publisher's fee for said publication is:

\$ 49.92 1st Run/\$ 37.44 Subsequent Runs This Legal Ad Total: \$87.36

Michael D. Zoro

Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

this date: 9 / 18 / 23

Notary Public in and for Doddridge County

My Commission expires on

The 20 day of May

20,25

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA JODIE LUSK Summit Community Bank 251 Main Street West Union, WV 26456 My Commission Expires May 20, 2025

#### Public Notice + Legal Notice

PUBLIC NOTICE OF APPLICATION FOR NATURAL GAS HORIZONTAL WELL DRILLING PERMIT, pursuent Code Section 22-6A-10(e).

Amero Resources Corporation, 1615 Wyakoop Street, Renyer, CO 80202, is applying for a permit for a natural gas horizontal well, Farley Unit 1H, located at approximately UTM NAD 83 Basing 514433m, UTM NAD 83 Northing 4336952m in South Forty Highest River Watershed, Oxford Quadrangle, Southwest District, Poddridge, County WWashish America the control WWashish America the control WWashish America the control www. County, WV which disturbs three acres or more of surface excluding pipelines, gathering lines and toads or utilizes more than two mindred ten thousand gallons of water in any thirty day period. To extract the coordinates above into longitude and latitude, visit: http://tagis dep.wv.gov/convert/llumn comus.php. 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.asjix to sign up.

Any interested person may submit written comments or request a copy of the proposed permit application. 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.

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. Emailed or written comments must reference the county, well number, and operator and be received within 30 days of the date of the last publication. 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 \$15,00, whether mailed or obtained at DEP headquarters.

For information related to horizontal drilling, and all horizontal well applications filed in this state, visit: www.dep.wv.gov/oil-and-gas/ Horizontal-Permits/Pages/default.aspx

Antero Resources Corporation

9/08-9/15

Office or On and Gas

NOV 0 6 223

MA Labertanes of Environmental Procession Date of Notice Certification: 11/02/2023

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

API No. 47- 017

			perator's	Name: Locke P	
Notice has l	been given:	**	леп Риц г	(ame:cocker	<u>aq</u>
	ne provisions in West Virginia Code	§ 22-6A, the Operator has provid	led the rec	mired parties v	with the Notice Forms list
below for the	tract of land as follows:	3 == ··· ; ··· = p···· ·· ·· ·		lanea parties t	viai die 14000ee 1 oillis 115
State:	West Virginia	UTM NAD 83	asting:	514433m	
County:	Doddridge	UIM NAD 83 N	lorthing:	4336552m	
District:	Southwest	Public Road Access	3:	Taylor Drain Roa	nd .
Quadrangle:	Oxford 7.5'	Generally used farm	n name:	Antero Resource	s Corporation
Watershed:	South Fork Hughes River				_
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface described and (c), so surface owner notice of entry to so of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall have been completed by the applicant	shall contain the following information ibed in subdivisions (1), (2) and ection sixteen of this article; (ii) to the urvey pursuant to subsection (a), of this article were waived in we tender proof of and certify to the	nation: (14), substitute that the rection the riting by	4) A certification (b), section (b), section (c), section	on from the operator that ction ten of this article, deemed satisfied as a res cle six-a; or (iii) the not wher: and Pursuant to W
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require	perator has attached proof to this ed parties with the following:	Notice C	ertification	OOG OFFICE USE
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS C			□ RECEIVED/
		SLISWIC ACTIVITY WAS C	ONDOC	IED	NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	STREET TO A STREET OF THE STREET			1
		VEY or 🖪 NO PLAT SURVEY	WAS CO	ONDUCTED	RECEIVED
	TICE OF INTENT TO DRILL or		D BECAU	JSE	☐ RECEIVED/ RECEIVED/ NOT REQUIRED
		☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLA	D BECAU AT SURV	JSE /EY	RECEIVED/
■ 3. NOT		□ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAN WAS CONDUCTED OF □ WRITTEN WAIVER BY	D BECAU AT SURV SURFAC	JSE /EY CE OWNER	RECEIVED/ NOT REQUIRED  RECEIVED
■ 3. NO1	TICE OF INTENT TO DRILL OF	□ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAN WAS CONDUCTED OF □ WRITTEN WAIVER BY	D BECAU AT SURV SURFAC	JSE /EY CE OWNER	RECEIVED/ NOT REQUIRED

#### 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. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

#### Certification of Notice is hereby given:

THEREFORE, I Jon McEvers

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street By: Jon McEvers Denver, CO 80202 Its: SVP of Operations Facsimile: 303-357-7315 Telephone: 303-357-7310 Email: mturco@anteroresources.com Subscribed and sworn before me this 3 day of November 2025. STEFAN GASPAR

NOTARY SEAL

STEFAN GASPAR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224043869
MY COMMISSION EXPIRES NOVEMBER 15, 2026

GASOA Notary Publi

My Commission Expires November 15, 2026

#### 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 www.gov.



WW-6A (9-13) 4701706970

API NO. 47-017
OPERATOR WELL NO. Farley Unit 1H
Well Pad Name: Locke Pad

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

Not	ce Time Requirem	ent: notice shall be provi	ided no later tl	han the filing date of permit application.	
	e of Notice: 11/3/2023 ce of:	Date Permit Applica	tion Filed: 11	/3/2023	
<b>7</b>	PERMIT FOR AN WELL WORK			PPROVAL FOR THE FAN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virginia Co	ode § 22-6A-1	l <b>0(b)</b>	
	PERSONAL	☐ REGISTERED	☑ MET	HOD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL		EIPT OR SIGNATURE CONFIRMATION	
oil ardescriptorio	and gas leasehold being ribed in the erosion a lator or lessee, in the erosion and to or lessee, in the erosion and to or lessee, in the erosion and to or lessee, in the erosion seams; (4) The work, if the surface to a water well, spring ide water for consumptions of the sheriff requision of this article to the R. § 35-8-5.7.a req	ag developed by the propose and sediment control plan is event the tract of land on volumers of record of the surfact is to be used for the prescribed in section nine of the or water supply source location by humans or domestity is to take place. (c)(1) I it ion hold interests in the landired to be maintained purson the contrary, notice to a liquires, in part, that the oper	sed well work, submitted pursus which the well pursus the tract or the lacement, constitution of the tract within one stic animals; and for more than the mode, the application holder is not attor shall also within also water shall also within the traction of the tractio	cated; (2) The owners of record of the surface tract or if the surface tract is to be used for roads or other land uant to subsection (c), section seven of this article; (3) proposed to be drilled is located [sic] is known to be uracts overlying the oil and gas leasehold being develop struction, enlargement, alteration, repair, removal or ab Any surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well paid (6) The operator of any natural gas storage field with the tenants in common or other co-owners of interests of ant may serve the documents required upon the person a eight, article one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the laprovide the Well Site Safety Plan ("WSSP") to the surges as provided in section 15 of this rule.	disturbance as The coal owner, aderlain by one or ed by the proposed andonment of any the applicant to ad which is used to ain which the described in described in the otwithstanding any ndowner, W. Va.
				e  Well Plat Notice is hereby provided to:	
_	RFACE OWNER(s			☐ COAL OWNER OR LESSEE	
	e: Antero Resources Com		-	Name: NO DECLARATIONS ON RECORD WITH COUNTY	-
	ess; 535 White Oaks Blv port, WV 26330	<u></u>	_	Address:	_
Vam		<del></del>	-	□ COAL OPERATOR	- Prop.
			-	Name: NO DECLARATIONS ON RECORD WITH COUNTY	Office of United Ga
_			-	Address:	. Nous
]SU	RFACE OWNER(s	(Road and/or Other Dis	turbance)		NOV 0 6 2
Vam			_	SURFACE OWNER OF WATER WELL	
\dd1	ess:		_	AND/OR WATER PURVEYOR(s)	Environi Unital Physical Of
				Name: Robert Lee Brownfield	- 
vam	e:	<u> </u>	-	Address; 2864 Taylor Drain Rd.	-
ruuI			_	West Union, WV 26456	
ıSI	REACE OWNER	(Impoundments or Pits)	_ \	OPERATOR OF ANY NATURAL GAS STOR	
Vam		——————————————————————————————————————		Name: Address:	
			•		-
			_	*Please attach additional forms if necessary	_

WW-6A (8-13) 470 1706970
API NO. 47-017
OPERATOR WELL NO. Farley Unit 1H
Well Pad Name: Locke 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/dil-and-gas/pages/default.aspx">www.dep.wv.gov/dil-and-gas/pages/default.aspx</a>.

#### 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)

API NO. 47-017 OPERATOR WELL NO. Farley Unit 1H
Well Pad Name: Locke 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:

| Construction of the applicant's proposed well work to the Secretary at:

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

NOV 0 6 2023

VAN Pannithment of Environment in Succession

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) 4701706970 API NO. 47-017

OPERATOR WELL NO. Farley Unit 1H
Well Pad Name: Locke 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.



01706970

WW-6A (8-13)

API NO. 47-017 OPERATOR WELL NO. Farley Unit 1H Well Pad Name: Locke Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Telephone: Email:

mturco@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.

STEFAN GASPAR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224043669
MY COMMISSION EXPIRES NOVEMBER 15, 2026

Subscribed and sworn before me this 3 day of November 2023

Stefan Gaspar Notary Public

My Commission Expires November 15, 2006

Office of U. and Gas NOV 0 6 2623 V.V.Canaderent of Environmental Projection

# CERTIFICED MAIL RECEIPT FARLEY UNIT 1H - LOCKE PAD WW-6A NOTICE OF APPLICATION TO WATER WELL OWNER

Cut on dotted line.

#### Instructions

- Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
- Place your label so it does not wrap around the edge of the package.
- Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- To mail your package with PC Postage®, you
  may schedule a Package Pickup online, hand to
  your letter carrier, take to a Post Office™, or
  drop in a USPS collection box.
- Mail your package on the "Ship Date" you selected when creating this label.

#### Click-N-Ship® Label Record

#### USPS TRACKING #: 9405 5036 9930 0622 1943 39

Trans.#: 598521538
Print Date: 11/02/2023
Ship Date: 11/03/2023
Expected: 11/06/2023

Priority Mail® Postage: \$17.10 Total: \$17.10

from: STEFAN GASPAR 1615 WYNKOOP ST DENVER CO 80202-1106

To: ROBERT LEE BROWNFIELD 2864 TAYLOR DRAIN RD WEST UNION WV 28456-6117

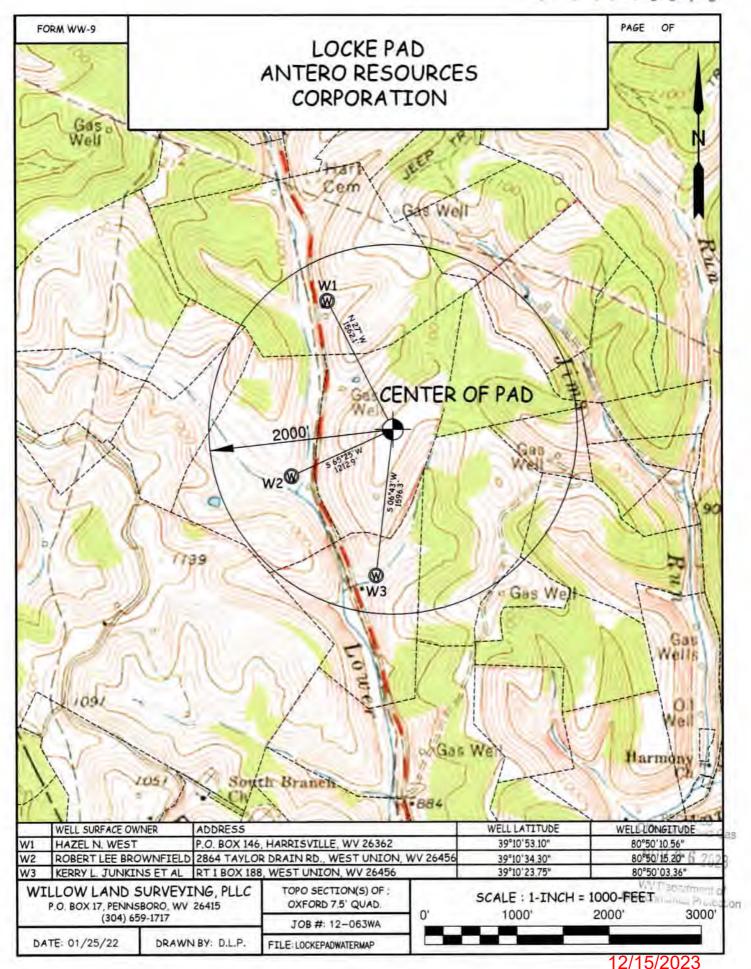
\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Office of U. and Gas NOV 0 6 2023

Environment of

UNITED STATES Thank you for shipping with the United States Postal Service!

Check the status of your shipment on the USPS Tracking® page at usps.com



WW-6A4 (1/12)

Operator Well No. Farley Unit 1H

Multiple Wells on Locke Pad

## 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.

Delivery m	ethod pursuant to West Virginia Cod	e § 22-6A-16(b)	
☐ HANI	CERTIFIED MAIL		
DELIV		REOUESTED	
receipt requidrilling a hoof this subs subsection i	ested or hand delivery, give the surface orizontal well: <i>Provided</i> , That notice grection as of the date the notice was proving be waived in writing by the surface	owner notice of its intent to enter upon t iven pursuant to subsection (a), section to ided to the surface owner: <i>Provided</i> , how	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	ereby provided to the SURFACE		
	Resources Corporation	Name:	·
Address: <u>53</u> Bridgeport, W\	5 White Oaks Blvd	Address:	
State: County: District: Quadrangle	West Virginia Doddridge Southwest Oxford 7.5'	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	514433m 4336552m Taylor Drain Road Antero Resources Corporation
Watershed:	South Fork Hughes River	Generally used failth fiame.	Avialo Resources Corporation
ir aleignea.			
This Notice Pursuant to facsimile note related to h	umber and electronic mail address of a prizontal drilling may be obtained from	the operator and the operator's authorize the Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
This Notice Pursuant to facsimile notice to help to the located at 6 Notice is help.	West Virginia Code § 22-6A-16(b), umber and electronic mail address of porizontal drilling may be obtained from 01 57 <sup>th</sup> Street, SE, Charleston, WV 253 tereby given by:	the operator and the operator's authorize the Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
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#### 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>.

WW-6A5 (1/12)

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

Date of Notic	Requirement: notice shall be p e: 11/03/2023 Date		later than the filing plication Filed: 11/6		application.	
Delivery met	hod pursuant to West Virginia	a Code § 2	2-6A-16(c)			
	FIED MAIL IN RECEIPT REQUESTED		HAND DELIVERY			
return receipt the planned o required to be drilling of a h damages to th	V. Va. Code § 22-6A-16(c), no requested or hand delivery, give peration. The notice required provided by subsection (b), sectorizontal well; and (3) A prope surface affected by oil and gases required by this section shall	e the surface by this sub- tion ten of osed surface s operations	te owner whose land bsection shall inclu this article to a surf the use and compens to the extent the da	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling of of this code sec se land will be us at containing an pensable under a	a horizontal well notice of stion; (2) The information sed in conjunction with the offer of compensation for rticle six-b of this chapter.
	eby provided to the SURFACE slisted in the records of the shere					
	esources Corporation	m ar my m	Name:			
Address: 535 V	hite Oaks Blvd		Addres			
Bridgeport, WV 26	330					
operation on a State: County: District:	the surface owner's land for the West Virginia  Doddridge Southwest	purpose of	drilling a horizonta  UTM NAD 8  Public Road	Easting: Northing:	514433m 4336552m	ows:
Quadrangle:	Oxford 7.5'		<del>_</del>	Access: ed farm name:	Taylor Drain Road	
Watershed:	South Fork Hughes River		_ Guidiany usi	eu rain name.	Antero Resources Co	orporation
to be provide horizontal wel surface affects information re	fest Virginia Code § 22-6A-16(d by W. Va. Code § 22-6A-10(l); and (3) A proposed surface wed by oil and gas operations to elated to horizontal drilling mallocated at 601 57th Street, SE	(b) to a suite and continue the extent y be obtain	arface owner whose appensation agreeme the damages are of the from the Secret	e land will be un nt containing ar compensable und tary, at the WV	used in conjunct n offer of comper ler article six-b of Department of	ion with the drilling of a nsation for damages to the of this chapter. Additional Environmental Protection
Well Operator	: Antero Resources Corporation		Address:	1615 Wynkoop Stre	et	Office Branch (CD)
Telephone:	(303) 357-7310			Denver, CO 80202		- United the Grand Gas
Email:	mturco@anteroresources.com		Facsimile:	303-357-7315		NOV 0 6 2423
	Privacy Notice: Oil and Gas processes your per-	sonal inform	nation, such as nam	ne, address and t	telephone numbe	Value appropriate of

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory on 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>.

# 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

County: District: Quadrangle: Watershed:	Doddridge Southwest Oxford 7.5'		Northing: oad Access:	4336552m	
Quadrangle:	Oxford 7.5'		oad Access:		
	CA CATALON STATE OF THE STATE O		1.0	Taylor Drain Road	
" microffed,	South Fork Hughes River	Generali	y used farm name:	Antero Resources Corporation	
	the box that applies		FOR EXECUT	TON BY A NATURAL PERSON	
issued on tho					
			FOR EXECUT	THE RESERVE	
■ SURFA	CE OWNER		Signature:	Office of C.	0 63
□ SURFAC	E OWNER (Road and/or Other Distu	V 3 5 50	A 6 . 3 .		
	L O II ILIX (Road allaro) Other Dista	rbance)	Print Name:	NOV 0 6 ;	102
	CE OWNER (Impoundments/Pits)	rbance)	Date:	NOV U 6	023
□ SURFAC		rbance)	Date:	ION BY A CORPORATION, ET	023 Cor en
□ SURFAC	CE OWNER (Impoundments/Pits) OWNER OR LESSEE	rbance)	FOR EXECUTION Company: Antero R By: Jon McEvers	Resources Corporation	023 Cor an
□ SURFAC □ COAL C	CE OWNER (Impoundments/Pits) OWNER OR LESSEE	rbance)	FOR EXECUTION Company: Antero R	Resources Corporation	023 Cor on

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 depprivacy officer a we gov.



#### 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

November 2, 2023

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 Locke Pad, Doddridge County Farley Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2021-0946 which has been issued to Antero Resources for access to the State Road for a well site located off Doddridge County Route 19 SLS MP 9.31.

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.

Day K. Clayton

Regional Operations Engineer Central Office O&G Coordinator

Office or United Gas NOV 0 6 2023

RECTRICO

CH, OM, D-6 File

Stefan Gaspar Antero Resources

Cc:

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

44. Coco amine

45. 2-Propyn-1-olcompound with methyloxirane

	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)	1
8.	Demulsifier Base	(Proprietary)	
9.	Ethoxylated alcohol blend	Mixture	
10.	Ethoxylated Nonylphenol	68412-54-4	
11.	Ethoxylated oleylamine	26635-93-8	•
	Ethylene Glycol	107-21-1	
	Glycol Ethers	111-76-2	
	Guargum	9000-30-0	
	Hydrogen Chloride	7647-01-0	
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	1
17.	Isopropyl alcohol	67-63-0	-
	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2	
	Microparticle	Proprietary	
20.	Petroleum Distillates (BTEX Below Detect)	64742-47-8	
21.	Polyacrylamide	57-55-6	
22.	Propargyl Alcohol	107-19-7	
23.	Propylene Glycol	57-55-6	j
24.	Quartz	<b>14808</b> -60-7	
25.	Sillica crystalline quartz	7631-86-9	
26.	Sodium Chloride	7647-14-5	
27.	Sodium Hydroxide	1310-73-2	
28.	Sugar	57-50-1	
29.	Surfactant	68439-51-0	
30.	Suspending agent (solid)	14808-60-7	1
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7	
	Solvent Naptha, petroleum, heavy allph	64742-96-7	
	Soybean Oil, Me ester	67784-80-9	
	Copolymer of Maleic and Acrylic Acid	52255-49-9	
	DETA Phosphonate	15827-60-8	
	Hexamythylene Triamine Penta	34690-00-1	
	Phosphino Carboxylic acid polymer	Reng	ַ מַבּיעְיוּ
	Hexamethylene diamine penta	71050-62-9 Office of C	uku.d Gas
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9 NOV 0	4 2 .22
	Hexamethylene diamine penta (methylene phosphonic a	old) 32606 74 E	1
	Diethylene Glycol	111-46-6 Environment	fro that
	Methenamine	100-97-0	Providence
	Polyethylene polyamine	68603-67-8	
4.4		00000 07:0	1

61791-14-8

38172-91-7

WW-6A7 (6-12)

OPERATOR:_	Antero Resources Corporation	WELL NO: Farley Unit 1H
PAD NAME:_		01 (01) 2 (2)
REVIEWED B	sy: Mallory Turco	SIGNATURE: MM TW

#### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

Well Resti	rictions	
	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	o any
	DEP Waiver and Permit Conditions	
1	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to Naturally Producing Trout Stream; OR	o any
	DEP Waiver and Permit Conditions	
$\checkmark$	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) Groundwater Intake or Public Water Supply; OR	to any
	DEP Waiver and Permit Conditions	
<b>✓</b>	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Drilled; OR	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 the Pad	
	Surface Owner Waiver and Recorded with County Clerk, OR	Office of Explored Gas
	DEP Variance and Permit Conditions	NOV 0 6 2023
<b>✓</b>	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet of the Pad; OR	to the Center
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	