

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

Monday, July 17, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for Allender Unit 1H 47-085-10496-00-00

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

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

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

James A. Martin

07/21/2023

Operator's Well Number: Allender Unit 1H Farm Name: Pierce, Elmer W. U.S. WELL NUMBER: 47-085-10496-00-00 Horizontal 6A New Drill Date Issued: 7/17/2023

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.



4708510496 API NO. 47-085 OPERATOR WELL NO. Allender Unit 1H

Well Pad Name: Cashew Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION
1) Well Operator: Antero Resources Corporal 494507062 085-Ritchie Union Oxford 7.5'
Operator ID County District Quadrangle
2) Operator's Well Number: Allender Unit 1H Well Pad Name: Cashew Pad /
3) Farm Name/Surface Owner: Elmer W. Pierce Public Road Access: Sugar Run Road
4) Elevation, current ground: Elevation, proposed post-construction: 1019'
5) Well Type (a) Gas Oil X Underground Storage
Other
(b)If Gas Shallow X Deep
Horizontal X
6) Existing Pad: Yes or No Yes /
 Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus Shale: 6900' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#
8) Proposed Total Vertical Depth: 6900' TVD
9) Formation at Total Vertical Depth: Marcellus Office of Oil and Gas
10) Proposed Total Measured Depth: 10400' MD JUN 3 0 2023
11) Proposed Horizontal Leg Length: 688.2' 300 12) Approximate Fresh Water Strata Depths: 53', 236' Environmental Protection
12) Approximate Fresh Water Strata Depths: 53', 236' - Environmental
13) Method to Determine Fresh Water Depths: 47-085-07654 47-085-10419
14) Approximate Saltwater Depths: 1709', 1847' ~
15) Approximate Coal Seam Depths: None Identified <
16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No X
(a) If Yes, provide Mine Info: Name:
Depth:
Seam:
Owner:

Page 1 of 3

\$ 06/27/2023-

07/21/2023

WW-6B (04/15)

OPERATOR WELL NO. _Allender Unit 1H

Well Pad Name: Cashew Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 89 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300	CTS, 417 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#	10400	10400	1693 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (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					RECEI	ED Gas	

Office of Oil

JUN 3 0 2023 WV Department of Environmental Protection

PACKERS

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

Page 2 of 3

OB 06/27/2023 -

WW-6B (10/14)

4708510496

API NO. 47-085 OPERATOR WELL NO. Allender Unit 1H Well Pad Name: Cashew Pad

19) Describe proposed well work, including the drilling and plugging back of any pil Drill, perforate, fracture a new vertical shallow well and complete Marcellus S	
Shin, periorate, nactare a new vertical shallow well and complete Marcellus S	naie.
20) Describe fracturing/stimulating methods in detail, including anticipated max pre	ssure and max rate:
Antero plans to pump Slickwater into the Marcellus Shale formation in order to	
production. The fluid will be comprised of approximately 99 percent water and	d sand, with less than 1
percent special-purpose additives as shown in the attached "List of Anticipate	d Additives Used for
Fracturing or Stimulating Well."	
Anticipated Max Pressure - 9300 lbs	
Anticipated Max Pressure - 9300 bs Anticipated Max Rate - 80 bpm	
· · · · · · · · · · · · · · · · · · ·	
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 33.	75 acres
22) Area to be disturbed for well pad only, less access road (acres): 14.29 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 spa to surface.	ced up the hole
to surface. Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th coll Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing,	ar to surface EIVED
rougeron casing. One centralizer at shoe joint and one every 5 joints to top of cement in intermediate casing.	Office of On and
	JUN 3 0 2023
24) Describe all cement additives associated with each cement type:	, ot
Conductor: no additives, Class A/L cement. Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake	WV Department of Environmental Protection
ntermediate: 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 Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL 160 + 0.2% ACCP + 7 + 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	J.2% ACR-20
25) Dromosed horshold conditioning means house	
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 casi	ng, circulate pipe capacity + 40 bb
resh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.	
ntermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip ou vater followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.	t, run casing, circulate 40 bbls brin
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 viscos
weep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 parite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.	bbls fresh water, pump 48 bbls
to bus nesh water followed by 48 bbis hild hush and 10 bbis water.	
*Note: Attach additional sheets as needed.	
	2
	Page 3 of 3
06/27/2023	

(4/16)	API Number 47 - 085 -
DEPARTMENT OF EN	Operator's Well No. Allender Unit 1H DF WEST VIRGINIA IVIRONMENTAL PROTECTION E OF OIL AND GAS
FLUIDS/ CUTTINGS DI	SPOSAL & RECLAMATION PLAN
Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) South Fork Hughes River	Quadrangle Oxford 7.5'
Do you anticipate using more than 5,000 bbls of water to cor Will a pit be used? Yes No	mplete the proposed well work? Yes No
If so, please describe anticipated pit waste:	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:	
Reuse (at API Number Future perm	mit Number_*UIC Permit # will be provided on Form WR-34) nitted well locations when applicable. API# will be provided on Form WR-34) WW-9 for disposal location)(<u>Meadowfill Landfill Permit #SWF-1032-98)</u> Northwestern Landfill Permit #SWF-1025/ <u>WV0109410</u>
Will closed loop system be used? If so, describe: Yes, fluids	s stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizo	Surface - Alt Krashwatar Intermediate -
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? Please See Attachm	
	ed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will	
	be used? (cement, lime, sawdust)_N/A Landfill (Permit #SWF-1032-98). Northweatern Landfill (Permit # SWF-1025/WV0109410)
-Landfill or offsite name/permit number?	
-Landfill or offsite name/permit number? Meadow/ill Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provide where it was properly disposed. I certify that I understand and agree to the terms and on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations aw or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, bas botaining the information, I believe that the information is beenalties for submitting false information, including the possi-	Landfill (Permit #SWF-1032-98). Northwestern Landfill (Permit # SWF-1025/WV0109410) d Gas of any load of drill cuttings or associated waste rejected at any led within 24 hours of rejection and the permittee shall also disclose d conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this sed on my inquiry of those individuals immediately responsible for s true, accurate, and complete. I am aware that there are significant
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-Landfill or offsite name/permit number? Meadow/ill Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provide where it was properly disposed. I certify that I understand and agree to the terms and on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations aw or regulation can lead to enforcement action. I certify under penalty of law that I have persona application form and all attachments thereto and that, bas botaining the information, I believe that the information is beenalties for submitting false information, including the possi Company Official Signature Gretchen Kohler Company Official Title Senior Environmental & Regulatory Ma	A Gas of any load of drill cuttings or associated waste rejected at any led within 24 hours of rejection and the permittee shall also disclose d conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the e of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this sed on my inquiry of those individuals immediately responsible for s true, accurate, and complete. I am aware that there are significant ibility of fine or imprisonment. RECEIVED Office of Oil and Gas JUN <u>3 0 2023</u> anager WV Department of Environmental Protection UMME .20_223 WV Department of Environmental Protection

Form WW-9

Operator's Well No. Allender Unit 1H

See attached Table IV-4A for additional seed type (Cashew Pad Design)

*or type of grass seed requested by surface owner

Antero Resources Corporation

Lime 2-4	Tons/acre or to corre		Н
Hau of a			
Fertilizer type	straw or Wood Fiber (will		
Fertilizer amount 500	l	lbs/acre	
Mulch 2-3		Tons/acre	
Access Road (10.	.92 acres) + Well Pad (14.29 acres	s) + Staging 1 (1.04 acres) + Staging 2 (2.20 acres) + Spoil Pile	e 1 (1.12 acres) + Spoil Pile 2
	(0.88 acre	s) + Topsoil Stripping (3.30 acres) = 33.75 Acres	
	(0.88 acre	s) + Topsoil Stripping (3.30 acres) = 33.75 Acres Seed Mixtures	
	(0.88 acre	s) + Topsoil Stripping (3.30 acres) = 33.75 Acres	
	(0.88 acre	s) + Topsoil Stripping (3.30 acres) = 33.75 Acres Seed Mixtures	
Temp	(0.88 acre	s) + Topsoil Stripping (3.30 acres) = 33.75 Acres Seed Mixtures Perma	anent

See attached Table IV-3 for additional seed type (Cashew Pad Design)

*or type of grass seed requested by surface owner

Attach:

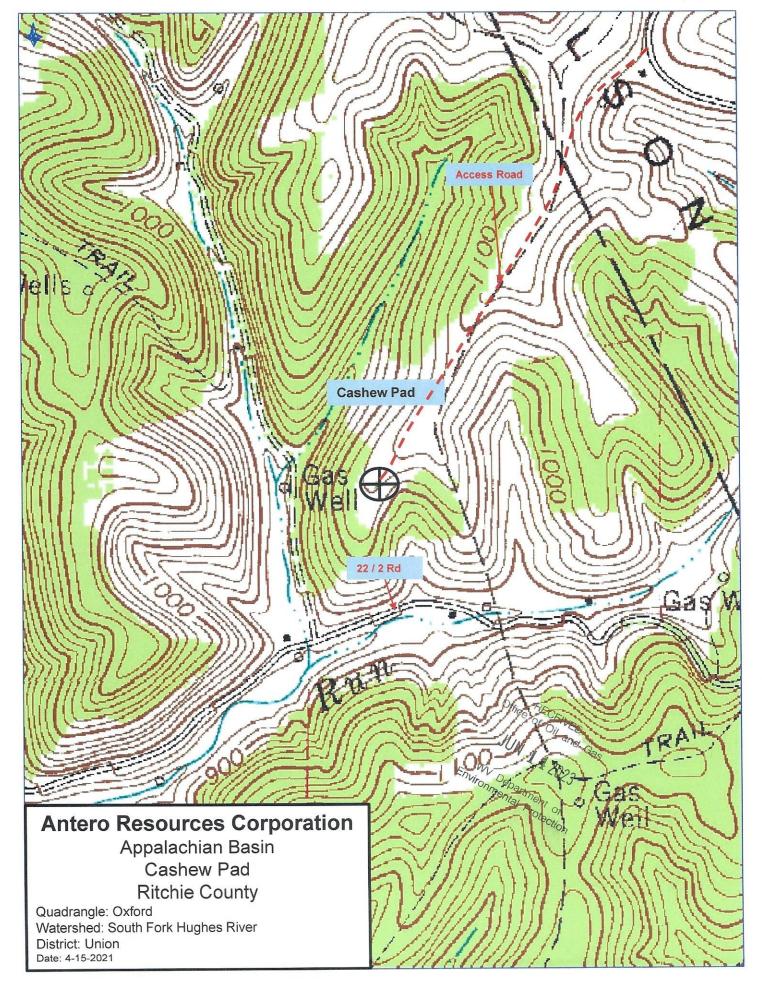
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

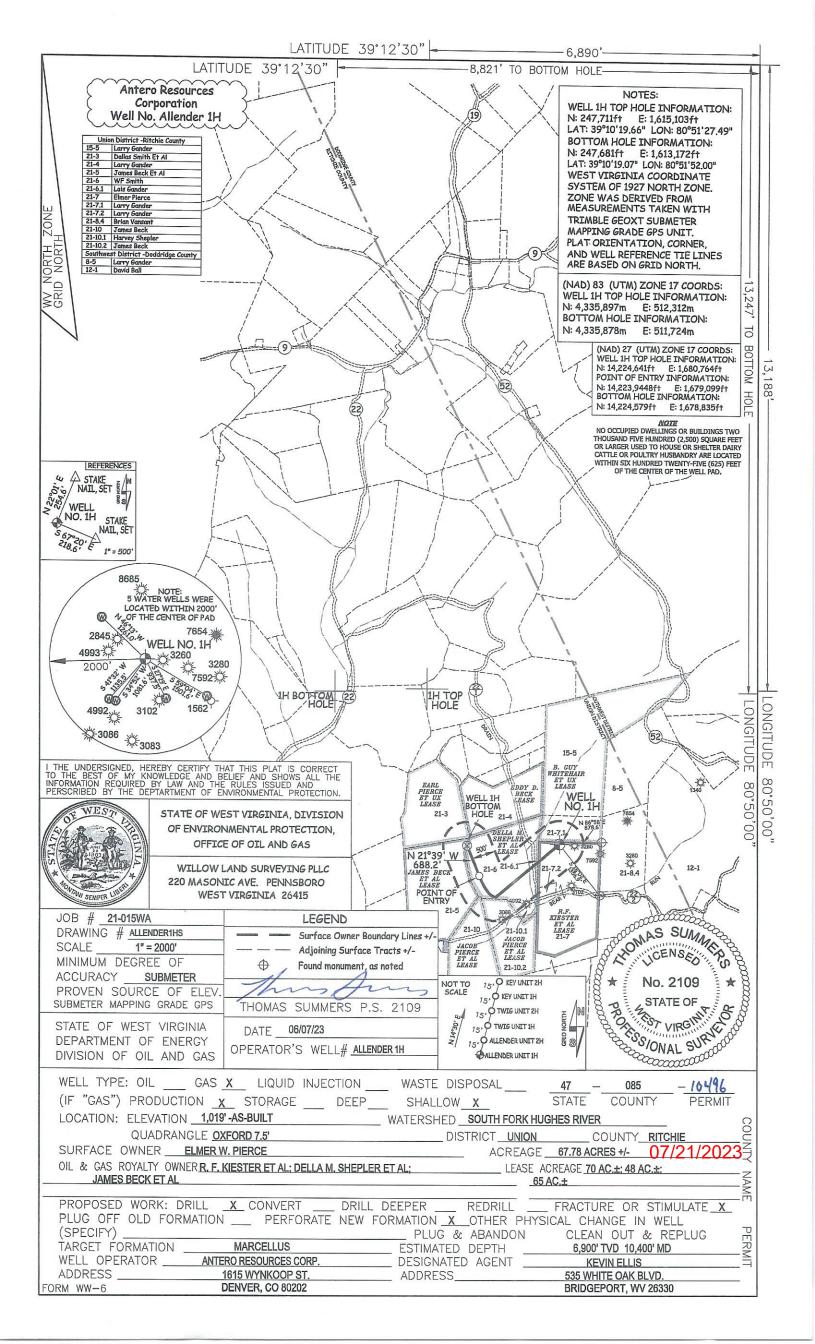
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:	
Comments:	
	Office of Oil and Ga
	JUN 3 0 2023
	WV Department of Environmental Protection

Title: OOG_{7} T-n spector / Date: <math>06/27/2023Field Reviewed? (X) Yes () No







Allender Unit 1H

Operator's Well Number

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
R. F. Kiester et al Lease: R. F. Kiester, et al G. L. Yaste D. L. Y., Inc Betty Jean Stalnaker & Rosalee Roberts R & S Gas Company BET-RO Inc Roberts Energy Corporation	G.L. Yaste D. L. Y., Inc Betty Jean Stalnaker & Rosalee Roberts R & S Gas Company BET-RO Inc Roberts Energy Corporation Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment	105/504 112/302 132/565 147/548 147/554 240/36 329/138
 ✓ Della M. Shepler et al Lease: Della M. Shepler, et al Alton Skinner Crystal G. Skinner and Desari S. Garrett D C Petroleum, Inc. Antero Resources Appalachian Corporation 	Alton Skinner Crystal G. Skinner and Desari S. Garrett D C Petroleum, Inc. Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Assignment Name Change	132/345 216/391 247/245 254/789 15/705

RECEIVED Office of Oil and Gas

JUN 1 4 2023

WV Department of Environmental Protection

*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.

WW-6A1 (5/13)

Operator's Well No. Allender Unit 1H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

- (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
James Beck et al Lease:				200101 450
	James Beck, et al	George L. Yaste dba Oil State Sales Company	1/8	100/516
	George L. Yaste dba Oil State Sales Company	D.L.Y. Inc	Assignment	112/302
	D.L.Y. Inc	Betty Jean Stalnaker & Rosalee Roberts dba		
	Betty Jean Stalnaker & Rosalee Roberts dba	R. & S. Gas Company	Assignment	132/565
	R. & S. Gas Company	R. & S. Gas Company, a partnership	Assignment	147/548
	R. & S. Gas Company, a partnership	BET-RO Inc	Assignment	147/554
	BET-RO Inc	Roberts Energy Corporation	Assignment	240/36
	Roberts Energy Corporation	Antero Resources Corporation	Assignment	329/138

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 Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- . County Floodplain Coordinator

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 In Tledy				
Its:	Senior Vice President of Land				

JUN 1 4 2023

WV Department of

Environmental Protection

Page 4 of 1



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

June 28, 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: Allender Unit 1H – 2H Quadrangle: Oxford 7.5' Ritchie County/Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permits for the Allender Unit 1H - 2H horizontal shallow wells. 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 Allender Unit 1H - 2H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Anthony Hoehler Landman

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: Pennsboro News

Public Notice Date: 05/24/2023 and 05/31/2023

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant:	Antero	Resources	Corporation	
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Well Number: Allender Unit 1H

Address:	1615	Wynkoop	St.	Denver,	CO	80202
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Business Conducted: Natural gas production.

Location -

State:	West Virginia		County:	Ritchie	
District:	Union		Quadrangle:	Oxford	
UTM Coor	dinate NAD83 Northing:	4335897m	_		
UTM coor	dinate NAD83 Easting:	512312m			
Watershed	South Fork Hughes River				

Coordinate Conversion:

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

Electronic notification: $O_{\text{ffice}} \cap PECEIVED$ To receive an email when applications have been received or issued by the Office of Oil and Gas, $\forall isit_{not} \in G_{\text{RS}}$ http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up. JUN 1 4 2023

Reviewing Applications: 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 of 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

Date of Notice Certification: 06/09/2023

API No. 47- 085	-
Operator's Well No.	Allender Unit 1H
Well Pad Name: Ca	ashew Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	512312.438m	
County:	Ritchie	UTMINAD 85 Northing	4335897m	
District:	Union	Public Road Access:	Sugar Run Road	
Quadrangle:	Oxford 7.5'	Generally used farm name:	Elmer W. Pierce	
Watershed.	South Fork Hughes River	UPX		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

OOG OFFICE USE ONLY
RECEIVED/ NOT REQUIRED
□ RECEIVED
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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:

THEREFORE, I Jon McEvers

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street
By:	Jon McEvers	vert	Denver, CO 80202
Its:	Senior VP of Operations	Facsimile:	303-357-7373
Telephone:	303-357-6799	Email:	cmarvel@anteroresources.com
N	NOTARY SEAL ARLY RAYNE MARVEL Notary Public State of Colorado otary ID # 20224038743 mmission Expires 10-05-2026	Subscribed and swo <u>CAPUS</u> <u>p</u> My Commission E	torn before me this g day of $Une 202.3$ Mne Marel Notary Public pires 10-6-2021e

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 <u>depprivacyofficer@wv.gov</u>.

Office PECEIVED of Oil and Gas JUN I & 2023 WV Department of Environmental profection

API NO. 47-085 -OPERATOR WELL NO. Allender Unit 1H Well Pad Name: Cashew Pad

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Dat	e of Notice: 6/12/2023	Date Permit Applica	ation Filed: 6/12/2023
Not	ice of:		
√	PERMIT FOR ANY WELL WORK		ICATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Deli	ivery method pursu	ant to West Virginia C	Code § 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Z Application Notice Z WSSP Notice Z E&S Plan Notice Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	□ COAL OWNER OR LESSEE
Name: Elmer W. Pierce	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: 1634 Pleasant Hollow Road	Address:
West Union, WV 26456	lu and o
Name: Larry & Lois Gander	COAL OPERATOR
Address: 2249 Clairmont Drive	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Pittsburgh, PA 15241	Address:
□ SURFACE OWNER(s) (Road and/or Other Disturbance)	mentarinen
Name:	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,
Address:	SPRING OR OTHER WATER SUPPLY SOURCE
	Name: PLEASE SEE ATTACHMENT
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47- 085

OPERATOR WELL NO. Allender Unit 1H Well Pad Name: Cashew Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Ortic REC Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may have 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: Environmental Protection Wy Department of

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

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

WW-6A (8-13)

4708510496 API NO. 47-085

OPERATOR WELL NO. Allender Unit 1H Well Pad Name: Cashew Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

JUN 1 4 2023

WV Department of Environmental Protection

WW-6A (8-13)	4708510496 API NO. 47-085 OPERATOR WELL NO. Allender Unit 1H
	Well Pad Name: Cashew Pad
Notice is hereby given by: Well Operator: Antero Resources Corporation	MEVERATORESS: 1615 Wynkoop Street
Telephone: (303) 357-7373	Denver, CO 80202
Email: cmarvel@anteroresources.com	Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of 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.

CARLY RAYNE MARVEL Notary Public State of Colorado Notary ID # 20224038743 My Commission Expires 10-05-2026	Subscribed and sworn before me this 8 day of JUNE, 2023. <u>CAPLY PAYNE MARVEL</u> Notary Public My Commission Expires 10-5-2020
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RECEIVED Office of Oil and Gas

JUN 1 4 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.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: ______ Date Permit Application Filed: ______

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

□ HAND	□ CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name:	Name:	
Address:	Address:	

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	UTM NAD 83 Easting:
County:	Northing:
District:	Public Road Access:
Quadrangle:	Generally used farm name:
Watershed:	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

Well Operator: Address:	 Authorized Representative: Address:	
Telephone:	Telephone:	
Email:	Email:	
Facsimile:	Facsimile:	

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.



WW-6A5 (1/12)

Operator Well No.

4708510496 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: _____ Date Permit Application Filed: _____

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:	Name:
Address:	Address:

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:		NAD 83	Easting:	
County:		NAD 85	Northing:	
District:	Public	Road Acces	ss:	
Quadrangle:	Gener	ally used far	m name:	
Watershed:				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	Address:
Telephone:	
Email:	Facsimile:

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 <u>deprivacyofficer@wv.gov</u>.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Gregory L. Bailey, P.E. Interim State Highway Engineer

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

June 7, 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 Cashew Pad, Doddridge County Allender Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2019-0091 which has been issued to Antero Resources for access to the State Road for a well site located off Doddridge County Route 52 SLS MP 2.97.

This operator is in compliance with §22-6A-20 of the WV Code. The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator Office of Oil and Gas

JUN 142023

WV Department of Environmental Protection

File

Carly Marvel

Antero Resources CH, OM, D-4

Cc:

E.E.O./AFFIRMATIVE ACTION EMPLOYER

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. Fr	resh Water	7732-18-5
2. 2	Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
	mmonium Persulfate	7727-54-0
4. Ar	nionic copolymer	Proprietary
	nionic polymer	Proprietary
6. B ⁻	TEX Free Hydrotreated Heavy Naphtha	64742-48-9
	ellulase enzyme	(Proprietary)
8. De	emulsifier Base	(Proprietary)
9. Et	thoxylated alcohol blend	Mixture
	thoxylated Nonylphenol	68412-54-4
	thoxylated oleylamine	26635-93-8
	thylene Glycol	107-21-1
	lycol Ethers	111-76-2
	uar gum	9000-30-0
	ydrogen Chloride	7647-01-0
	ydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	opropyl alcohol	67-63-0
	quid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	licroparticle	Proprietary
	etroleum Distillates (BTEX Below Detect)	64/42-4/-871Ce 26 CEIVED
	olyacrylamide	57-55-6 Dij and a
	ropargyl Alcohol ropylene Glycol	Proprietary 64742-47-871000 RECEIVED 57-55-6 Or Oil and Gas
23. PI 24. QI		57-55-6 4 2022
	llica crystalline quartz	14808-60-200 - 00-200
	odium Chloride	14808-60-7 Spartment of 7631-86-99 ental Protection 7647-14-5 1310-73-2
	odium Hydroxide	CUC
27. Sc 28. Su		
	urfactant	57-50-1 68439-51-0
200475-000 - 20020	uspending agent (solid)	14808-60-7
	ar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	blvent Naptha, petroleum, heavy aliph	64742-96-7
	bybean Oil, Me ester	67784-80-9
	opolymer of Maleic and Acrylic Acid	52255-49-9
	ETA Phosphonate	15827-60-8
36. He	examythylene Triamine Penta	34690-00-1
37. Pł	nosphino Carboxylic acid polymer	71050-62-9
38. He	examethylene diamine penta	23605-74-5
39. 2-	Propenoic acid, polymer with 2 propenamide	9003-06-9
40. He	examethylene diamine penta (methylene phosphonic a	cid) 23605-74-5
	iethylene Glycol	111-46-6
	ethenamine	100-97-0
	olyethylene polyamine	68603-67-8
	oco amine	61791-14-8
45. 2-	Propyn-1-olcompound with methyloxirane	38172-91-7

(6-12)			
OPERATOR: Antero Resources Corp.	WELL NO: Allender Unit 1H		
PAD NAME: Cashew Pad	-		
REVIEWED BY: Mallory Turco	_ SIGNATURE: May Tur		
WELL RESTRICTION	ONS CHECKLIST		
HORIZONTA	L 6A WELL		
Well Restrictions			
At Least 100 Feet from Pad and LOD (i Perennial Stream, Lake, Pond, Reservoi	including any E&S Control Feature) to any r or Wetland; OR		
DEP Waiver and Permit Condition	ons		
At Least 300 Feet from Pad and LOD (i Naturally Producing Trout Stream; OR	ncluding any E&S Control Feature) to any		
DEP Waiver and Permit Condition	ons		
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 Conditi	ons		
At Least 250 Feet from an Existing Wat Drilled; OR	ter Well or Developed Spring to Well Being		
Surface Owner Waiver and Reco	orded with County Clerk, OR		
DEP Variance and Permit Condi	itions		
At Least 625 Feet from an Occupied Dv	velling Structure to Center of the Padit OR and Gas		
Surface Owner Waiver and Reco	orded with County Clerk, OR JUN 1 4 2023		
DEP Variance and Permit Condi	tions WV Department of Environmental Protection		
At Least 625 Feet from Agricultural Bu of the Pad; OR	ildings Larger than 2500 Square Feet to the Center		
Surface Owner Waiver and Reco	orded with County Clerk, OR		
DEP Variance and Permit Condi	tions		

WW-6A7