

#### 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, December 21, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for CONKLIN UNIT 1H

47-085-10510-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: CONKLIN UNIT 1H

Farm Name: MICHAEL UNDERWOOD ET

U.S. WELL NUMBER: 47-085-10510-00-00

Horizontal 6A New Drill Date Issued: 12/21/2023

API Number: 47-085-10510

# 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.

WW-6B (04/15) API NO. 47-085 OPERATOR WELL NO. Conklin Unit 1H
Well Pad Name: Pinewood Pad

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

				1			/ /	
1) Well Operato	or: Antero	Resources	Corpor	49450	07062	085 - Ritc	in all	Ellenboro 7.5'
,	-			Oper	ator ID	County	District	Quadrangle
2) Operator's V	Vell Number	: Conklin Ur	nit 1H	/	_ Well Pac	d Name: Pi	newood Pad	
3) Farm Name/	Surface Ow	ner: Michael	Jnderwo	od Ef Al	Public Roa	ad Access: I	Pinewood La	ne
4) Elevation, cu	arrent groun	d: 1066' - AS	BUILT F	Elevation	, proposed	post-constru	uction:	
5) Well Type	(a) Gas	Χ	Oil _		Und	erground St	orage	
	Other							
	(b)If Gas	Shallow	X		Deep			_
		Horizontal	X		_			
6) Existing Pac								
7) Proposed Ta Marcellus Sh	rget Format nale: 6700' T	tion(s), Depth VD, Anticipate	(s), Anted Thickr	icipated ness- 55	Thickness feet, Assoc	and Expecte lated Pressu	re- 2850#	: 
8) Proposed To	otal Vertical	Depth: <u>670</u>	0' TVD					
9) Formation a			Marcelli	us				
10) Proposed 7	Гotal Measu	red Depth:	8500' N	1D				
11) Proposed I	Horizontal L	eg Length:	500' *	Open to	modificat	ion at a late	er date 🗸	
12) Approxima	ate Fresh W	ater Strata De	epths:	200',	378', 878	/		
13) Method to	Determine	Fresh Water I	Depths:	470850888	60000, 4708507750	0000 Offset well reco	rds. Depths have been a	adjusted according to surface elevations
14) Approxima								
15) Approxim	ate Coal Sea	am Depths: 1	N/A					
16) Approxim				mine, ka	rst, other):	None Anti	cipated	
17) Does Prop directly overly	osed well loving or adjac	eation contai	n coal so ve mine	eams	Yes		No X	
(a) If Yes, pr	rovide Mine	Info: Name	e:					
		Deptl	n:					
		Seam	ı:				REC Office of	CEIVED Oil and Gas
		Own	er:					
								4 2023
							WV Dep Environmen	ariment of Ital Protection

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11/30/2023

4708510510

API NO. 47- 085 -

OPERATOR WELL NO. Conklin Unit 1H

Well Pad Name: Pinewood 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	J-55	94#	100'	100' /	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	928'	928' /	CTS, 967 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3000'	3000' /	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	8500'	8500' /	CTS, 1214 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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"	0.375"	2250	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"	14,360 /	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

# **PACKERS**

Kind:	N/A	
Sizes:	N/A	BECEIVED
Depths Set:	N/A	RECEIVED Office of Oil and Gas  DEC. 0.4, 2023

WV Department of Environmental Protection

11/30/2023

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API NO 47- 085

OPERATOR WELL NO. Conklin Unit 1H

Well Pad Name: Pinewood Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill a new horizontal shallow well into the Marcellus Shale.

\*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

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): 19.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.21 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 G/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 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.

Ob 11/30/2023

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DEC 0 4 2023

WW-9 (4/16)

API Number 47 - 085

Operator's Well No. Conklin Unit 1H

# 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 Ellenboro 7.5'						
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 V						
If so, please describe anticipated pit waste:No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)						
Will a synthetic liner be used in the pit? Yes No If so, what ml.?_ N/A						
Proposed Disposal Method For Treated Pit Wastes:						
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) at the graph of the						
Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)  Other (Explain Northwestern Landfill Permit #SWF-1025/						
WV0109410						
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 - Air/Freshwater, Intermediate - Dust/Stiff Foam, Production - Water Based Mud						
-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? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)						
Wetzel County 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 Gretchen Kohler  RECEIVED Office of Oil and Company Office of Oil and Oil a						
Company Official (Typed Name) Gretchen Konier						
Company Official Title Director Environmental & Regulatory Compliance NOV 2 0 2023						
WV Department of Environmental Protection						
Subscribed and sworn before me this day of November, 20 23						
Subscribed and sworn before me this 17 day of November, 20 23  Stefan Gaspar Notary Public						
My commission expires Notary Public  Stefan Gaspar  Notary Public  STEFAN GASPAR  NOTARY PUBLIC  STATE OF COLORADO  NOTARY ID 20224043669  MY COMMISSION EXPIRES NOVEMBER 15, 202						

Form WW-9		Operator's \	Well No. Conklin Unit 1H		
Antero Resources Corp	ooration	1			
Proposed Revegetation Treatment	: Acres Disturbed 19.86 ac	Prevegetation p	н		
	Tons/acre or to correct to pH				
Fertilizer type Hay or stra	aw or Wood Fiber (will be used w	where needed)			
Fertilizer amount 500	Ibs	s/acre			
Mulch 2-3	Tons/a	cre			
Access Road (6.57	acres) + Well Pad (8.21 acres) + Water Co	ontainment Pad (1.59 acres) + Excess/Topsoil Mai = 19.86 acres	terial Stockpiles (3.49 acres)		
Tempo	rary	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	d type (Pinewood Pad Design)	See attached Table IV-4A for additional	seed type (Pinewood Pad Design)		
*or type of grass seed reques	sted by surface owner	*or type of grass seed requested by surface owner			
Plen America hu					
Plan Approved by:  Comments:		<del>and the same of t</del>			
comments.					
			Market sample for the control of the		
Title: OOG Ins	Pector (	Date:   30 202	2-7		
Field Reviewed?	) Yes (	_) No	RECEIVED		
			Office of Oil and Gas		
			DEC 0 4 2023		

12/22/2023



911 Address 1037 Pinewood Ln Pennsboro WV, 26415

# Well Site Safety Plan Antero Resources

Well Name: PINEWOOD UNIT 5V, COKELEY UNIT 1H, CONKLIN UNIT 1H, HANELY UNIT 1H, MCKINNEY UNIT 1H

**Location: Pinewood Pad** 

Ritchie County/Clay District

# **GPS Coordinates:**

Entrance - Lat 39. 311631 / Long -81.023777 (Nad83)
Pad Center - Lat 39.308719 /Long -81.030590 (Nad83)

# **Driving Directions:**

From the town of Ellenboro: Head northwest on S Main St/Old U.S. 50 W toward Ritchie County School Rd for 0.2 miles, Turn right onto Old U.S 50 W/E Washington Ave for 2.2 miles, Turn left onto Hushers Run Rd for 1.0 mile, the RECEIVED access road will be on the right.

# Alternate Directions:

DEC 0 4 2023

WV Department of Environmental Protection

From the town of Pennsboro: Head west on Collins Ave toward Depot St for 0.1 miles, Turn left onto Eagle Dr for 430 ft, Turn right onto W Myles Ave/Old U.S 50 E for 3.1 miles, Turn right onto Hushers Run for 1.2 miles, Turn right onto Hushers Rud Rd for 1.0 mile, the access road will be on the left.

09/9/2022

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

Page 1

0/2025

Operator's Well Number Con

Conklin Unit 1H

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Ronnel L. Underwood Et Al Lease			
Ronnel L. Underwood Et Al	Walter C. Alkire	1/8	0233/0273
Walter C. Alkire	The Walter C. Alkire, Jr. Family Trust	Agreement	0313/0400
The Walter C. Alkire, Jr. Family Trust	Antero Resources Corporation	Assignment	0271/0834

\*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

\*\*Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

<sup>\*</sup>Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

WW-6A1 (5/13)

Operator's Well No. Conklin Unit 1H

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

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

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

Lease Name or
Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page

Steven Alkire Lease

Steven Alkire Antero Resources Corporation 1/8+ 0340/0291

\*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with the development of certain royalty owners' interests in this tract.

\*\*Pooling/Unitization — Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

# 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

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

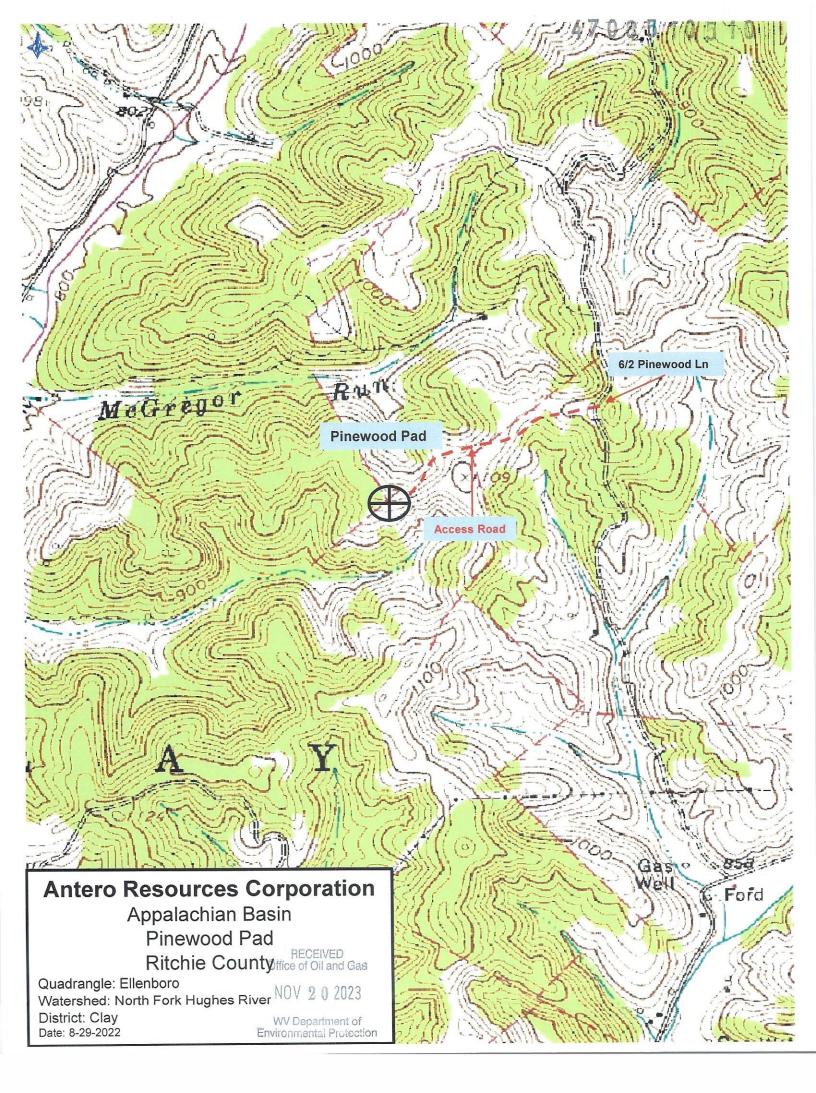
By: Tim Rady Senior Vice President of Land

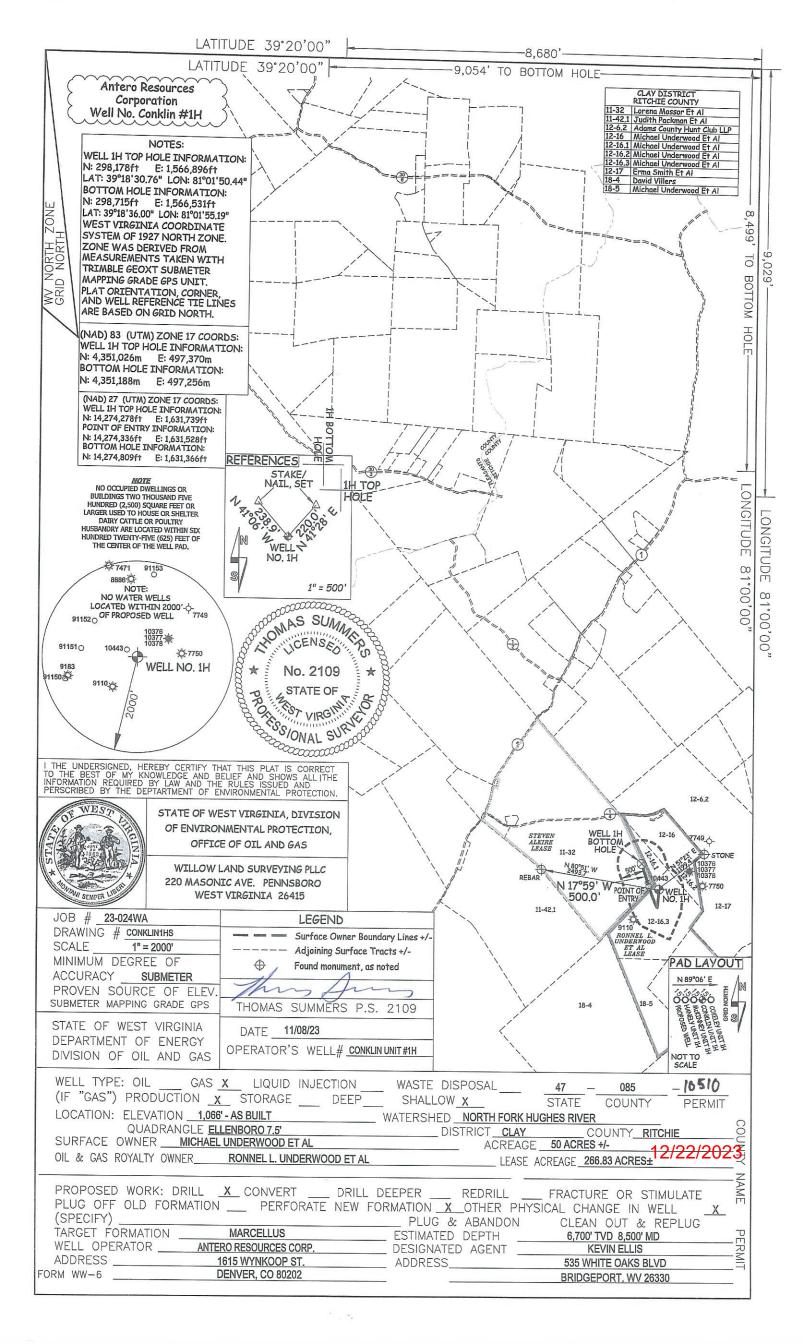
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<sup>\*</sup>Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.







November 15, 2023

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:

Conklin Unit 1H

Quadrangle: Ellenboro 7.5'

Ritchie County/Clay District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Conklin Unit 1H 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 Conklin Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Thomas Kuhn

Thomas Kuhn

Staff Landman

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NOV 2 0 2023

WW-PN (11-18-2015)

# Horizontal Natural Gas Well Work Permit Application Notice By Publication

N	otice	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 Notice Date	e: 10/11/2023-10/18/2023			
The following appl surface excluding p any thirty day perio	pipelines, gathering lines an	horizontal na d roads <b>or</b> uti	atural well world lizes more than	k permit which disturbs three acres or more of a two hundred ten thousand gallons of water in
Applicant: Antero	Resources Corporation		Well Nun	nber: Conklin Unit 1H
Address: 1615 Wy	ynkoop St. Denver, CO 802	02		
Business Conduct	ed: Natural gas production	1.		
Location –				
State:	West Virginia		County:	Ritchie
District:	Clay		Quadrangle:	Ellenboro 7.5'
UTM Coo	ordinate NAD83 Northing:	4351026m	- 2045	
	rdinate NAD83 Easting:	497370m		

#### **Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: <a href="http://tagis.dep.wv.gov/convert/llutm\_conus.php">http://tagis.dep.wv.gov/convert/llutm\_conus.php</a>

#### **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.

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# **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 <a href="mailto:DEP.comments@wv.gov">DEP.comments@wv.gov</a>.

## **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:  $\underline{www.dep.wv.gov/oil-and-gas/pages/default.aspx}$ 

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE CERTIFICATION}}{\text{NOTICE CERTIFICATION}}$

Dute of From	e Certification: 11/10/2023		API No	. 47- 085 -	
			Operat	or's Well No. Con	klin Unit 1H
			Well Pa	ad Name: Pinewo	od Pad
Notice has l					
Pursuant to th	e provisions in West Virginia Co	ode §	22-6A, the Operator has provided the	required parties	with the Notice Forms listed
below for the	tract of land as follows:				
State:	West Virginia		UTM NAD 83 Easting	: 497370m	
County:	Ritchie		Northin	g: 4351026m	
District:	Clay		Public Road Access:	Pinewood Lane	
Quadrangle:	Ellenboro 7.5'		Generally used farm nam	e: Michael Underw	ood Et Al
Watershed:	North Fork Hughes RIver				
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface de equired by subsections (b) and (c surface owner notice of entry to of subsection (b), section sixtee	scrib ), se o su en o all t	nall contain the following information and in subdivisions (1), (2) and (4), and (4), are tion sixteen of this article; (ii) that the try pursuant to subsection (a), section article were waived in writing ander proof of and certify to the secret to.	subsection (b), se e requirement was on ten of this art by the surface or	ction ten of this article, the s deemed satisfied as a resul- icle six-a; or (iii) the notice wner: and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the rator has properly served the request ALL THAT APPLY	e Op uire	erator has attached proof to this Notice of parties with the following:	e Certification	OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY	or	■ NOTICE NOT REQUIRED BEGISMIC ACTIVITY WAS COND		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SU	JRV	EY or 🔳 NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED
■ 3. NO?	TICE OF INTENT TO DRILL	or	☐ NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLAT SO WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
			☐ WRITTEN WAIVER BY SUR (PLEASE ATTACH)	FACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	NC			☐ RECEIVED
■ 5. PUB	ELIC NOTICE		RECE Office of O	IVED il and Gas	☐ RECEIVED
■ 6. NOT	TICE OF APPLICATION		NOV 2	0 2023	☐ 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.

Environmental Protection

# Certification of Notice is hereby given:

THEREFORE, I Jon McEvers , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operator: Antero Resources Corporation 1615 Wynkoop Street By: Jon McEvers Denver, CO 80202 Its: SVP of Operations Facsimile: 303-357-7315 Telephone: 303-357-7310 Email: mturco@anteroresources.com Subscribed and sworn before me this 17 day of November, 2023 STEFAN GASPAR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224043669
MY COMMISSION EXPIRES NOVEMBER 15, 2026 Stefan My Commission Expires November 15, 2026

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:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

RECEIVED Office of Oil and Gas

NOV 2 0 2023

WW-6A (9-13)

API NO. 47- 085 - 10510
OPERATOR WELL NO. Conklin Unit 1H
Well Pad Name: Pinewood 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**: 11/17/2023 **Date Permit Application Filed**: 11/17/2023 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) ☐ REGISTERED ☐ PERSONAL 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: ☐ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Michael Gail & Stephen D. Underwood Address: 321 Pinewood Lane Address: Pennsboro, WV 26415 Name: Kenneth E. & Deanna M. Mossor □ COAL OPERATOR Address: 7093 Bonds Creek Road Name: NO DECLARATIONS ON RECORD WITH COUNTY Ellenboro, WV 26346 Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Erma Smith Et Al ☐ SURFACE OWNER OF WATER WELL Address: 2256 Rush Fork Road AND/OR WATER PURVEYOR(s) Middlebourne, WV 26149 Name: NONE WITHIN 1500' Name: Adams County Hunt Club LLP Address: Address: 1162 Rentzell Road Biglerville, PA 17307 ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: \_\_\_\_\_ Address: Address: \*Please attach additional forms if necessary

WW-6A (8-13)

API NO. 47-085 5 1 0 5 1 0 OPERATOR WELL NO. Conklin Unit 1H

Well Pad Name: Pinewood 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.wv.gov/oiland-gas/pages/default.aspx.

#### **Well Location Restrictions**

NOV 2 0 2023

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) 4708510510

API NO. 47-085

OPERATOR WELL NO. Conklin Unit 1H

Well Pad Name: Pinewood 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:

RECEIVED

Office of Oil and Gas

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

11011 0 0 0000

NOV 2 0 2023 WV Department of

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)

API NO. 47-085 9 5 10 5 10

OPERATOR WELL NO. Conklin Unit 1H

Well Pad Name: Pinewood 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.

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Office of Oil and Gas

NOV 2 0 2023

WW-6A (8-13)

Email:

4708510510

OPERATOR WELL NO. Conklin Unit 1H

Well Pad Name: Pinewood Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310

mturco@anteroresources.com

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 depprivacyofficer@wv.gov.

STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669 MY COMMISSION EXPIRES NOVEMBER 15, 2026

Subscribed and sworn before me this 17 day of November, 2023.

Stefan G25 Par Notary Public

My Commission Expires November 15, 2026 2026

> RECEIVED Office of Oil and Gas NOV 2 0 2023 WV Department of Environmental Protection

Operator Well No. Conklin Unit 1H

Multiple Wells on Pinewood Pad

# 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 Robate of Notice:	equirement: Notice shall be provided at least T  10/06/2023 Date Permit Ap	TEN (10) days prior to filing a plication Filed: 11/17/2023	permit application.				
Delivery metho	od pursuant to West Virginia Code § 22-6A-1	6(b)					
☐ HAND ☐ CERTIFIED MAIL							
DELIVERY RETURN RECEIPT REQUESTED							
DEDIVER							
drilling a horizor of this subsection may	Va. Code § 22-6A-16(b), at least ten days prior d or hand delivery, give the surface owner notice ontal well: <i>Provided</i> , That notice given pursual on as of the date the notice was provided to the be waived in writing by the surface owner. The facsimile number and electronic mail address of	ce of its intent to enter upon that to subsection (a), section to surface owner: <i>Provided</i> , hower enotice, if required, shall include:	ne surface owner's land for the purpose of en of this article satisfies the requirements ovever, That the notice requirements of this under the name, address, telephone number				
Notice is here	by provided to the SURFACE OWNER(	s):					
Name: Michael Gai	il & Stephen D. Underwood	Name: Kenneth E. & Deanna	a M. Mossor				
Address: 321 Pine		Address: 7093 Bonds Creek	Road				
Pennsboro, WV 264	15	Ellenboro, WV 26346					
State: V County: F District: C Quadrangle: E	st Virginia Code § 22-6A-16(b), notice is hereter's land for the purpose of drilling a horizontal Vest Virginia Ritchie	by given that the undersigned well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name:	well operator has an intent to enter upon llows: 497370m 4351026m Pinewood Lane Michael Underwood Et Al				
This Notice Shall Include:  Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .							
Notice is here	by given by:						
	Antero Resources Corporation	Authorized Representative:	Mallory Turco				
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.				
	Denver, CO 80202		Denver, CO 80202				
Telephone:	303-357-7323	Telephone:	303-357-7223				
Email:	mturco@anteroresources.com	Email:	mturco@anteroresources.com				
Facsimile:	303-357-7315	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>.

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Office of Oil and Gas

NOV 2 0 2023

WW-6A5 (1/12)

Operator Well No. Conklin Unit 1H

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

Date of Notice	ce: 11/17/2023 Date Permit App			application.
Delivery met	hod pursuant to West Virginia Code § 22-	-6A-16(c)		
		IAND DELIVERY		
return receipt the planned of required to be drilling of a l damages to th	V. Va. Code § 22-6A-16(c), no later than the requested or hand delivery, give the surface operation. The notice required by this subset provided by subsection (b), section ten of the horizontal well; and (3) A proposed surface es surface affected by oil and gas operations are required by this section shall be given to the surface affected by the section shall be given to the surface affected by the section shall be given to the surface affected by the section shall be given to the surface affected by the section shall be given to the surface affected by the section shall be given to the surface affected by the section shall be given to the surface affected by the surfac	owner whose land section shall inclu- nis article to a surf to use and compens to the extent the da	I will be used for de: (1) A copy ace owner whost 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.
(at the address		ne of notice):  Name: Address	Kenneth E. & Deanna ; 7093 Bonds Creek	
Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed:	eby given:  Vest Virginia Code § 22-6A-16(c), notice is hethe surface owner's land for the purpose of owner's land for the pur	drilling a horizonta  UTM NAD 8  Public Road	I well on the tra Easting: Northing:	well operator has developed a planned act of land as follows:  497370m  4351026m  Pinewood Lane  Michael Underwood Et Al
Pursuant to We to be provide the horizontal we surface affect information re	Fhall Include:  Vest Virginia Code § 22-6A-16(c), this notice do by W. Va. Code § 22-6A-10(b) to a surfl; and (3) A proposed surface use and comped by oil and gas operations to the extent the lated to horizontal drilling may be obtained located at 601 57th Street, SE, Charlest ault.aspx.	face owner whose pensation agreement the damages are could be from the Secret	t land will be unt containing an ompensable und ary, at the WV	used in conjunction with the drilling of a n offer of compensation for damages to the ler article six-b of this chapter. Additional
Well Operator	Antero Resources Corporation	Address:	1615 Wynkoop Stree	et
Telephone: Email:	(303) 357-7310 mturco@anteroresources.com	Facsimile:	Denver, CO 80202	
Siliuii.	murco@anteroresources.com		303-357-7315	
	Privacy Notice:	ation such as nam	a address and t	olombono muniban as mada C

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="deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

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4708510510
API NO. 47-085 -- OPERATOR WELL NO. Conklin Unit 1H
Well Pad Name: Pinewood Pad

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

## **Comment and Waiver Provisions**

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

# VOLUNTARY STATEMENT OF NO OBJECTION

	V OZOTVITAKI DITI		OF NO OD	DECTION
WW-6A and required, and State:	, hereby state that I have reted above, and that I have received copies of attachments consisting of pages one (1) the well plat, all for proposed well work on the West Virginia  Ritchie  Clay  Ellenboro 7.5'  North Fork Hughes River	f a Notice of A  nrough  he tract of land  UTM NAI  Public Roa	pplication, an Apping including as follows:  D 83 Easting: Northing: ad Access:	plication for a Well Work Permit on Form the erosion and sediment control plan, if
issued on thos	that I have no objection to the planned work se materials.	described in the		I have no objection to a permit being  ION BY A NATURAL PERSON
■ SURFAC	CE OWNER CE OWNER (Road and/or Other Disturba	nnce)	Signature: Print Name:	
□ COAL C	CE OWNER (Impoundments/Pits)  OWNER OR LESSEE		FOR EXECUTION Company:	ION BY A CORPORATION, ETC.  Office of Oil and Gas
	PERATOR PURVEYOR FOR OF ANY NATURAL GAS STORA	.GE FIELD	Its:	NOV 2 0 2023
				Environmental Protection

## 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="deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

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

November 13, 2023

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

Subject: DOH Permit for the Pinewood Pad, Ritchie County
Conklin 1H Well Site

Dear Mr. Martin,

Alanna J. Keller, P.E.

**Deputy Secretary of Transportation** 

Deputy Commissioner of Highways

This well site will be accessed from a DOH permit #03-2015-0120 which has been issued to Antero Resources for access to the State Road for a well site located off Ritchie County Route 6/2 SLS MP 1.02.

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,

Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

They K. Clayton

Cc:

Stefan Gaspar Antero Resources

OM, D-3 File

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WV Department of Environmental Protection

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

# FRACTURING/STIMULATING INTERVAL

1.	Additive Fresh Water	Chemical Abstract Service Number (CAS #) 7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	
8.		(Proprietary)
9.		(Proprietary) 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	
	Petroleum Distillates (BTEX Below Detect)	Proprietary 64742-47-8
	Polyacrylamide	PROTEINAMORT NOOF NOOF
	Propargyl Alcohol	57-55-6
	Propylene Glycol	107-19-7
	Quartz	57-55-6
		14808-60-7
	Sillica crystalline quartz Sodium Chloride	7631-86-9
		7647-14-5
	Sodium Hydroxide	1310-73-2
	Sugar	57-50-1
50-0-50	Surfactant	68439-51-0
	Suspending agent (solid)	14808-60-7
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, 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
	Hexamythylene Triamine Penta	34690-00-1
	Phosphino Carboxylic acid polymer	71050-62-9
	Hexamethylene diamine penta	23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	Hexamethylene diamine penta (methylene phosphonic ac	cid) 23605-74-5
	Diethylene Glycol	111-46-6
	Methenamine	100-97-0 PECEUM
	Polyethylene polyamine	100-97-0 RECEIVED 68603-67-8 Office of Oil and Gas
	Coco amine	61791-14-8
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7 NOV 2 0 2023
		WV Department of Environmental Protection

OPERATOR: Antero Resources Corporation	WELL NO: Conklin Unit 1H				
PAD NAME: Pinewood Pad					
REVIEWED BY: Stefan Gaspar	SIGNATURE: Clem				
WELL RESTRICTIONS CHECKLIST					

# HORIZONTAL 6A WELL

# Well Restrictions

Restri	ctions				
$\checkmark$	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	any			
	DEP Waiver and Permit Conditions				
$\checkmark$	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to Naturally Producing Trout Stream; OR	any			
	DEP Waiver and Permit Conditions				
$\checkmark$	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to Groundwater Intake or Public Water Supply; OR	any			
	DEP Waiver and Permit Conditions				
$\checkmark$	At Least 250 Feet from an Existing Water Well or Developed Spring to Well B Drilled; OR	eing			
	Surface Owner Waiver and Recorded with County Clerk, OR				
	DEP Variance and Permit Conditions				
$\checkmark$	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; (	)R			
	Surface Owner Waiver and Recorded with County Clerk, OR				
	DEP Variance and Permit Conditions				
$\checkmark$	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to of the Pad; OR	Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center the Pad: OR			
	Surface Owner Waiver and Recorded with County Clerk, OR	Office of Oil and Gas			
	DEP Variance and Permit Conditions	NOV 2 0 2023			
		WV Department of Environmental Projection			