

#### west virginia department of environmental protection

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

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

Thursday, November 20, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for Sampson Unit 5V

47-085-10572-00-00

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

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

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

Operator's Well Number:

Sampson Unit 5V Michael W Elder

Farm Name:

47-085-10572-00-00

U.S. WELL NUMBER:

Horizontal 6A New Drill

Date Issued: 11/20/2025

API Number: **47-085-10572** 

### 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 Number: **47-085-10572** 

### **PERMIT CONDITIONS**

- 12. Gas Well API# 47-085-01475 is a plugged well that may be altered during construction of the pad. The plugged well shall be monumented according to 35CSR4-5.5b or a variance will be required.
- 13. Gas Well API# 47-085-01545 currently owned by DEEM, J. F. OIL & GAS, LLC shall be permitted to plug and abandon per all WVDEP requirements prior to the construction of the well pad. The plugged well shall be monumented according to 35CSR4-5.5b or a variance will be required.

API NO. 47- 085 - 10572

OPERATOR WELL NO. Sampson Unit 5V

Well Pad Name: Sampson Pad

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

1) Well Operato	or: Antero	Resources	Corporat	494507062	085-Ritchie	Union	Harrisville
				Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number	: Sampson	Unit 5V	Well Pad	Name: Samp	son Pad	
3) Farm Name/	Surface Owi	ner: Michae	el W. Elder	Public Road	d Access: Pull	man Rd	
4) Elevation, cu	rrent ground	d: <u>1134'</u>	Ele	vation, proposed p	ost-construction	on: 1120'	
5) Well Type	(a) Gas Other	X	_ Oil	Unde	rground Storag	ge	
	(b)If Gas	Shallow Horizontal	X	Deep			
6) Existing Pad	: Yes or No	No					
, -	~	. , ,		pated Thickness ares- ss- 55 feet, Associa	-	` '	
8) Proposed To	tal Vertical I	Depth: 680	0' TVD				
9) Formation at	Total Vertic	cal Depth:	Marcellus				
10) Proposed To	otal Measure	ed Depth:	6800' MD				
11) Proposed H	orizontal Le	g Length:	0'				
12) Approximat	e Fresh Wat	ter Strata De	pths:	106', 558'			
13) Method to I	Determine F	resh Water I	Depths: 4	7-085-07462, 47-	085-01475		
14) Approximat	e Saltwater	Depths: No	one Found				
15) Approximat	e Coal Sean	n Depths: N	I/A				
16) Approximat	e Depth to F	Possible Voi	d (coal mir	ne, karst, other): 1	lone Anticipat	ed	
17) Does Propo directly overlyin				Yes	No	X	
(a) If Yes, pro	vide Mine Iı	nfo: Name	•				
_		Depth					
		Seam:					
		Owne	r:				

API NO. 47- 085 - 10572

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

#### 18)

### **CASING AND TUBING PROGRAM**

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	608'	608'	CTS, 634 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#	6800'	6800'	786 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	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							

### **PACKERS**

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

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WW-6B	
(10/14)	

API NO. 47-085 - 10572

OPERATOR WELL NO. Sampson Unit 5V

Well Pad Name: Sampson 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 Fracturing or Stimulating Well."

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.73 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 9.21 acres
- 23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

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

#### 25) Proposed borehole conditioning procedures:

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

Surface: blowhole clean with air, trip conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pip 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.

Jenny Mr 41/21/2025 10-28-25 Page 3 of 3



Antero Resources

Fax 303.357.7315

1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310

October 17th, 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 Sampson Unit 5V Ritchie 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 (Sampson Unit 5V) on the Sampson 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,

**Permitting Agent** 

Antero Resources Corporation

Office Of Oil and Gas OCT 2 0 2025 WV Department of Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> 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	)	ORDER NO.	2022-14
SECTION 11.5 AND LEGISLATIVE RULE	)		
35CSR8 SECTION 9.2.h.8.,	)		
RELATING TO THE CEMENTING	)		DEDERIED.
OF OIL AND GAS WELLS	)		Office Of Oil and Gas
			207 0 2 000

OCT 2 0 2025

WV Department of Environmental Protection

#### 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.
- 3. 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.

Promoting a healthy environment.

 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

RECEIVED
Office Of Oil and Gas

OCT 2 0 2025

WV Department of Environmental Protection

API Number 47 - 085 \_\_\_ - 10572

MY COMMISSION EXPIRES OCTOBER 05, 2026

Operator's Well No. Sampson Unit 5V

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

#### FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062
Watershed (HUC 10) North Fork Hughes River Quadrangle Pullman
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No ✓
If so, please describe anticipated pit waste:  No pit will be used of this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application  Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34  Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34  Off Site Disposal (Supply form WW-9 for disposal location (Meadowfill Landfill Permit #SWF-1032-98)  Other (Explain
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.  Surface - Alt/Freshwater, intermediato - Dust/Stiff Foam, Production - Water Based Mult
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
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, 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 or offsite name/permit number? Meadowiil Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit #SWF-1025/WV0109410)  Wetzel Co Landfill (Permit #SWF-1021)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.  Company Official Signature  **Terminal Protection**  **Terminal Protection**  **Terminal Protection**  I understand that the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of the general permit and/or other applicable law or regulation of
Company Official (Typed Name) Gretchen Kohler
Company Official Title Director of Environmental & Regulatory Compliance
Company Official Title
Subscribed and sworn before me this U day of OCTOBER 20 25  CORLY ROYNE WREN NOTARY PUBLIC STATE OF COLORADO NOTARY 11 1/2025

Operator's Well No.	Sampson Unit 5V
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Proposed Revegetation Treatme	nt: Acres Disturbed 16.73	Prevegetation	рН	
	Tons/acre or to correct to p	H 6.5		
Fertilizer tyme Hay or s	traw or Wood Fiber (will be used	where needed)		
Fertilizer amount 500				
		bs/acre		
Mulch 2-3	Tons		- 16 72 A	
	Access Road "A" (3.79) + Well Pad !	0,21) + Excess/Topsoil Material Stockpiles (3.73)	-10.75 ACIG	
Тетр	orary	Per	manent	
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 se	eed type (Sampson Pad Design)	See attached Table IV-4A for addition	nal seed type (Sampson Pad Design	
		*or type of grass seed requested by surface owner		
rovided). If water from the pit v creage, of the land application a	d proposed area for land appli will be land applied, include d area.	*or type of grass seed rec cation (unless engineered plans inc imensions (L x W x D) of the pit,	cluding this info have been	
Attach: Maps(s) of road, location, pit and provided). If water from the pit v	d proposed area for land appli will be land applied, include d area.	cation (unless engineered plans inc	cluding this info have been	
Attach: Maps(s) of road, location, pit and application of the pit water from the pit water application of the land application	d proposed area for land appli will be land applied, include d area. 7.5' topographic sheet.	cation (unless engineered plans inc	cluding this info have been	
Attach: Maps(s) of road, location, pit and rovided). If water from the pit v creage, of the land application a	d proposed area for land appli will be land applied, include d area. 7.5' topographic sheet.	cation (unless engineered plans inc	cluding this info have been	
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Attach: Maps(s) of road, location, pit and provided). If water from the pit water from the pit water application and the creage, of the land application application of the complete section of the co	d proposed area for land appli will be land applied, include d area. 7.5' topographic sheet.	cation (unless engineered plans inc	cluding this info have been	
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911 Address 2567 Pullman Rd Harrisville, WV 26362

# Well Site Safety Plan Antero Resources

Well Name: Sampson Unit 5V

**Pad Location: SAMPSON PAD** 

Ritchie County/Union District

### **GPS Coordinates:**

Entrance - Lat 39.202326/Long -81.002120 (NAD83)

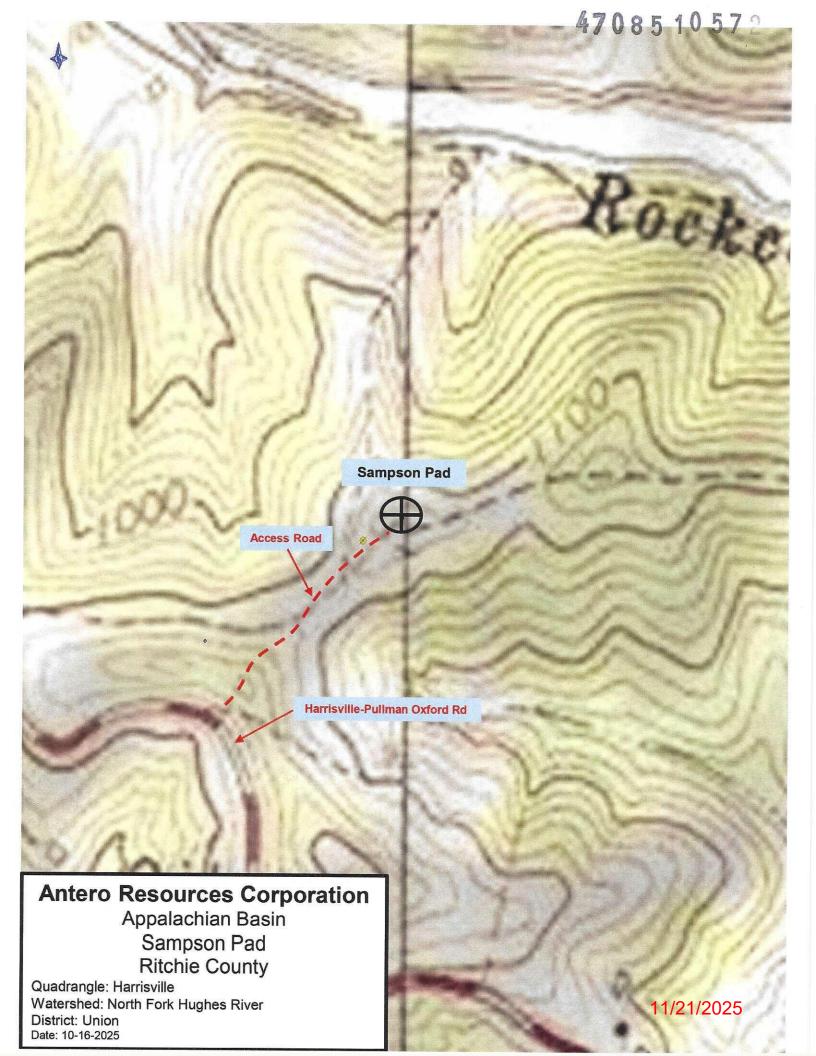
Pad Center - Lat 39.204432/Long -80.999883 (NAD83)

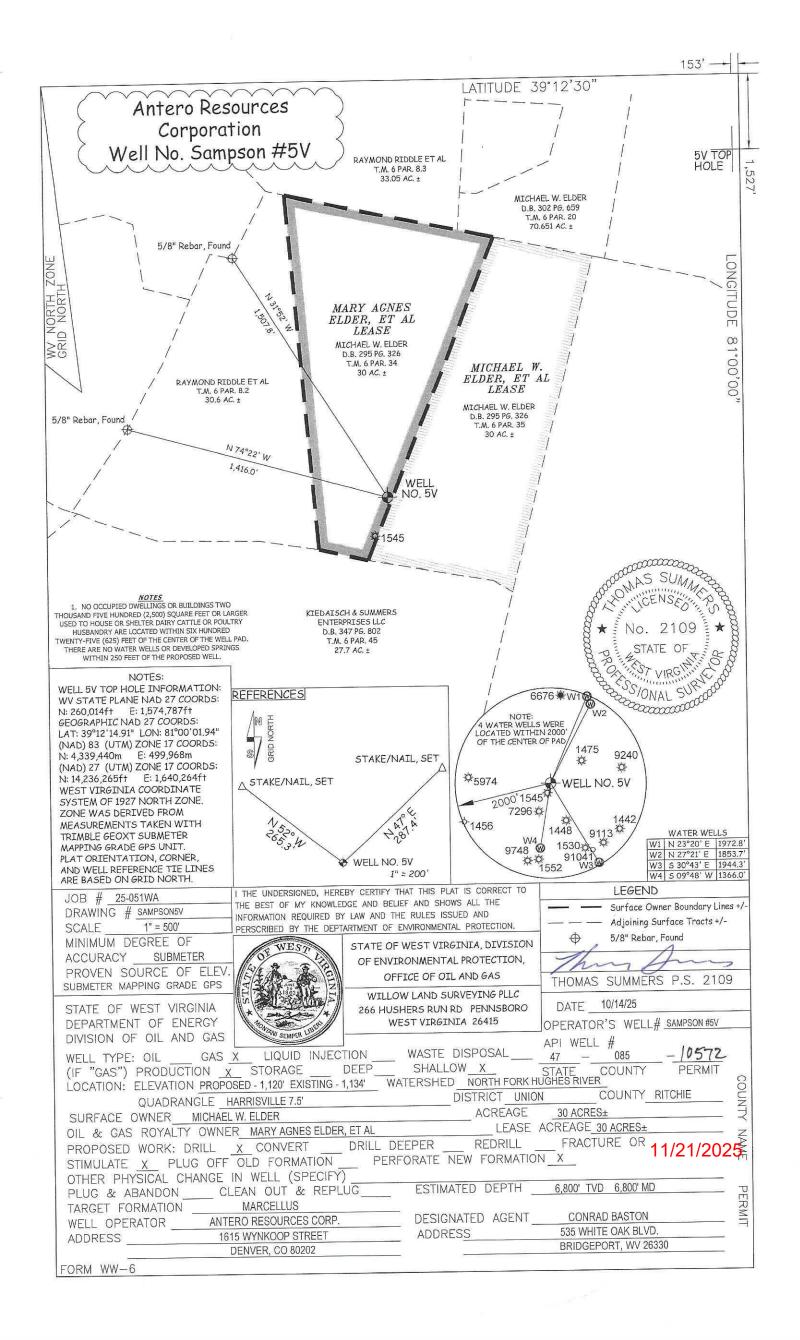
### **Driving Directions:**

- 1. From US-50 turn south onto WV-74 and travel for 7.9 miles.
- 2. Continue straight onto CO. 9 and travel for 3.5 miles. The Sampson Lease Rd is on the right.

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

Juny / 1 10 - 4\$/24/2025





WW-6A1 (5/13)

Operator's Well No.	Sampson Unit 5V
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#### 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
Mary Agnes Elder, et al Lease				
	Mary Agnes Elder, et al	F. S. Deem	1/8	83/79
	F. S. Deem	Duane Tate	Assignment	108/27
	Duane Tate	L.E. Mossor	Assignment	181/762
	L.E. Mossor	Lenore M. Deem	Assignment	121/585
	Lenore M. Deem	L.E.M. Inc	Assignment	191/118
	L.E.M. Inc	J. Frank Deem	Assignment	213/388
	J. Frank Deem	Chesapeake Louisiana, LLC	Assignment	247/891
	Chesapeake Louisiana, LLC	Chesapeake Appalachia, LLC	Assignment	247/933
	Chesapeake Appalachia, LLC	SWN Production Company	Assignment	280/707
	SWN Production Company	Antero Resources Corporation	Assignment	354/956

### 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

Office Of Oil and Gas

OCT 2 0 2025

Enabled an Fortation

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 Ledy	7.1.09(1			
Its:	Senior Vice President of Land				
		Water Committee of the			



October 16, 2025

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

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

RE:

Sampson Unit 5V

Quadrangle: Harrisville

Ritchie County/Union District, West Virginia

Mr. Martin:

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

Sincerely,

Autum Boehnlein Landman Associate

Office Of Oil and Gas

OCT 2 0 2025

WV Department of Environmental Protection WW-PN (11-18-2015)

#### Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper:	The Penns	sboro News				
Public 1	Notice Date	e: 9/3/2025 & 9/10/2025				
surface		pipelines, gathering lines an			( <del>**</del>	turbs three acres or more of chousand gallons of water in
Applica	nt: Antero	Resources Corporation		Well Nun	ber: Sampson U	nit 5V
Addres	s: 1615 Wy	nkoop St. Denver, CO 802	02			
						Office Of Oil and Gas
Busines	s Conduct	ed: Natural gas production	1.			OCT 2 0 2025
Locatio	on –					May Department of Environmental Protection
	State:	West Virginia		County:	Ritchie	Ellinomato
	District:	Union		Quadrangle:	Harrisville 7.5'	
	UTM Coc	ordinate NAD83 Northing:	4339439.71m			
	UTM coo	rdinate NAD83 Easting:	499967.89m			

#### **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 <a href="http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx">http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx</a> 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<sup>th</sup> 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 <a href="https://apps.dep.wv.gov/oog/comments/comments.cfm">https://apps.dep.wv.gov/oog/comments/comments.cfm</a>, or by letter to Permit Review, Office of Oil and Gas, 601 57<sup>th</sup> 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: 10/16/2025			API No. 47- 085 -				
		Ope	rator's	Well No. Sam	pson Unit 5V		
		Wel	ll Pad N	ame: Sampso	on Pad		
Notice has l							
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided	l the requ	nired parties v	vith the Notice Forms listed		
	tract of land as follows:						
State:	West Virginia	111 M N A 11 X 3	ting:	499967.89m			
County: District:	Union	Nort	thing:	4339439.71m			
Quadrangle:	Harrisville 7.5'	Public Road Access:		Pullman Rd			
Watershed:	North Fork Hughes River	Generally used farm n	iame:	Michael W. Elder	Open and the second sec		
prescribed by it has provid information r of giving the requirements Virginia Code of this article	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 tender that the notice requirements of the notice requirements						
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the requirect ALL THAT APPLY	perator has attached proof to this Need parties with the following:	otice Ce	rtification	OOG OFFICE USE		
□ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED I SEISMIC ACTIVITY WAS COI			RECEIVED/ NOT REQUIRED		
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or  NO PLAT SURVEY W	VAS CO	NDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED IN NOTICE OF ENTRY FOR PLATE WAS CONDUCTED OF			☐ RECEIVED/ NOT REQUIRED		
_		☐ WRITTEN WAIVER BY ST (PLEASE ATTACH)	URFAC	E OWNER			
■ 4. NO	TICE OF PLANNED OPERATION	Office Of Oil and	ĜâŜ	1	☐ RECEIVED		
5. PUE	BLIC NOTICE	OCT 2 0 20			☐ RECEIVED		
■ 6. NO	TICE OF APPLICATION	win Dupathent	OP		☐ 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:

signature confirm in this Notice Cobtaining the inf	at as required under West Virginia Co equired parties through personal service mation. I certify under penalty of law to Certification and all attachments, and	ode § 22-6A, I have bee, by registered ma that I have personal that based on my on is true, accurate a	and the notice requirements within West Virginia Code § 22- served the attached copies of the Notice Forms, identified ail or by any method of delivery that requires a receipt or by examined and am familiar with the information submitted inquiry of those individuals immediately responsible for and complete. I am aware that there are significant penalties sonment.
Well Operator: By:	Antero Resources Corporation  Jon McEvers  Antero Resources Corporation	Address:	1615 Wynkoop Street  Denver, CO 80202
Its:	Senior VP of Operations	Facsimile	: 303-357-7373
Telephone:	303-357-6799	Email:	cwren@anteroresources.com
MAX-GOW	AFABLY ARYSHMEREN MOTAPY BURL IC STAT BOE GOLDPADO NOTAPY BY SERVED STATE OF COLORADO WESSION EXPIRES OF TOBBER 0502026	Subscribed and sv  CAPJ  My Commission	worn before me this <u>IU</u> day of <u>It. 2029</u> . <u>PAYNE WEEN</u> Notary Public Expires <u>IO-5-210</u>

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 WREN

NOTARY PUBLIC

STATE OF COLORADO

NOTARY ID 20224038743

MY COMMISSION EXPIRES OCTOBER 05, 2026

Office Of Oil and Gas

OCT 2 0 2025

WV Department of Environmental Protection WW-6A (9-13) API NO. 477085 8 5 10 5 7 OPERATOR WELL NO. Sampson Unit 5V Well Pad Name: Sampson 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: 10/17/2025 Date Permit Application Filed: 10/17/2025 Notice of: PECTIVED Office Of Oil and Gas PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE OCT 2 0 2025 WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT MAY Department of Delivery method pursuant to West Virginia Code § 22-6A-10(b) Environmental Protection PERSONAL REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION SERVICE MAIL 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: ☐ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Michael W. Elder Address: 772 River Hill Rd Address: Washington, WV 26181 COAL OPERATOR Name: Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) WATER PURVEYOR(s)/OWNER(s) OF WATER WELL. SPRING OR OTHER WATER SUPPLY SOURCE Address: Name: Kiedaisch & Summers Ent. LLC Address: PO Box 254 Name: Address: Harrisville, WV 26362 □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Address: Name: Address: \*Please attach additional forms if necessary

API NO. 47-085

OPERATOR WELL NO. Sampson Unit 5V

Well Pad Name: Sampson 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### **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

WW-6A (8-13) 4708510572

OPERATOR WELL NO. Sampson Unit 5V

Well Pad Name: Sampson 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 57<sup>th</sup> 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) 47085 1057 2 API NO. 47-085

OPERATOR WELL NO. Sampson Unit 5V

Well Pad Name: Sampson 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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

OCT 2 0 2025

With Department of Environmental Protection

WW-6A (8-13) 4708510572

API NO. 47-085

OPERATOR WELL NO. Sampson Unit 5V

Well Pad Name: Sampson Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7373

Email: cwren@anteroresources.com

Red Cares 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

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

Subscribed and sworn before me this <u>IU</u> day of <u>0Ct. 2025</u>.

Carly Rayne ween

Notary Public

My Commission Expires

10-5-210

Office Of Oil and Gas

OCT 2 0 2025

WV Department of Enumerical Protection WW-6A4 (1/12)

# 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 I Date of Notice		provided at least TEN (10) days prior to filing a  Date Permit Application Filed: 10/17/2025	permit application.
Delivery metl	nod pursuant to West Virgin	ia Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED N	MAIL	
DELIVE	RY RETURN RE	CEIPT REQUESTED	
receipt reques drilling a hori of this subsect subsection ma and if available	ted or hand delivery, give the zontal well: <i>Provided</i> , That n zion as of the date the notice w y be waived in writing by the e, facsimile number and electrons.	least ten days prior to filing a permit application, surface owner notice of its intent to enter upon the otice given pursuant to subsection (a), section terms provided to the surface owner: <i>Provided</i> , how surface owner. The notice, if required, shall include mail address of the operator and the operator	ne surface owner's land for the purpose of n of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number,
	reby provided to the SURI		
Name: Michael W. Address: 772 F		Name:	
Washington, WV		Address.	
the surface ov State: County: District: Quadrangle:	vner's land for the purpose of of West Virginia Ritchie Union Harrisville	6(b), notice is hereby given that the undersigned drilling a horizontal well on the tract of land as for the second of the tract of land as for the second of the second o	llows: 499967.89m 4339439.71m Pullman Rd Michael W. Elder
Pursuant to V facsimile num	nber and electronic mail addr izontal drilling may be obtain	r-16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of VV 25304 (304-926-0450) or by visiting www.de	ed representative. Additional information f Environmental Protection headquarters,
	reby given by:	Authorized Donnecontativo	Mallan Tura
10 <del>0</del>	Antero Resources Corporation	Authorized Representative: Address:	
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.  Denver, CO 80202
Talambana	Denver, CO 80202	Telephone:	303-357-7182
Telephone: Email:	303-357-7182	Email:	mturco@anteroresources.com
Email:	mturco@anteroresources.com	Facsimile:	303-357-7315

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

WW-6A5 (1/12)

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

**NOTICE OF PLANNED OPERATION** 

	_	OTICE OF PLANNED O		Office Of Oil and Gas
Notice Time Date of Notice	Requirement: notice shall be pr e: 10/17/2025 Date I	ovided no later than the filing Permit Application Filed: 10/		<b>application.</b> —— OCT 2 0 2025
D. P	L . J	C-1-822 (A 1((-)		1000 100 100 100 100 100 100 100 100 10
Denvery met	hod pursuant to West Virginia	1 Code § 22-6A-16(c)		WV Department of Environmental Profession
■ CERTII	FIED MAIL	☐ HAND		
RETUR	N RECEIPT REQUESTED	DELIVERY		
return receipt the planned or required to be drilling of a l damages to the	requested or hand delivery, give operation. The notice required provided by subsection (b), sectionizontal well; and (3) A propose e surface affected by oil and gas	the surface owner whose land by this subsection shall inclu- tion ten of this article to a surf- osed surface use and compen- s operations to the extent the day	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
Notice is here	eby provided to the SURFACE	OWNER(s)		
	s listed in the records of the sher			
Name: Michael \		Name:		
Address: 772 F Washington, WV 2		Addres	3:	
	. 0	purpose of drilling a horizonta	l well on the tra	well operator has developed a planned act of land as follows:
Pursuant to W operation on	Vest Virginia Code § 22-6A-16(c) the surface owner's land for the		l well on the tra	ect of land as follows:
Pursuant to W operation on State:	Vest Virginia Code § 22-6A-16(c) the surface owner's land for the West Virginia	purpose of drilling a horizonta	l well on the tra Basting: Northing:	ect of land as follows: 499967.89m
Pursuant to W operation on State: County:	Vest Virginia Code § 22-6A-16(content the surface owner's land for the West Virginia Ritchie	purpose of drilling a horizonta  UTM NAD 8  Public Road	l well on the tra Basting: Northing:	act of land as follows: 499967.89m 4339439.71m
Pursuant to W operation on State: County: District:	Vest Virginia Code § 22-6A-16(content the surface owner's land for the West Virginia Ritchie Union	purpose of drilling a horizonta  UTM NAD 8  Public Road	I well on the tra Easting: Northing: Access:	ect of land as follows: 499967.89m 4339439.71m Pullman Rd
Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information re-	Vest Virginia Code § 22-6A-16(conthe surface owner's land for the West Virginia Ritchie Union Harrisville 7.5' North Fork Hughes River  West Virginia Code § 22-6A-16(conthe dollar order) West Virginia Code § 22-6A-10(conthe dollar order) West Virginia Code § 22-6A-16(conthe dollar order) West Virginia Code § 22	purpose of drilling a horizonta  UTM NAD 8  Public Road Generally use  c), this notice shall include: (1  (b) to a surface owner whose se and compensation agreement the extent the damages are controlled by the obtained from the Secretary be obtained from the Secretary	l well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be unt containing an ompensable undary, at the WV	ect of land as follows: 499967.89m 4339439.71m Pullman Rd
Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to Wato be provide horizontal we surface affect information reheadquarters,	Vest Virginia Code § 22-6A-16(cothe surface owner's land for the West Virginia  Ritchie Union Harrisville 7.5' North Fork Hughes River  Shall Include: Vest Virginia Code § 22-6A-16(cod by W. Va. Code § 22-6A-10 Il; and (3) A proposed surface u ed by oil and gas operations to elated to horizontal drilling may located at 601 57th Street, SE ault.aspx.	purpose of drilling a horizonta  UTM NAD 8  Public Road Generally use  c), this notice shall include: (1  (b) to a surface owner whose se and compensation agreement the extent the damages are controlled by the obtained from the Secretary be obtained from the Secretary	l well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be unt containing an ompensable undary, at the WV	act of land as follows:  499967.89m  4339439.71m  Pullman Rd  Michael W. Elder  code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to Wood to be provide horizontal we surface affect information reheadquarters, gas/pages/defi	Vest Virginia Code § 22-6A-16(cothe surface owner's land for the West Virginia  Ritchie Union Harrisville 7.5' North Fork Hughes River  Shall Include: Vest Virginia Code § 22-6A-16(cod by W. Va. Code § 22-6A-10 Il; and (3) A proposed surface u ed by oil and gas operations to elated to horizontal drilling may located at 601 57th Street, SE ault.aspx.	Public Road Generally use  c), this notice shall include: (1 (b) to a surface owner whose se and compensation agreement the extent the damages are controlled by be obtained from the Secret, Charleston, WV 25304	l well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be unt containing arompensable und ary, at the WV (304-926-0450)	act of land as follows:  499967.89m  4339439.71m  Pullman Rd  Michael W. Elder  code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

#### 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.



### 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 2, 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 Sampson Well Pad, Ritchie County Sampson Unit 5V Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2025-7064 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Ritchie County Route 9 SLS MP 2.567.

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

Lacy D. Pratt

Cc: Carly Wren

**Antero Resources Corporation** 

OM, D-3

File

OCT 2 0 2025 My Department or Enumerical Frontier

Office Or Uil and Gas

## List of Anticipated Additives Used for Fracturing or **Stimulating Well**

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum 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
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
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
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

47,005 (0572

WW-6A7 (6-12)

OPERATOR:	Antero Resources Corp.	WELL NO: Sampson Unit 5	5V
PAD NAME:_	Sampson Pad	,	
REVIEWED I	3Y: Mallory Turco	SIGNATURE: MM D	
	WELL RESTRICTIO	NS CHECKLIST	DEACT CE
	HORIZONTAL	6A WELL	Office Of Oil and Gas
			OCT 2 0 2025
Well Restric	ctions	*1	WW Department of Environmental Floring
$\checkmark$	At Least 100 Feet from Pad and LOD (in Perennial Stream, Lake, Pond, Reservoir		e) to any
	DEP Waiver and Permit Condition	ns	
$\checkmark$	At Least 300 Feet from Pad and LOD (in Naturally Producing Trout Stream; OR	acluding any E&S Control Featur	e) to any
	DEP Waiver and Permit Condition	ns	
$\checkmark$	At Least 1000 Feet from Pad and LOD (i Groundwater Intake or Public Water Sup		ire) to any
	DEP Waiver and Permit Condition	ons	
$\checkmark$	At Least 250 Feet from an Existing Water Drilled; OR	er Well or Developed Spring to V	Vell Being
	Surface Owner Waiver and Recor	rded with County Clerk, OR	
	DEP Variance and Permit Condit	ions	
$\checkmark$	At Least 625 Feet from an Occupied Dw	elling Structure to Center of the	Pad; OR
	Surface Owner Waiver and Recor	rded with County Clerk, OR	
	DEP Variance and Permit Condit	ions	
$\checkmark$	At Least 625 Feet from Agricultural Buil of the Pad; OR	dings Larger than 2500 Square F	eet to the Center
	Surface Owner Waiver and Recor	rded with County Clerk, OR	
	DEP Variance and Permit Condit	ions	