

west virginia department of environmental protection

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

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

Friday, October 31, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for CHAP UNIT 5V

47-095-02953-00-00

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 Parent million 20 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.

> Vason Harmon Acting Chief

Operator's Well Number: CHAP UNIT 5V

Farm Name:

PATRICK A SHREVES & KATHRYN L MICHAEL

U.S. WELL NUMBER: 47-095-02953-00-00

Horizontal 6A New Drill

Date Issued: 10/31/2025

Promoting a healthy environment.

API Number: **47-095-02953**

PERMIT CONDITIONS

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

CONDITIONS

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

API NO. 47-095 9 5 0 2 9 5 3

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

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

		Control of the Contro		/	
1) Well Operator: Antero Res	ources Corpora	494507062	095 - Tyler	Lincoln	Paden City
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Cl	nap Unit 5V	Well Pac	Name: Chap	Pad	
3) Farm Name/Surface Owner:	Patrick A. Shreves & Kathryn	L. Michael Public Roa	d Access: Patt	erson Rd	
4) Elevation, current ground:	979' E	levation, proposed	oost-constructi	on: 978'	
5) Well Type (a) Gas X Other	Oil	Unde	rground Storag	ge	
(b)If Gas Sha	allow X	Deep			
Ho	rizontal X				
6) Existing Pad: Yes or No No	/				
7) Proposed Target Formation(s					
Marcellus Shale: 6500' TVD, A		ess- 55 feet, Associa	ted Pressure- 2	800# /	
8) Proposed Total Vertical Dept		/	10.000 major - 10.00		Parist Con
9) Formation at Total Vertical D	epth: Marcellus	; (
10) Proposed Total Measured D	epth: 6500' MD				
11) Proposed Horizontal Leg Le	ngth: 0'				
12) Approximate Fresh Water S	trata Depths:	518'			
13) Method to Determine Fresh	Water Depths: 4	7-095-00151 /			
14) Approximate Saltwater Dept	hs: 1866'				RECEIVED Office of Oil and Gas
15) Approximate Coal Seam De	pths: 530'				SEP 3 0 2025
16) Approximate Depth to Possi	ble Void (coal mi	ne, karst, other): $\underline{\ }$	lone Anticipat	ed	140.4
17) Does Proposed well location directly overlying or adjacent to		ns Yes	No		wV Department of vironmental Protection
(a) If Yes, provide Mine Info:	Name:				
	Depth:			A.C.	
	Seam:				
	Owner:				

API NO. 47-095 0 9 5 0 2 9 5 3

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

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	568	568	CTS, 592 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#	6500'	6500' /	710 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners					in in		

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

RECEIVED
Office of Cil and Gas
SEP 3 0 2025

PACKERS

		FACKERS	WV Department of
Kind:	N/A		WV Department of Environmental Protection
Sizes:	N/A		
Depths Set:	N/A		

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

	19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
	Drill, perforate, fracture a new shallow well and complete Marcellus Shale.
-	
	20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
	Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for

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

Fracturing or Stimulating Well."

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.04 acres

22) Area to be disturbed for well pad only, less access road (acres): 3.99 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

Office of Oil and Gas

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

Conductor: no additives, Class A/L cement.

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

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

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

WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

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

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

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

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

*Note: Attach additional sheets as needed

Page 3 0/3 1/2025
Digitally signed by Stephen
Mccoy
Mccoy
Date: 2025 09 30 10 12:40 -04/00/

WW-9 (4/16)

APT	Number	47 -	095
TYYT	TATTERNET	4 1 -	000

Operator's Well No. Chap Unit 5V

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

LEODS! COLUMOS DISPO	DSAL & RECLAMATION PLAN	
Operator Name Antero Resources Corporation	OP Code 494507062	
Watershed (HUC 10) Outlet Middle Island Creek	Quadrangle Paden City	and the same of th
Do you anticipate using more than 5,000 bbls of water to comple	ete the proposed well work? Yes No	
Will a pit be used? Yes No	- American	l-
If so, please describe anticipated pit waste: No pit will be used	d at this site (Drilling and Flowback Fluids will be stored in tenks. Cuttings will be tanked and hai	iled off site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A	•
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
	Number_*UIC Permit # will be provided on Form WR-34)
Off Site Disposal (Supply form WW-	well locations when applicable. API# will be provided on Form WR-34 9 for disposal locatior(Meadowfill Landfill Permit #SWF	1032-08)
Other (Explain	Northwestern Landfill Permit #SW	F-1025/
	WV0109410 Wetzel Co Landfill Permit #SWF-1	021
Will closed loop system be used? If so, describe: Yes, fluids stor	red in tanks, cuttings removed offsite and taken to landfi	11.
Drilling medium anticipated for this well (vertical and horizontal))? Air, freshwater, oil based, etc. Surface - Air/Freshwater, Internedia Dust/Stiff Foam, Production - Water	te - Based Mud
-If oil based, what type? Synthetic, petroleum, etc. Synt	hetic	
Additives to be used in drilling medium? Please See Attachment		
Drill cuttings disposal method? Leave in pit, landfill, removed of	ffsite, etc. Drill cuttings stored in tanks, removed offsite and taker	to landfill.
-If left in pit and plan to solidify what medium will be us		- Maria de la companya de la company
-Landfill or offsite name/permit number? Meadowfill Landfi	THE STATE OF THE S	/04004403
Wetzel Co Landfil	II (Permit #SWF-1021)	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	s of any load of drill cuttings or associated waste rejection and the permittee shall also	ted at any disclose
I certify that I understand and agree to the terms and con on August 1, 2005, by the Office of Oil and Gas of the West Virgi provisions of the permit are enforceable by law. Violations of an law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based obtaining the information, I believe that the information is true penalties for submitting false information, including the possibility	mia Department of Environmental Protection. I under my term or condition of the general permit and/or of examined and am familiar with the information submon my inquiry of those individuals immediately rest, accurate, and complete. I am aware that there are yof fine or imprisonment.	stand that the ner applicable nitted on this sponsible for re significant ECEIVED of Oil and Gas
Company Official Signature Gretchen Kohler Company Official (Typed Name) Gretchen Kohler	SEP	30 2025
	WAYTE	
Company Official Title Director of Environmental & Regulatory Com	npliance Environme	partment of ntal Protection
1 also A	20 (1)	Maria Caraca Car
Subscribed and sworn before me this day of 7	My MJ+ , 20_25	
Cally Paune Ween	Notary Public CARLY F	RAYNE WREN
Ay commission expires 111-6-24	NOTAL	RY PUBLIC
a) available expires 111	TATE OF	COLORADO 0/31/2025
	FAMISSION EX	PIRES OCTOBER



Antero Resources

Fax 303.357.7315

1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310

September 26th, 2025

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

RE: Request for Variance – Class L Cement Chap Unit 5V Tyler County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal well (Chap Unit 5V) on the Chap pad.

Antero only plans to use this method if Class A cement is not available to be use due to supply issues. Please see Order No 2022-14 attached.

If you have any questions or need further information, please feel free to contact Mallory Turco, Permitting Manager, at (303) 357-7182 or email at mturco@anteroresources.com.

Sincerely.

Carly Wren

Permitting Agent

Antero Resources Corporation

RECEIVED Office of Oil and Gas

SEP 29 2025



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450

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

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

IN THE MATTER OF A VARIANCE FROM)		
LEGISLATIVE RULE 35CSR4	ĺ	ORDER NO.	2022-14
SECTION 11.5 AND LEGISLATIVE RULE)		
35CSR8 SECTION 9.2.h.8.,)		
RELATING TO THE CEMENTING)		
OF OIL AND GAS WELLS)		

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

- On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
- Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a
 variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in
 place of API Class A cement, relating to the construction of vertical wells.

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4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

MMISSION EXPIRES OCTOBER 05, 2026

WW-9 (4/16)

API Number 47 - 095

Operator's Well No. Chap Unit 5V

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

	COME & RECEASIATION FLAN	
Operator Name Antero Resources Corporation	OP Code 49450706	2
Watershed (HUC 10) Outlet Middle Island Creek	Quadrangle Paden City	ALCOHOLOGO CONTRACTOR
Do you anticipate using more than 5,000 bbls of water to comp Will a pit be used? Yes No		No [
	used at this site (Drilling and Flowback Fluxds will be stored in tanks. Cuttin	os will be tanked and hauted off site)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A	D diese de la contract
Proposed Disposal Method For Treated Pit Wastes:	II SO, WHAT HILL: TWA	
Land Application		
	t Number *UIC Permit # will be provided on F	orm WR-34
Reuse (at API Number Future permitte	d well locations when applicable. API# will be provided	on Form WR-34
Off Site Disposal (Supply form WW Other (Explain	V-9 for disposal location (Meadowfill Landfi Northwestern Land WV0109410	II Permit #SWF-1032-98) fill Permit #SWF-1025/
Will closed loop system be used? If so, describe: Yes, fluids si	Wetzel Co Landfill	Permit #SWF-1021
		- Air/Freshwater, Intermediate -
Drilling medium anticipated for this well (vertical and horizont		ff Foam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, etc. Sy	/nthetic	
Additives to be used in drilling medium? Please See Attachment		
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. Drill cuttings stored in tanks, remove	ed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be		
-Landfill or offsite name/permit number? Meadowfill Landfill		nit # SWF-1025/WV0109410)
Wetzel Co Land	dfill (Permit #SWF-1021)	
Permittee shall provide written notice to the Office of Oil and G West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	ias of any load of drill cuttings or associat within 24 hours of rejection and the perm	ed waste rejected at any ittee shall also disclose
I certify that I understand and agree to the terms and come August 1, 2005, by the Office of Oil and Gas of the West Vironovisions of the permit are enforceable by law. Violations of aw or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based bataining the information, I believe that the information is translation for submitting false information, including the possibility.	eginia Department of Environmental Protection of the general per examined and am familiar with the inficon my inquiry of those individuals in ue, accurate, and complete. Lam awar	ection. I understand that the mit and/or other applicable ormation submitted on this
company Official Signature Gretchen Kohler		
ompany Official (Typed Name) Gretchen Kohler		**************************************
ompany Official Title Director of Environmental & Regulatory Co	ompliance	
ubscribed and sworn before me this 28 day of 7	tugust, 20 25	
Carry Rayive Weer	Notary Public	CARLY RAYNE WREN
y commission expires $10-6-2$	LP	NOTARY PUBLIC TATE OF COLORADO NOTAR 10/3/1/2025

	Onerator's	Well No. Chap Unit 5V
Antero Resources Corporation	Орогиот з	WCHING.
Proposed Revegetation Treatment: Acres Disturbed 14.0	Prevegetation p	Н
Lime 2-4 Tons/acre or to correct to	o pH 6.5	
Fertilizer type Hay or straw or Wood Fiber (will be	used where needed)	
Fertilizer amount 500	lbs/acre	
Mulch 2-3	ons/acre	
	94') & Excess/Topsoil Material Stockpiles (9.52) + Well	Pad (3.99) = 14.04 Acres
Temporary	Perm	anent
Seed Type lbs/acre	Seed Type	lbs/acre
Annual Ryegrass 40	Crownvetch	10-15
Field Bromegrass 40	Tall Fescue	30
See attached Table IV-3 for additional seed type (Chap Pad Design)	See attached Table IV-4A for addition	al seed type (Chap Pad Design)
Attach: Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include creage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	*or type of grass seed requestion (unless engineered plans include dimensions (L x W x D) of the pit, and	ested by surface owner
Attach: Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include creage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	*or type of grass seed requestion (unless engineered plans inclu	ested by surface owner
Attach: Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include creage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Stephen Mccoy Dig Date of the land approved by:	*or type of grass seed requestion (unless engineered plans include dimensions (L x W x D) of the pit, and sitally signed by Stephen Mccoy te: 2025.09.30 10:13:48 -04'00'	ding this info have been dimensions (L x W), and area in
Attach: Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include creage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Stephen Mccoy Dig Date of the land approved by:	*or type of grass seed requestion (unless engineered plans include dimensions (L x W x D) of the pit, and sitally signed by Stephen Mccoy te: 2025.09.30 10:13:48 -04'00'	ding this info have been dimensions (L x W), and area in
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	*or type of grass seed requestion (unless engineered plans include dimensions (L x W x D) of the pit, and sitally signed by Stephen Mccoy te: 2025.09.30 10:13:48 -04'00'	ding this info have been dimensions (L x W), and area in

Title:

Field Reviewed?

(_____) No



911 Address 706 Patterson Rd Sistersville, WV 26175

Well Site Safety Plan Antero Resources

Well Name: Chap Unit 5V

Pad Location: CHAPPAD

Tyler County/Lincoln District

RECEIVED
Office of Oil and Gas

SEP 3 0 2025

WV Department of Environmental Protection

GPS Coordinates:

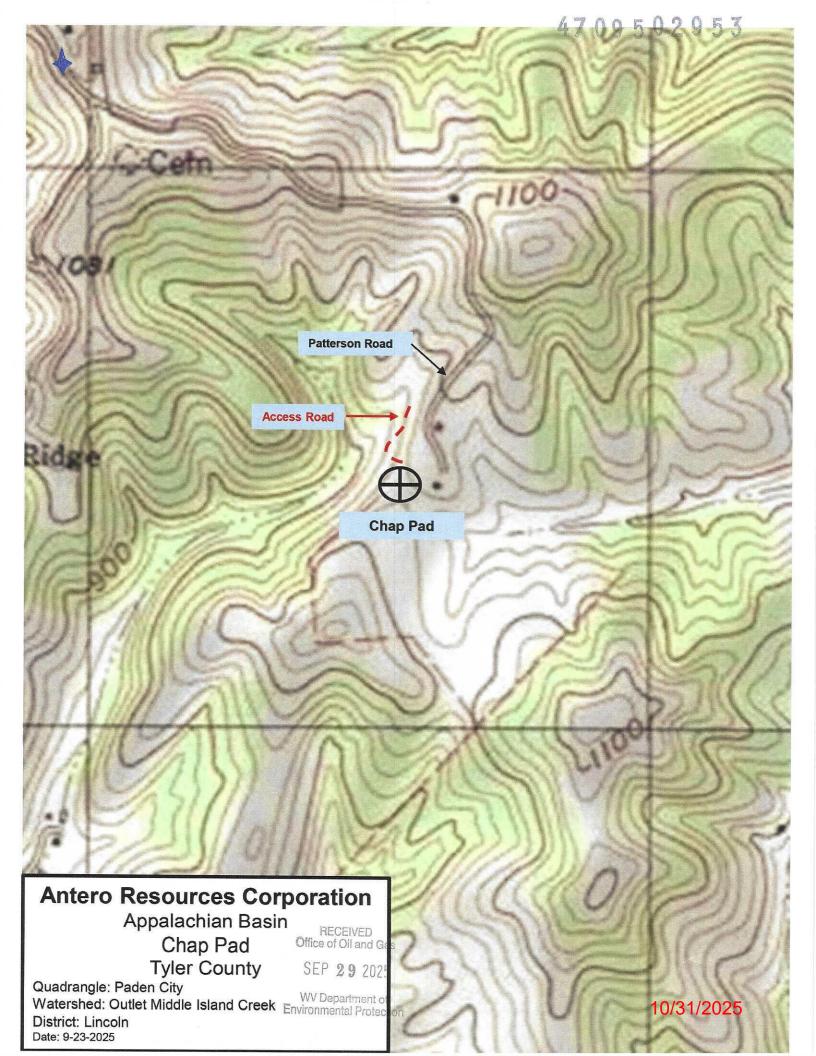
Entrance - Lat 39.531422/Long -80.980815 (NAD83)

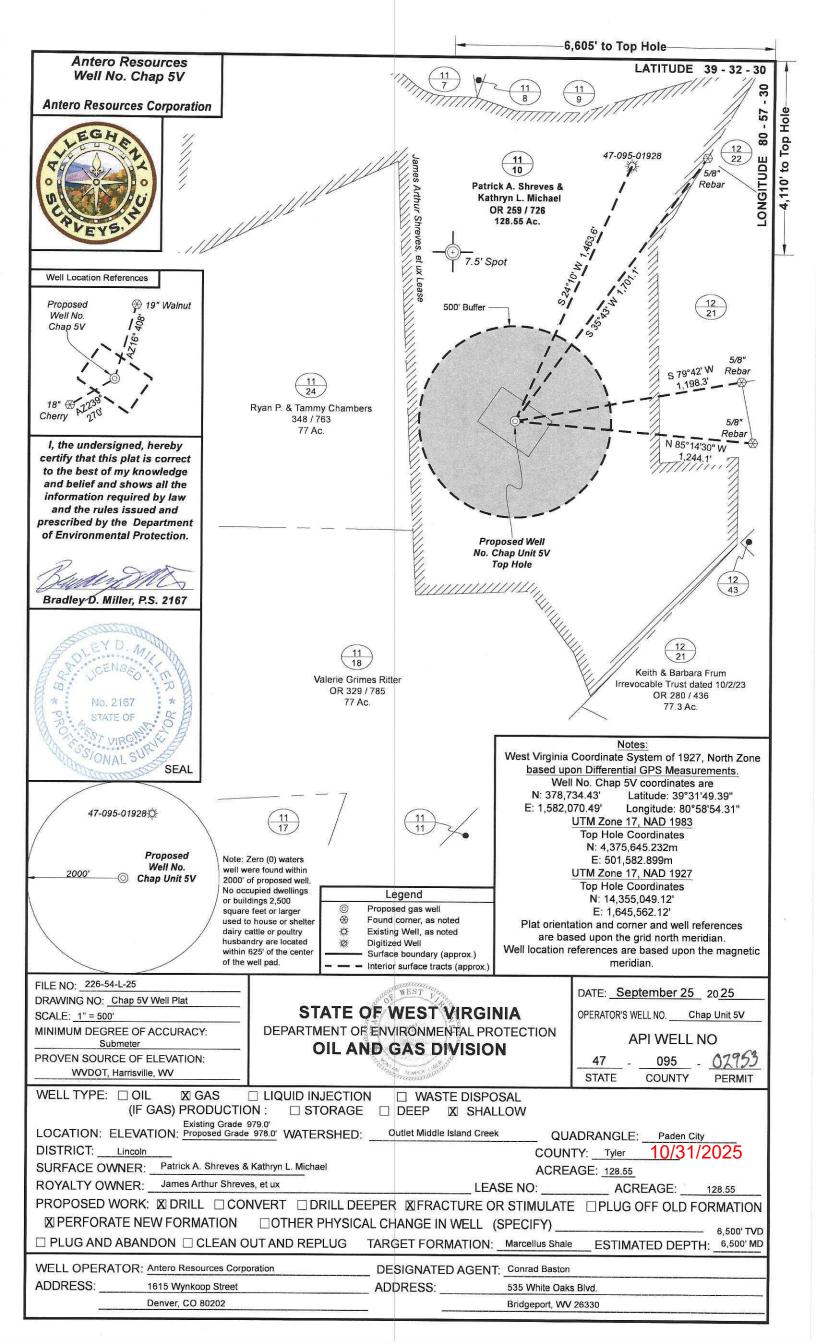
Pad Center - Lat 39.530229/Long -80.981335 (NAD83)

Driving Directions:

From WV-18, turn south onto CO. 4 and travel for 0.9 miles. Turn left onto Smith Ridge Road and travel for 0.8 miles. The Chap Lease Road is straight ahead.

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





Operator's Well No. Chap Unit 5V

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
James Arthur Shreves, et ux Lease:				
	James Arthur Shreves, et ux Triad Energy Corporation	Triad Energy Corporation Antero Resources Corporation	1/8+ Assignment	349/648 479/484

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

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

RECEIVED
Office of Oil and Gas

SEP 29 2025

WV Department of Environmental Protection

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

Well Operator:

By:

Max Green

Vice President of Land

Page 1 of 1



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

September 26, 2025

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

RE:

Chap Unit 5V

Quadrangle: Paden City

Tyler County/Lincoln District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Chap Unit 5V horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Chap Unit 5V horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Margaret Higuera Sparks Landman Associate

Margaret Sparks

RECEIVED
Office of Oil and Gas

SEP 29 2025

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given: Pursuant to West Virginia Code 22 64 10(a) prior to filing a positive in figure 1. It is a larger to the state of the state
Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.
Paper: Tyler Star News
Public Notice Date: 8/20/2025 & 8/27/2025
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 / Well Number: Chap Unit 5V /
Address: 1615 Wynkoop St. Denver, CO 80202
Business Conducted: Natural gas production.
Location –
State: West Virginia / County: Tyler District: Lincoln / Ouadrangle: Paden City
District: Lincoln Quadrangle: Paden City UTM Coordinate NAD83 Northing: 4375645.23m
UTM coordinate NAD83 Fasting: Watershed: Outlet Middle Island Creek 501582.90m
Coordinate Conversion: To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php
Electronic notification: To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.
Reviewing Applications: Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov .
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 57 th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

application is received by the Office of Oil and Gas.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit

Date of Notice Certification: 09/25/2025

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

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 lise below for the tract of land as follows: State: West Virginia County: Tyler UTM NAD 83 Leasting: Northing: Public Road Access: Generally used farm name: Watershed: Outlet Middle Island Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator tha it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a re of giving the surface owner; and Pursuant to Wirginia Code § 22-6A-1(b), the applicant shall tender proof of of this article have been completed by the applicant shall tender proof of and certify to the secretary that the notice requirements of subsection (b), section sixteen of this article have been completed by the applicant shall tender proof of and certify to the secretary that the notice requirements of section of this article have been completed by the applicant shall tender proof of and certify to the secretary that the notice requirements of section of this article have been completed by the applicant shall tender proof of and certify to the secretary that the notice requirements of section of this article have been completed by the applicant shall tender proof of and certify to the secretary that the notice requirements of section of this article have been completed by the applicant shall tender proof of and certify to the secretary that the notice requirements of section of this article have been completed by the applicant of this article have been completed by the applicant of the secretary that the notice requirement of the applicant of the	Date of Notic	ce Certification: 09/25/2025			API No. 47	7_ 095 _	
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Office of Oil and Goo					RECE Office of O	EIVED	☐ RECEIVED
■ 5. PUBLIC NOTICE SEP 29 2025	■ 5. PUB	BLIC NOTICE					☐ RECEIVED
6. NOTICE OF APPLICATION WV Department of Environmental Protection RECEIVED	■ 6. NOT	TICE OF APPLICATION		Edde	WV Depa	rtment of	☐ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I Jen Homemann , 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.

Address:

Well Operator: Antero Resources Corporation

By: Jen Hornemann

VP of Production

Denver, CO 80202 Facsimile: 303-357-7373

Telephone: 303-357-7255

Email: cwren@anteroresources.com

1615 Wynkoop Street

CARL NOTARY SEAT N
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224038743
MY COMMISSION EXPIRES OCTOBER 05, 2026

Subscribed and sworn before me this Zoday of Stotel Notary Public

My Commission Expires____

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, appropriately secure your personal information. If you have any personal information information, please contact DEP's Chief Privacy Officer at <a href="mailto:depth depth de

RECEIVED
Office of Oil and Gas

SEP 29 2015

API NO. 47-095 0 9 5 0 2 9 5 3

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

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 9/26/2025 Date Permit Application Filed: 9/26/2025 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION 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. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Kathryn L. Michael & Patrick Shreves Address: 1849 Smith Ridge Rd Address: Sistersville, WV 26175 Name: ☐ COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) WATER PURVEYOR(s)/OWNER(s) OF WATER WELL. Name: SPRING OR OTHER WATER SUPPLY SOURCE Address: Name: NONE WITHIN 1500' Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: RECEIVED
Office of Oil and Gas ☐ SURFACE OWNER(s) (Impoundments or Pits) Address: Address: *Please attach additional forms if necessary WV Department of

47 09 5 0 2 9 5 3 API NO. 47- 095

OPERATOR WELL NO. Chap Unit 5V

Well Pad Name: Chap Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Well Location Restrictions

SEP 29 2025

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

47 09 5 0 2 9 5 3

OPERATOR WELL NO. Chap Unit 5V

Well Pad Name: Chap Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

SEP 29 2025

WV Department of Environmental Protection

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

4709502953

API NO. 47-095

OPERATOR WELL NO. Chap Unit 5V

Well Pad Name: Chap Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

SEP 29 2025

47 09 5 0 2 9 5 3 PI NO. 47-095

OPERATOR WELL NO. Chap Unit 5V

Well Pad Name: Chap Pad

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

Notice is hereby given by:
Well Operator: Antero Resources Corporation

Email: cwren@anteroresources.com

Telephone: (303) 357-7373

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, 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 dephone 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 including Freedom of Information Act requests. Our office will questions about our use or your personal information, please contact DEP's Chief Privacy Officer at dephone 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, 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 dephone number, as part of our regulatory duties.

My Commission Expires

CARLY RAYNE WREN
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224038743
MY COMMISSION EXPIRES OCTOBER 05, 2026

Subscribed and sworn before me this 25 day of SRP. 2025.

CARLY RAWNE WEEN Notary Public

RECEIVED Office of Oil and Gas SEP 29 2025

4709502953 Operator Well No. Chap Unit 5V

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

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

Notice Time Date of Notice		rovided at least TEN (10) days prior to filing Date Permit Application Filed: 09/26/2025	a permit application.
Delivery met	hod pursuant to West Virginia	a Code § 22-6A-16(b)	
☐ HAND	CENTREPO M	ATT	
	■ CERTIFIED MA	99/55/99/95	
DELIVE	RY RETURN RECI	EIPT REQUESTED	
receipt reques drilling a hori of this subsect subsection ma	ted or hand delivery, give the su zontal well: <i>Provided</i> , That not tion as of the date the notice was by be waived in writing by the su	ast ten days prior to filing a permit application arface owner notice of its intent to enter upon tice given pursuant to subsection (a), section to subsection (b), section to subsection (c), section to subsection (d), section to subsection (e), section to subsection (e), section to subsect of the operator and t	the surface owner's land for the purpose of ten of this article satisfies the requirements wever, That the notice requirements of this clude the name, address, telephone number.
	reby provided to the SURFA		
	Michael & Patrick Shreves	Name:	
Address: 1849		Address:	
Sistersville, WV 2	6175		The state of the s
the surface ow State:	ner's land for the purpose of dri West Virginia	o), notice is hereby given that the undersigned illing a horizontal well on the tract of land as f UTM NAD 83	ollows: 501582.90
County: District: Quadrangle: Watershed:	Tyler Lincoln Paden City Outlet Middle Island Creek	Public Road Access: Generally used farm name:	4375645.23 Patterson Rd Kathryn L. Michael & Patrick Shreves
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori	Lincoln Paden City Outlet Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16 aber and electronic mail address zontal drilling may be obtained	Public Road Access: Generally used farm name: 6(b), this notice shall include the name, adds of the operator and the operator's authorized from the Secretary, at the WV Department of the Secretary.	Patterson Rd Kathryn L. Michael & Patrick Shreves Peress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters.
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to horilocated at 601	Lincoln Paden City Outlet Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16 aber and electronic mail address zontal drilling may be obtained	Public Road Access: Generally used farm name: 6(b), this notice shall include the name, adds of the operator and the operator's authorize	Patterson Rd Kathryn L. Michael & Patrick Shreves Peress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters.
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her	Lincoln Paden City Outlet Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16 ber and electronic mail address zontal drilling may be obtained 57 th Street, SE, Charleston, WV	Public Road Access: Generally used farm name: 6(b), this notice shall include the name, adds of the operator and the operator's authorized from the Secretary, at the WV Department of the Secretary.	Patterson Rd Kathryn L. Michael & Patrick Shreves Aress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, tep.wv.gov/oil-and-gas/pages/default.aspx.
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to horilocated at 601	Lincoln Paden City Outlet Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16 aber and electronic mail address zontal drilling may be obtained 57 th Street, SE, Charleston, WV	Public Road Access: Generally used farm name: 6(b), this notice shall include the name, add so of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	Patterson Rd Kathryn L. Michael & Patrick Shreves Aress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, tep.wv.gov/oil-and-gas/pages/default.aspx.
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her Well Operator Address:	Lincoln Paden City Outlet Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16 aber and electronic mail address zontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by: Antero Resources Corporation	Public Road Access: Generally used farm name: 6(b), this notice shall include the name, adds of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.d	Patterson Rd Kathryn L. Michael & Patrick Shreves Aress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, are wv.gov/oil-and-gas/pages/default.aspx. Mallory Turco
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her Well Operator Address:	Lincoln Paden City Outlet Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16 aber and electronic mail address zontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by: Antero Resources Corporation 1615 Wynkoop St.	Public Road Access: Generally used farm name: 6(b), this notice shall include the name, adds of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.d	Patterson Rd Kathryn L. Michael & Patrick Shreves Aress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, are wv.gov/oil-and-gas/pages/default.aspx. Mallory Turco 1615 Wynkoop St. Denver, CO 80202
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her Well Operator	Lincoln Paden City Outlet Middle Island Creek Shall Include: Vest Virginia Code § 22-6A-16 ber and electronic mail address zontal drilling may be obtained 57 th Street, SE, Charleston, WV Teby given by: Antero Resources Corporation 1615 Wynkoop St. Denver, CO 80202	Public Road Access: Generally used farm name: 6(b), this notice shall include the name, adds of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.d	Patterson Rd Kathryn L. Michael & Patrick Shreves Aress, telephone number, and if available, ted representative. Additional information of Environmental Protection headquarters, tep.wv.gov/oil-and-gas/pages/default.aspx. Mallory Turco 1615 Wynkoop St. Denver, CO 80202

Oil and Gas Privacy Notice:

WV Department of The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatoryclion 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.

4709 5029 5 3 Operator Well No. Chap Unit 5V

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

	e Requirement: notice shall be provided no lice: 09/26/2025 Date Permit App	ater than the filing lication Filed: 09/3		application.
Delivery m	ethod pursuant to West Virginia Code § 22	-6A-16(c)		
■ CERT	TFIED MAIL	HAND		
KEI	TAN RECEIPT REQUESTED	DELIVERY		
return receip the planned required to l drilling of a damages to	W. Va. Code § 22-6A-16(c), no later than the trequested or hand delivery, give the surface operation. The notice required by this subsection (b), section ten of the horizontal well; and (3) A proposed surface the surface affected by oil and gas operations descripted by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this subscript.	e owner whose land section shall inclu his article to a surf e use and compen- to the extent the da	d will be used for de: (1) A copy face owner whose sation agreement amages are com	or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter.
NT -41 - 1 - 1 -	I I A CUREACE ONNERS			
(at the addre	reby provided to the SURFACE OWNER(ess listed in the records of the sheriff at the time	s)		
	n L. Michael & Patrick Shreves			
The state of the s	9 Smith Ridge Rd	Addres	s:	
Sistersville, WV	26175		***************************************	
operation of State: County:	West Virginia Code § 22-6A-16(c), notice is In the surface owner's land for the purpose of west Virginia Tyler	drilling a horizonta UTM NAD 8	l well on the tra	oct of land as follows: 501582.90m 4375645.23m
District:	Lincoln	Public Road		Patterson Rd
Quadrangle:	Paden City	Generally use	ed farm name:	Kathryn L. Michael & Patrick Shreves
Watershed:	Outlet Middle Island Creek			=
Pursuant to to be provide horizontal wasurface affectinformation	Shall Include: West Virginia Code § 22-6A-16(c), this notice the description of the descr	face owner whose pensation agreement the damages are contact and from the Secret	e land will be unt containing an ompensable und arv, at the WV	ased in conjunction with the drilling of a a offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Well Operat	OT: Antero Resources Corporation	Address:	4045 W	
Telephone:	303-357-7182	— Address.	1615 Wynkoop Stree	el
Email:	mturco@anteroresources.com	Facsimile:	Denver, CO 80202	
			303-357-7310	
	Privacy Notice: f Oil and Gas processes your personal inform	nation, such as nam	e, address and t	elephone 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.

SEP 29 2025

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

1900 Kanawha Boulevard East • Building Five • Room 109 Charleston, West Virginia 25305-0440 • (304) 558-0444

Michael J. DeMers
Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E. Secretary of Transportation Commissioner of Highways

September 12, 2025

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 Chap Well Pad, Tyler County Chap Unit 5V Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2025-9992 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Tyler County Route 4/1 SLS MP 0.731.

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

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

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Office of Oil and Gas

SEP 29 2025

WV Department of Environmental Protection

Cc: Carly Wren

Antero Resources Corporation OM, D-6

File

List of Anticipated Additives Used for Fracturing or Stimulating Well 4709502953

Additives	Chemical Abstract Service Number (CAS #)		
resh Water	7732-18-5		
Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1		
mmonium Persulfate	7727-54-0		
nionic copolymer	Proprietary		
nionic polymer	Proprietary		
TEX Free Hydrotreated Heavy Naphtha	64742-48-9		
ellulase enzyme	Proprietary		
Demulsifier Base	Proprietary		
thoxylated alcohol blend	Mixture		
thoxylated Nonylphenol	68412-54-4		
ithoxylated oleylamine	26635-93-8		
thylene Glycol	107-21-1		
Glycol Ethers	111-76-2		
Guar gum	9000-30-0		
lydrogen Chloride	7647-01-0		
lydrotreated light distillates, non-aromatic, BTEX free	64742-47-8		
sopropyl alcohol	67-63-0		
quid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2		
Aicroparticle	Proprietary		
etroleum Distillates (BTEX Below Detect)	64742-47-8		
Polyacrylamide	57-55-6		
Propargyl Alcohol	107-19-7		
Propylene Glycol	57-55-6		
Quartz	14808-60-7		
illica, crystalline quartz	7631-86-9		
odium Chloride	7647-14-5		
odium Hydroxide	1310-73-2		
ugar	57-50-1		
Gurfactant	68439-51-0		
Suspending agent (solid)	14808-60-7		
Far bases, quinoline derivs, benzyl chloride-quaternized	72490-70-7 RECH		
Solvent Naphtha, petroleum, heavy aliph	64742-96-7		
Soybean Oil, Me ester	67784-80-9 SEP 2		
Copolymer of Maleic and Acrylic Acid	50055 40.0		
DETA phosphonate	52255-49-9 WV Department		
Hexamthylene Triamine Penta	34690-00-1		
Phosphino Carboxylic acid polymer	71050-62-9		
Hexamethylene Diamine Tetra	23605-75-5		
2-Propenoic acid, polymer with 2 propenamide	9003-06-9		
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5		
Diethylene Glycol	111-46-6		
Vethenamine	100-97-0		
Polyethylene polyamine	68603-67-8		
Coco amine	61791-14-8		
2-Propyn-1-olcompound with methyloxirane	38172-91-7		

WW-6A7 (6-12)

OPERATOR: Antero Resources Corp.	WELL NO: Chap Unit 5V
PAD NAME: Chap Pad	
REVIEWED BY: Mallory Turco	SIGNATURE: My Av-

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restriction	S		
	east 100 Feet from Pad and LO mial Stream, Lake, Pond, Rese	D (including any E&S Control Feature) to a rvoir or Wetland; OR	ny
	DEP Waiver and Permit Con	ditions	
	east 300 Feet from Pad and LO rally Producing Trout Stream;	D (including any E&S Control Feature) to a OR	ny
	DEP Waiver and Permit Con	ditions	
	east 1000 Feet from Pad and Lo Indwater Intake or Public Wate	OD (including any E&S Control Feature) to r Supply; OR	any
	DEP Waiver and Permit Cor	nditions	
-	east 250 Feet from an Existing ed; OR	Water Well or Developed Spring to Well Bo	eing
	Surface Owner Waiver and	Recorded with County Clerk, OR	
	DEP Variance and Permit C	onditions	
✓ At L	east 625 Feet from an Occupied	d Dwelling Structure to Center of the Pad; C)R
	Surface Owner Waiver and	Recorded with County Clerk, OR	
	DEP Variance and Permit C	onditions	
	east 625 Feet from Agricultura e Pad; OR	Buildings Larger than 2500 Square Feet to	the Center RECEIVED Office of Oil and Gas
	Surface Owner Waiver and	Recorded with County Clerk, OR	SEP 29 2025
	DEP Variance and Permit C	onditions	WV Department of Environmental Protection