

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, January 24, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for MAYFIELD 5V

47-095-02877-00-00

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: MAYFIELD 5V

Farm Name: RICHARD D BOOHER ET AL

U.S. WELL NUMBER: 47-095-02877-00-00

Horizontal 6A New Drill

Date Issued: 1/24/2024

API Number:	4709502877

PERMIT CONDITIONS

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

CONDITIONS

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

API NO. 47- 095 - 02877

OPERATOR WELL NO. Mayfield Unit 5V

Well Pad Name: Mayfield Pad

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

) Well Operator: Antero F	Resources Corpora	494507062	095 - Tyler	Lincoln	Paden City 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Mayfield Unit 5V	Well P	ad Name: Mayf	ield Pad	
s) Farm Name/Surface Own	er: Richard D. Boohe	r, et al Public Ro	oad Access: Vet	terans Hwy	У
) Elevation, current ground	: 874' El	evation, propose	d post-construct	ion: 864'	
5) Well Type (a) Gas	Oil _	Un	derground Stora	ge	
-	Shallow X	Deep			
	Horizontal X		-		-
6) Existing Pad: Yes or No	No		_		
7) Proposed Target Formation Marcellus Shale: 6700' TV	• • •	_	_		
3) Proposed Total Vertical I	Depth: 6700' TVD				
) Formation at Total Vertice	cal Depth: Marcellu	s			
10) Proposed Total Measure	ed Depth: 6700' MI)			
11) Proposed Horizontal Le	g Length: 0'				
12) Approximate Fresh War	ter Strata Depths:	384'			
13) Method to Determine F	resh Water Depths:	From 47095002	2770000		
14) Approximate Saltwater	Depths: 1736'				
15) Approximate Coal Sear	n Depths: N/A				
16) Approximate Depth to 1	Possible Void (coal n	nine, karst, other)	: Yes		
17) Does Proposed well loc directly overlying or adjace			N	o X	4/100
(a) If Yes, provide Mine I	nfo: Name:				
	Depth:				
	Seam:		В	ECEIVED	Gas
	Owner:		Office	of Co.	
			AL	N 2 4 73	74

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Econominental Projection

OPERATOR WELL NO. Mayfield Unit 6V
Well Pad Name: Mayfield Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	434'	434'	CTS, 452 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#	6700'	6700'	761 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-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	Office of Oil and Gas
		Office of Oil

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02877 API NO. 47- 095

OPERATOR WELL NO. Mayfield Unit 5V Well Pad Name: Mayfield Pad

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

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.77 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 7.98 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:

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Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

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

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25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

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API Number 47 - 095

Operator's Well No. Mayfield Unit 5V

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) Outlet Middle Island Creek	Quadrangle Paden City 7.5'
Do you anticipate using more than 5,000 bbls of water to complet	e the proposed well work? Yes No
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste: No pit will be used	at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	- WB24
Underground Injection (UIC Permit N	Wumber_*UIC Permit # will be provided on Form WR-34
Reuse (at API Number_Future permitted w	or disposal location (Meadowfill Landfill Permit #SWF-1032-98) Or disposal location (Meadowfill Landfill Permit #SWF-1035/
Other (Explain	Northwestern Landfill Permit #SWF-1025/
	WV0109410 Wetzel Co Landfill Permit #SWF-1021
Will closed loop system be used? If so, describe: Yes, fluids stor	ed in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
	ffsite_efc Drill cuttings stored in tanks, removed offsite and taken to landfill.
Drill cuttings disposal method? Leave in pit, landfill, removed o	
-If left in pit and plan to solidify what medium will be u	fill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
-1 diluiii di diisite name permit mamori.	ill (Permit #SWF-1032)
Permittee shall provide written notice to the Office of Oil and Ga West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	s of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally	
	20 2.3
Subscribed and sworn before me this bud day of day of	, 20_03_
Dietan Gaspar	Notary Public STEFAN GASPAR
Subscribed and sworn before me this 20 day of 5 Stefan 6.13 par My commission expires November 15	NOTARY PUBLIC STATE OF STATE O

Form WW-9 Operator's Well No. Mayfield Unit 5V Antero Resources Corporation Proposed Revegetation Treatment: Acres Disturbed 18.77 acres Prevegetation pH Tons/acre or to correct to pH 6.5 Fertilizer type Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Access Road 'A' (5.17 acres) + Well Pad (7.98 acres) + Water Containment Pad (2.12 acres) + Excess/Topsoil Material Stockpiles (3.50 acres) = 18.77 Acres Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre 40 **Annual Ryegrass** Crownvetch 10-15 Field Bromegrass 40 Tall Fescue / Rygrass See attached Table IV-3 for additional seed type (Mayfield Pad Design) See attached Table IV-4A for additional seed type (Mayfield Pad Design) *or type of grass seed requested by surface owner *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by RECEIVED. Office of JAN 2 4 7024 Environmental Protection



911 Address 3863 Veterans Hwy, New Martinsville, WV 26155

Well Site Safety Plan Antero Resources

Well Name: Mayfield Unit 5V

Pad Location: Mayfield Pad

Tyler County/Lincoln District

GPS Coordinates:

Entrance - Lat 39.579430 /Long -80.897642 (NAD83)
Pad Center - Lat 39.581257 /Long -80.901212 (NAD83)

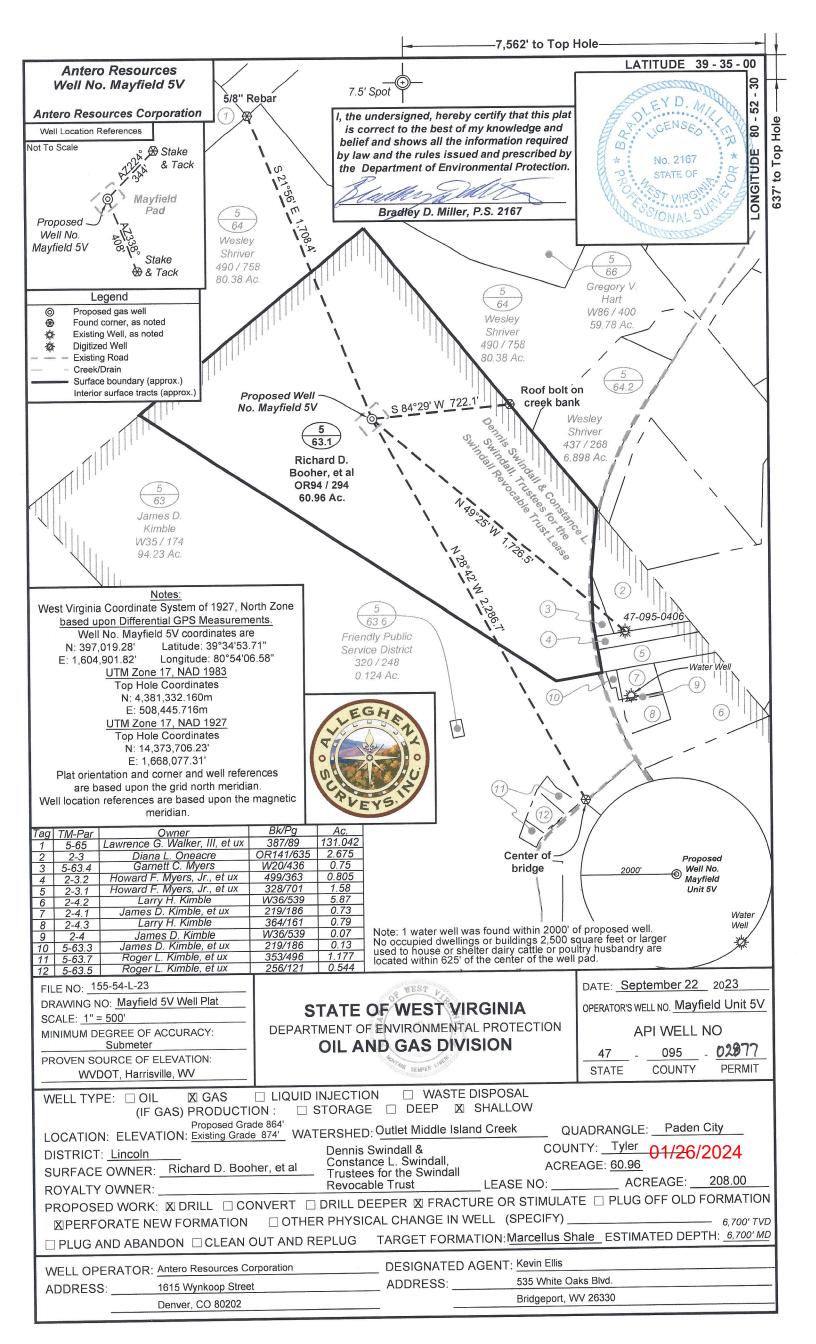
Driving Directions:

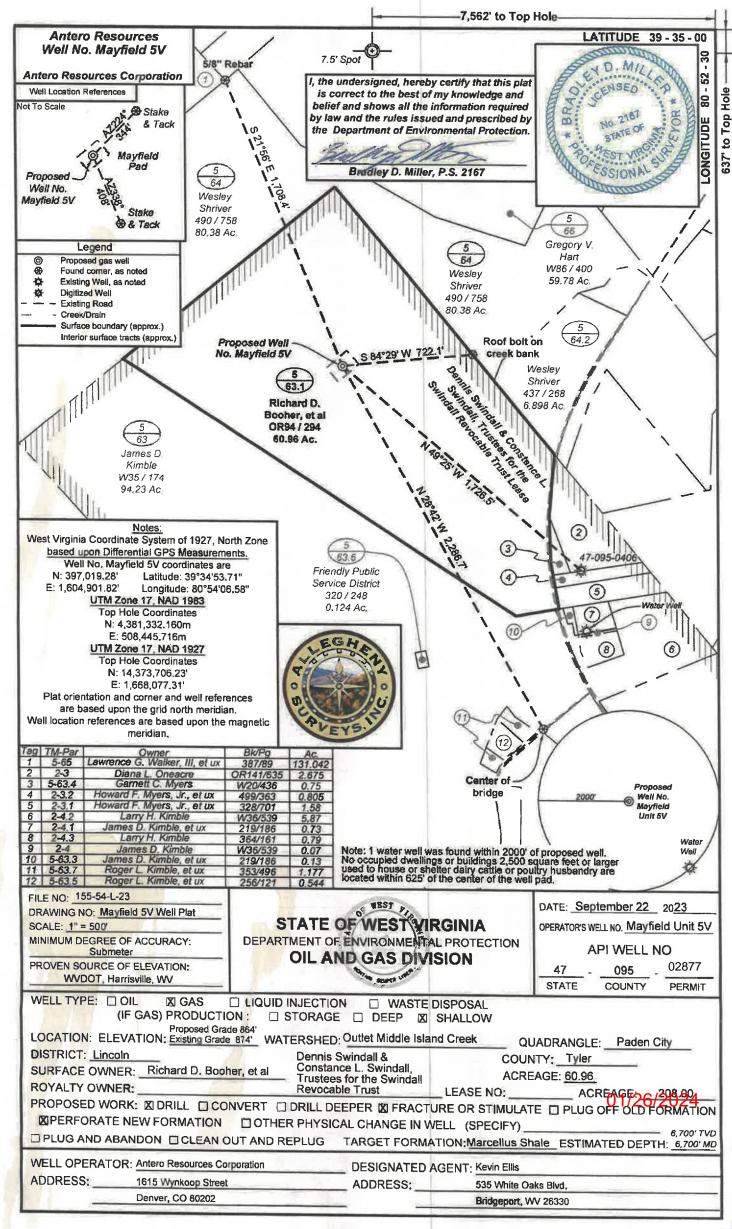
1. From WV-180, turn west onto the lease road

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

1







Operator's Well No. Mayfield Unit 5V

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
Dennis Swindall & Constance L. Swindal Trustees for the Swindall Revocable Tru				
	Dennis Swindall & Constance L. Swindall, Trustees for the Swindall Revocable Trust	Back Country Exploration LLC	1/8+	0387/0501
	Back Country Exploration LLC	Triad Hunter LLC	Conveyance	0338/0234
	Triad Hunter LLC	Antero Resources Corporation	Assignment	0496/0776

^{*}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.

**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.

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:

RECEIVED Office of Oil and Gas**

- 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

DEC 2 1 2023

WV Department of Environmental Protection

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

Well Operator: Antero Resources Corporation

By: Tim Rady

Senior Vice President of Land

^{*}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.



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

December 19, 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:

Mayfield Unit 5V

Quadrangle: Paden City 7.5'

Tyler County/Lincoln District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Mayfield Unit 5V 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 Mayfield Unit 5V horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Thomas Kuhn Staff Landman RECEIVED
Office of Oil and Gas

DEC 2 1 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

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: Tyler Star N	lews			
	12/6/2023-12/13/2023			
The following appli surface excluding point any thirty day period	ipelines, gathering lines and	horizontal natu roads or utili	zes more man	permit which disturbs three acres or more of two hundred ten thousand gallons of water in
A . (Description Corporation		Well Num	ber: Mayfield Unit 5V
Applicant: Antero	Resources Corporation		WCII I (dili	DOI:
	nkoop St. Denver, CO 8020			
Business Conducto	ed: Natural gas production	•		
Location –				
State:	West Virginia		County:	Tyler
District:	Lincoln		Quadrangle:	Paden City 7.5'
		4381332.160m		
UTM Coordinate NAD83 Northing: UTM coordinate NAD83 Easting:		508445.716m		
UTM coo	300443.7 10111			
Watershe	d: Outlet Middle Island Creek			

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php RECEIVED

Office of Oil and Gas **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:

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

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: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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

	42/40/2023		API No. 47	- 095 -			
Date of Notice	e Certification: 12/19/2023		Operator's Well No. Mayfield Unit 5V				
				Well Pad Name: Mayfield Pad			
Notice has b	e provisions in West Virginia Code	§ 22-6A, the Operator has prov	ided the req	uired parties wi	th the Notice Forms listed		
below for the State:	tract of land as follows: West Virginia	UTM NAD 83	Easting:	508445.716m			
County:	Tyler		Northing:	4381332.106m			
District:	Lincoln	Public Road Acce		Veterans Hwy			
Quadrangle:	Paden City 7.5'	Generally used fa	arm name:	Richard D. Booher	, et al		
Watershed:	Outlet Middle Island Creek						
it has provide information re of giving the requirements Virginia Cod of this article	West Virginia Code § 22-6A-7(b), a the secretary, shall be verified and seed the owners of the surface described and complete the owner notice of entry to see surface owner notice of entry to see § 22-6A-11(b), the applicant shall have been completed by the application.	section sixteen of this article; (increase pursuant to subsection of this article were waived in tender proof of and certify to that.	i) that the re (a), section writing by the secretary	quirement was of ten of this artic the surface ow that the notice	deemed satisfied as a result le six-a; or (iii) the notice ner: and Pursuant to West		
that the Ope	West Virginia Code § 22-6A, the Cerator has properly served the require	Operator has attached proof to red parties with the following:	this Notice C	Certification	OOG OFFICE USE ONLY		
	TICE OF SEISMIC ACTIVITY 0	n I NOTICE NOT REQUI	RED BECA S CONDUC	USE NO CTED	RECEIVED/ NOT REQUIRED		
☐ 2. NO	OTICE OF ENTRY FOR PLAT SUR	RVEY or 🔳 NO PLAT SURV	VEY WAS C	CONDUCTED	☐ RECEIVED		
■ 3. NC	OTICE OF INTENT TO DRILL 0	nOTICE NOT REQUINOTICE OF ENTRY FOR WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED		
	*	☐ WRITTEN WAIVER (PLEASE ATTACH		ACE OWNER			
■ 4. NO	OTICE OF PLANNED OPERATION	N	RECE Office of O	IVED	RECEIVED		
■ 5. PU	JBLIC NOTICE		DEC 2		RECEIVED		
■ 6. NO	OTICE OF APPLICATION		WV Depar Environmenta	thient of	☐ RECEIVED		

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. 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:

above, to the rec signature confirm in this Notice C	as required under West Virginia Cod quired parties through personal service nation. I certify under penalty of law the	e § 22-6A, e, by regist nat I have p that based	ered mail of ersonally ed on my in	
777 11 O	Antero Resources Corporation	A	Address:	1615 Wynkoop Street
Well Operator:	100 ///	OIA		Denver, CO 80202
By:	Jon McEvers	F	acsimile:	303-357-7315
Its:	SVP of Operations		Email:	mturco@anteroresources.com
Telephone:	303-357-7310		Zillali.	Thursday and the same and the s
CAI	NOTARY SEAL RLY RAYNE MARVEL Notary Public State of Colorado tary ID # 20224038743 nmission Expires 10-05-2026	<u>Cav</u>	ed and swo	orn before me this 8 day of Dec, 2023. Notary Public Repires 10-5-20210

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.

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DEC 2 1 2023

WV Department of Environmental Protection

API NO. 47- 095 OPERATOR WELL NO. Mayfield Unit 5V
Well Pad Name: Mayfield Pad

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

Noti	ce Time Requireme	ent: notice shall be provide	ed no later than the filing date of permit application.	
	of Notice: <u>12/20/2023</u> ce of:	Date Permit Application		
V	PERMIT FOR AN WELL WORK	CONSTRU	ATE OF APPROVAL FOR THE UCTION OF AN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virginia Coo		
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	and work or for a
certiregi sedi the oil a descope more well implement of processing processing processing control of the control	ificate of approval for stered mail or by any ment control plan rec- surface of the tract or and gas leasehold bei- cribed in the erosion rator or lessee, in the re coal seams; (4) The l work, if the surface coundment or pit as do re a water well, spring vide water for consu- posed well work acti- besection (b) of this se- ovision of the sheriff re- ovision of this article de R. § 35-8-5.7.a re- ter purveyor or surfa-	method of delivery that required by section seven of the which the well is or is propagated by the proposed and sediment control plans are event the tract of land on we expected by the proposed by the proposed by the proposed by the tract is to be used for the plan of the proposed by the proposed by the proposed by tract is to be used for the plan of the proposed by the proposed	the filing date of the application, the applicant for a permit for oundment or pit as required by this article shall deliver, by personatives a receipt or signature confirmation, copies of the application at the well plat to each of the following persons: (1) posed to be located; (2) The owners of record of the surface traced well work, if the surface tract is to be used for roads or other ubmitted pursuant to subsection (c), section seven of this article which the well proposed to be drilled is located [sic] is known to a frace tract or tracts overlying the oil and gas leasehold being deviacement, construction, enlargement, alteration, repair, removal and this article; (5) Any surface owner or water purveyor who is knowned within one thousand five hundred feet of the center of the vestic animals; and (6) The operator of any natural gas storage field of more than three tenants in common or other co-owners of integrations, the applicant may serve the documents required upon the posuant to section eight, article one, chapter eleven-a of this code. ien holder is not notice to a landowner, unless the lien holder is rator shall also provide the Well Site Safety Plan ("WSSP") to the notice to a section 15 of this rule.	The owners of record of tor tracts overlying the land disturbance as (3) The coal owner, be underlain by one or reloped by the proposed or abandonment of any wn to the applicant to well pad which is used to divide within which the rests described in the (2) Notwithstanding any the landowner. W. Va. he surface owner and any
V	Application Notice	e 🛮 WSSP Notice 💆 E&	&S Plan Notice	DEC 9 1 2000
N	SURFACE OWNER ame: PLEASE SEE ATTA ddress:	ACHMENT	COAL OWNER OR LESSEE Name: No declarations on record with cou Address:	NHYVIronment of Protection
A	ddress:		Address:	INTY
N A	ame:ddress:	R(s) (Road and/or Other D	AND/OR WATER PURVEYOR(s) Name: NONE WITHIN 1500' Address:	
Α	ddress:	The state of Di	OPERATOR OF ANY NATURAL GAS	S STORAGE FIELD
N	lame:	R(s) (Impoundments or Pi	Address:	
F	Address:		*Please attach additional forms if necessar	У

OPERATOR WELL NO. Mayfield Unit 5V Well Pad Name: Mayfield Pad

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

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

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

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

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject 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 Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department Www.dep.wv.gov/oil-Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-protection headquarters, located at 601 57th Street, www.dep.wv.gov/oil-protection headquarters, located at and-gas/pages/default.aspx. DEC 2 1 202

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

API NO. 47-095 OPERATOR WELL NO. Mayfield Unit 5V

Well Pad Name: Mayfield 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.

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.

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

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

DEC 2 1 2023

WV Department of Environmental Protection

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

API NO. 47- 095

OPERATOR WELL NO. Mayfield Unit 5V

Well Pad Name: Mayfield 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.

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.

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

DEC 2 1 2023

WV Department of Environmental Protection

OPERATOR WELL NO. Mayfield Unit 5V Well Pad Name: Mayfield Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Telephone:

mturco@anteroresources.com Email:

Denver, CO 80202 Facsimile: 303-357-7315

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

CARLY RAYNE MARVEL **Notary Public** State of Colorado Notary ID # 20224038743 My Commission Expires 10-05-2026 Subscribed and sworn before me this 18 day of Dec. 2023. Notary Public

My Commission Expires

RECEIVED Office of Oil and Gas

DEC 2 1 2023

WV Department of Environmental Protection

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.

6A-10(a) have NOT	been met or if the Notice of Intent to Bin	Troquitoni	
Notice Time Requi Date of Notice: 12/0	irement: Notice shall be provided at least on Date Permit A	TEN (10) days prior to filing a populication Filed: 12/20/2023	ermit application.
Delivery method p	oursuant to West Virginia Code § 22-6A-	-16(b)	
HAND DELIVERY	CERTIFIED MAIL RETURN RECEIPT REQUES		on operator shall, by certified mail return
drilling a horizonta of this subsection a subsection may be and if available, fa	Code § 22-6A-16(b), at least ten days prior hand delivery, give the surface owner no all well: <i>Provided</i> , That notice given pursuas of the date the notice was provided to the waived in writing by the surface owner. The committee is a committee of the decimal and the surface owner are similar number and electronic mail address	nant to subsection (a), section terms are surface owner: <i>Provided, how.</i> The notice, if required, shall includes of the operator and the operator	ever, That the notice requirements of this address, telephone number,
Notice is hereby	y provided to the SURFACE OWNE	R(s):	
Name: PLEASE SEE	ATTACHMENT	Name:	
Address:		Address:	
State: We County: Tyl District: Lin Quadrangle: Pa Watershed: Ou	ncoln Iden City 7.5' Itlet Middle Island Creek	Public Road Access: Generally used farm name:	Veterans Hwy Richard D. Booher, et al. 2023 Environmental From of
faccimile numbe	er and electronic man address of the open	A TYTE I Amount	ress, telephone number, and if available, zed representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is herel	by given by:	Authorized Representative	e: Mallory Turco
Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop St.
Address:	1615 Wynkoop St.		Denver, CO 80202
-	Denver, CO 80202	Telephone:	303-357-7310
Telephone:	303-357-7310	Email:	mturco@anteroresources.com
Email:	mturco@anteroresources.com	Facsimile:	303-357-7315
Facsimile:	303-357-7315		

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.

WW-6A5 (1/12)

Operator Well No. Mayfield Unit 5V

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

Notice Time Requ	nirement: notice shall be provided by 20/20/2023 Date Permit	no later than the filing dat Application Filed: 12/20/20:	e of permit ap	oplication. —
Delivery method j	pursuant to West Virginia Code {	§ 22-6A-16(c)		
RETURN R Pursuant to W. Vareturn receipt required to be prodrilling of a horized damages to the su (d) The notices reof notice. Notice is hereby (at the address lis Name: PLEASE SEE	MAIL ECEIPT REQUESTED a. Code § 22-6A-16(c), no later the sested or hand delivery, give the surface. The notice required by this vided by subsection (b), section terms and well; and (3) A proposed surface affected by oil and gas operate equired by this section shall be give provided to the SURFACE OWN ted in the records of the sheriff at the	HAND DELIVERY In the date for filing the reface owner whose land we subsection shall include: In of this article to a surface urface use and compensations to the extent the dame on to the surface owner at the time of notice): NER(s) The time of notice is the control of the surface owner at the time of notice is the control of the surface owner.	(1) A copy of cowner whose on agreement ages are competed address list	ation, an operator shall, by certified mail the drilling of a horizontal well notice of of this code section; (2) The information land will be used in conjunction with the containing an offer of compensation for ensable under article six-b of this chapter. The information the records of the sheriff at the time of Office of Office and Gas Environmental Protection
operation on the State: W. County: Ty District: Quadrangle: Page 1	r given: It Virginia Code § 22-6A-16(c), notice surface owner's land for the purposest Virginia It Vir	ice is hereby given that the use of drilling a horizontal UTM NAD 83 Public Road A Generally used	Easting: Northing: .ccess:	well operator has developed a planned ct of land as follows: 508445.716m 4381332.160m Veterans Hwy Richard D. Booher, et al
This Notice Sha Pursuant to Wes to be provided horizontal well; surface affected	and (3) A proposed surface use are the point of the point	nd compensation agreement extent the damages are co	mpensable un	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection or by visiting

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.

WW-6AW (1-12)

API NO. 47- 095 OPERATOR WELL NO. Mayfield Unit 5V Well Pad Name: Mayfield Pad

47095028

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.

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 person or by certified main, return receipt requested, with a copy of the most objection by all such persons, the secretary may control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may

Olluoi pian, n	any time			ECTION TONITON DOOR 2023
ssue the well	work permit at any time. VOLUNTARY STA	TEMENT C	F NO OBJ	ECTION INDONE
WW-6A and required, and the state: County: District: Quadrangle: Watershed:	, hereby state that I have received copies of attachments consisting of pages one (1) the well plat, all for proposed well work on the west Virginia Tyler Lincoln Paden City 7.5' Outlet Middle Island Creek that I have no objection to the planned work	ead the Instruction of a Notice of Apparough he tract of land as UTM NAD Public Road Generally use	ns to Persons Na plication, an App, including to solve the follows: 83	blication for a Well Work Permit on Form the erosion and sediment control plan, if 508445.716m 4381332.160m Veterans Hwy Richard D. Booher, et al I have no objection to a permit being
*Please check	k the box that applies		FOR EXECUT	TON BY A NATURAL PERSON
	CE OWNER		Signature:	
	CE OWNER (Road and/or Other Disturb	oance)	Print Name: Date:	
	CE OWNER (Impoundments/Pits)		FOR EXECUT	TION BY A CORPORATION, ETC.
	OWNER OR LESSEE		Company:	
□ COAL (OPERATOR		Its:	
□ WATE	R PURVEYOR			
	ATOR OF ANY NATURAL GAS STOR	AGE FIELD	Date:	

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager **District Four**

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

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

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

December 8, 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 Mayfield Well Pad, Tyler County Mayfield Unit 5V Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit 06-2023-0549 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off West Virginia Route 180 F, MP 3.70 in Tyler County.

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

WV Department of Environmental Protection

Cc: Stefan Gaspar **Antero Resources**

OM, D-6 File

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

FRACTURING/STIMULATING INTERVAL

Additive	Chemical Abstract Service Number (CAS #)
1. Fresh Water	7732-18-5
2. 2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3. Ammonium Persulfate	7727-54-0
4. Anionic copolymer	Proprietary
5. Anionic copolymer	Proprietary
The second secon	64742-48-9
BTEX Free Hydrotreated Heavy Naphtha Cellulase enzyme	(Proprietary)
8. Demulsifier Base	(Proprietary)
	Mixture
Ethoxylated alcohol blend Ethoxylated Nonylphenol	68412-54-4
11. Ethoxylated oleylamine	26635-93-8
12. Ethylene Glycol	107-21-1
13. Glycol Ethers	111-76-2
14. Guar gum	9000-30-0
15. Hydrogen Chloride	7647-01-0
16. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
17. Isopropyl alcohol	67-63-0
18. Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
19. Microparticle	Proprietary
20. Petroleum Distillates (BTEX Below Detect)	64742-47-8
	57-55-6
21. Polyacrylamide	107-19-7
22. Propagyi Alcohol	57-55-6
23. Propylene Glycol	14808-60-7
24. Quartz	7631-86-9
25. Sillica crystalline quartz	7647-14-5
26. Sodium Chloride	1310-73-2
27. Sodium Hydroxide	57-50-1
28. Sugar	68439-51-0
29. Surfactant	14808-60-7
30. Suspending agent (solid)	
31. Tar bases, quinolone derivs, benzyl chloride-quarternized	64742-96-7
32. Solvent Naptha, petroleum, heavy aliph	
33. Soybean Oil, Me ester	67784-80-9 52255-49-9
34. Copolymer of Maleic and Acrylic Acid	
35. DETA Phosphonate	15827-60-8
36. Hexamythylene Triamine Penta	34690-00-1
37. Phosphino Carboxylic acid polymer	71050-62-9
38. Hexamethylene diamine penta	23605-74-5
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9
40. Hexamethylene diamine penta (methylene phosphonic	acid) 23605-74-5
41. Diethylene Glycol	111-46-6
42. Methenamine	100-97-0
43. Polyethylene polyamine	68603-67-8
44. Coco amine	61791-14-8
45. 2-Propyn-1-olcompound with methyloxirane	38172-91-7

WW-6A7 (6-12)

OPERATOR: Antero Resources	Corporatiœ WELL NO: Mayfield Unit 5V
PAD NAME: Mayfield Pad REVIEWED BY: Stefan Gaspar	SIGNATURE:

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restri	ctions
\checkmark	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
	DEP Waiver and Permit Conditions
\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
	DEP Waiver and Permit Conditions
\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
	DEP Waiver and Permit Conditions
\checkmark	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR Office of Oil and Gas
	Surface Owner Waiver and Recorded with County Clerk, OR DEC 2 1 2023
	DEP Variance and Permit Conditions WV Department of Environmental Projection
\checkmark	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions