

west virginia department of environmental protection

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

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

Thursday, May 26, 2022 WELL WORK PLUGGING PERMIT Horizontal 6A Plugging

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for PLAUGHER UNIT 2H 47-033-05795-00-00

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.

ames Chief

05/27/2022

Operator's Well Number: PLAUGHER UNIT 2H Farm Name: VARNER, JAMES A. U.S. WELL NUMBER: 47-033-05795-00-00 Horizontal 6A Plugging Date Issued: 5/26/2022

Promoting a healthy environment.

PERMIT CONDITIONS

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. <u>Failure to adhere to the specified</u> 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.

	1) Date April 1, 2022
	2)Operator's
	Well No. Plaugher Unit 2H
	3) API Well No. 47-033 - 05795
DEPARTMENT OF ENVIR OFFICE OF APPLICATION FOR A PERM Oil/ Gas X/ Liquid	SST VIRGINIA RONMENTAL PROTECTION OIL AND GAS MIT TO PLUG AND ABANDON d injection/ Waste disposal/ derground storage) Deep/ ShallowX
Elevation 1455' District Tenmile	Watershed Halls Run County Harrison Quadrangle Salem & Big Issac 7.5
Antero Resources Corporation ess 1615 Wynkoop Street Denver, CO 80202	7) Designated Agent CT Corporation System - Dianna Stamper Address 5400 D Big Tyler Road Charleston, WV 25313
s Inspector to be notified n Ward 601 57th Street SE Charleston, WV 25304	9) Plugging Contractor Name N/A - Antero will plug well Address
	DEPARTMENT OF ENVIR OFFICE OF APPLICATION FOR A PERM Oil/ Gas X/ Liquid f "Gas, Production or Und Elevation 1455' District Tenmile tor Antero Resources Corporation ess 1615 Wynkoop Street Denver, CO 80202 s Inspector to be notified n Ward 601 57th Street SE

10) Work Order: The work order for the manner of plugging this well is as follows: *Please See Attached Work Order

* GEL SPACEAS MUST FILL WELL BORE WHRAC THERE ARE NO CLASS A CEMENT PLUGS. GEL DEFINITION IS FRESH WATER W/ A MINIMUM OF 6% BENTONITE, BY WEICHT,

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Devoit Date 515/2022

Work order approved by inspector

Plaugher Unit 2H Harrison County, WV API #47-033-05795



4703305795 Antero Resources 1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7310 Fax: 303.357.7315

Objective: Plug and Abandon from 2542' TD

Well Design:

- 20" 94# Conductor @ 40'- Cemented to Surface .
- 13-3/8" Surface Casing @ 456' Cemented to Surface-12.715" ID .
- 9-5/8" Intermediate Casing @ 2,542'- Cemented to Surface-8.921" ID

Oil and Gas Zones:

Big Injun- 2,280'-2,393'

Procedure:

- Check and record casing surface pressures into Wellview. Verify no pressure behind 9 5/8". Bleed off pressure and monitor any build-up prior to performing any more work.
- 2. Notify WV DEP 24 hours prior to commencing work.
- 3. Move in and rig up flat tank and frac tank (No pits will be utilized).
- MIRU Service rig with JU Head. Pressure test well control equipment. Current load fluid is 8.33# 5/5/2022 water
- 5. Trip in hole with 2 3/8" tubing to 2,450'.
- 6. MIRU cement services. Mix and pump a 300' cement plug (2,150'-2,450'). Covering the Big Injun formation with plug. (Class A cement + 2% CaCl₂, zero excess, yield =1.15 ft³/sk, WR = 5.2 gal/sk, minimum 500 psi compressive strength)
 - a. 9 5/8" casing volume = 0.4341 ft3/ft
 - b. 300' plug = 131 ft³ cement.
 - c. Displace to balance plug with 8.33 ppg fluid
 - d. Slowly pull out of cement plug and lay down 500' of 2-3/8" tubing
 - e. Circulate tubing clear of cement with 8.33ppg fluid
 - f. Wait on cement 8 hrs
 - a. RIH and tag top of cement
- 7. TOOH laying down tubing to 300'.

70.

- 8. Mix and pump the final cement plug to fill up 9-5/8" casing from 150' to surface.
 - a. Mix and pump 7 bbls 10ppg 35ppb weighted Eco spacer from 150'-300' prior to final plug to support cement column
 - a. TOOH to 150'
 - b. 66 ft³ Class A cement + 2% CaCl2, zero excess, yield =1.15 ft³/sk, WR = 5.2 gal/sk, minimum 500 psi compressive strength)
 - a. Volume inside of 9-5/8" = 0.4341 ft3/ft
 - b. 150' plug = 66 ft³ cement
 - c. Slowly pull out of cement plug while laving down 150' of 2-3/8" tubing
 - d. Clean up tubing if possible
 - e. Install Monument Marker with API No.: 47-033-05795
 - f. Wait on cement 8hrs.
 - g. Observe top of cement at surface.
 - h. Top out as necessary

79. SET A 100' CLASS A CEMENT PLUC FROM 506' TO 406' ACROSS 133/8" CASINE SEAT JWM CONFERED N/ MART PALMER, (ANTERD). 05. 05/27/2022

Page <u>1</u> of <u>4</u>

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

API <u>47</u> 033 05795 County Harriso	nDistrict_Tenmile
Quad Salem Pad Name Varn	er West Pad Field/Pool Name
Farm name James A. Varner	Well Number Plaugher Unit 2H
	s Appalachian Corporation
Address 1615 Wynkoop Street City De	nver State CO Zip 80202
Top hole Northing 4345138.1m	ed plat, profile view, and deviation survey Easting 539079.84m
Landing Point of Curve Northing Bottom Hole Northing	
Elevation (ft) 1456' GL Type of Well	■New □ Existing Type of Report □Interim ■Final
Permit Type Deviated Horizontal Horizontal	ntal 6A 🗆 Vertical 🛛 Depth Type 🗖 Deep 🛢 Sha
Type of Operation □ Convert □ Deepen ■ Drill	🗆 Plug Back 🗆 Redrilling 🗆 Rework 🛢 Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □ Se	condary Recovery
Type of Completion	uced 🗆 Brine 🛛 🗠 🖬 NGL 🗶 Oil 🗖 Other
Drilled with Cable Rotary	
Drilling Media Surface hole Air DMud Fresh W Production hole Air Mud Fresh Water Bri Mud Type(s) and Additive(s) Air - Foam & 4% KCL	
Mud - Polymer	
Date permit issued <u>4/3/2013</u> Date drilling com Date completion activities began N/A	
Verbal plugging (Y/N) Date permission grant	edN/A Granted byN/A
Please note: Operator is required to submit a plugging appl	cation within 5 days of verbal permission to plug
Freshwater depth(s) ft 98', 295'	Open mine(s) (Y/N) depths NO
Salt water depth(s) ft 1279', 1775'	Void(s) encountered (Y/N) depths No
Coal depth(s) ft 142', 743', 1060'	Cavern(s) encountered (Y/N) depths No

No

Is coal being mined in area (Y/N)

WR-35 Rev. 8/23/13

API 47- $\frac{033}{2}$	05795	Farm n	_{ame_} James A	. Varner		Well	number_Pla	ugher Unit 2H
CASING	Hole	Casing		New or	Grade	J	Basket	Did cement circulate (Y/ N)
STRINGS Conductor	Size24"	Size	Depth	Used	1	wt/ft De		* Provide details below* Y
Surface		20"	40'	New	94#, H-40		N/A	Y Y
Coal	17-1/2"	13-3/8"	456'	New	48#,	H-40	N/A	ř
Intermediate 1		0.5/01	05 (0)					Y
Intermediate 2	12-1/4"	9-5/8"	2542'	New	36#,	J-55	N/A	Y
Intermediate 2								
Production					<u> </u>			
Tubing	mth aat					-		
Packer type and de		N/A						
Comment Details				· · · · · · · · · · · · · · · · · · ·				
CEMENT DATA	Class/Type of Cement				rield t ³ /sks)	Volume (ft^2)	Ceme Top (M	
Conductor	Class A	196 s			1.18	<u> </u>	10p (iv	8 Hrs.
Surface	Class A				1.18	826	0'	8 Hrs.
Coal							_	
Intermediate 1	Class A	933 s	x 15.6		1.18	1181		8 Hrs.
Intermediate 2								
Intermediate 3								
Production								
Tubing								
Drillers TD (ft Deepest forma Plug back pro	tion penetrated				D (ft) <u>N/A</u> to (ft) <u>N/A</u>			
Kick off depth	(ft) <u>N/A</u>							
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity		ted/direction a ray		duction emperature	□sonic
Well cored	Yes 🖪 No	Convent	ional Side	wall	We	re cuttings	collected [Yes No
DESCRIBE T	HE CENTRA	LIZER PLACEM	IENT USED FO	OR EACH C	ASING ST	RING		
		ert float, 1 every 4th joint to						
Intermediate - 1 abov	ve float joint, 1 above i	float collar, 1 every 4th join	nt to surface					
WAS WELL (COMPLETED	AS SHOT HOL	E 🗆 Yes 🛢	No D	ETAILS _			
WAS WELL	COMPLETED	OPEN HOLE?	🗆 Yes 🔳 N	lo DET	AILS			

 $Page \underline{2}_{of} \underline{4}$

 $Page \underline{3}_{of} \underline{4}_{}$

WR-35 Rev. 8/23/13

API 4	47- 033 _ 05795	Farm nan	_{ne_} James A. Va	Irner	Well numberPlaugher Unit 2H
			PERFORAT	ION RECORD	
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	*DI				D EXHIBIT 1
					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage Stimulations No. Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	*PLE	ASE SE	ΞΑΤΤΑ	CHEL) EXH		2
	·						

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13										47	0-3	30		95
API 47- 033	05795		Farm	_{name} Jame	es A.	Varner			Well n	umber_	Plaug	her l	Jnit 2F	1
PRODUCING	FORMAT	ION(S)		DEPTHS										
Marcellus				N/A (TOP)		TVD	N/A (TO	P)	MD					
								.,						
		_				_ ·	<u> </u>	· · · · ·						
Please insert ad	iditional pa	ages as aj	 oplicable.											
GAS TEST	🗆 Build u	p 🗆 Dı	awdown	🛢 Open Flo	ow		OIL TE	ST 🖪 F	?low □	Pump				
SHUT-IN PRE	SSURE	Surface		psi B	ottom	Hole		_psi	DURAT	'ION O	F TES	г <u>—</u>		hrs
OPEN FLOW				NC										
		mcfpd		bpd <u></u>	1	bpd -		bpd	🗆 Estin	nated	🛚 Orif	ice	🗆 Pilo	ət
LITHOLOGY/	TOP		BOTTOM	ТОР		BOTTOM	ſ							
FORMATION	DEPTH I			DEPTH IN										
	NAME 1	TVD	TVD	SEE		MD	TYF	PE OF FL	UID (FRE	SHWATI	ER, BRI	NE, OII	., GAS, 1	H₂S, ETC
	<u> </u>													
	-	-	pplicable.											
Drilling Contra	actor Hall [Drilling				Ellenboro						2634	6	
Drilling Contra Address <u>1137 E</u> Logging Comp	actor Hall [E. Washingto Dany N/A	Drilling												
Drilling Contra Address <u>1137 E</u> Logging Comp	actor Hall [E. Washingto Dany N/A	Drilling												
Drilling Contra Address <u>1137 E</u> Logging Comp Address	actor Hall [E. Washingto bany <u>N/A</u>	Drilling on Avenue		(City _				State		Zip			
Drilling Contra Address <u>1137 E</u> Logging Comp Address <u></u> Cementing Con Address <u>1500 E</u>	actor <u>Hall I</u> E. Washingto Dany <u>N/A</u> mpany <u>Ru</u> E. Dave Ward	Drilling on Avenue sh Wellsi d Drive	te Services	(City _				State		Zip			
Drilling Contra Address <u>1137 E</u> Logging Comp Address <u></u> Cementing Con Address <u>1500 E</u>	actor Hall I E. Washingto Dany N/A mpany Ru E. Dave Ward	Drilling on Avenue sh Wellsi d Drive	te Services	(City _	Conway			State State	AR	Zip Zip	7203	2	
Drilling Contra Address <u>1137 E</u> Logging Comp Address <u></u> Cementing Con Address <u>1500 E</u> Stimulating Con	actor Hall I E. Washingto Dany <u>N/A</u> mpany <u>Ru</u> E. Dave Ward	Drilling on Avenue sh Wellsi d Drive V/A	te Services	(City _	Conway			State State	AR	Zip Zip	7203	2	
Please insert ac Drilling Contra Address <u>1137 E</u> Logging Comp Address <u>500 E</u> Stimulating Co Address <u>1500 E</u> Stimulating Co Address <u>1500 E</u> Stimulating Co Address <u>1500 E</u> Stimulating Co Address <u>1500 E</u>	actor Hall [E. Washingto Dany <u>N/A</u> mpany <u>Ru</u> E. Dave Ward Dompany <u>N</u> dditional p	Drilling on Avenue sh Wellsi d Drive V/A ages as a	te Services	(City _	Conway			State State State	 AR	Zip Zip Zip	7203	2	

		EXHIBIT 3		
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD From Surface
Siltstone	46	166	46	165
Sandstone	166	286	166	286
Shale	286	465	286	466
Siltstone w/trace coal	466	646	466	646
Sandstone	646	766	646	766
Siltstone	766	846	766	846
Limestone	846	926	846	926
Siltstone	926	986	926	986
Limestone and Siltstone	986	1,146	986	1,146
Shale	1,146	1,266	1,146	1,266
Silstone and Sandstone	1,266	1,426	1,266	1,426
Shale and Siltstone	1,426	1,496	1,426	1,496
Siltstone and Sandstone	1,496	2,206	1,496	2,206
Siltstone w/trace coal	2,206	2,246	2,206	2,246
Shale	2,246	2,286	2,246	2,286
Siltstone and Sandstone	2,286	2,321	2,286	2,321
Big Lime	2,335	2,913	2,321	2,913
Fifty Foot Sandstone	2,913	3,018	2,899	3,018
Gordon	3,018	3,346	3,004	3,346
Fifth Sandstone	3,346	3,375	3,332	3,375
Bayard	3,375	4,152	3,361	4,152
Speechley	4,152	4,460	4,138	4,460
Balltown	4,460	4,782	4,446	4,782
Bradford	4,782	5,311	4,768	5,312
Benson	5,311	5,603	5,298	5,611
Alexander	5,603	7,201	5,597	7,378
Sycamore	6,972	7,201	7,109	7,378
Middlesex	7,201	7,349	7,364	7,550
Burkett	7,349	7,378	7,536	7,588
Tully	7,378	7,531	7,574	7,878
Marcellus	7,531	NA	7,878	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique department of i and Gas

JUN 08 2020

WV Department of Environmental Protection WW-4A Revised 6-07

1) Date: 4/1/2022

3) API Well No.: 47 -

2) Operator's Well Number Plaugher Unit 2H

033

05795

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Ow	ner(s) to be served:	5) (a) Coal Operator	
	(a) Name	James A Vamer	Name	
	Address	2743 Halls Run	Address	•
		Salem, WV 26426		
	(b) Name		(b) Coal Owner(s) with Declaration	
	Address		Name	
			Address	
	(c) Name		Name	
	Address		Address	
6)	Inspector	Doug Newlon	(c) Coal Lessee with Declaration	
	Address	601 57th Street SE	Name	
		Charleston, WV 25304	Address	
	Telephone	304 575-0109		

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and

The plat (surveyor's map) showing the well location on Form WW-6. (2)

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator	Antero Resources Corporation	
	By:	Diana Hoff / Dana U. HU	RECEIVED
DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO	Its:	Senior VP of Operations	Office of Oil and Gas
	Address	1615 Wynkoop Street	ADD 9 C DOOD
NOTARY ID 19994011871		Denver, CO 80202	APR 26 2022
MY COMMISSION EXPIRES 27-Apr-2024	Telephone	303-357-7310	
		A	WV Department of Environmental Protection
Subscribed and sworn before me th		ay of April 2022	
Diane	Blair	Notary Public	
My Commission Expires	27Apr	7024	

Oil and Gas Privacy Notice

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 depprivacyofficr@wv.gov.

Cut on dotted line.

Instructions

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

USPS TRACKING #: 9405 5036 9930 0227 1460 30 Priority Mail® Postage: \$8.95 Trans. #: 561663989 \$8.95 Total:

Click-N-Ship® Label Record

Print Date: Ship Date: 04/19/2022 04/19/2022 Expected 04/23/2022 Delivery Date:

JOHN GIANNAULA From: 1615 WYNKOOP ST **DENVER CO 80202-1106**

JAMES VARNER To: 2743 HALLS RUN RD BRISTOL WV 26426-7340

RECEIVED Office of OI and Gas

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APR 26 2022
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WV Department of Environmental Protection

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

UNITED STATES POSTAL SERVICE • Thank you for shipping with the United States Postal Service! Check the status of your shipment on the USPS Tracking® page at usps.com

SURFACE OWNER WAIVER

Operator's Well Number

Plaugher Unit 2H

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:

RECEIVED Office of Oil and Gas

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

APR 26 2022

WV Department of Environmental Protection

<u>Time Limits and methods for filing comments.</u> 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.

<u>Comments must be in writing.</u> 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 grounds:

- 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;

Date

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.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. FOR EXECUTION BY A NATURAL PERSON FOR EXECUTION BY A CORPORATION, ETC.

Si	gnature

- Name By

Its

Date

Signature



API No.	47-033-05795 🖗
Farm Name	Varner
Well No.	Plaugher Unit 2H

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

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its

RECEIVED Office of Oil and Gas

APR 26 2022

WV Department of Environmental Protection

4703305795P

WW-9	
(5/16)	API Number 47 - 033 _ 05795
	Operator's Well No. Plaugher Unit 2H
STATE OF WEST VIRGE DEPARTMENT OF ENVIRONMENTA OFFICE OF OIL AND OFFICE OF OIL AND OFFICE OF OIL AND OFFICE OF OIL AND OFFICE OF OIL & RECT	AL PROTECTION GAS
Operator Name Antero Resources Corporation	OP Code 494507062
	gle Salem & Big Issac 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the propos	
Will a pit be used? Yes No	
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:	
Land Application (if selected provide a completed	form WW-9-GPP)
 Underground Injection (UIC Permit Number *UIC Reuse (at API Number Future permitted well locations when 	
Off Site Disposal (Supply form WW-9 for disposa Other (Explain	
	#SWF-1025/WV0109410
Will closed loop systembe used? If so, describe: Yes, fluids stored in tanks, c	uttings removed off site and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, fresh	water, 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? (cemen	t, lime, sawdust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any load	of drill cuttings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided within 24 hou where it was properly disposed.	irs of rejection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of t on April 1, 2016, by the Office of Oil and Gas of the West Virginia Departm provisions of the permit are enforceable by law. Violations of any term or con or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined an application form and all attachments thereto and that, based on my inquiry of the information, I believe that the information is true, accurate, and comple submitting false information, including the possibility of fine or imprisonment	nent of Environmental Protection. I understand that the addition of the general permit and/or other applicable law and am familiar with the information submitted on this those individuals immediately responsible for obtaining etc. I am aware that there are significant penalties for
Company Official Signature Gretchen Kohler	Office of Oil and Gas
Company Official (Typed Name) Gretchen Kohler	APR 2 6 2022
Company Official Title Director of Environmental & Regulatory Compliance	AT N 2 0 2022
	WV Department of
Subscribed and swom before me this 14 day of Apri	Environmental Protection
Vione Blair	Notary Public
My commission expires 27 Apr 2024	DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 05/27/2022

....

4703305795P

Operator's Well No._ Plaugher Unit 2H

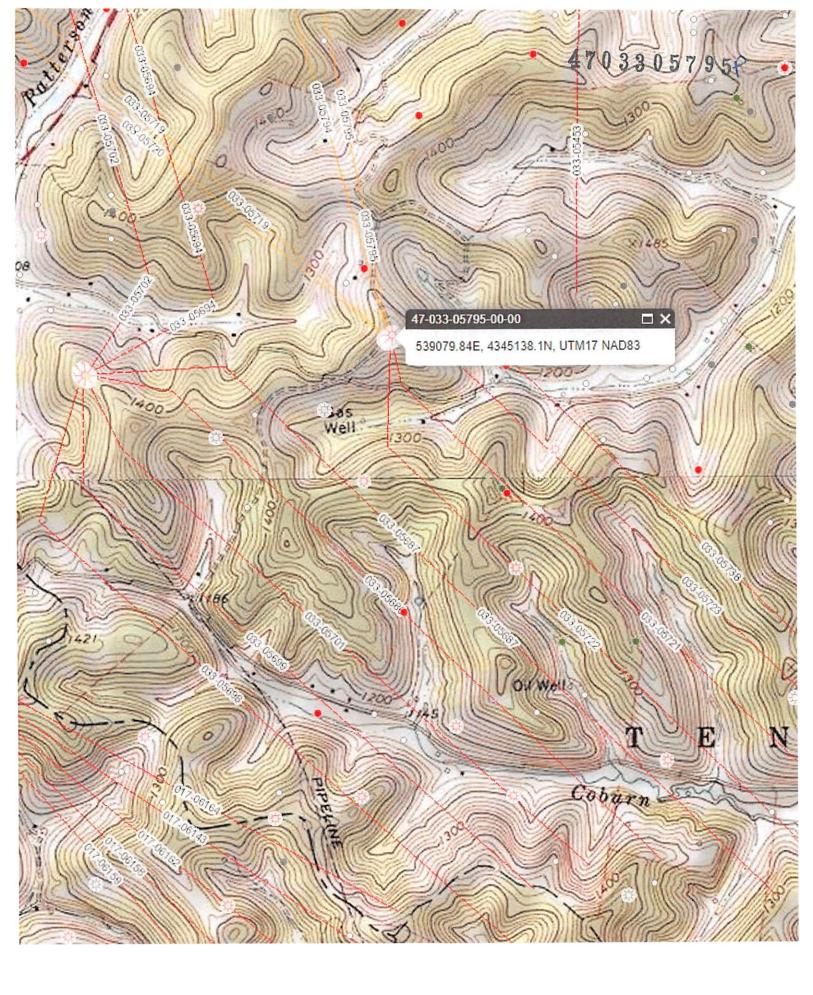
Proposed Revegetation Treatmen	t: Acres Disturbed 31.03	Prevegeta	Preveg etation pH		
Lime 2-3	_ Tons/acre or to correct to pl	H 6.5			
Fertilizer type					
Fertilizer amount 500	lbs/acre				
Mulch 2-3 Tons/acre					
	Se	ed Mixtures			
Temporary		Permanent			
Seed Type	lbs/acre	Seed Type	lbs/acre		
Annual Ryegrass	40	Crownvetch	10-15		
Field Bromegrass	40	Tall Fescue	30		
Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan		Please reference Table IV-4A	Please reference Table IV-4A on page 7 of the Well #1 Plugging Plan		
*or type of grass seed	requested by surfac	e 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:	5100	Vonst	R	
Comments:				
<u>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u>				
Title:	SInspector	Date:	5/5/202	2
	() Yes	()No		



WW-7 8-30-06					
West Virginia Department of Environmental Protection					
Office of Oil a	nd Gas				
WELL LOCATION	FORM: GPS				
API: 47-033-05795	well No.: Plaugher 2H				
FARM NAME: Varner West					
RESPONSIBLE PARTY NAME: Antero Resources Corporation					
COUNTY: Harrison	DISTRICT: Tenmile				
QUADRANGLE: Salem & Big Isaac	;				
SURFACE OWNER: James A. Varne	r				
ROYALTY OWNER:					
UTM GPS NORTHING: 4345138.10 m	1				
UTM GPS EASTING: 539079.84 m	GPS ELEVATION: 1455.7 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
- RECEIVED Office of Oil and Gas Data Collection Method: 3. Survey grade GPS X : Post Processed Differential APR 26 2022 Real-Time Differential X WV Department of Mapping Grade GPS X : Post Processed Differential Environmental Protection

Real-Time Differential X

4. 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.

Nan Spe	Permitting Manager	4/14/22	
Signature	Title	Date	
1		05/	7

LOWNDES UNIT 1H - API# 47-033-5720, LO PLAUGHER UNIT 1H - API# 47-033-5794, PL WELL PLUGGIN

LOCATION COORDINATES: ACCESS ROAD ENTRANCE LATITUDE: 39.254210 LONGITUDE: -80.548310 (NAD 83) LATITUDE: 39.254122 LONGITUDE: -80.548491 (NAD 27) E 538972.39 (UTM ZONE 17 METERS) 4345084.36

CENTROID OF PAD LATITUDE: 39.254747 LONGITUDE: -80.547101 (NAD 83) LATITUDE: 39.254659 LONGITUDE: -80.547282 (NAD 27) N 4345144.46 E 539076.42 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION: THE EXISTING ACCESS ROAD AND WELL PAD ARE BEING UPGRADED TO AID IN THE PLUGGING OF EXISTING INDIVIDUAL GAS WELL.

FLOODPLAIN NOTES:

THE PROPOSED SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54033C0120D.

MISS UTILITY STATEMENT: ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, IF REQUIRED.

<u>GEOTECHNICAL NOTES:</u> NO SOIL STUDIES OR SUBSURFACE INVESTIGATIONS WERE PERFORMED AND ANALYZED FOR THE DESIGN OF THIS SITE.

ENVIRONMENTAL NOTES: STREAM AND WETLAND DELINEATIONS WERE PERFORMED BY ALLSTAR ECOLOGY, LLC FROM DELINEATIONS OF THE PROJECT AREA PERFORMED 2012/2013.

PROJECT CONTACTS: ANTERO RESOURCES CORPORATION 535 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 PHONE: (304) 842-4100 FAX: (304) 842-4102

ELI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER OFFICE: (304) 842-4068 CELL: (304) 476-9770

DIANA HOFF - SVP OPERATIONS OFFICE: (303) 357-6904

AARON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 842-4191 CELL:

ROBERT WIRKS - DESIGN MANAGER (304) 842-4100 CELL: (304) 627-7405 OFFICE:

ROBERT EDDY - UTILITY COORDINATOR CELL: (304) 719-5199

RANDALL RANDOLPH - LAND AGENT CELL: (405) 816-5956

ENGINEER/SURVEYOR: NAVITUS ENGINEERING, INC. CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER OFFICE: (888) 662-4185 CELL: (540) 686-6747

ENVIRONMENTAL: ALISTAR ECOLOGY, ILC RYAN L. WARD - ENVIRONMENTAL SCIENTIST (866) 213-2666 CELL: (304) 692-7477

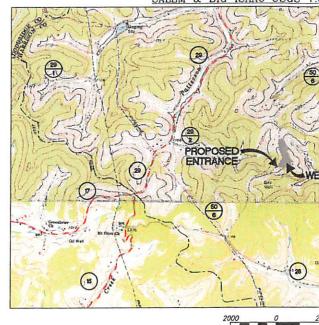
TENMILE DISTRICT, HARRISC TENMILE CREEK & SALEM FOR SALEM & BIG ISAAC USGS 7.

SCALE: 1" = 2000

ET

CET 2

32



WEST VIRGINIA COUNTY MAP



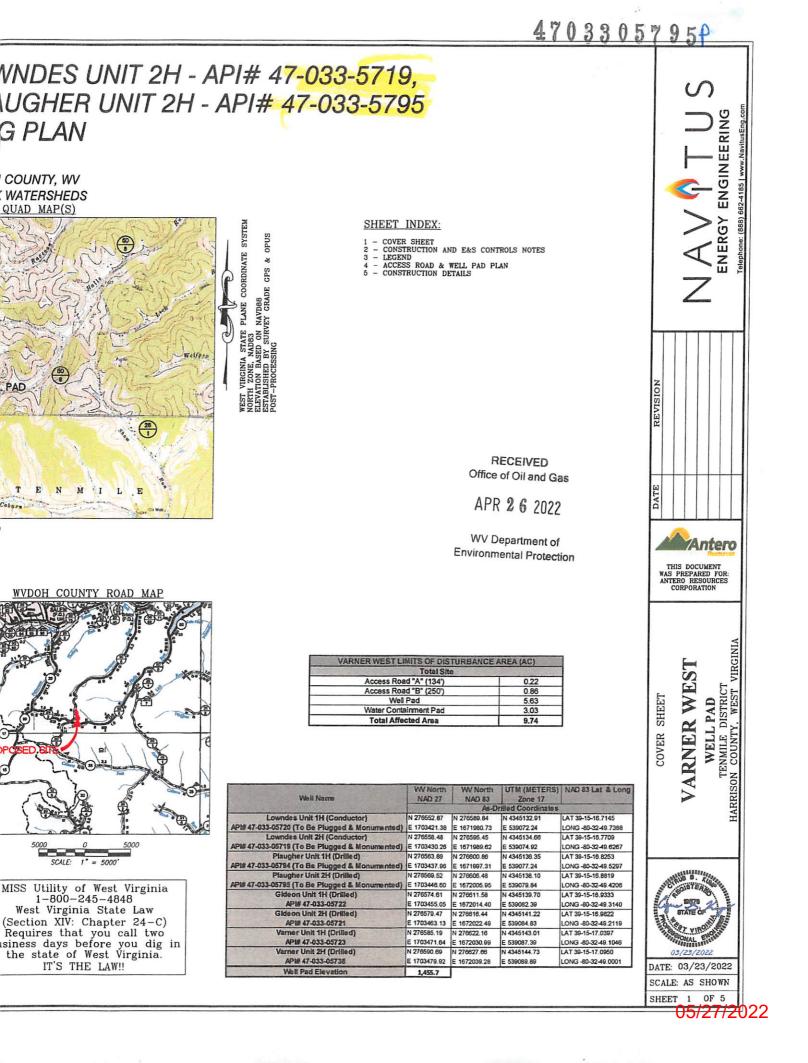
(NOT TO SCALE)

REPRODUCTION NOTE

THESE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.

THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.







Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Horizontal H6A Well Work Permit (API: 47-033-05794 & 47-033-05795)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Thu, May 26, 2022 at 1:25 PM alepro.com>.

To: Mallory Stanton <mstanton@anteroresources.com>, Diane Blair <dblair@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, dpalmer@harrisoncountywv.com, mcopeland@harrisoncountywv.com, Jeffrey McLaughlin <jeffrey.w.mclaughlin@wv.gov>, "Ward, Samuel D" <samuel.d.ward@wv.gov>

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-033-05794 - PLAUGHER UNIT 1H 47-033-05795 - PLAUGHER UNIT 2H

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

4 attachments

47-033-05794 - Copy.pdf 1342K

2 47-033-05795 - Copy.pdf 3763K

Page 18-8 Blank.pdf 237K

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