

#### 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

Thursday, July 7, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for PHEBE 2H

47-017-06938-00-00

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: PHEBE 2H

Farm Name: JEFFREY D & CRAIG A HILL

U.S. WELL NUMBER: 47-017-06938-00-00

Horizontal 6A New Drill Date Issued: 7/7/2022

API Number: 47-017-06938

## 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

- 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.
- 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.
- 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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 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.

API Number: 47-017-06938

## PERMIT CONDITIONS

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. 47-0 V OPERATOR WELL NO. Phebe Unit 2H
Well Pad Name: Lemkey Pad

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

1) Well Operator: An	ntero Resources Corpor	494507062	017-Doddrid Grant	Smithburg 7.5'
1) Well Operator.	3.5.7.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	Operator ID	County Distric	
2) Operator's Well Nu	imber: Phebe Unit 2H	Well Pa	ad Name: Lemley Pad	
3) Farm Name/Surface	e Owner: Phillip N. Hill, e	et al Public Ro	ad Access: Hollow Run	Rd
4) Elevation, current g	round: 1304' AS BUILT E	Elevation, proposed	post-construction:	
5) Well Type (a) Ga Other			lerground Storage	
(b)If G	Gas Shallow X Horizontal X	Deep		-
6) Existing Pad: Yes or				
	rmation(s), Depth(s), Anti-			):
8) Proposed Total Vert	tical Depth: 7700' TVD			
9) Formation at Total V	Vertical Depth: Marcellu	s		
10) Proposed Total Me	easured Depth: 7700' MI	Ď.		
11) Proposed Horizonta	al Leg Length: 0' *Ope	en to modification	at a later date	
12) Approximate Fresh	Water Strata Depths:	225', 279', 790'		
13) Method to Determin 14) Approximate Saltw	Trebu Trater Deputs.	47-017-04998, 47-017-04 3', 1700', 1710'	719. Depths have been adjusted a	according to surface elevations.
15) Approximate Coal	Seam Depths: 980'			
16) Approximate Depth	h to Possible Void (coal m	ine, karst, other):	None Anticipated	
	I location contain coal sea ljacent to an active mine?	ms Yes	No X	
(a) If Yes, provide Mi	ine Info: Name:			
	Depth:			
	Seam:			
	Owner:			

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Stacker 6-14-22 07/08/2022 WW-6B (04/15)

API NO. 47- 017 -	
OPERATOR WELL NO.	Phetie Unit 2H
Well Pad Name: Lemi	eyPed

#### 18)

#### **CASING AND TUBING PROGRAM**

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	X60	78.67#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	840'	840'	CTS, 433 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3200'	3200'	CTS, 1303 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110HP	23#	7700'	7700'	1023 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	

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

#### **PACKERS**

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

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5m 6-107/08/2022 WW-6B (10/14) API NO. 47- 017

OPERATOR WELL NO, Phebe Unit 2H

Well Pad Name: Lemiey Pad

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

Drill, perforate, fracture a new horizontal shallow well and complete 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): 27.26 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 4.31 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 cement.

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

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

#### 25) Proposed borehole conditioning procedures:

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

Surface: blowhole clean with air, trip 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.

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\*Note: Attach additional sheets as needed.

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5M 6-16-07/08/2022

## LEMLEY PAD ANTERO RESOURCES CORPORATION



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WV Department of Environmental Protection

WILLOW LAND SURVEYING, PLLC P.O. BOX 17, PENINSBORO, WV 26415 (304) 659-1717

DATE: 05/19/22

DRAWN BY: D.L.P.

JOB #: 22-005WA

0,

SCALE: 1-INCH = 1000-FEET 1000'

20001

3000

FILE: PHEBE2HAOR.DWG

 Vumber
 Operator
 Historical Operator
 TD
 Perforated External (shullowest, deepers)
 Perforated Formation

 128
 OOMMINION TRANSMISION
 HOPE NATURAL GAS
 2,394
 Response of transmission
 Rep Injury, Squary

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WW-9 (4/16)

API Number 47 - 017

Operator's Well No. Photo Unit 2H

## 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) McElroy Creek	Quadrangle Smithburg 7.5'
Do you anticipate using more than 5,000 bbls of water to c Will a pit be used? Yes No	complete the proposed well work? Yes No No
If so, please describe anticipated pit waste:	will be used at this site (Dritting and Flowbach Fluids will be stored in tanks. Cuttings will be tented and hauled off was.)
Will a synthetic liner be used in the pit? Yes	No   If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Waste	s:
Reuse (at API Number Future pe     Off Site Disposal (Supply form     Other (Explain	crmit Number *UIC Permit # will be provided on Form WR-34 emitted well locations when applicable. AP# will be provided on Form WR-34  WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)  Northwestern Landfill Permit #SWF-1025/  WV0109410  (Wetzel Co Landfill Permit #SWF-1021)  ds stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horiz	zontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	, Synthetic
Additives to be used in drilling medium? Please See Attach	iment
Drill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landill.
-If left in pit and plan to solidify what medium wil	l be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?Meadow	fill Lendfill (Permit #SWF-1032-98), Northwestern Lendfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil as	nd Gas of any load of drill cuttings or associated waste rejected at any ided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the Wes provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action.  I certify under penalty of law that I have person application form and all attachments thereto and that, b obtaining the information, I believe that the information penalties for submitting false information, including the pos	
Company Official Signature Gretchen Kohler	JUN 2 3 2022
Company Official (Typed Name) Gretchen Kohler Company Official Title Director Environmental & Regulatory	Compliance WV Department of
Company Official Title Director Environmental & Regulatory	Compliance Environmental Protection
Subscribed and sworn before me this 31 day of	May 2022
	THANE BLAID
My commission expires 27 Apr 2	STATE OF COLORADO NUTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024
	5M 07/08/20 G-16-72

		Uperators	Well No. Phebe Unit 2H	
Antero Resources Co	rporation	·		
roposed Revegetation Treatme	nt: Acres Disturbed 27.26 8	icres Prevegetation p	TH .	
Lime 2-4	Tons/acre or to correct to pl	4 6.5		
Fertilizer type Hay or s	traw or Wood Fiber (will be used	where needed)		
Fertilizer amount_500				
Mulch 2-3	Tons/	acre	ized impoundment Pad (5.54 acres)	
		3] acps) + Truck Turneround Pad (1.36) + Ceptral ochpiles (5.65 acrss) = 27.26 Acrss d Mixtures		
Tempe		Perm	anent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Annual Ryegrass	40	Crownvetch	10-15	
Field Bromegrass	40	Tall Fescue	30	
See attached Table IV-3 for additional seed type (Lemley Ped Design)		See attached Table IV-4A for additional seed type (Lemley Ped Design		
	seed type (Carties) + an Dassign)	266 Brischen I EGG IA-N tot Wichfing	a seen type (Contact t or Condit)	
*or type of grass seed requentation: Attach: Aaps(s) of road, location, pit and rovided). If water from the pit w	ested by surface owner  I proposed area for land applications and applications are the surface of the surface o	*or type of grass seed required to the second of the pit, and the pit,	ested by surface owner	
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### Form WW-9 Additives Attachment

#### **SURFACE INTERVAL**

- 1. Fresh Water
- 2. Soap -Foamer AC
- 3. Air

#### **INTERMEDIATE INTERVAL**

#### STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

#### PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide – Lime

11. LD-9

Polyether Polyol - Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

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13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt - Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

**Drilling Fluid Lubricant** 

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911 Address 3126 Morgans Run Rd West Union, WV 26456

# Well Site Safety Plan Antero Resources

Well Name: Lemley Unit 5V

Pad Location: LEMLEY PAD

Doddridge County/Grant District

Office of Oil & Gas

JUN 23 2022

WV Department of Environmental Protection

#### **GPS Coordinates:**

Entrance - Lat 39°19′25.08″/Long -80°41′13.18″ (NAD83)

Pad Center - Lat 39°19′34.87″/Long -80°40′48.39″ (NAD83)

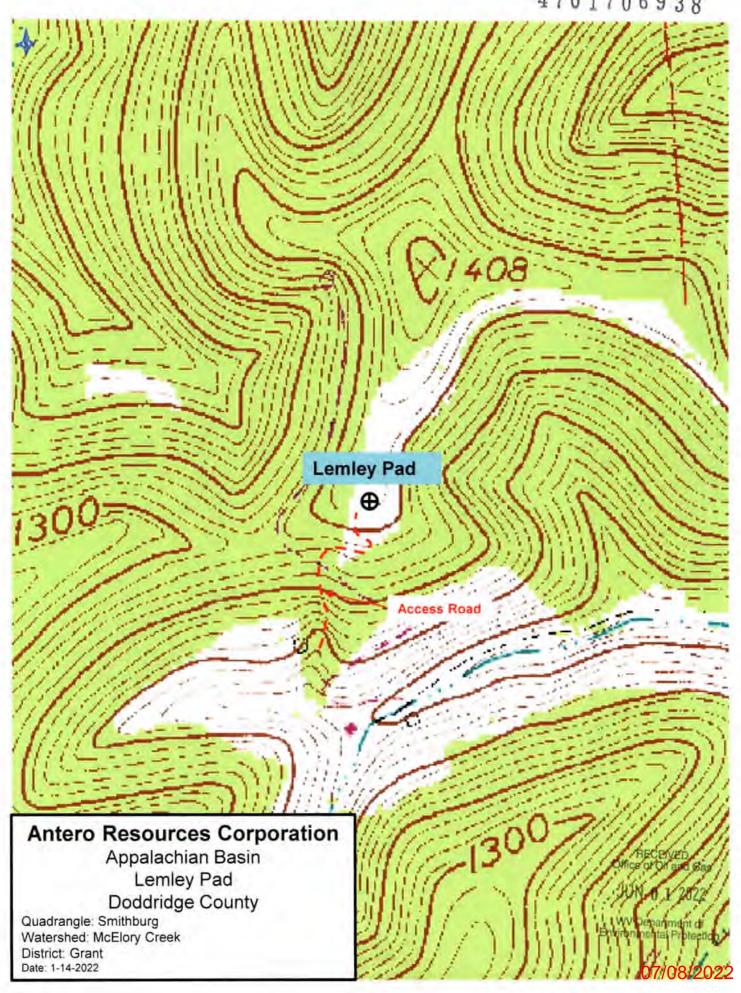
## **Driving Directions:**

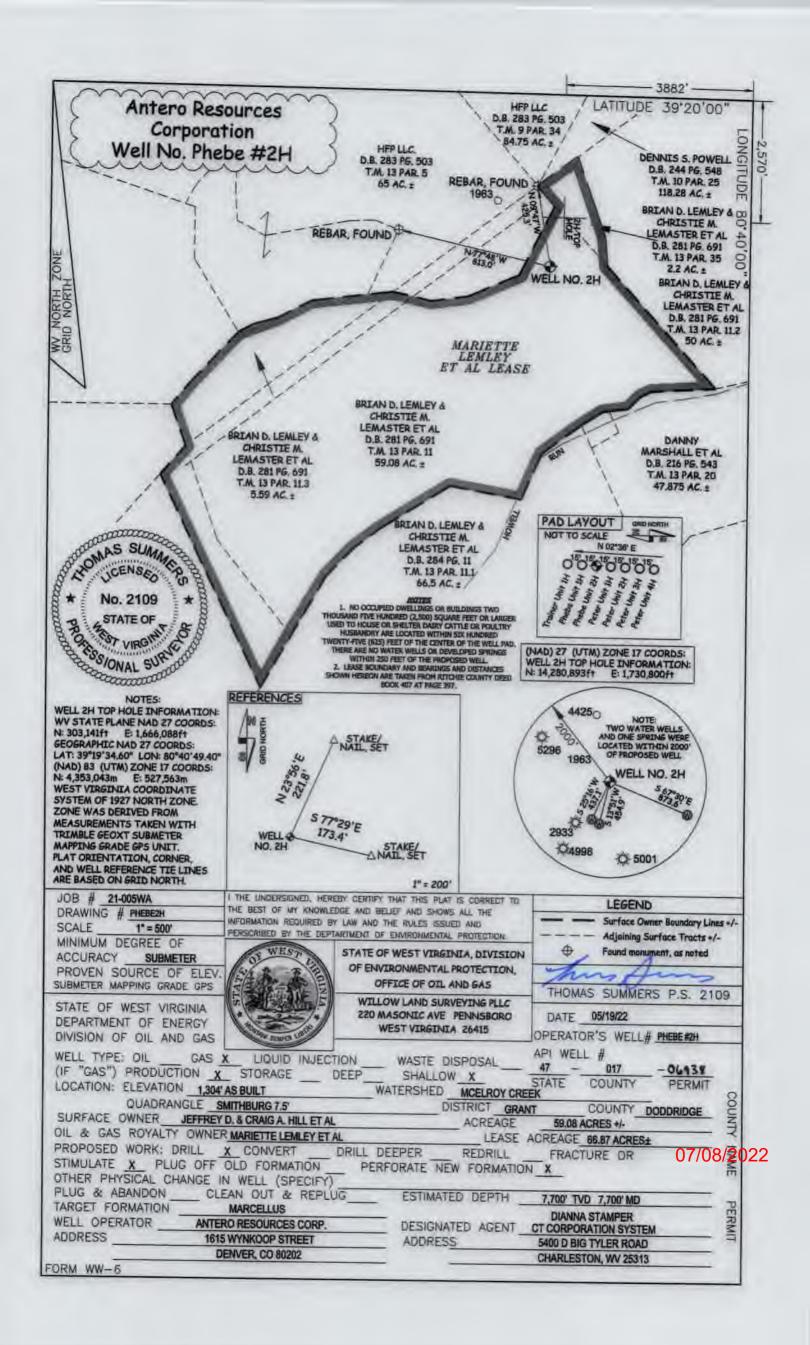
From The intersection of US 50 and Interstate 79 near Bridgeport, WV travel west on US 50 approximately 19 miles. Turn right (north) onto Co Rt 9/Tarkiln Run and take the first left (west) toward Co Rt 3/Big Flint Rd. Turn right (north) onto Co Rt 3/Big Flint Rd and travel approximately 7.5 miles. Turn left onto Co Rt 5/Riggins Run Rd and travel south approximately 0.3 miles. Turn left onto Co Rt 30/Israel Fork and continue south approximately 2.5 miles. Turn left onto Main Camp Rd and continue approximately 0.2 miles to location.

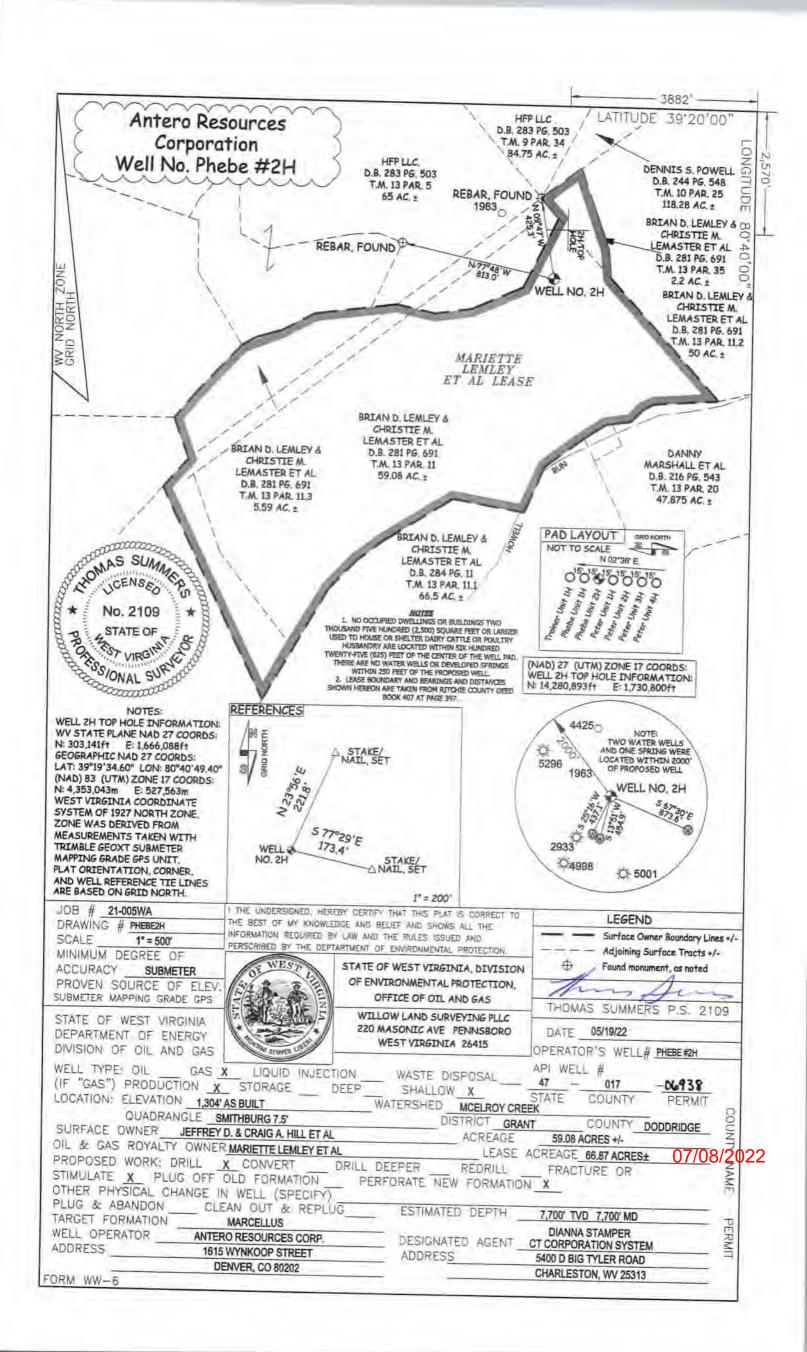
### **Alternate Route:**

From the intersection of HWY 19 and US-50 near West Union, head east on US-50 for 4.7 miles. Turn left onto Morgans Run/20 and continue for 1.5 miles. Continue straight onto Israels Fork for 1.7 miles. Follow the road up some switch backs, passed the water containment and the pad will be straight ahead.

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







Operator's Well Number

Phebe Unit 2H

#### 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
Mariette Lemley, et al Lease Mariette Lemley, et al S&K Land Company Mert Development, Inc. Continental Reserves 1980-E Appalachian Energy Development Corporation Appalachian Energy Reserves, Inc. Jay Shearer Clowser Production Company Antero Resources Appalachian Corporation	S&K Land Company Mert Development, Inc. Continental Reserves 1980-E Appalachian Energy Development Corporation Appalachian Energy Reserves, Inc Jay Shearer Clowser Production Company Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Affidavit of Identity Assignment Assignment Assignment Assignment Name Change	0114/0075 0115/0110 0123/0022 0150/0251 0019/0210 0179/0146 0285/0420 0285/0417 <b>0046/0523</b>

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JUN 0 1 2022

<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-6A	J
(5/13)	

#### 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, 1 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
Mariette Lemiey, et ai Lease	S & K Land Company Mert Development, Inc. Continental Reserves 1980-E	S & K Land Company Mert Development, Inc. Continental Reserves 1980-E Appalachian Energy Development Corp.	1/8 Assignment Assignment Assignment Assignment Assignment Assignment	0114/0075 0115/0110 0123/0022 0150/0251 0019/0210 0179/0146 0285/0420 0285/0417 <b>0046/0523</b>

\*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.

#### 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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JUN 0 1 2022

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:	Antero Resources Corporation			
By:	Tim Rady			
Its:	Senior VP of Operations			

Page 1 of 1



May 31, 2022

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

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

RE: Phebe Unit 1H & 2H

Quadrangle: Smithburg 7.5'

Doddridge County/Grant District, West Virginia

#### Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following applications for a new well work permits for the Phebe Unit 1H & 2H horizontal shallow wells. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Phebe Unit 1H - 4H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Skavdahl Senior Landman

> RECEIVED Office of Oil and Gas

JUN 0 1 2022

Date of Notice Certification: 05/30/2022

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

API No. 47- 017

			Operator's	Well No. Phet	e Unit 2H	
			Well Pad	Name: Lemley	Pad	
Pursuant to the below for the	been given: he provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has pro-	vided the rec	quired parties v	vith the Notice Forms listed	
State:	West Virginia	UTM NAD 83	Easting:	527563.2m		
County:	Doddridge		Northing:	4353043.2m	<u> </u>	
District:	Grant		Public Road Access: Generally used farm name:		Hollow Run Rd Hill, et al	
Quadrangle:	Smithburg 7.5'	Generally used fa				
Watershed:	McEiroy Creek	<del></del>				
prescribed by it has provid information r of giving the requirements Virginia Cod	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface described and sed the owners of the surface described and (c), so surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall shave been completed by the applicant	shall contain the following infolibed in subdivisions (1), (2) a ection sixteen of this article; (ii urvey pursuant to subsection (of this article were waived in tender proof of and certify to the	ormation: (1 and (4), substitute that the real a), section writing by	4) A certification (b), second (b), second (b), second (c), second	on from the operator that (into ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice where and Pursuant to West	
Pursuant to that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require	perator has attached proof to the parties with the following:	nis Notice C	ertification		
*PLEASE CH	ECK ALL THAT APPLY				OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or 🔳 NO PLAT SURVI	EY WAS CO	ONDUCTED		
_					☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR I WAS CONDUCTED or			RECEIVED/ RECEIVED/ NOT REQUIRED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE OF ENTRY FOR I	PLAT SURV	/EY	□ RECEIVED/	
	TICE OF INTENT TO DRILL OF	NOTICE OF ENTRY FOR I WAS CONDUCTED or  WRITTEN WAIVER I	PLAT SURV	/EY	□ RECEIVED/	
■ 4. NO		NOTICE OF ENTRY FOR I WAS CONDUCTED or  WRITTEN WAIVER I	PLAT SURV	/EY	□ RECEIVED/ NOT REQUIRED	

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 person the return receipt card or other postal receipt for certified mailing.

JUN 0 1 2022

By:

Its:

#### Certification of Notice is hereby given:

THEREFORE, I Diana Hoff

, 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

Diana Hoff Diana O. Ho

Senior Vice President - Operations

Telephone: 303-357-7310

\_\_ Address:

1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email:

mstanton@anteroresources.com

DNANGROSANI NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024

Subscribed and sworn before me this

may 2022

Notary Public

My Commission Expires 27 Apr 2024

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 awv.gov.

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Office of Oil and Gas

JUN 0 1 2022

W07/08/2022

WW-6A (9-13) 4701706938

OPERATOR WELL NO. Phebe Unit 2H
Well Pad Name: Lemley Pad

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

	ice 1 mic Kedan enten	u: nouce snan oe pro	vided no later th	an the filing date of permit application.	
Date	e of Notice: 04/12/2022	Date Permit Annlie	etion Filed, as	94/9009	
	ice of:	Date Fertilit Applic	atton Filed: 05/	3112022	
. 101					
$   \overline{\mathcal{L}} $	PERMIT FOR ANY	☐ CERTII	FICATE OF AP	PROVAL FOR THE	
	WELL WORK			AN IMPOUNDMENT OR PIT	
Deli	very method pursuan	it to West Virginia (	Code § 22-6A-1	0(b)	
	PERSONAL [	7	<b>-</b>		
ш		REGISTERED		HOD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECE	IPT OR SIGNATURE CONFIRMATION	
the si oil ar descrippera more well impo have provi proposubse recor code	urface of the tract on what gas leasehold being or ibed in the erosion and stor or lessee, in the every coal seams; (4) The own work, if the surface tract undment or pit as described a water well, spring or de water for consumptions well work activity ection (b) of this section ds of the sheriff requires sion of this article to the R. § 35-8-5.7.a require	thich the well is or is projected by the proper sediment control plan and the tract of land on the proper sediment control plan and the tract of land on the proper sediment control plan and the tract of land on the proper sediment of the sed in section nine of water supply source to on by humans or dome is to take place. (c)(1) hold interests in the lad to be maintained pure contrary, notice to a ses, in part, that the ope	this article, and roposed to be locosed well work, is submitted pursu which the well purface tract or troplacement, constitution this article; (5) acated within one estic animals; and If more than threads, the applicant to section lien holder is not erator shall also pursued to be constituted in the constitution of the const	or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The ated; (2) The owners of record of the surface tract or f the surface tract is to be used for roads or other landant to subsection (c), section seven of this article; (3) proposed to be drilled is located [sic] is known to be a acts overlying the oil and gas leasehold being develorated (6). The operator of any natural gas storage field with thousand five hundred feet of the center of the well (6). The operator of any natural gas storage field with the transport of the center of the well (6). The operator of any natural gas storage field with thousand five hundred feet of the center of the well (6). The operator of any natural gas storage field with thousand five hundred feet of the center of the well (6). The operator of any natural gas storage field with thousand five hundred feet of the center of the well (6). The operator of any natural gas storage field with thousand five hundred feet of the center of the well (6). The operator of any natural gas storage field with thousand five hundred feet of the center of the well (6). The operator of any natural gas storage field with thousand five hundred feet of the center of the well (6). The operator of any natural gas storage field with thousand five hundred feet of the	e owners of record of tracts overlying the disturbance as The coal owner, underlain by one or ped by the proposed pandonment of any to the applicant to pad which is used to thin which the described in the lotwithstanding any and owner. W. Va.
Ø Aj	pplication Notice 🛛	WSSP Notice □E&	&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
	RFACE OWNER(s)			☐ COAL OWNER OR LESSEE	
Vamo				Name: NO DECLARATIONS ON RECORD WITH COUNTY	RECEIVED
Addr	ess:		_	Address:	Office of Oil and Gas
Vamo	<u></u>	<del>_</del>	_	E COAL OPENATOR	-JUN 0 1 2022
Addr		<u> </u>	<del>-</del> -	COAL OPERATOR	VOI. U I COLL
			_	Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:	<ul> <li>WV Department of</li> </ul>
JSU	RFACE OWNER(s) (1	Road and/or Other Di	sturbance)		nvironmental Protection
Vame	e:		•	SURFACE OWNER OF WATER WELL	<u> </u>
\ddr	ess:	<u> </u>	_	AND/OR WATER PURVEYOR(s)	
_				Name: _ PLEASE SEE ATTACHMENT	
lame	:	<del></del> -	_	Address:	
\adr	ess:	<del></del>	_		<del></del>
	RFACE OWNER(s) (I			OPERATOR OF ANY NATURAL GAS STO	
j a∪: Jame	". ACE OWNER(S) (I	impoundments or Pits	5)	Name:	_
ddr	ess:	<del></del>	-	Address:	_
			_	*Please attach additional forms if necessary	-

RECEIVED Office of Oil and Gas

4701706938
API NO. 47-017
OPERATOR WELL NO. Phebe Unit 2H
Well Pad Name: Lemley Pad

JUN 0 1 2022

#### 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 air impoundment of 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 <a href="https://www.dep.wv.gov/otl-and-gas/pages/default-aspx.">www.dep.wv.gov/otl-and-gas/pages/default-aspx.</a>

#### Well Location Restrictions

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

WW-6A (8-13) API NO. 47-017

OPERATOR WELL, NO. Phebe Unit 2H

Well Pad Name: Lemley Pad

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

RECEIVED Office of Oil and Gas

JUN 0 1 2022

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.

WW-6A (8-13) 4701706938
API NO. 47- D17
OPERATOR WELL NO. Phebe Unit 2H
Well Pad Name: Lemley 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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WW-6A (8-13)

## 4701706938

API NO. 47-017

OPERATOR WELL NO. Phebe Unit 2H

Well Pad Name: Lemley Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana
Email: mstanton@anteroresources.com

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

#### Oil and Gas Privacy Notice:

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

DIANE BLAIR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 19994011871
MY COMMISSION EXPIRES 27-Apr-2024

Subscribed and sworn before me this 3/ day of May. 20

Notary Public

My Commission Expires

27 Apr 2024

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Office of Oil and Gas

JUN 0 1 2022

### WW-6A Notice of Application Attachment: Multiple Wells - Lemley Pad

#### **Surface Owners:**

Tax Parcel ID: 13-5

Owner:

HFP LLC

Address:

PO Box 418

Kenova, WV 25530-0418

**Surface Owners:** 

Tax Parcel ID: 13-11, 11.2, 35

Owner:

Brian D. Lemley & Christy M. LeMaster

Address:

1105 20th St.

Vienna, WV 26105-1237

Owner: Address: Jefferey D. Hill 35 Timberland Dr.

Parkersburg, WV 26104-3702

Water Source Owners: Within 2000'

TM 13-11

2 Water Wells: 893.5' (W1) 952.2 (W2)

Owner:

Brian D. Lemley & Christy M. LeMaster.

Address:

1105 20th Street

Vienna, WV 25530

TM 14-43

1 Water Well: 1870.2' (W1)

Owner:

Danny J. & Linda K. Marshall

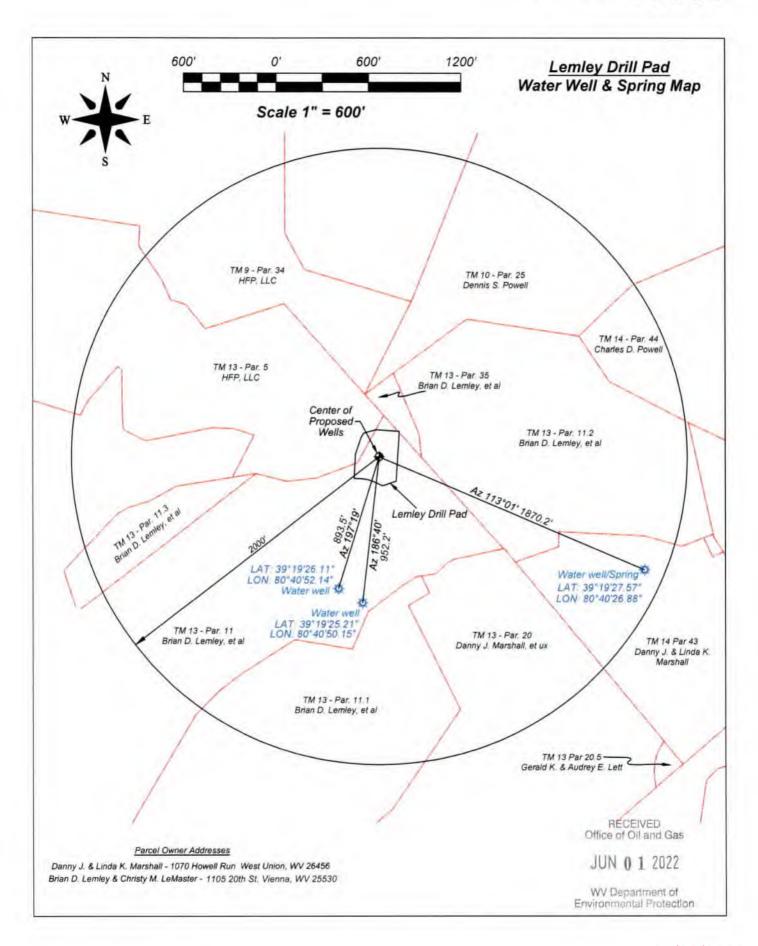
Address:

1070 Howell Run

West Union, WV 26456

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Office of Oil and Gas

JUN 0 1 2022



## 4701706938 Operator Well No. Phebe Unit 2H

## 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 Notic	Requirement: Notice: 94/12/2022	ce shall be provided at lea	ast TEN (10) days prior to filing a t Application Filed: 05/31/2022	permit application.
Delivery met	hod pursuant to W	est Virginia Code § 22-6	5A-16(b)	
☐ HAND	■ CER	TIFIED MAIL		
DELIVE		TURN RECEIPT REQUI	ESTED	
receipt request drilling a hor of this subsect subsection materials and if availab	sted or hand delivery izontal well: Provid tion as of the date th may be waived in writi le, facsimile number	, give the surface owner ed. That notice given pur e notice was provided to ng by the surface owner. and electronic mail addr	notice of its intent to enter upon the result to subsection (a), section to the surface owner: Provided, how The notice, if required, shall includes of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	reby provided to 1 ASE SEE ATTACHMENT	the SURFACE OWN		
Name: PLI Address:	ASE SEE ATTACHMENT			
Address:			Address:	
the surface ov	est Virginia Code §	22-6A-16(b), notice is hurpose of drilling a horizo	ontal well on the tract of land as fo	
Pursuant to V	est Virginia Code §	22-6A-16(b), notice is h urpose of drilling a horize	ontal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access:	well operator has an intent to enter upon ollows: 527563.2m 4353043,2m Hollow Run Rd
Pursuant to W the surface ov State: County: District:	Vest Virginia Code § wher's land for the property Virginia Doddridge Grant	22-6A-16(b), notice is h urpose of drilling a horize	ontal well on the tract of land as for UTM NAD 83 Easting: Northing:	527563.2m 4353043.2m Hollow Run Rd
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor	Vest Virginia Code § vner's land for the province of the provi	§ 22-6A-16(b), this not mail address of the oper be obtained from the Se	Public Road Access: Generally used farm name:  cice shall include the name, additator and the operator's authorized at the WV Department of	527563.2m 4353043.2m Hollow Run Rd
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to M facsimile nun related to hor located at 601	Vest Virginia Code § Vest Virginia Code § Vest Virginia  Doddridge  Grant  Smithburg 7.5  McElroy Creek  Shall Include: Vest Virginia Code ther and electronic tizontal drilling may 57th Street, SE, Cha	§ 22-6A-16(b), this not mail address of the oper be obtained from the Se	Public Road Access: Generally used farm name:  cice shall include the name, additator and the operator's authorized at the WV Department of	ollows: 527563.2m 4353043.2m Hollow Run Rd Hill, et al  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to M facsimile nun related to hor located at 601 Notice is he	Vest Virginia Code § Viner's land for the property of the prop	§ 22-6A-16(b), this not mail address of the open be obtained from the Se rleston, WV 25304 (304)	ontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name:  dice shall include the name, additionant and the operator's authorized eretary, at the WV Department of 1926-0450) or by visiting www.de	ollows: 527563.2m 4353043.2m Hollow Run Rd Hill, et al  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov. oil-and-gus/pages de fault.aspx.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to M facsimile nun related to hor located at 601 Notice is he	Vest Virginia Code § Vest Virginia Code § Vest Virginia  Doddridge  Grant  Smithburg 7.5  McElroy Creek  Shall Include: Vest Virginia Code ther and electronic tizontal drilling may 57th Street, SE, Cha	§ 22-6A-16(b), this not mail address of the open be obtained from the Se rleston, WV 25304 (304)	Public Road Access: Generally used farm name:  cice shall include the name, additator and the operator's authorized at the WV Department of	ollows: 527563.2m 4353043.2m Hollow Run Rd Hill, et al  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov. oil-and-gus/pages de fault.aspx.
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Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operato	Vest Virginia Code § Vest Virginia Code § Vest Virginia Doddridge Grant Smithburg 7.5 McElroy Creek  Shall Include: Vest Virginia Code aber and electronic izontal drilling may 57th Street, SE, Cha reby given by: The Antero Resources Api 1615 Wynkoop St.	§ 22-6A-16(b), this not mail address of the open be obtained from the Se rleston, WV 25304 (304)	Public Road Access:  Generally used farm name:  cice shall include the name, additator and the operator's authorized retreating at the WV Department of the public Road Representative:  Authorized Representative:	bllows: 527563.2m 4353043.2m Hollow Run Rd Hill, et al  ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep www.gov.oil-and-gus/pages/default.aspx.
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#### 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@wy.gov.



## WW-6A4 Notice of Intent to Drill Attachment: Multiple Wells - Lemley Pad

#### **Surface Owners:**

Tax Parcel ID: 13-5

Owner:

HFP LLC

Address:

PO Box 418

Kenova, WV 25530-0418

#### **Surface Owners:**

Tax Parcel ID: 13-11, 11.2, 35

Owner:

Brian D. Lemley & Christy M. LeMaster

Address:

1105 20th St.

Vienna, WV 26105-1237

Owner: Address: Jefferey D. Hill

35 Timberland Dr.

Parkersburg, WV 26104-3702

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Office of Oil and Gas

JUN 0 1 2022

WV Department of Environmental Protection

07/08/2022

WW-6A5 (1/12)

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

0.17	and the second second	~	4.00.0225		
Delivery me	ethod pursuant to West Virginia	Code §	22-6A-16(c)		
■ CERT	IFIED MAIL		HAND		
RETU	RN RECEIPT REQUESTED		DELIVERY		
return receip the planned required to be drilling of a damages to to (d) The notion of notice.	or requested or hand delivery, give operation. The notice required by operation (b), section (b), section (c), section (d) A proposition of the surface affected by oil and gas ones required by this section shall be	the surfa y this so on ten o sed surfa operation given t	ace owner whose lan- ubsection shall inclu f this article to a surf ace use and compen- is to the extent the di- to the surface owner	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	ication, an operator shall, by certified mail 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 nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	reby provided to the SURFACE ss listed in the records of the sherif				
	EASE SEE ATTACHMENT		Name:		
Address:			10.14.0		
Tuuress,		_	Addres	S1	
Notice is he	West Virginia Code § 22-6A-16(c),	notice i	s hereby given that t	he undersigned	well operator has developed a planned
Notice is he pursuant to operation of State;		, notice i urpose c	s hereby given that to of drilling a horizonta UTM NAD 8	he undersigned al well on the tra Easting: Northing:	act of land as follows: 527563.2m 4353043.2m
Notice is he Pursuant to operation of State: County: District:	West Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Doddridge Grant	, notice i urpose c	s hereby given that to of drilling a horizonta UTM NAD 8 Public Road	he undersigned al well on the tra 3 Easting: Northing: Access:	act of land as follows: 527563.2m 4353043.2m Hollow Run Rd
Notice is he Pursuant to operation of State: County:	West Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Doddridge Grant	, notice i	s hereby given that to of drilling a horizonta UTM NAD 8 Public Road	he undersigned al well on the tra Easting: Northing:	act of land as follows: 527563.2m 4353043.2m
Notice is he Pursuant to be peration of State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provide horizontal wasurface affect information	West Virginia Code § 22-6A-16(c), the surface owner's land for the post virginia  Doddridge  Grant  Smithburg 7 5'  McElroy Creek  Shall Include: West Virginia Code § 22-6A-16(c) led by W. Va. Code § 22-6A-10(t) ell; and (3) A proposed surface useted by oil and gas operations to the related to horizontal drilling may to located at 601 57th Street, SE,	, this no	s hereby given that to fidrilling a horizonta UTM NAD 8  Public Road Generally us tice shall include: (1 surface owner whose mpensation agreement the damages are coined from the Secre	he undersigned al well on the tra Easting: Northing: Access: ed farm name:  )A copy of this e land will be on the containing arompensable underly, at the WV	act of land as follows: 527563.2m 4353043.2m Hollow Run Rd
Notice is he Pursuant to voperation or State: County: District: Quadrangle: Watershed: Fhis Notice Pursuant to vo to be provide or p	West Virginia Code § 22-6A-16(c), the surface owner's land for the powest Virginia  Doddridge  Grant  Smithburg 7 5'  McElroy Creek  Shall Include: West Virginia Code § 22-6A-16(c) led by W. Va. Code § 22-6A-10(t) led; and (3) A proposed surface use the company of the company	, this no	s hereby given that to fidrilling a horizonta UTM NAD 8  Public Road Generally us tice shall include: (1 surface owner whose mpensation agreement the damages are coined from the Secre	he undersigned all well on the tra Easting: Northing: Access: ed farm name:  )A copy of this e land will be int containing arompensable unclary, at the WV (304-926-0450)	act of land as follows:  527563.2m  4353043.2m  Hollow Run Rd  Hill, et al  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is he Pursuant to be peration of State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provide horizontal we surface affect information headquarters was pages de Well Operate	West Virginia Code § 22-6A-16(c), the surface owner's land for the powest Virginia  Doddridge  Grant  Smithburg 7 5'  McElroy Creek  Shall Include: West Virginia Code § 22-6A-16(c) led by W. Va. Code § 22-6A-10(t) led; and (3) A proposed surface use the company of the company	, this no	s hereby given that to fidrilling a horizonta UTM NAD 8  Public Road Generally us tice shall include: (1 surface owner whose mpensation agreement the damages are or ined from the Secret eston. WV 25304	he undersigned al well on the tra Easting: Northing: Access: ed farm name:  )A copy of this e land will be on the containing arompensable underly, at the WV	act of land as follows:  527563.2m  4353043.2m  Hollow Run Rd  Hill, et al  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is he Pursuant to be peration of State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provide for izontal waterface affect information headquarters	West Virginia Code § 22-6A-16(c), the surface owner's land for the power virginia  Doddridge  Grant  Smithburg 7 5'  McElroy Creek  Shall Include: West Virginia Code § 22-6A-16(c) led by W. Va. Code § 22-6A-10(t) ell; and (3) A proposed surface useted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, faull. aspx.  Or: Antero Resources Corporation	, this no	s hereby given that to fidrilling a horizonta UTM NAD 8  Public Road Generally us tice shall include: (1 surface owner whose mpensation agreement the damages are or ined from the Secret eston. WV 25304	he undersigned al well on the tra Easting: Northing: Access: ed farm name:  A copy of this e land will be on the containing arompensable und tary, at the WV (304-926-0450)	act of land as follows:  527563 2m  4353043.2m  Hollow Run Rd  Hill, et al  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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 away gov.

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JUN 0 1 2022

07/08/2022

### WW-6A5 Notice of Planned Operations Attachment: Multiple Wells - Lemley Pad

#### **Surface Owners:**

Tax Parcel ID: 13-5

Owner:

HFP LLC

Address:

PO Box 418

Kenova, WV 25530-0418

#### **Surface Owners:**

Tax Parcel ID: 13-11, 11.2, 35

Owner:

Brian D. Lemley & Christy M. LeMaster

Address:

1105 20th St.

Vienna, WV 26105-1237

Owner: Address: Jefferey D. Hill 35 Timberland Dr.

Parkersburg, WV 26104-3702

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Office of Oil and Gas

JUN 0 1 2022



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. State Highway Engineer 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

May 26, 2022

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 Lemley Pad, Doddridge County Phebe Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2013-0425 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Doddridge County Route 30 SLS MP 1.68.

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 October 1, 2018. 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 Maintenance Engineer Central Office O&G Coordinator

Cc: Diane Blair

Antero Resources Corporation

CH, OM, D-4

File

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07/08/2022

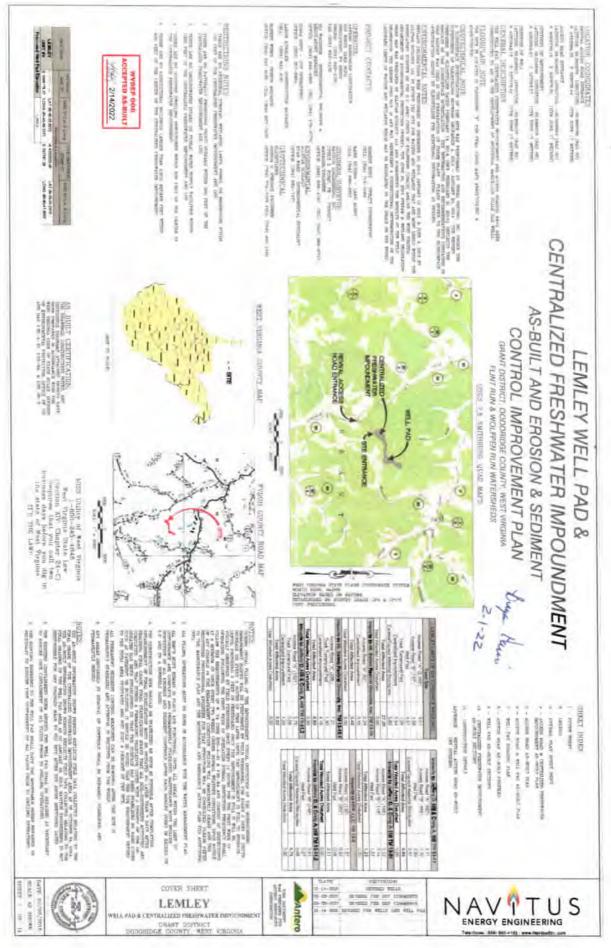
Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code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

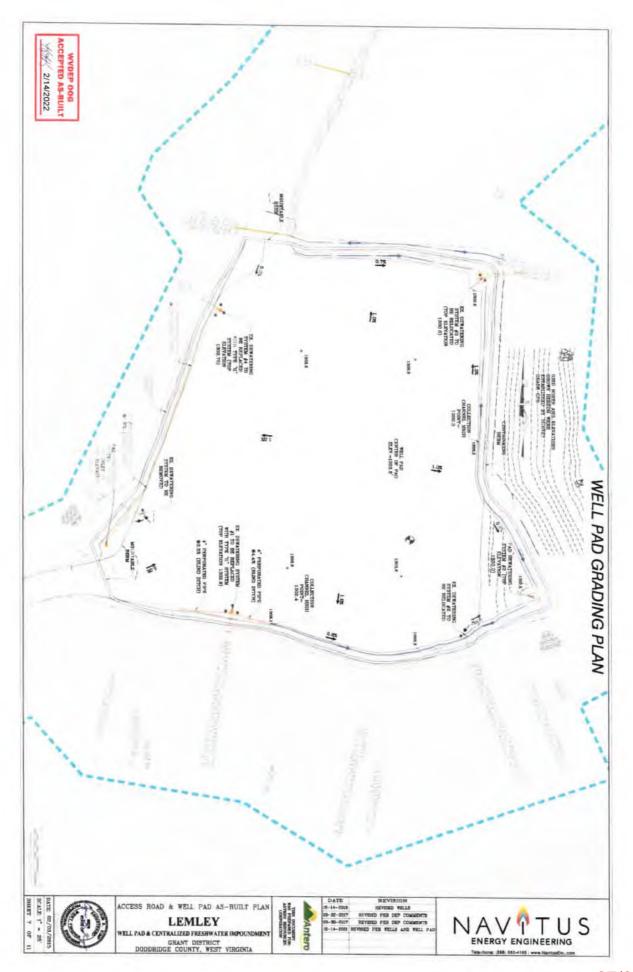
#### FRACTURING/STIMULATING INTERVAL

	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	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
	Ethoxylated alcohol blend	Mixture
	Ethoxylated Nonylphenol	68412-54-4
	Ethoxylated oleylamine	26635-93-8
	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guar gum	9000-30-0
	Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
	Liquid, 2,2-dibromo-3- nitrilopropionamide Microparticle	10222-01-2
	Petroleum Distillates (BTEX Below Detect)	Proprietary
	Polyacrylamide	64742-47-8
	Propaggy Alcohol	57-55-6 107-10-7
	Propylene Glycol	107-19-7
	Quartz	57-55-6 14800 60 7
	Sillica crystalline quartz	14808-60-7
	Sodium Chloride	7631-86-9
	Sodium Hydroxide	7647-14-5
	Sugar	1310-73-2 57-50-1
	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 a	
	Diethylene Glycol	111-46-6
	Methenamine	100-97-0
	Polyethylene polyamine	68603-67-8
	Coco amine	61791-14-8 RECE
	2-Propyn-1-olcompound with methyloxirane	38172-91-7 Office of Oi
		JUN <b>0</b>
		II IIV II

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Office of Oil and Gas

JUN 0 1 2022





OPERATOR: Antero Resources Corp.	WELL NO: Phebe Unit 2H
PAD NAME: Lemley Pad	-
REVIEWED BY: Diane Blair	_ SIGNATURE: Diane Blair

### WELL RESTRICTIONS CHECKLIST

#### **HORIZONTAL 6A WELL**

Well	Restrictions	

<b>V</b>	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	to any
	DEP Waiver and Permit Conditions	
<b>V</b>	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) Naturally Producing Trout Stream; OR	to any
	DEP Waiver and Permit Conditions	
<b>V</b>	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature Groundwater Intake or Public Water Supply; OR	) to any
	DEP Waiver and Permit Conditions	
<b>'</b>	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Drilled; OR	il Being
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
<b>V</b>	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pac	d; OR
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
<b>'</b>	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Fee of the Pad; OR	t to the Center
	Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED Office of Oil & Gas
	DEP Variance and Permit Conditions	JUN <b>2 8</b> 2022