

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

Friday, August 9, 2024 WELL WORK PERMIT Horizontal 6A / Replacement Borehole H6A

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for Fripp Unit 1HA

47-017-06986-00-00

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

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

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

Operator's Well Number: Fripp Unit 1HA

Farm Name: Shawn A Glaspell

U.S. WELL NUMBER:

47-017-06986-00-00

Horizontal 6A Replacement Borehole H6A

Date Issued: 8/9/2024

API Number: 47-017-06986

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 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.
- 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.



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 22, 2023 ORDER NO.: 2023-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.
- 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.
- On January 10, 2023, Antero submitted a well work permit application identified as API# 47-017-06951. The well is located on the Crimson Pad in the McClellan District of Doddridge County, West Virginia.
- 4. On February 14, 2023, Antero requested a waiver for Wetland 10 as outlined in Attachment I, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-017-06951.

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 Wetland 10 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-017-06951. The Office of Oil and Gas hereby ORDERS that Antero shall meet the following site construction and operational requirements for the Crimson 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. Wetland 10 shall be protected by the pad perimeter berm, three rows of straw wattles, and two rows of forty-two inch (42") SMART Fence. 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 22nd day of February 2023.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

Bv:

JAMES A. MARTIN, CHIEF

WW-6B (04/15)

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

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

1) Well Operator: Antero Res	sources Corporal	494507062	017-Doddrid	McLellan	Center Point 7.5'
- '''		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Fi	ipp Unit 1HA	Well Pad	Name: Crims	on Pad	
3) Farm Name/Surface Owner:	Shawn A. Glaspe	ell Public Road	Access: Rigg	ins Run	
4) Elevation, current ground:	1249' Ele	evation, proposed p	ost-constructio	n: 1222'	
5) Well Type (a) Gas X Other	Oil	Under	rground Storag	e	
` '	allow X	Deep			
6) Existing Pad: Yes or No Ye					
7) Proposed Target Formation(s Marcellus Shale: 7700' TVD, A	s), Depth(s), Antici Anticipated Thicknes	pated Thickness ar is- 55 feet, Associat	d Expected Project Project Pressure - 28	essure(s): 800#	
8) Proposed Total Vertical Dept	th: 7700' TVD				
9) Formation at Total Vertical I	Depth: Marcellus				
10) Proposed Total Measured D	epth: 7700' MD				
11) Proposed Horizontal Leg Le	ength: 0'				
12) Approximate Fresh Water S	trata Depths:	303'			
13) Method to Determine Fresh	Water Depths: 47	7-017-00483			
14) Approximate Saltwater Dep	ths: 2123'				
15) Approximate Coal Seam De	pths: None Identi	ified			
16) Approximate Depth to Possi	ble Void (coal min	e, karst, other): N	one Anticipate	ed	
17) Does Proposed well location directly overlying or adjacent to		Yes	No	X	
(a) If Yes, provide Mine Info:	Name:		HE AHICE O	CEIVED Gas	
	Depth:				
	Seam:		∕اه،	Department Onniental Prot	ection
	Owner:		Envi	Oumo	

API NO 447 0 1 7 0 6 9 8 6

OPERATOR WELL NO. Friop Unit 1H A Well Pad Name: Comson Pad

18)

CASING AND TUBING PROGRAM

TYPE	٦.	New				Dimension	
	Size (in)	or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 89 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	1003		CTS, 1045 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500		
Intermediate	<u> </u>		 -		2000	2500	CTS, 1018 Cu. Ft.
Production	5-1/2"	New	P-110	23#	7700	7700	1010.0
Tubing	2-3/8"	New	N-80	4.7#		7700	1013 Cu. Ft
Liners	 		-				

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield
Conductor	20"	24"	0.438"	1530	50	Class A/L	(cu. ft./k) ~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	
Intermediate				0020	1300	Class AVL	~1.18
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-HPOZ & Tes: H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200	2000		TWF-02-1.54 & M-1.6
Liners				11,200			

PACKERS

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

25-/16/2024

WW-6B (04/15)

API NO. 47- 017

OPERATOR WELL NO. Fripp Unit 1HA

Well Pad Name: Crimson Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 89 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	1003	1003	CTS, 1045 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate		•					
Production	5-1/2"	New	P-110	23#	7700	7700	1013 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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

PACKERS

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Kind:	N/A	AUG 7 2024
Sizes:	N/A	WV Department of Environmental Protection
Depths Set:	N/A	

WW-6B
(10/14)

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

19)	Describe 1	proposed v	vell work	including	the drilling	and plugging	back of any r	ilot hole:
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Drill, perforate, fracture a new vertical shallow well and complete Marcellus Shale.

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 36.89 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 14.46 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement-50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51 Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACGB-47 + 0.05% ACR-20

25) Proposed borehole conditioning procedures:

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out the same 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 the same capacity in the the same capacity

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.

7 2024



Antero Resources 1615 Wynkoop Street

Denver, CO 80202 Office 303.357.7310

Fax 303.357.7315

July 30th, 2024

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

RE: Request for Variance – Class L Cement Fripp Unit 1HA 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 well (Fripp Unit 1HA) on the Crimson 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 mturco@anteroresources.com.

Sincerely,

Carly Marvel Permitting Agent

Antero Resources Corporation

Office of Oil and Gas

AUG 2 2024

WV Department of Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

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

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4 SECTION 11.5 AND LEGISLATIVE RULE 35CSR8 SECTION 9.2.h.8., RELATING TO THE CEMENTING OF OIL AND GAS WELLS) ORDER NO.)))))		CEIVED
		Allo	2 2024
REPORT OF TH	E OFFICE	WV Depa Environmenta	rtment of al Protection

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.

FINDINGS OF FACT

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from 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.
- 3. 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

4. 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 iurisdiction 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

RECEIVED Office of Oil and Gas

AUG 2 2024

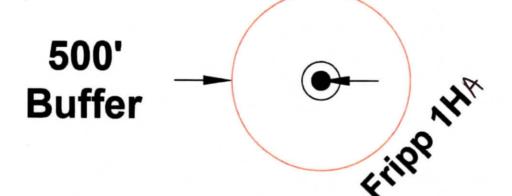
WV Department of Environmental Protection 4701706986

LEGEND

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

GRID NORTH

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



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Office of Oil and Gas

MAY 08 2024

WV Department of Environmental Protection

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

PARTY CHIEF: C. Lynch
RESEARCH: J. Miller
SURVEYED: Dec. 2016
FIELD CREW C.L., K.M.

EGHEN DE LEGIS

Sheet 1 of 1

172 Thompson Drive Bridgeport, WV 26330

PREPARED: May 6, 2024
PROJECT NO: 267-30-M-22
DRAWING NO: Fripp 1H Vertical AOR

0, 200, 1000,

Scale: 1 Inch = 500 feet

WW-9 (4/16)

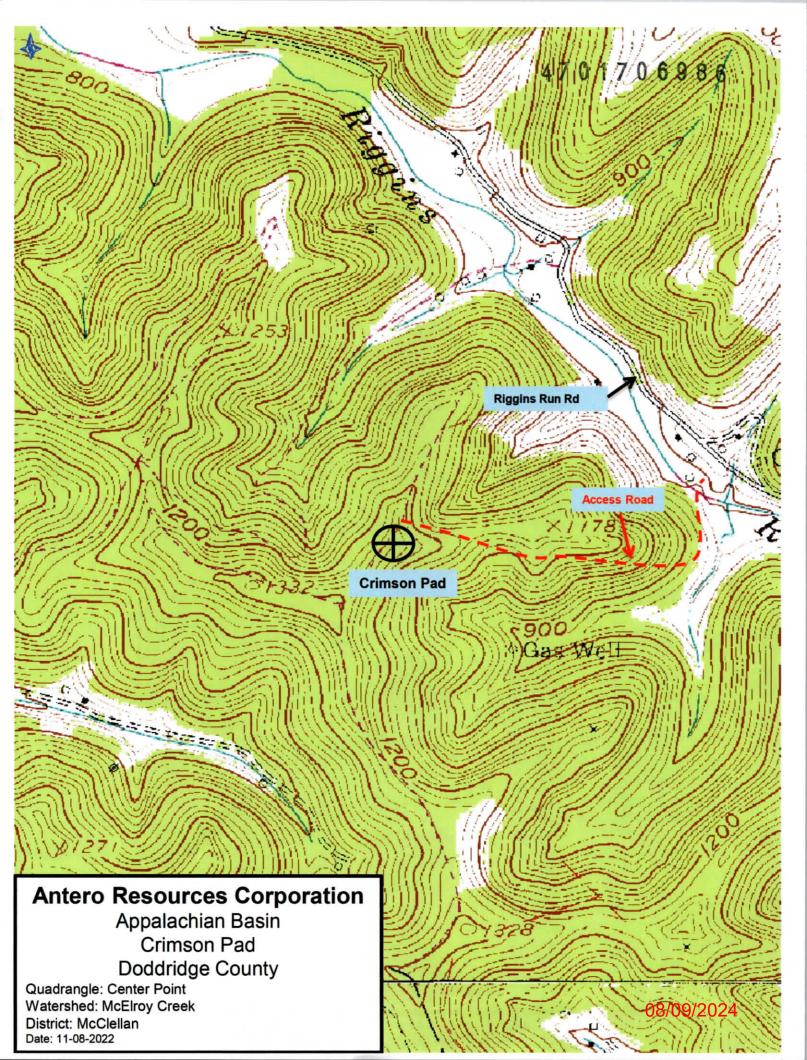
API Number 47 - 017

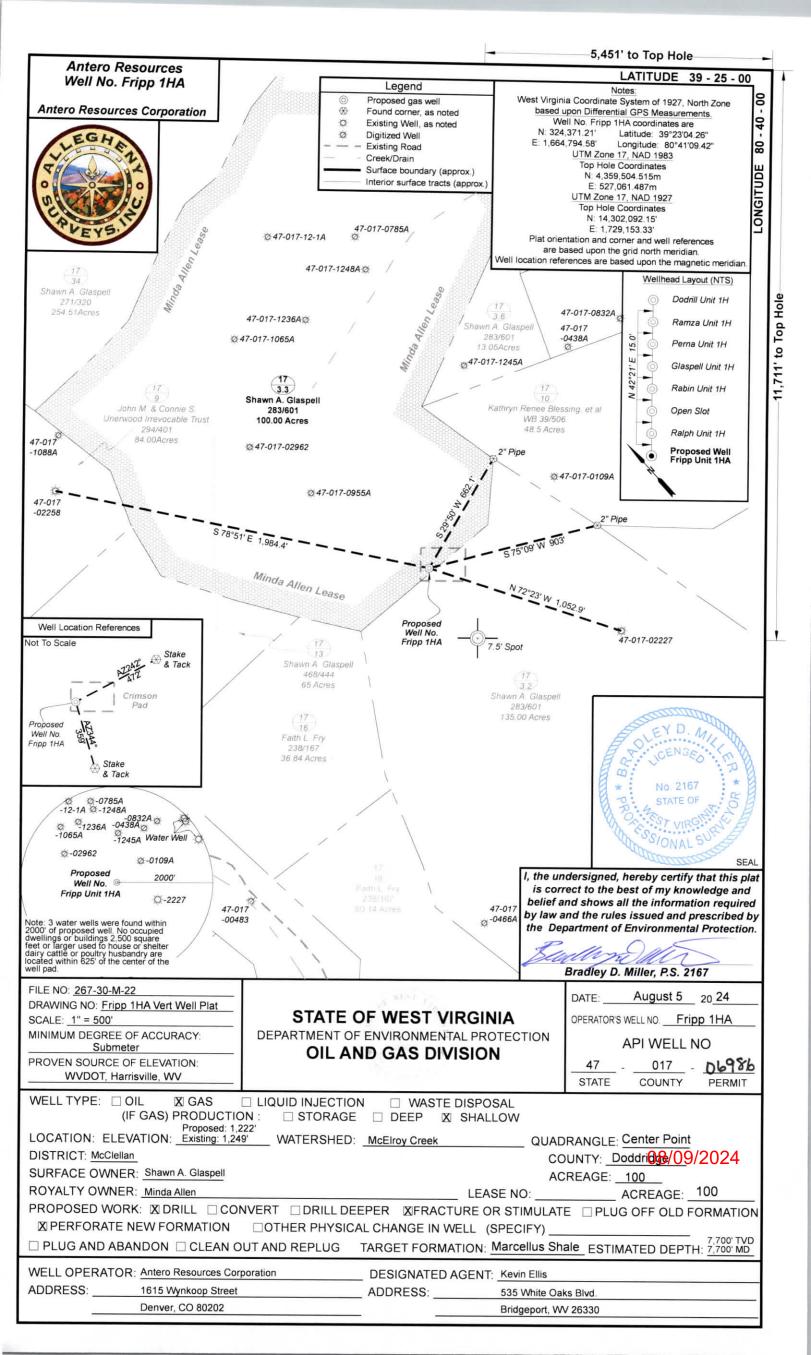
Operator's Well No. Fripp Unit 1H A

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

FI LIIDS/CULTINGS DISPOSATE	
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN Operator Name_Antero Resources Corporation	
Watershed (HUC 10) McElroy Creek OP Code 494507062	
(Niadrangle Conter Point 7 5)	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes Will a pit be used? Yes No	No
If so, please describe anticipated pit waste: No pit will be used at this site (Oriting and Flowbook Fluids will be stored in tanks. Cuttings w	III be tarked and having of an .
Will a synthetic liner be used in the pit? Yes No ✓ If so, what ml? N/A	ar sae.)
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form Reuse (at API Number Figure 2017)	1 WR-34
Reuse (at API Number Future permitted well locations when applicable. API# will be provided on F Off Site Disposal (Supply form WW-9 for disposal location(Meadowfill Landfill P Other (Explain	orm WR-34
Other (Explain Northwestern Landfill) WV0109410 Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and tak	Permit #SWF-1025/
Drilling medium anticipated for this well (vertical and beginned to a second t	estimater intermediate .
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	, Production - Water Based Mud
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed off	site and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # Wetzel Co Landfill (Permit #SWF-1021)	SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated vest Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee where it was properly disposed.	waste rejected at any
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection provisions of the permit are enforceable by law. Violations of any term or condition of the general permit law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information form and all attachments thereto and that, based on my inquiry of those individuals immediately information, I believe that the information is true, accurate, and complete. I am aware the penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Gretchen Kohler Company Official Title Director of Environmental & Regulatory Compliance	n. I understand that the and/or other applicable
The State of Emiliantal & Regulatory Compliance	
10	WV Department Environmental Pro
ubscribed and swom before me this 29 day of January 20 24	Ellanoration
Carely RayNe Marvel Notary Public	
fly commission expires $10-5-20210$	RLY RAYNE MARVE Notary Public
	State 008/09/20 tary ID a 08/09/20 mission Expires 10-05-

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the of many and		30	-
type of grees seed requested by surface owner	he attached Table IV-4A for addi	lotel seed type (Crimum Pad Dueign	-)
	or type of grass seed re	quested by surface owner	
vided). If water from the pit will be land applied, include dimension, of the land application area. tocopied section of involved 7.5' topographic sheet.			
Approved by:			
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			CEIVED Oil and (
		MAY	2 2 202
			epartment





WW-6A1
(5/13)

Operator's	Well	No.	Fripp	Unit 1HA
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
nda Allen Lease				
	Minda Allen	W. B. Allen	1/8	7/357
	W. B. Allen	South Penn Oil Company	Assignment	7/359
	South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
	Pennzoil Company	Pennzoil Products Company	Deed	203/621
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Deed	239/355
	Pennzoil Exploration and Production Company	Pennz Energy Exploration and Production LLC	Deed	240/702
	Pennz Energy Exploration and Production LLC	Devon Energy Production Company LP	Merger	244/399
	Devon Energy Production Company LP	East Resources Inc	Assignment	247/337
	East Resources Inc	East Resources Inc and HG Energy LLC	Assignment	253/31
	East Resources Inc and HG Energy LLC	American Energy Marcellus LLC	Assignment	361/1
	American Energy Marcellus LLC	Ascent Resources- Marcellus LLC	Name Change	36/455
	Ascent Resources- Marcellus LLC	Tribune Resources LLC, an Oklahoma LLC	Merger	431/260
	Tribune Resources LLC, an Oklahoma LLC	Antero Resources Corporation	Assignment	530/325

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

Office Of Oil and Gas

AIIG 7 2024

WV Unangent of tection

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:	Jared Hurst				
Its:	Vice President of Land				



August 1st, 2024

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

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

RE:

Fripp Unit 1HA

intonia Post

Quadrangle: Center Point 7.5'

Doddridge County/McLellan District, West Virginia

Mr. Martin:

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

Sincerely,

Antonia Booth Landman RECEIVED
Office of Oil and Gas

AUG 2 2024

WV Department of Environmental Protection Date of Notice Certification: 07/31/2024

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

API No. 47- 017

				Operator's	Well No. Fripe	Unit 1HA
** .				Well Pad I	Vame: Crimson	n Pad
Notice has I Pursuant to the below for the	been given: ne provisions in West Virginia Cod tract of land as follows:	de § 22-6A, the	Operator has pro	vided the rec	quired parties v	with the Notice Forms listed
State:	West Virginia		710m / 17 / m	Easting:	527061.49m	
County:	Doddridge		UTM NAD 83	Northing:	4359504.51m	
District:	McLettan		Public Road Acc	_	Riggins Run	
	Quadrangle: Center Point 7.5'			arm name:	Shawn A. Glaspe	oli lie
Watershed:	McElroy Creek					
it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b the secretary, shall be verified and ed the owners of the surface desc equired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applicant	d shall contain cribed in subdi , section sixteer survey pursua n of this article ill tender proof	the following info ivisions (1), (2) a n of this article; (in ant to subsection (in the were waived in	ormation: (1- and (4), sub- i) that the re (a), section writing by	 A certification (b), security section (b), security s	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher: and Pursuant to West
Pursuant to that the Ope	West Virginia Code § 22-6A, the crator has properly served the requi	Operator has at ired parties wit	ttached proof to the the the following:	his Notice C	ertification	
*PLEASE CHI	ECK ALL THAT APPLY					OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY		CE NOT REQUIF ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SU	RVEY or 🔳 1	NO PLAT SURV	EY WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL 0	NOTICE C	CE NOT REQUIF OF ENTRY FOR I IDUCTED or			RECEIVED/ NOT REQUIRED
			TTEN WAIVER I EASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	N				RECEIVED
■ 5. PUB	BLIC NOTICE					12 RECEIVED
■ 6 NO	TICE OF APPLICATION					PECEIVED

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 affidaviator perfection service, the return receipt card or other postal receipt for certified mailing.

AUG 2 2024

Certification of Notice is hereby given:

THEREFORE, I Tom Waltz , 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

By: Tom Waltz

Its: Vice President of Completions

Telephone: 303-357-6705

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7373

Email: cmarvel@anteroresources.com

CARLY RAYNE MARVEL
Notary Public
State of Colorado
Notary ID # 20224038743
My Commission Expires 10-05-2026

Subscribed and sworn before me this 31 day of JULY 2024.

CARU RAUNE MARKET Notary Public

My Commission Expires 10-5-21

Oil and Gas Privacy Notice:

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

WW-6A (9-13) API NO. 7. 0 1.7 0 6 9 8 6
OPERATOR WELL NO. Fripp Unit 1HA

Well Pad Name: Crimson Pad

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

Noti	ice Time Requireme	ent: notice shall be provide	ed no later th	an the filing date of permit application.	
	e of Notice: <u>5/7/2</u> 024	Date Permit Application	on Filed: 8/1/	2024	
Noti	ice of:				
7	PERMIT FOR AN'	Y D CERTIFIC	ATE OF AP	PROVAL FOR THE	
_	WELL WORK			AN IMPOUNDMENT OR PIT	
Dali		ant to West Virginia Cod		·	
	very memou pursu	mer to Arest A ti Stitte Con	ie 8 22-014-10	n(v)	
	PERSONAL	☐ REGISTERED	☑ METH	OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECE	IPT OR SIGNATURE CONFIRMATION	
opera more well impo have prop subs recor prov Code	ator or lessee, in the est coal seams; (4) The work, if the surface to bundment or pit as dest a water well, spring of ide water for consumposed well work activities of the sheriff requision of this article to the R. § 35-8-5.7.a required.	vent the tract of land on who were so frecord of the surfact is to be used for the placeribed in section nine of this water supply source located to be used for the place of	ich the well p face tract or tr cement, const is article; (5) a ed within one c animals; and more than thre ls, the applica ant to section n holder is not or shall also p	ant to subsection (c), section seven of this article; roposed to be drilled is located [sic] is known to lacts overlying the oil and gas leasehold being deviated, enlargement, alteration, repair, removal of Any surface owner or water purveyor who is known thousand five hundred feet of the center of the wild (6) The operator of any natural gas storage field be tenants in common or other co-owners of interest may serve the documents required upon the pereight, article one, chapter eleven-a of this code. (2) in notice to a landowner, unless the lien holder is the provide the Well Site Safety Plan ("WSSP") to the as provided in section 15 of this rule.	be underlain by one or reloped by the proposed or abandonment of any wn to the applicant to rell pad which is used to within which the ests described in rson described in the 2) Notwithstanding any the landowner. W. Va.
		•	_	■ Well Plat Notice is hereby provided to:	
a S€	JRFACE OWNER(s)		COAL OWNER OR LESSEE	
	C: Shawn A. Glaspell			Name: NO DECLARATIONS ON RECORD WITH COUNT	Υ
	ress: 5512 Riggins Run			Address:	
Nam	Union, WV 26456			- COAL OPERATOR	RECEIVED
	ress:			COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNT	Office of Oil
nuu	1688.				
¬SI	IRFACE OWNER(s	(Road and/or Other Distu	irhance)	Address:	AUG 2 2024
	• •	, (1000 112 01 0 1101 2 1010		■ WATER PURVEYOR(s)/OWNER(s) OF WATER W	
Add	ress:			SPRING OR OTHER WATER SUPPLY SOURCE	WV Department of
				Name: NONE WITHIN 1500	Environmental Protection
Nam				Address:	
Add	ress:				
				OPERATOR OF ANY NATURAL GAS S	TORAGE FIELD
		(Impoundments or Pits)		Name:	
Nam	e:			Address:	
Addı	ress:				
				*Please attach additional forms if necessary	

WW-6A (8-13)

701706986

OPERATOR WELL NO. Fripp Unit 1HA

Well Pad Name: Crimson 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 well Office of Oil and Go 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 2024 Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil and-gas/pages/default.aspx. WV Department of Environmental Protection

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. Fripp Unit 1HA

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

Chief. Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304

AUG 2 2024

WV Department of

(304) 926-0450

Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) API NO. 47- 017

OPERATOR WELL NO. Fripp Unit 1HA

Well Pad Name: Crimson Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas

AUG 9 0004

WW-6A (8-13)

4701706986

OPERATOR WELL NO. Fripp Unit 1HA

Well Pad Name: Crimson Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7373

Email: cmarvel@anteroresources.com

Address: 1615 Wynkoop Street

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 deepprivacyofficer@wv.gov.

CARLY RAYNE MARVEL
Notary Public
State of Colorado
Notary ID # 20224038743
My Commission Expires 10-05-2026

Subscribed and sworn before me this 31 day of UUIII 2074.

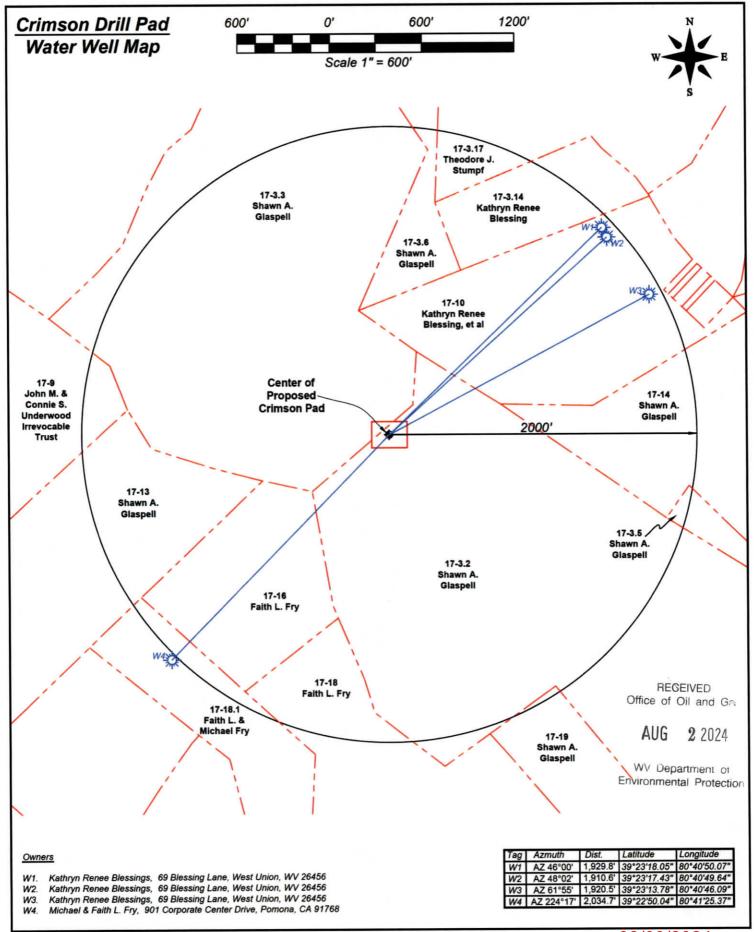
COULD ROYNE MORULI Notary Public

My Commission Expires 10-5-210

RECEIVED
Office of Oil and Gas

AUG 2 2024

Environmental Protection



WW-6A4 (1/12) Operator Well No. Fripp Unit 1HA

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

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

Notice Time Date of Notice	Requirement: Notice shall be provided at le ce: 09/12/2023 Date Permi	east TEN (10) days prior to filing a it Application Filed: 08/01/2024	permit application.
Delivery me	thod pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVI	ERY RETURN RECEIPT REQU	ESTED	
receipt reque drilling a hor of this subsec- subsection m	W. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner rizontal well: <i>Provided</i> , That notice given put on as of the date the notice was provided to may be waived in writing by the surface owner ole, facsimile number and electronic mail add	rnotice of its intent to enter upon to ursuant to subsection (a), section to to the surface owner: <i>Provided</i> , how r. The notice, if required, shall inc	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,
Notice is he	ereby provided to the SURFACE OWN	VER(s):	RECEIVED
Name: Shawn	A. Glaspell	Name:	Office of Oil and Gas
Address: 551		Address:	
West Union, WV	/ 26456	-	AUG 2 2024
Notice is he		1 1	WV Department of
Pursuant to V the surface of State: County:	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz West Virginia Doddridge	zontal well on the tract of land as for UTM NAD 83 Easting: Northing:	l well operator has an wintem dotenter upon ollows: 527061.49m 4359504.51m
Pursuant to V the surface o State: County: District:	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz West Virginia Doddridge McLellan	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access:	l well operator has वसि vintem dot en tero भारता follows: 527061.49m
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nu related to ho	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz West Virginia Doddridge McLellan	contal well on the tract of land as for the contal well on the tract of land as for the contact of land as for land as for the contact of land as for lan	l well operator has an vintent dot enteroupon ollows: 527061.49m 4359504.51m Riggins Run Shawn A. Glaspell dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nu related to ho located at 60 Notice is he	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz West Virginia Doddridge McLellan Center Point 7.5' McElroy Creek e Shall Include: West Virginia Code § 22-6A-16(b), this not mber and electronic mail address of the operizontal drilling may be obtained from the Sol 57th Street, SE, Charleston, WV 25304 (30 ereby given by:	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: cotice shall include the name, adderator and the operator's authorize Secretary, at the WV Department of 14-926-0450) or by visiting www.d	l well operator has an wintent dot enteroupon ollows: 527061.49m 4359504.51m Riggins Run Shawn A. Glaspell dress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nu related to ho located at 60 Notice is he Well Operate	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz West Virginia Doddridge McLellan Center Point 7.5' McElroy Creek e Shall Include: West Virginia Code § 22-6A-16(b), this not mber and electronic mail address of the operizontal drilling may be obtained from the Sol 57th Street, SE, Charleston, WV 25304 (30 ereby given by:	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: otice shall include the name, adderator and the operator's authorized representative Authorized Representative	l well operator has an wintent dot enteroupon ollows: 527061.49m 4359504.51m Riggins Run Shawn A. Glaspell dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V the surface o State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nu related to ho located at 60 Notice is he	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz West Virginia Doddridge McLellan	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: cotice shall include the name, adderator and the operator's authorize Secretary, at the WV Department of 14-926-0450) or by visiting www.d	l well operator has an wintent dot enteroupper ollows: 527061.49m 4359504.51m Riggins Run Shawn A. Glaspell dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx. Hallory Turco 1615 Wynkoop St.
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Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operate Address: Telephone:	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a horiz West Virginia Doddridge McLellan	contal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: Dotice shall include the name, adderator and the operator's authorized Secretary, at the WV Department of 14-926-0450) or by visiting www.d Authorized Representative Address: Telephone:	l well operator has an wintent dot enteroupper ollows: 527061.49m 4359504.51m Riggins Run Shawn A. Glaspell dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx. Hallory Turco 1615 Wynkoop St.
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WW-6A5 (1/12)

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

	e Time Re of Notice:	quirement: notice shall be provided no 05/07/2024 Date Permit Ap	o later than the filing opplication Filed: 08/01	date of permit a	application.
Deliv	ery metho	d pursuant to West Virginia Code § 2	22-6A-16(c)		
	CERTIFIE RETURN	ED MAIL	HAND DELIVERY		
return the p required drillind dama	n receipt receipt receipt red to be pring of a horages to the she notices in	quested or hand delivery, give the surfaration. The notice required by this survivided by subsection (b), section ten orizontal well; and (3) A proposed surface affected by oil and gas operation	ace owner whose land ubsection shall include f this article to a surfa- ace use and compens- ins to the extent the da	will be used for le: (1) A copy of the cowner whose ation agreement mages are comp	eation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information with the transportation of compensation for pensable under article six-b of this chapter. It the transportation of the sheriff at the time records of the sheriff at the time records of Oil and Gass
(at th Name Addr		gins Run	time of notice): Name:	:	AUG 2 2024
Pursu opera State	ation on the	y given: at Virginia Code § 22-6A-16(c), notice is a surface owner's land for the purpose of lest Virginia		l well on the trac Easting:	ct of land as follows: 4359504.51m
Coun		oddridge		Northing:	527061.49m
Distr	_	IcLellan	Public Road A Generally use		Riggins Run Shawn A. Glaspell
-	_	enter Point 7.5'	Generally use	d farm name:	Snawn A. Giaspeil
Pursu to be horiz surfa infor head	e provided contal well; ce affected mation rela	by W. Va. Code § 22-6A-10(b) to a and (3) A proposed surface use and comby oil and gas operations to the extended to horizontal drilling may be obtained at 601 57th Street, SE, Charles	surface owner whose ompensation agreement the damages are considered from the Secret	land will be un nt containing an empensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four
Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

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

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

January 30, 2024

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 Crimson Well Pad, Doddridge County Fripp Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2022-0309 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Doddridge County Route 5 SLS MP 10.219.

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,

Stephen G. Johnson, P.E. Director of Operations

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Office of Oil and Gas

AUG 2 2024

WV Department of Environmental Protection

Cc: Carly Marvel Antero Resources OM, D-4

File

List of Anticipated Additives Used for Fracturing of 9 8 ^ Stimulating Well

A 1 1111	Chemical Abstract Service Number
Additives	(CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7 Envir
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamthylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

fice of Oil and Gar

Department of mental Protection

OPERATOR: Antero	Resources Corp.	WELL NO: Fripp Unit 1H.	Α
PAD NAME: Crimsor	Pad		
REVIEWED BY: Mallo	y Turco	SIGNATURE: May	Tun
	WELL RESTRICTIO	ONS CHECKLIST	RECEIVED Office of Oil and Gas
	HORIZONTAL	6A WELL	AUG 2 2024
Well Restrictions			Protection
Perennial DE	Stream, Lake, Pond, Reservoir P Waiver and Permit Condition		
Naturally DE At Least 1 Groundwa	Producing Trout Stream; OR P Waiver and Permit Condition 000 Feet from Pad and LOD (iter Intake or Public Water Sup	ns including any E&S Control Fe oply; OR	
		ons er Well or Developed Spring to	Well Being
	rface Owner Waiver and Reco		
At Least 6	25 Feet from an Occupied Dw	elling Structure to Center of th	e Pad; OR
Su	rface Owner Waiver and Reco	rded with County Clerk, OR	
DE	EP Variance and Permit Condit	tions	
At Least 6 of the Pad	_	ldings Larger than 2500 Square	e Feet to the Center
Su	rface Owner Waiver and Reco	rded with County Clerk, OR	
DE	D Variance and Permit Condit	tions	