

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, April 28, 2023 WELL WORK PLUGGING PERMIT Horizontal 6A Plugging

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for MIDGE UNIT 1H

47-095-02368-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

James A. Martin

Chief

Operator's Well Number:

Farm Name: ANTERO RESOURCES CORP

U.S. WELL NUMBER: 47-095-02368-00-00

Horizontal 6A Plugging

Date Issued: 4/28/2023

PERMIT CONDITIONS 4709502368

West Virginia Code § 22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date March 31	, 2023
2) Operator's	
Well No. Midge Unit 1H	
3) API Well No. 47-095	- 02368

STATE OF WEST VIRGINIA

		ONMENTAL PROTECTION DIL AND GAS
	APPLICATION FOR A PERM	HIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas x/ Liquid (If "Gas, Production or Und	erground storage/ Deep/ Shallowx
5)	Location: Elevation 1158' District Centerville & Meade	Watershed Outlet Middle Island Creek County Tyler Quadrangle Middlebourne & Shirley
	District Centervine & Weado	county 1910 Quadrangle
6)	Well Operator Antero Resources Corporation	7) Designated Agent Kevin Ellis
	Address 1615 Wynkoop Street Denver, CO 80202	Address 535 White Oaks Blvd Bridgeport, WV 26330
9		
8)	Oil and Gas Inspector to be notified Name Steve McCoy	Name N/A - Antero will plug well
	Address 601 57th Street SE	Address
	Charleston, WV 25304	
***	*Please See Attached Work Order	
	fication must be given to the district oi can commence.	l and gas inspector 24 hours before permitted
vork	order approved by inspector	Date 4/21/23

Antero

Antero Resources 1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7310 Fax: 303.357.7315

Midge Unit 1H Tyler County, WV API #47-095-02368

Objective: Plug and Abandon Conductor

Well Design:

20" OD Conductor, ID 19.124" @ 80' – Cemented to Surface

Oil and Gas Zones:

1. N/A

Procedure:

- 1. Notify WV DEP 24 hours prior to commencing work.
- 2. Hold JSA Pre Job Meeting.
- 3. MIRU cement services. Mix and pump Class A cement plug to surface.
 - a. 80' conductor- approximately 140 sacks @ yield of 1.15 ft³/sk
- 4. Install Monument Marker with API #47-095-02368



02368

WW-4A Revised 6-07

1) Date:	3/31/2023			
2) Operator	s Well Number			
Midge Unit 1H				
wildge Offic 14				

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

3) API Well No.: 47 -

(a) Name					
	Antero Resources Corpora	tion	Name		
Address	1615 Wynkoop St		Address		
	Denver, Co 80202				
(b) Name			(b) Coal Owner(s) with Declar	ration
Address			Name		
			Address		
(c) Name			Name		
Address			Address		
Address					
3) Inspector	Steve McCoy		(c) Coal Lessee v	ith Declarat	ion
Address	601 57th Street SE		Name		
	Charleston, WV 25304		Address		
Telephone	681-344-3265				
Protection the Appli	nying documents for a permit to a, with respect to the well at the	plug and abandon location described mailed by register	a well with the Chief of the Offic d on the attached Application and red or certified mail or delivered	e of Oil and Gas, V depicted on the att	or has filed this Notice and Application and West Virginia Department of Environmental ached Form WW-6. Copies of this Notice, rson(s) named above (or by publication in
Protection the Appli	nying documents for a permit to n, with respect to the well at the cation, and the plat have been	plug and abandon location described mailed by register	a well with the Chief of the Offic d on the attached Application and red or certified mail or delivered	e of Oil and Gas, V depicted on the att	Vest Virginia Department of Environmental ached Form WW-6. Copies of this Notice,
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accompar Protection the Appli certain cir	nying documents for a permit to n, with respect to the well at the cation, and the plat have been recumstances) on or before the did to sworn before me this	plug and abandon location described mailed by register ay of mailing or del Well Operato By: Its: Address Telephone	a well with the Chief of the Office on the attached Application and red or certified mail or delivered livery to the Chief. Antero Resources Corporation Jon McEvers Senior VP of Operations 1615 Wynkoop Street Denver, CO 80202 303-357-7310 day of MACCA	2023 Notary Pr	West Virginia Department of Environmental ached Form WW-6. Copies of this Notice, rson(s) named above (or by publication in
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The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

SURFACE OWNER WAIVER

Operator's Well Number

Midge Unit 1H

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) 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.

Comments must be in writing. Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following

1) The proposed well work will constitute a hazard to the safety of persons.

2) The soil erosion and sediment control plan is not adequate or effective;

3) Damage would occur to publicly owned lands or resources;

4) The proposed well work fails to protect fresh water sources or supplies;

5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

allow where are the transfer				a sairey plac.
I further state that I have no objection to a permit being issued on the		the planned w	work described in the	se materials, and I have no
FOR EXECUTION BY A NATURAL PLETC.	ERSON		FOR EXECUT	TON BY A CORPORATION,
Signature	_ Date	Name	/	
9		By Its	Serier 12 of	Operations Date 4/25/23
			Signature	Date

04/28/2023

WW-9 (5/16)

API Number	47 -	095	_02368
Operator's W	ell No).	Midge Unit 1H

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

FLUIDS/ CUTTINGS DISPOSAL	
Operator Name Antero Resources Corporation	OP Code 494507062
	uadrangle Middlebourne & Shirley
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:	_
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Reuse (at API Number Future permitted well loca Off Site Disposal (Supply form WW-9 for Other (Explain	er *UIC Permit # will be provided on Form WR-34 itions when applicable. API# will be provided on Form WR-34 disposal location) #SWF-1032-98 Northwestern Landfill Permit #SWF-1025/WV0109410, Wetzel Co. Landfill Permit #SWF-1021
Will closed loop systembe used? If so, describe: Yes, fluids stored in	tanks, cuttings removed off site and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? A	r, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite,	etc
-If left in pit and plan to solidify what medium will be used?	(cement, lime, sawdust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Cas of a West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	
on April 1, 2016, by the Office of Oil and Gas of the West Virginia I provisions of the permit are enforceable by law. Violations of any terr or regulation can lead to enforcement action. I certify under penalty of law that I have personally exami application form and all attachments thereto and that, based on my inq the information, I believe that the information is true, accurate, and submitting false information, including the possibility of fine or impris	n or condition of the general permit and/or other applicable law ned and am familiar with the information submitted on this uiry of those individuals immediately responsible for obtaining complete. I am aware that there are significant penalties for
Company Official Signature Gretchen Kohler	
Company Official (Typed Name) Gretchen Kohler	
Company Official Title Director of Environmental & Regulatory Complia	nce
Subscribed and swom before me this 5 day of Ap	
	Notary Public
My commission expires November 15, 20	STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 2022404369 WY COMMISSION EXPRES NOVEMBER 15 20

Form WW-9 Weekley Unit 1H Operator's Well No. Proposed Revegetation Treatment: Acres Disturbed 5.17 Preveg etation pH Tons/acre or to correct to pH 6.5 Lime 2-3 Fertilizer type Fertilizer amount 500 Mulch 2-3 Tons/acre Seed Mixtures Permanent Temporary Seed Type lbs/acre Seed Type lbs/acre 10-15 40 Crownvetch **Annual Ryegrass** 40 Tall Fescue 30 Field Bromegrass Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan Please reference Table IV-4A on page 7 of the Well #1 Plugging Plan *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, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by Title: WOILS GOS Inspector Date: 4/21/23

WR-35 Rev. 8/23/13 Page 1 of 4

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 095 0	2368 County	Tyler	District Centervil	e
Ouad Middlebourne 7.5'		ne Lemuel	Field/Pool Name	
Farm name Thomas Flan	nery Et Al		Well Number Mic	dge Unit 1H
Operator (as registered with	the OOG) Antero Re	sources Corporation	on	
Address 1615 Wynkoop	Street	City Denver	State CO	Zip 80202
As Drilled location NAD Top Landing Point of C Bottom	hole Northing 436 Curve Northing	n as-drilled plat, profi 3654.30m	Easting 507450.67m Easting Easting	
Elevation (ft) 1158	GL Type	of Weli New D	xisting Type of Repor	t 🗆 Interim 🛮 🗗 Final
Permit Type Deviate	i 🗆 Horizontal (Horizontal 6A 🛛	Vertical Depth Type	□ Deep
Type of Operation □ Conv	ert 🛭 Decpen 🛔 I	Orill 🗆 Plug Back	□ Redrilling □ Rework	Stimulate
Well Type Brine Dispos	al □ CBM	Oil Secondary Rec	overy - Solution Mining -	Storage Other
Drilled with	Rotary ole Air D Mud D Mud D Fresh Wate	Fresh Water In	e □Gas □ NGL □ Oil termediate hole □ Air □ Mi	
Date permit issued8/1			2/10/2017 Date drilling	
Verbal plugging (Y/N)	N/A Date permiss	i i	N/A Granted by	NI/A
Please note: Operator is re-	quired to submit a plugg	ing application within	5 days of verbal permission to	plug
Freshwater depth(s) ft	N/A	Open mine	e(s) (Y/N) depths	No
Salt water depth(s) ft	NI/A	•	countered (Y/N) depths	No
Coal depth(s) ft	NI/A	Cavern(s)	encountered (Y/N) depths	No
Is coal being mined in area		No		
_				Reviewed by:

4709502368

Page 2 of 4 WR-35 Rev. 8/23/13 Well number Midge Unit 1H Farm name_Thomas Flannery Et Al API 47-⁰⁹⁵ -02368 Did cement circulate (Y/N) Basket CASING Grade Hole Casing New or * Provide details below* **STRINGS** Used wt/ft Depth(s) Size Size Depth Conductor 26" 20" 80' New 78.67#, A252 N/A Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Packer type and depth set N/A Comment Details CEMENT Class/Type Number Shurry Volume Cement WOC DATA of Sacks ft 3/sks) Top (MD) (hrs) wt (ppg) Conductor 1.18 Class A 204 sx 15.6 241 0, 8 Hrs. Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Drillers TD (ft) 80 Loggers TD (ft) Plug back to (ft) N/A Deepest formation penetrated Plug back procedure N/A Kick off depth (ft)_ Check all wireline logs run □ caliper □ density □ deviated/directional □ induction □ neutron □ resistivity □ gamma ray □ temperature □sonic Well cored 🗆 Yes 🛔 No Conventional Sidewall Were cuttings collected □ Yes ■ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE □ Yes ■ No DETAILS WAS WELL COMPLETED OPEN HOLE? □ Yes • No DETAILS WERE TRACERS USED ☐ Yes ■ No TYPE OF TRACER(S) USED N/A

Page 3 of 4 WR-35 Rev. 8/23/13 _Well number_Midge Unit 1H Thomas Flannery Et Al APl 47-095 . 02368 Farm name PERFORATION RECORD Number of Stage No. Perforated to Perforated from Formation(s) Perforations MD ft. Perforation date MD ft. *PLEASE SEE ATTACHED EXHIBIT 1 Please insert additional pages as applicable. STIMULATION INFORMATION PER STAGE Complete a separate record for each stimulation stage. Аче Ритр Ave Treatment Max Breakdown Amount of Amount of Amount of Stage Stimulations Nitrogen/other (units) Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs) Water (bbls) Date *PLEASE SEE ATTACHED EXHIBIT 2

Please insert additional pages as applicable.

WR-35												Page <u>4</u> of <u>4</u>
Rev. 8/23/13 API 47- 095	_ 02368		Farm	name_Ti	nomas	Flannery	Et Al		Well n	umber_N	∕lidge	Unit 1H
PRODUCING 1				DEPTH								
PRODUCINO	CORWALL	OND	•	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		TVD			MD			
						_						
						_						
Please insert ad	Iditional pa	iges as app	licable.			_						
GAS TEST				□ Oper	n Flow		OIL TI	EST ol	Flow 🗆	Pump		
											TEST	Г <u> </u>
OPEN FLOW	Gas		Oil		NGL		Water		GAS M	ŒASUI	RED B	Υ
I ITHOLOGY/	тор		оттом		OP	BOTTON						
LITHOLOGY/ FORMATION	DEPTH D			DEPT	H IN FT	DEPTH IN	FT DI					QUANTΠYAND
	NAME T		TVD									NE, OIL, GAS, H ₂ S, ETC)
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Drilling Contra	actor IDC	Orilling				N					٠.	77070
Address 20475	SH 249 Suit	ne 300			_ City	Houston			State	TX	_ Zip	77070
Logging Comp	any											
Address					_ City				State		Zip	
Cementing Co	mpany Exp	oress Energ	y Sevice	s								
Address 9800 F	Richmond Av	enue Suite 7	00		City	Houston			State	TX	_ Zip	77042
Stimulating Co	mpar											
Address	–				City				State		Zip	
Please insert ac	iditional p	ages as app	licable.		_ ,							
Completed by	. Carly Mar	rvel					'n.	alanhara	303-357	-7373		
Signature	Carl	y Mar	wel		Title P	ermitting Age	_ 19 ent	ւգիւտո	,	Date 3/3	31/2023	3
	U											
Submittal of H	ydraulic Fr	racturing C	hemical	Disclos	ure Info	rmation	Attac	h copy o	f FRACI	OCUS:	Regist	ry

WW-7 8-30-06

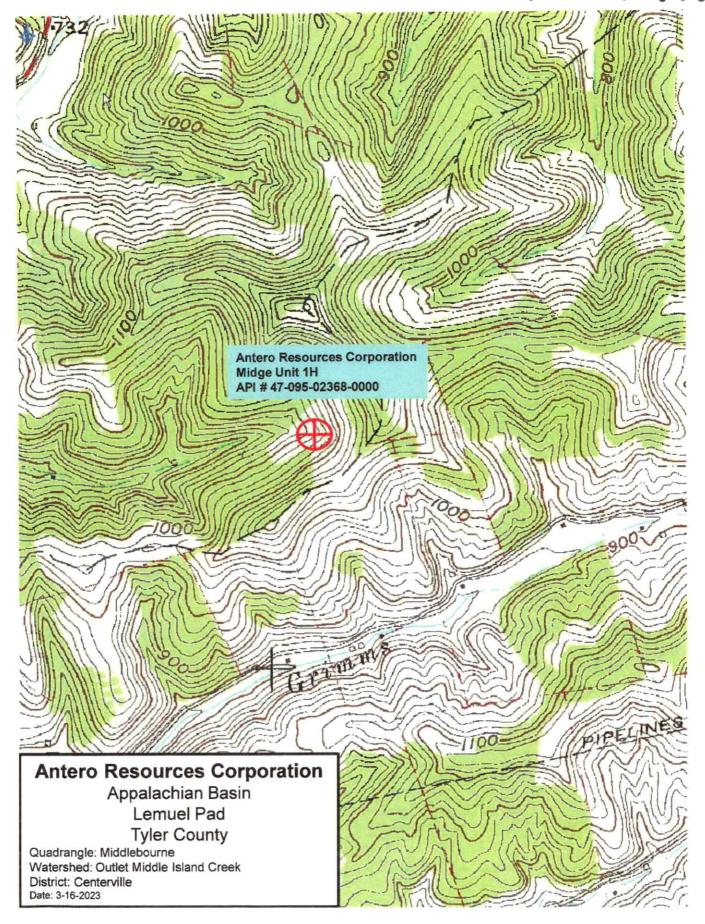


West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS ____ _{WELL NO.:} Midge 1H API: 47-095-02368 FARM NAME: Lemuel RESPONSIBLE PARTY NAME: Antero Resources Corporation DISTRICT: Centerville & Meade COUNTY: Tyler QUADRANGLE: Middlebourne & Shirley SURFACE OWNER: Antero Resources Corporation ROYALTY OWNER: __ UTM GPS NORTHING: 4363654.30 m UTM GPS EASTING: 507450.67 m GPS ELEVATION: 1158.2 ft The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: 1. height above mean sea level (MSL) - meters. 2. Accuracy to Datum - 3.05 meters Data Collection Method: Survey grade GPS X : Post Processed Differential Real-Time Differential X Mapping Grade GPS X : Post Processed Differential Real-Time Differential X Letter size copy of the topography map showing the well location. I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Permitting Manager 4/5/23





WW-4B

API No.	47-095-02368
Farm Name	Lemuel
Well No.	Midge Unit 1H

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAIVER
has examined this proposed plugging	/ owner/ lessee/ of the coal under this well location work order. The undersigned has no objection to the work proposed to be vell operator has complied with all applicable requirements of the Weslations.
Date:	
	Ву:
	lts



Kennedy, James P < james.p.kennedy@wv.gov>

plugging permit issued 4709502368

1 message

Kennedy, James P < james.p.kennedy@wv.gov>

Fri, Apr 28, 2023 at 11:00 AM

To: Mallory Stanton <mstanton@anteroresources.com>, Dani Devito <ddevito@shalepro.com>, Stephen E McCoy <stephen.e.mccoy@wv.gov>, ljackson@wvassessor.com

To whom it may concern, a plugging permit has been issued for 4709502368.

James Kennedy

WVDEP OOG

2 attachments



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