

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 McKINNEY UNIT 1H

47-085-10513-00-00

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 easing. 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: McKINNEY UNIT 1H

Farm Name: MICHAEL UNDERWOOD ET

U.S. WELL NUMBER: 47-085-10513-00-00

Horizontal 6A New Drill

Date Issued: 12/21/2023

API Number: 47-085-10513

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.

4708510513

API NO. 47- 085

OPERATOR WELL NO. McKinney 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) Well Operator: Antero Resources Corporal 494507062 085 - Ritchie Clay Ellenboro 7.5'
Operator ID County District Quadrangle
2) Operator's Well Number: McKinney Unit 1H Well Pad Name: Pinewood Pad
3) Farm Name/Surface Owner: Michael Underwood Et Al Public Road Access: Pinewood Lane
4) Elevation, current ground: 1066' - AS BUILT Elevation, proposed post-construction:
5) Well Type (a) Gas X Oil Underground Storage
Other
(b)If Gas Shallow X Deep
Horizontal X
6) Existing Pad: Yes or No Yes
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus Shale: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#
8) Proposed Total Vertical Depth: 6700' TVD
9) Formation at Total Vertical Depth: Marcellus /
10) Proposed Total Measured Depth: 10000' MD
11) Proposed Horizontal Leg Length: 500' *Open to modification at a later date
12) Approximate Fresh Water Strata Depths: 200', 378', 878'
13) Method to Determine Fresh Water Depths: 47085088860000, 47085077500000 Offset well records. Depths have been adjusted according to surface elevations.
14) Approximate Saltwater Depths: 1490'
15) Approximate Coal Seam Depths: N/A
16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No _X
(a) If Yes, provide Mine Info: Name:
Depth:
Seam:
Owner:
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Wy Department or Environmental Protection

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OPERATOR WELL NO. McKinney Unit 1H Well Pad Name: Pinewood Pad

18)

CASING AND TUBING PROGRAM

TYPE	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#	10000'	10000'	CTS, 1592 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		000000000000000000000000000000000000000	30 Salaman (100 Sa
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					4		
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	
Depths Set:	N/A	

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WV Department of Environmental Protection

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API NO. 47- 085

OPERATOR WELL NO. McKinney 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.

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DEEC 10 4 20 Page 3 of 3

WWVDBparmenobi EnvironmentabPringtinon WW-9 (4/16)

API Number 47 - 085

Operator's Well No. McKinney 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) (Meadowfill Landfill Permit #SWF-1032-98)
Other (Explain Northwestern Landfill Permit #SWF-1032-98)
WV0109410 Wetzel County Landfill (Permit #SWF-1021)
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 (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 NOV 20 2023
Company Official (Typed Name) Gretchen Kohler
Company Official Title Director Environmental & Regulatory Compliance Environmental Protection
Subscribed and sworn before me this 17 day of November, 20 23
Stefan Gus Par Notary Public
Subscribed and sworn before me this 17 day of November 1, 20 23 Stefan Gaspar My commission expires November 15, 2026 STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669 MY COMMISSION EXPIRES NOVEMBER 15, 2026

Form WW-9

		Operator's	Well No. McKinney Unit 1H
Antero Resources Corporation			
Proposed Revegetation Treatment: Acres Distur	bed 19.86 acres	Prevegetation p	Н
Lime 2-4 Tons/acre or to	o correct to pH 6.5		
Fertilizer type Hay or straw or Wood Fibe	er (will be used where nee	ded)	
Fertilizer amount 500	lbs/acre		
Mulch 2-3	Tons/acre		
Access Road (6.57 acres) + Well Pad (8	3.21 acres) + Water Containment = 19.86 a	Pad (1.59 acres) + Excess/Topsoil Mat cres	terial Stockpiles (3.49 acres)
Townson			
Temporary		Perm	anent
Seed Type lbs/acre Annual Ryegrass 40	C*	Seed Type	lbs/acre
	NO.V.	ownvetch	10-15
Field Bromegrass 40		Il Fescue	30
See attached Table IV-3 for additional seed type (Pinewood P		attached Table IV-4A for additional	seed type (Pinewood Pad Design)
or type of grass seed requested by surface	ce owner *or	type of grass seed requ	ested by surface owner
clan Approved by:			
itle: 06 G Inspector	Date:	11/30/202	-3
itle: 06 G Taspector ield Reviewed? (X) Yes	Date:	11/30/202	RECEIVED Office of Oil and Gas

WV Department of Environmental Protection



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 access road will be on the right.

Alternate Directions:

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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.

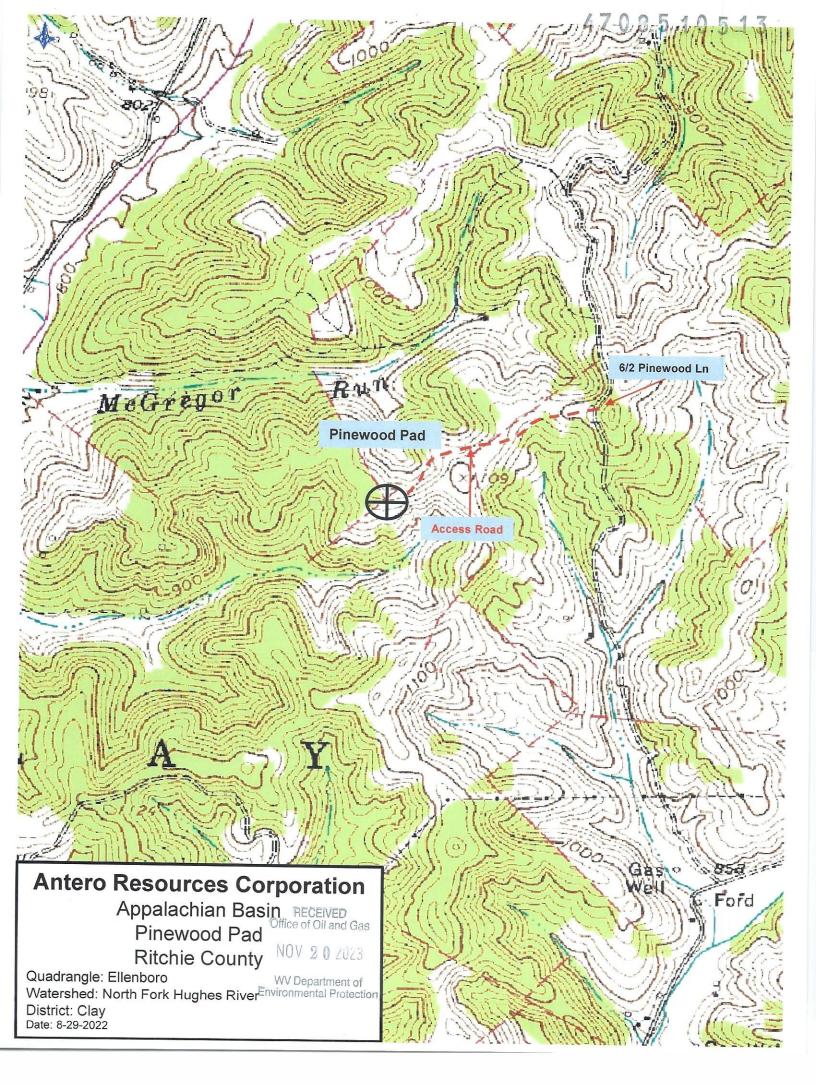
09/9/2022

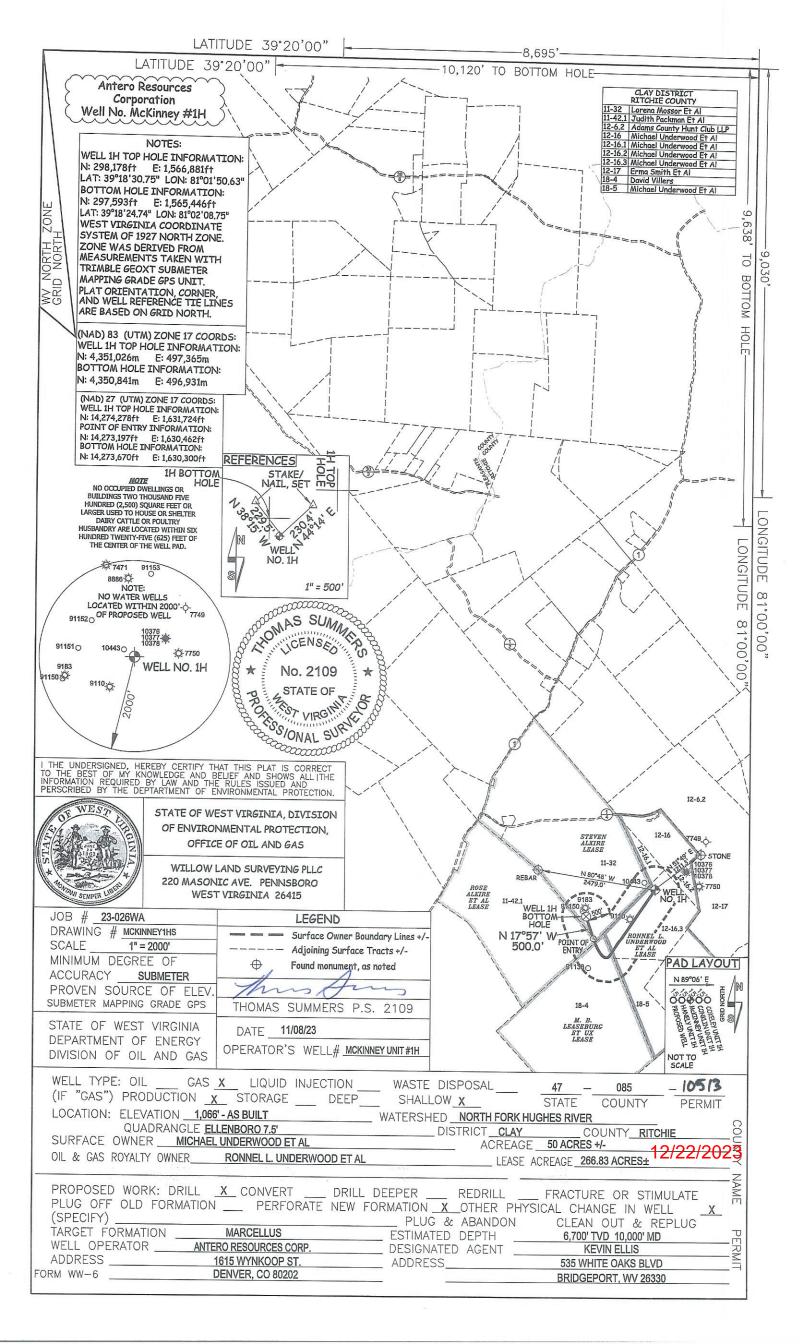
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

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11/3/2023





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
,	,	, 100-B	517 1, 555 .
M.B. Leaseburg Et Ux Lease			
M.B. Leaseburg Et Ux	A.C. Mercer	1/8	0080/0261
A.C. Mercer	Florizel Woodford	Assignment	0080/0267
Florizel Woodford	Rich Oil & Gas Company	Assignment	0081/0236
Rich Oil & Gas Company	W.H. Mossor	Assignment	0098/0256
W.H. Mossor	J&J Enterprises, Inc.	Assignment	0133/0004
J&J Enterprises, Inc.	Term Energy Corporation	Assignment	0172/0336
Term Energy Corporation	Antero Resources Corporation	Assignment	0283/0595
Rose Alkire Et Al Lease			
Rose Alkire Et Al	Walter C. Alkire	1/8	0143/0521
Walter C. Alkire	The Walter C. Alkire, Jr. Family Trust	Agreement	0313/0400
The Walter C. Alkire, Jr. Family Trust	Antero Resources Corporation	Assignment	0289/0050

*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.

^{*}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.

Operator's Well No. McKinney	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

*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.

*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

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WV Department of Environmental Protection

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

Well Operator:

By: Tim Rady

Senior Vice President of Land

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November 15, 2023

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

RE:

McKinney 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 McKinney 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 McKinney Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Thomas Kuhn Staff Landman

Thomas Kuhn

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

Horizontal Natural Gas Well Work Permit Application Notice By Publication

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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 Pennsboro News				
Public Notice Date: 10/11/2023-10/18/2023				
The following applicant intends to apply for a surface excluding pipelines, gathering lines an any thirty day period.	horizontal na d roads or util	tural well worl	k permit which distu n two hundred ten th	arbs three acres or more of lousand gallons of water in
Applicant: Antero Resources Corporation		Well Num	nber: McKinney Un	it 1H
Address: 1615 Wynkoop St. Denver, CO 802	02		3	
Business Conducted: Natural gas production	1.			T
Location –				
State: West Virginia /		County:	Ritchie	
District: Clay		Quadrangle:	Ellenboro 7.5'	E) from the form one
UTM Coordinate NAD83 Northing:	4351026m /			Office of Oil and Gas
UTM coordinate NAD83 Easting: Watershed: North Fork Hughes River	497365m /			NOV 2 0 2023
				WV Department of

Coordinate Conversion:

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

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

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

Environmental Protection

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

Date of Notice Certification: 11/16/2023	API No.	47- 085 -	
	Operator	r's Well No. McK	inney Unit 1H
	Well Pag	Name: Pinewo	od Pad
Notice has been given:			
Pursuant to the provisions in West Virginia Code § 22-6A,	the Operator has provided the	equired parties	with the Notice Forms listed
below for the tract of land as follows:			
State: West Virginia / County: Ritchie	UTM NAD 83 Easting:	497365m	
District: Clay	Northing	I I	
Quadrangle: Ellenboro 7.5'	Public Road Access:	Pinewood Lane	
Watershed: North Fork Hughes River	Generally used farm name:	Michael Underw	ood Et Al
Pursuant to West Virginia Code § 22-6A-7(b), every per prescribed by the secretary, shall be verified and shall contain that provided the owners of the surface described in suinformation required by subsections (b) and (c), section sixt of giving the surface owner notice of entry to survey pursequirements of subsection (b), section sixteen of this artivirginia Code § 22-6A-11(b), the applicant shall tender proof this article have been completed by the applicant.	in the following information: bdivisions (1), (2) and (4), sue een of this article; (ii) that the suant to subsection (a), section cle were waived in writing by	(14) A certification (b), se requirement was the ten of this article of the surface of the surfa	on from the operator that (section ten of this article, the deemed satisfied as a resurce six-a; or (iii) the notice where and Pursuant to West
Pursuant to West Virginia Code § 22-6A, the Operator has that the Operator has properly served the required parties of the Company of the Com	s attached proof to this Notice with the following:	Certification	OOG OFFICE USE
*PLEASE CHECK ALL THAT APPLY			ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ■ NO SEISMI	TICE NOT REQUIRED BEC. C ACTIVITY WAS CONDU		RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐	NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED
NOTICE	TICE NOT REQUIRED BEC E OF ENTRY FOR PLAT SUI ONDUCTED or		RECEIVED/ NOT REQUIRED
	NITTEN WAIVER BY SURF PLEASE ATTACH)	ACE OWNER	
■ 4. NOTICE OF PLANNED OPERATION	in the second	/ED	☐ RECEIVED
■ 5. PUBLIC NOTICE	RECEIV Öffice of Oil		☐ RECEIVED
■ 6. NOTICE OF APPLICATION	NOV 2 (2023	RECEIVED
	WV Depart Environmental		

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator:
By:

Sylvaria S

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

My Commission Expires

Notary Public
My Commission Expires

Notary Public
My Commission Expires

Notary Public
My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, 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 deprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

NOV 2 0 2023

WV Department of Environmental Protection WW-6A (9-13)

API NO. 47- 085 - 10513
OPERATOR WELL NO. McKinney Unit 1H

Well Pad Name: Pinewood Pad

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

4708510513

API NO. 47- 085

OPERATOR WELL NO. McKinney 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) visiting www.dep.wv.gov/oil-and-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

470 9 5 10 5 13 API NO. 47-085

OPERATOR WELL NO. McKinney 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:

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

Office of Oil and Gas NOV 2 0 2023

WV Department of Environmental Protection

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

OPERATOR WELL NO. McKinney 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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

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

08510513

OPERATOR WELL NO. McKinney Unit 1H Well Pad Name: Pinewood Pad

Notice is hereby given by:

Well Operator: Antero Resources Corpo

Telephone: (303) 357-7310

Email:

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 Craspar Notary Public My Commission Expires November 15, 2026

RECEIVED Office of Oil and Gas

NOV 2 0 2023

WV Department of Environmental Protection WW-6A4 (1/12) 4708510513
Operator Well No. McKinney 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.

Date of Noti	Requirement: Notice shall be provided at ce: 10/06/2023 Date Per	e least TEN (10) days prior to filing a mit Application Filed: 11/17/2023	permit application.	
Delivery me	thod pursuant to West Virginia Code § 2	2-6A-16(b)		
☐ HAND	■ CERTIFIED MAIL			
DELIV		DUESTED		
receipt reque drilling a hor of this subse- subsection m	W. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own rizontal well: <i>Provided</i> , That notice given ction as of the date the notice was provided ay be waived in writing by the surface own ble, facsimile number and electronic mail as	ner notice of its intent to enter upon the pursuant to subsection (a), section tele to the surface owner: <i>Provided, how</i> ner. The notice, if required, shall include:	ne surface owner's land for the purp on of this article satisfies the require vever, That the notice requirements of ude the name, address, telephone nu	ose of ments of this
Notice is he	ereby provided to the SURFACE OW	VNER(s):		
	Gail & Stephen D. Underwood	Name: Kenneth E. & Deanna	a M. Mossor	
Address: 321	Pinewood Lane	Address: 7093 Bonds Creek	Road	
Pennsboro, WV	26415	Ellenboro, WV 26346		
the surface o State: County:	West Virginia Code § 22-6A-16(b), notice wner's land for the purpose of drilling a ho West Virginia Ritchie	rizontal well on the tract of land as fo UTM NAD 83 Easting: Northing:	Illows: 497365m 4351026m Pinewood Lane	шроп
District: Quadrangle: Watershed:	Clay Ellenboro 7.5' North Fork Hughes River	Public Road Access: Generally used farm name:	Michael Underwood Et Al	
District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to ho	Ellenboro 7.5'	notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	michael Underwood Et Al ress, telephone number, and if ava red representative. Additional inform f Environmental Protection headqu	nation arters,
District: Quadrangle: Watershed: This Notice Pursuant to facsimile nu related to ho located at 60 Notice is he	Ellenboro 7.5' North Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (Cereby given by:	notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	ress, telephone number, and if ava ed representative. Additional inform f Environmental Protection headquep.wv.gov/oil-and-gas/pages/default	nation arters, .aspx.
District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to ho located at 60	Ellenboro 7.5' North Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (Cereby given by:	Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	ress, telephone number, and if ava ed representative. Additional inform f Environmental Protection headquep.wv.gov/oil-and-gas/pages/default	nation arters,
District: Quadrangle: Watershed: This Notice Pursuant to facsimile nu related to ho located at 60 Notice is he	Ellenboro 7.5' North Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (Streby given by:	Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	ress, telephone number, and if avared representative. Additional inform f Environmental Protection headquep.wv.gov/oil-and-gas/pages/default	nation arters, .aspx.
District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to ho located at 60 Notice is he Well Operate Address:	Ellenboro 7.5' North Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (Sereby given by: Antero Resources Corporation	Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	ress, telephone number, and if ava ed representative. Additional inform f Environmental Protection headquep.wv.gov/oil-and-gas/pages/default	nation arters, .aspx.
District: Quadrangle: Watershed: This Notice Pursuant to facsimile nu related to ho located at 60 Notice is he Well Operato	Ellenboro 7.5' North Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (2007) Preby given by: Antero Resources Corporation 1615 Wynkoop St.	Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	ress, telephone number, and if avared representative. Additional inform f Environmental Protection headquep.wv.gov/oil-and-gas/pages/default Mallory Turco REC 1615 Wynkoop St.	nation arters, .aspx.
District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to ho located at 60 Notice is he Well Operate Address:	Ellenboro 7.5' North Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57th Street, SE, Charleston, WV 25304 (2002) Pereby given by: Antero Resources Corporation 1615 Wynkoop St. Denver, CO 80202	Generally used farm name: notice shall include the name, address: Secretary, at the WV Department of 304-926-0450) or by visiting www.de Authorized Representative: Address:	ress, telephone number, and if avared representative. Additional inform f Environmental Protection headquep.wv.gov/oil-and-gas/pages/default Mallory Turco Mallory Turco 1615 Wynkoop St. Denver, CO 80202	nation arters, .aspx.

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

Operator Well No. McKinney Unit 1H

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

Date of Not	ice: 11/17/2023 Date Permit Appl	iter than the filing lication Filed: 11	g date of permit /17/2023	application.
Delivery me	ethod pursuant to West Virginia Code § 22-	6A-16(c)		
		AND ELIVERY		
the planned required to be drilling of a damages to the contraction of	W. Va. Code § 22-6A-16(c), no later than the trequested or hand delivery, give the surface operation. The notice required by this subsette provided by subsection (b), section ten of the horizontal well; and (3) A proposed surface he surface affected by oil and gas operations the serror of the surface affected by this section shall be given to the	owner whose land ection shall included is article to a suruse and compend the extent the design of the extent the ext	Id will be used for ide: (1) A copy face owner whos sation agreemen	or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for persable under article six h of this shorter.
(at the addre	reby provided to the SURFACE OWNER(s) as listed in the records of the sheriff at the time (Gail & Stephen D. Underwood	e of notice):	Kenneth E. & Deanna	M. Mossor
Address: 321			S: 7093 Bonds Creek	the state of the s
Pennsboro, WV	26415		o, WV 26346	
Pursuant to Voperation on State: County: District:	Vest Virginia Code § 22-6A-16(c), notice is he the surface owner's land for the purpose of drugonia West Virginia Ritchie	ereby given that t rilling a horizonta UTM NAD	Easting: Northing:	vell operator has developed a planned of of land as follows: 497365m 4351026m
Quadrangle:	Clay	Public Road		Pinewood Lane
Watershed:	Ellenboro 7.5' North Fork Hughes River	Generally us	ed farm name:	Michael Underwood Et Al
Pursuant to Voto be provide norizontal we surface affect of the providence of the pr	Shall Include: Vest Virginia Code § 22-6A-16(c), this notice ed by W. Va. Code § 22-6A-10(b) to a surface lit; and (3) A proposed surface use and competed by oil and gas operations to the extent the related to horizontal drilling may be obtained located at 601 57 th Street, SE, Charlesto Sault.aspx.	ensation agreeme e damages are co	e land will be unt containing an ompensable under the WV	sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-damages-number-additional-damages-number-additi
Well Operato	r: Antero Resources Corporation	Address:	1615 Wynkoon Start	RECEIVED Office of Oil and Gas
Telephone:	(303) 357-7310		1615 Wynkoop Stree Denver, CO 80202	
Email:	mturco@anteroresources.com	Facsimile:	303-357-7315	NOV 20 2023
oil and Gas	Privacy Notice:			WV Department of

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

API NO. 47-085 - 5 1 0 5 1 3
OPERATOR WELL NO. McKinney 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

	VOLUNTART STA	T INTALESTA I	OF NO OB	JECTION	
WW-6A and	, hereby state that I have re ted above, and that I have received copies of attachments consisting of pages one (1) the the well plat, all for proposed well work on the	a Notice of A rough	pplication, an Application, and Application	nlication for a Well Work Permit on Form	
State:	West Virginia			497365m	
County:	Titlefile	Public Road Access:		4351026m	
District:	Clay			Pinewood Lane	
Quadrangle: Watershed:	Ellenboro 7.5' North Fork Hughes River			Michael Underwood Et Al	
*Please check the box that applies			FOR EXECUTION BY A NATURAL PERSON		
_			FOR EXECUTION BY A NATURAL PERSON		
■ SURFACE OWNER □ SURFACE OWNER (Road and/or Other Disturbance)			Signature: Print Name:		
☐ SURFACE OWNER (Impoundments/Pits)			Date.		
☐ COAL OWNER OR LESSEE			FOR EXECUTION BY A CORPORATION, ETC. Company:		
□ COAL O	PERATOR		By: Its:	RECEIVED Office of Oil and Gas	
□ WATER	PURVEYOR		Signature:	Office of Oil and Gas	
□ OPERAT	TOR OF ANY NATURAL GAS STORAG	GE FIELD	Date:	NOV 2 0 2023	

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 deprivacyofficer@wv.gov.

Environmental Protection



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

Alanna J. Keller, P.E. Deputy Secretary of Transportation Deputy Commissioner of Highways

November 13, 2023

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

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

Dear Mr. Martin,

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,

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

Regional Operations Engineer

Central Office O&G Coordinator

RECEIVED Office of Oil and Gas

NOV 2 0 2023

WV Department of Environmental Protection

Antero Resources

Stefan Gaspar

Cc:

OM, D-3 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

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

FRACTURING/STIMULATING INTERVAL

Additive	Chemical Abstract Service Number (CAS #)
1. Fresh Water	7732-18-5
2. 2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3. Ammonium Persulfate	7727-54-0
4. Anionic copolymer	
5. Anionic polymer	Proprietary
6. BTEX Free Hydrotreated Heavy Naphtha	Proprietary 64742-48-9
7. Cellulase enzyme	
8. Demulsifier Base	(Proprietary)
Ethoxylated alcohol blend	(Proprietary) Mixture
10. Ethoxylated Nonylphenol	68412-54-4
11. Ethoxylated oleylamine	26635-93-8
12. Ethylene Glycol	107-21-1
13. Glycol Ethers	111-76-2
14. Guar gum	9000-30-0
15. Hydrogen Chloride	7647-01-0
16. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
17. Isopropyl alcohol	67-63-0
Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
19. Microparticle	Proprietary
20. Petroleum Distillates (BTEX Below Detect)	64742-47-8
21. Polyacrylamide	57-55-6
22. Propargyl Alcohol	107-19-7
23. Propylene Glycol	57-55-6
24. Quartz	14808-60-7
25. Sillica crystalline quartz	7631-86-9
26. Sodium Chloride	7647-14-5
27. Sodium Hydroxide	1310-73-2
28. Sugar	57-50-1
29. Surfactant	68439-51-0
30. Suspending agent (solid)	14808-60-7
31. Tar bases, quinolone derivs, benzyl chloride-quarternize	72480-70-7
32. Solvent Naptha, petroleum, heavy aliph	64742-96-7
33. Soybean Oil, Me ester	67784-80-9
34. Copolymer of Maleic and Acrylic Acid	52255-49-9
35. DETA Phosphonate	15827-60-8
36. Hexamythylene Triamine Penta	34690-00-1 RECEIVED
37. Phosphino Carboxylic acid polymer	71050-62-9 Office of Oil and Gas
38. Hexamethylene diamine penta	23605-74-5
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9 NOV 2 0 2023
40. Hexamethylene diamine penta (methylene phosphonic41. Diethylene Glycol	140/ Danartment of
42. Methenamine	Environmental Protection
43. Polyethylene polyamine	100-97-0
44. Coco amine	68603-67-8
45. 2-Propyn-1-olcompound with methyloxirane	61791-14-8
The state of the s	38172-91-7

OPERATOR:	Antero Resources Corporation	WELL NO: McKinney Unit 1H					
PAD NAME:_	Pinewood Pad						
REVIEWED I	s _{Y:} Stefan Gaspar	SIGNATURE:	V				
WELL RESTRICTIONS CHECKLIST							
HORIZONTAL 6A WELL							
Well Restri	etions						
\checkmark	At Least 100 Feet from Pad and LOD (in Perennial Stream, Lake, Pond, Reservoir DEP Waiver and Permit Condition	or Wetland; OR	y				
\checkmark	At Least 300 Feet from Pad and LOD (in Naturally Producing Trout Stream; OR	cluding any E&S Control Feature) to an	y				
\checkmark	DEP Waiver and Permit Condition At Least 1000 Feet from Pad and LOD (i Groundwater Intake or Public Water Sup	ncluding any E&S Control Feature) to a	ny				
\checkmark	DEP Waiver and Permit Conditio At Least 250 Feet from an Existing Wate Drilled; OR		ng				
	Surface Owner Waiver and Recor						
\checkmark	At Least 625 Feet from an Occupied Dwe		RECEIVED Office of Oil and Gas				
	Surface Owner Waiver and Recor DEP Variance and Permit Conditi	and .	NOV 2 0 2023				
\checkmark	At Least 625 Feet from Agricultural Builof the Pad: OR	la de la companya de	Total Protection				

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions