

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

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for PHEBE 1H

47-017-06937-00-00

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 1H

Farm Name: JEFFREY D & CRAIG A HILL

U.S. WELL NUMBER: 47-017-06937-00-00

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

API Number: 47-017-06937

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.
- 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: 47-017-06937

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.

API NO. 47-09 -		
OPERATOR WELL	NO.	Phebe Unit 1H
Well Pad Name:	Lemiery	Pad

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

1) Wall Oners	tor: Antero Res	ources Corpora	494507062	017-Doddrig	Grant	Smithburg 7.5'
i) wen Opera	W.		Operator ID	County	District	Quadrangle
2) Operator's V	Well Number: Ph	ebe Unit 1H	Well P	ad Name: Lemie	ey Pad	
3) Farm Name	/Surface Owner:	Phillip N. Hill, et	al Public Re	oad Access: Holl	ow Run F	₹d
4) Elevation, c	urrent ground:	1304' AS BUILT E	levation, propose	d post-constructi	on:	
5) Well Type	(a) Gas X Other	Oil	Un	derground Storag	ge	
		llow X	Deep			
	(0)11 0 110	rizontal X				
6) Existing Pa	d: Yes or No Yes	-				
7) Proposed T	arget Formation(s hale: 7700' TVD, A), Depth(s), Antic	cipated Thickness ess- 55 feet, Asso	and Expected Proceed Proceed Proceed Pressure- 2	ressure(s): 2850#	
8) Proposed To	otal Vertical Dept	h: 7700' TVD				
	at Total Vertical D	4 4 11 14	S			
10) Proposed	Total Measured D	epth: 7700' ME				
11) Proposed 1	Horizontal Leg Le	ength; 0' *Ope	en to modificatio	n at a later date		
12) Approxim	ate Fresh Water S	trata Depths:	225', 279', 790)'		
Daniel Service	Determine Fresh		47-017-04998, 47-017-0	04719. Depths have be	en adjusted a	ccording to surface elevations
the state of the s	ate Saltwater Dep	The Control of the Co	3', 1700', 1710'			
15) Approxim	ate Coal Seam De	pths: 980'				
	ate Depth to Possi		ine, karst, other):	None Anticipa	ted	
17) Does Prop directly overly	oosed well location ring or adjacent to	n contain coal sea an active mine?	Yes	No	X	
(a) If Yes, pr	rovide Mine Info:	Name:				
4.1		Depth:				
		Seam:				
		Owner:				
			Office of Oil	D & Gas		

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WW-6B (04/15)

API NO. 47-017	
OPERATOR WELL	Phebe Unit 1H
Well Pad Name:	

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	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	1		†				
Production	5-1/2"	New	P-110HP	23#	7700'	7700'	1023 Cu. Ft
Tubing	2-3/8*	New	N-80	4.7#		7100'	
Liners			<u> </u>				

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	~1.18
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			<u>. </u>				
Production	5-1/2*	8-3/4" & 8-1/2"	0.415"	12,630	2500	Leed-MP02 & Tax - 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:	1	

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5M 6.<mark>97/08/3022</mark> WW-6B (10/14) OPERATOR WELL NO. Phebe Unit 1H
Well Pad Name: Lamley 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.

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: Tall 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 Z5 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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LEMLEY PAD ANTERO RESOURCES CORPORATION



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

DATE: 05/19/22

DRAWN BY: D.L.P.

SCALE: 1-INCH = 1000-FEET
1000' 2000' 3000'

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07/08/2022

WW-9 (4/16)

API Number 47 -	017	-
		Phobe 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) McElroy Creek Quadrangle Smith	burg 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well we	ork? Yes 🗸 No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No pit will be used at this also (Delling and Fowbook Finds	will be stored in tanks. Custings will be tanked and he sized off sile.)
Will a synthetic liner be used in the pit? Yes No V If so, wh	nat ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number *UIC Permit # w Reuse (at API Number Future permitted well locations when applicable.	ADIA will be provided on Form WR-34
Reuse (at API Number Future permitted well locations when applicable. Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	(Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/
	WV0109410 (Wetzel Co Landfill Permit #SWF-1021)
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings re-	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil	
If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
	stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sa	wdust) N/A
Leadfill or offsite name/permit number? Maadowill Landill (Parmit #SWF-1032-95), No	rthwestern Landfill (Parmit # SWF-1025/WV0109410)
Webzel Co Cabania Fernia #3 W1-102	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill or West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	tion and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENER on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of En provisions of the permit are enforceable by law. Violations of any term or condition law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fam application form and all attachments thereto and that, based on my inquiry of the obtaining the information, I believe that the information is true, accurate, and compensations for submitting false information, including the possibility of fine or imprisonment.	of the general permit and/or other applicable inlier with the information submitted on this ose individuals immediately presentable for plete. I am aware that Office are nignificant
Company Official Signature Gretchen Kohler Company Official (Typed Name) Gretchen Kohler	WV Department of
Company Official Title Director Environmental & Regulatory Compliance	Environmental Protection
Company Official True	
	, 2022
Subscribed and sworn before me this 3\ day of \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DIANE BLAIR
DianeBlain	Notary Public NOTARY PUBLIC STATE OF COLORADO
My commission expires 27 Apr 2024	NOTARY ID 19994011871 MY CUMMISSION EXPIRES 27-Apr-2024
	G-14-07/08/2

· · · · · · · · · · · · · · · · · · ·			Well No. Phebe Unit 1H		
Antero Resources Co	rporation				
roposed Revegetation Treatmen	nt: Acres Disturbed 27.26 a	cres Prevegetation p	Н		
Lime 2-4	Tons/acre or to correct to pH	6.5			
Fertilizer type Has or st	raw or Wood Fiber (will be used	where needed)			
Fertilizer amount 500	Ib	s/acre			
Mulch 2-3	Tons/a				
Access Road "A" (9.01) +	Access Road "B" (1.39 acres) + Well Pad (+ Excess/Topsoil S	4.31 acres) + Truck Turnaround Pad (1.36) + Cent tockpiles (5.65 acres) = 27.26 Acres	ralized Impoundment Pad (5.54 acres)		
	See	Mixtures			
Temp	orary	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 s	seed type (Lemley Pad Dasign)	See attached Table IV-4A for addition	al seed type (Lemley Pad Design)		
or type of grass seed reque			*or type of grass seed requested by surface owner		
Attach: Maps(s) of road, location, pit and provided). If water from the pit w	d proposed area for land applic will be land applied, include di	*or type of grass seed requation (unless engineered plans inclumensions (L x W x D) of the pit, an	ading this info have been		
Attach: Maps(s) of road, location, pit and provided). If water from the pit water application a	d proposed area for land applic will be land applied, include dis area.	ation (unless engineered plans inclu	ading this info have been		
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Attach: Maps(s) of road, location, pit and rovided). If water from the pit water age, of the land application a hotocopied section of involved lan Approved by	d proposed area for land applicated will be land applied, include dispress. 7.5' topographic sheet.	ation (unless engineered plans inclu	nding this info have been and dimensions (L x W), and area		
Attach:	d proposed area for land applicated will be land applied, include dispress. 7.5' topographic sheet.	ation (unless engineered plans inclu	RECEIVED Office of Oil & G		

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 Congor 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

3. 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 2 3 2022

GPS Coordinates:

WV Department of Environmental Protection

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:

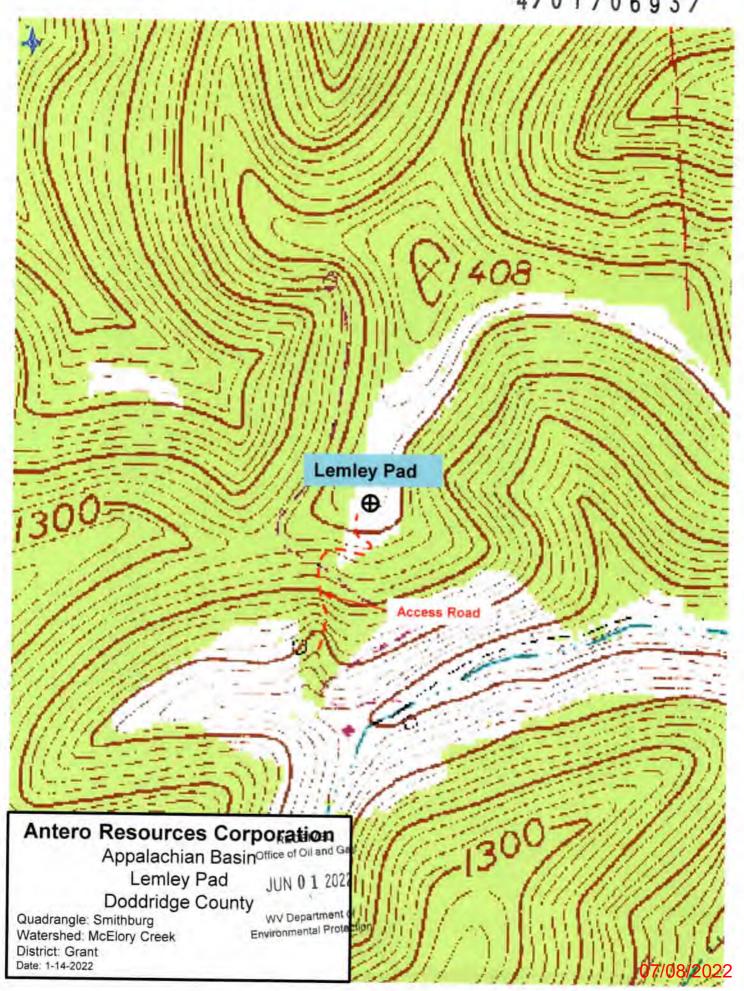
From The intersection of US 50 and Interstate 79 near Bridgeport, WV travel west on US 50 approximately 19 miles. Turn right (north) onto Co Rt 9/Tarkin Run and take the first left (west) toward Co Rt 3/Big Flint Rd. Turn right (north) onto Co Rt 3/Big Flint Rd and travel approximately 7.5 miles. Turn 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.

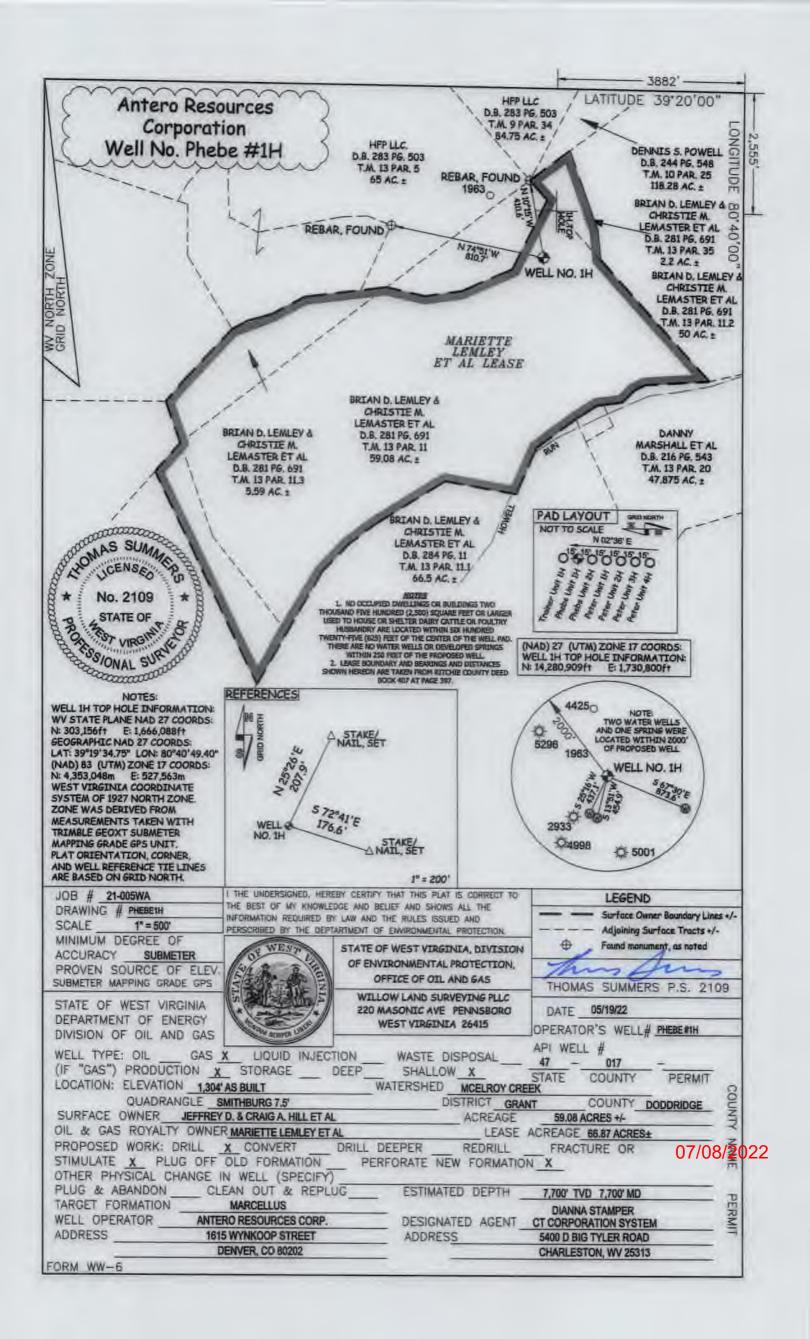
Alternate Route:

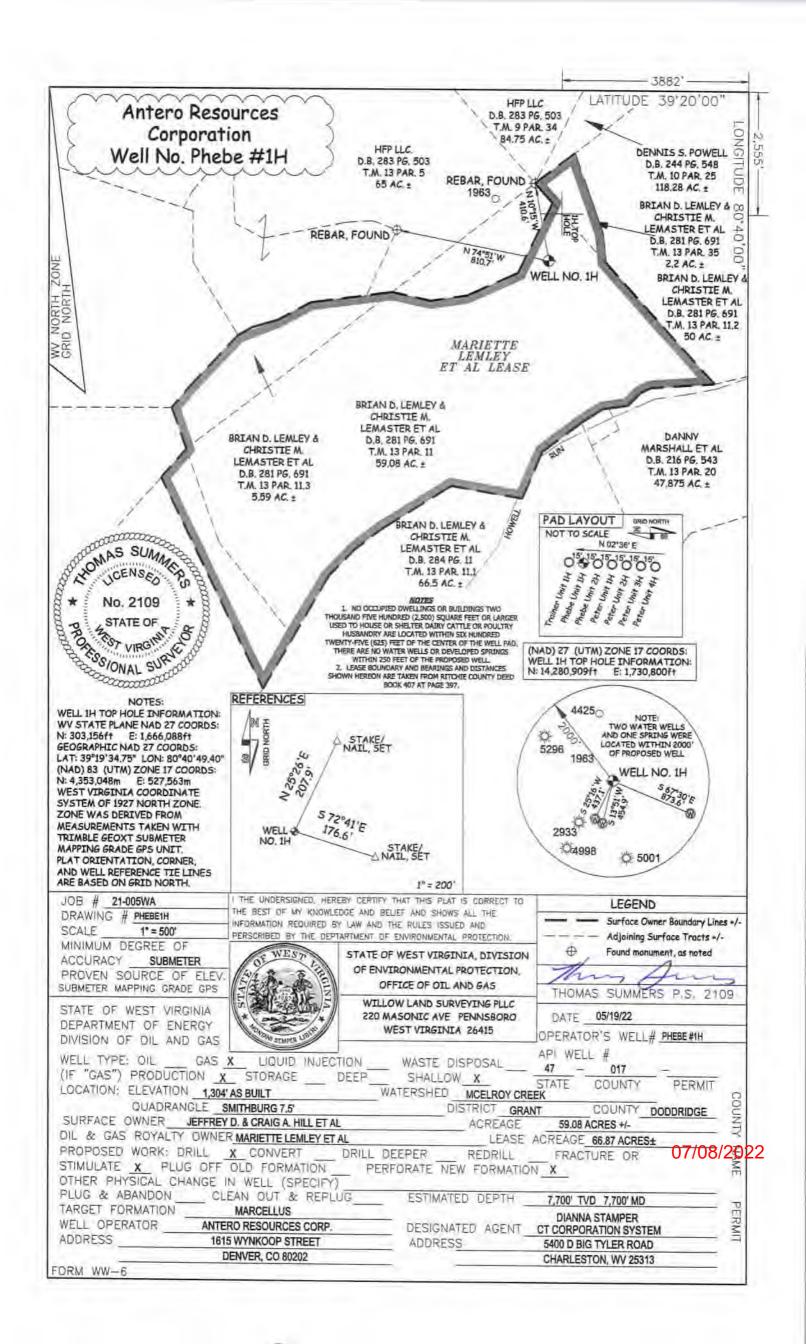
From the intersection of HWY 19 and US-50 near West Union, head east on US-50 for 4.7 miles. Turn left onto Morgans Run/20 and continue for 1.5 miles. Continue straight onto Israels Fork for 1.7 miles. Follow the road up some switch backs, passed the water containment and the pad will be straight ahead.

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

SSP Page 1 5/07/08/2022 (a-k-22







Operator's Well Number

Phebe Unit 1H

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Marlette 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 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 0046/0523

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^{*}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	l
(5/13)	

Operator's Well No.	Phebe Unit 1H
•	

Name Change

0046/0523

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

Antero Resources Appalachian Corpation Antero Resources Corporation

*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

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 CECEIVED Office of Oil and Gas

Well Operator:	Antero Resources Corporation	JUN 0 1 2022
By:	Tim Rady	, 4022
Its:	Senior VP of Operations	WV Department of Environmental Protection

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 2,022

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

	A STATE OF THE STA			API No. 4		
	Date of Notice Certification: 03/30/2022		Operator's Well No. Phebe Unit 1H			
				Well Pad	Vame: Lemley	Pad
Notice has l	been given:					
	ne provisions in West Virginia Cod	e § 22-6A, t	he Operator has pro	vided the re-	quired parties	with the Notice Forms liste
below for the	tract of land as follows:	2000				
State:	West Virginia		UTM NAD 83	Easting:	527563.4m	
County:	Doddridge		CIM NAD 63	Northing:	4353047.8m	
District:	Grant		Public Road Ace		Hollow Run Rd	
Quadrangle:	Smithburg 7.5'		Generally used	farm name:	HIII, et al	
Watershed:	McElroy Creek					
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 ed the owners of the surface descrequired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applic	I shall conta ribed in su section sixt survey purs of this arti I tender pro	tin the following int bdivisions (1), (2) teen of this article; (suant to subsection icle were waived in	formation: (1 and (4), sub ii) that the re (a), section writing by	 A certificate section (b), security and ten of this art the surface of 	ion from the operator that ection ten of this article, to s deemed satisfied as a restricte six-a; or (iii) the noti- wner; and Pursuant to Wo
that the Ope	West Virginia Code § 22-6A, the erator has properly served the requi			this Notice (ertification	4444
WELL EASE (THE	ECTE ALL THAT ADDLY					OOG OFFICE USE
*PLEASE CH	ECK ALL THAT APPLY					OOG OFFICE USE ONLY
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☐ 1. NO ☐ 2. NO ☐ 3. NO ☐ 4. NO	TICE OF SEISMIC ACTIVITY TICE OF ENTRY FOR PLAT SUITICE OF INTENT TO DRILL C	SEISMI RVEY or NOTIC WAS C	IC ACTIVITY WA NO PLAT SURV OTICE NOT REQUIRE OF ENTRY FOR ONDUCTED OF	S CONDUC /EY WAS C IRED BECA PLAT SUR BY SURFA	TED ONDUCTED USE VEY	ONLY RECEIVED RECEIVED 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-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, 1 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

By: Diana Hoff Diana O. Hoff
Its: Senior Vice President - Operations

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mstanton@anteroresources.com

DIANGEARNASEAL
NOTARY PUBLIC
STATE OF COLORADO

NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 31 day of Mou

May 2022

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.

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Office of Oil and Gas

JUN 0 1 2,022

WV Department of Environmental Protection

07/08/2022

API NO. 47- 017	
OPERATOR WELL NO. Phebe Unit 1H	
Well Pad Name: Lemley Pad	-

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

Notice Time Requirement: notice shall be provided a	no later than the filing date of permit application.
Date of Notice: 04/12/2022 Date Permit Application I Notice of:	
	E OF APPROVAL FOR THE TION OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code §	22-6A-10(b)
PERSONAL REGISTERED SERVICE MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires sediment control plan required by section seven of this art the surface of the tract on which the well is or is proposed oil and gas leasehold being developed by the proposed we described in the erosion and sediment control plan submit operator or lessee, in the event the tract of land on which the more coal seams; (4) The owners of record of the surface well work, if the surface tract is to be used for the placement impoundment or pit as described in section nine of this art have a water well, spring or water supply source located we provide water for consumption by humans or domestic ani proposed well work activity is to take place. (c)(1) If more subsection (b) of this section hold interests in the lands, the records of the sheriff required to be maintained pursuant to provision of this article to the contrary, notice to a lien hole.	filing date of the application, the applicant for a permit for any well work or for a ment or pit as required by this article shall deliver, by personal service or by a receipt or signature confirmation, copies of the application, the erosion and ticle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the ell work, if the surface tract is to be used for roads or other land disturbance as steed pursuant to subsection (c), section seven of this article; (3) The coal owner, the well proposed to be drilled is located [sic] is known to be underlain by one or tract or tracts overlying the oil and gas leasehold being developed by the proposed ent, construction, enlargement, alteration, repair, removal or abandonment of any ticle; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to imals; and (6) The operator of any natural gas storage field within which the enthan three tenants in common or other co-owners of interests described in the osection eight, article one, chapter eleven-a of this code. (2) Notwithstanding any later is not notice to a landowner, unless the lien holder is the landowner. W. Va. hall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any ter testing as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plant ☐ SURFACE OWNER(s) Name:PLEASE SEE ATTACHMENT Address:	n Notice ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE Name: No DECLARATIONS ON RECORD WITH COUNTY Address:
Name: Address:	COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:
SURFACE OWNER(s) (Road and/or Other Disturbant Name: Address: Name:	D SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: PLEASE SEE ATTACHMENT Address: Office of Oil and Gas
SURFACE OWNER(s) (Impoundments or Pits) Name:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD 2022 Name: Address: WV Department of Environmental Protection
Address:	*Please attach additional forms if necessary

API NO. 47- 017

OPERATOR WELL NO. Phebe Unit 1H

Well Pad Name: Lernley Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuam 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 upstreams developed surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department of the depa 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 depose any 2022 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 of other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted Ereason Foreston 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

4701706937

OPERATOR WELL NO. Phebe Unit 1H

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 correctively to the location or construction of the applicant's proposed well work to the Secretary at:

Office of Oil and Gas

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

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.

4701706937

API NO. 47- 017

OPERATOR WELL NO. Phebe Unit 1H

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

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

JUN 0 1 2022

OPERATOR WELL NO, Phebe Unit 1H Well Pad Name: Lemley Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana Email: mstanton@anterpresources.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 depprivacyofficer@wv.gov.

DIANE BLAIR **NOTARY PUBLIC** STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 31 day of May 2022

Notary Pub

My Commission Expires 27 Apr 2024

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JUN 0 1 2022

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

Surface Owners:

Tax Parcel ID: 13-5

Owner:

HFP LLC PO Box 418

Address:

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

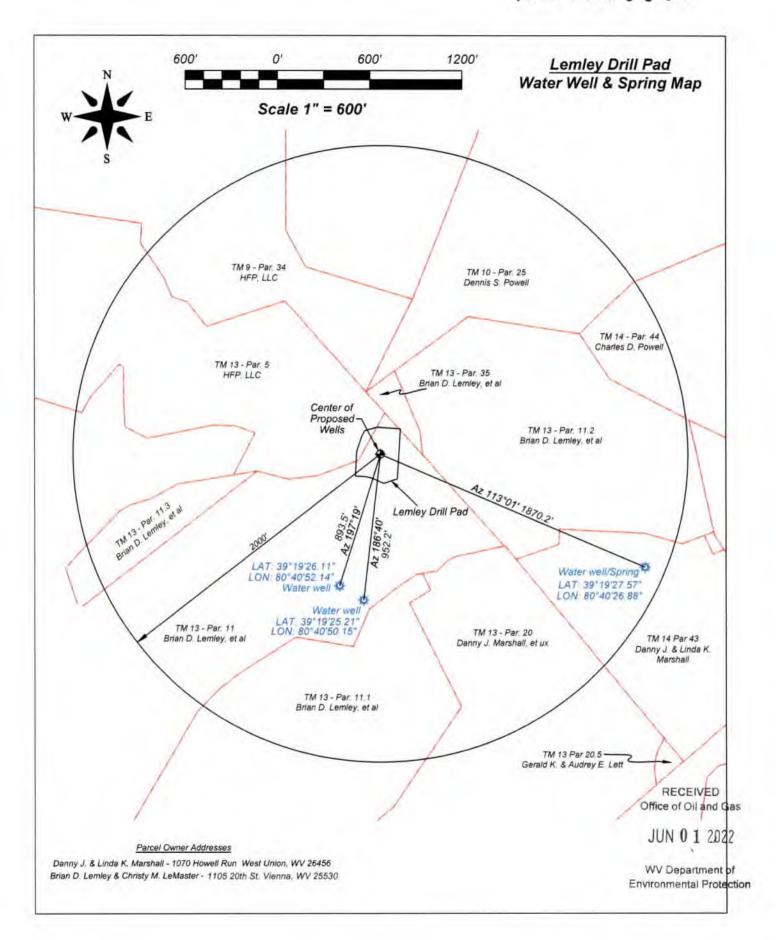
Address:

1070 Howell Run

West Union, WV 26456

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Office of Oil and Gas

JUN 0 1 2022



WW-6A4 (1/12) 47.0 1.7 No. Photo Grit 3, 7

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.

Delivery method HAND DELIVER Pursuant to W. receipt requested drilling a horized of this subsection may and if available. Notice is here	CERTIFIED MAIL Y RETURN RECEIPT REQUIVE. Va. Code § 22-6A-16(b), at least ten day, d or hand delivery, give the surface owner, and well: Provided, That notice given per as of the date the notice was provided.	2-6A-16(b) UESTED s prior to filing a permit application or notice of its intent to enter upon to the surface owner: Provided, hower. The notice, if required, shall incidess of the operator and the operator	the surface owner's land for the purpose of this article satisfies the requirements wever. That the notice requirements of this
DELIVER Pursuant to W. receipt requeste drilling a horize of this subsection subsection may and if available, Notice is here Name: PLEAS	CERTIFIED MAIL Y RETURN RECEIPT REQUIVE. Va. Code § 22-6A-16(b), at least ten day, dor hand delivery, give the surface owner on as of the date the notice was provided be waived in writing by the surface owner facsimile number and electronic mail ad by provided to the SURFACE OWN	Seption to filing a permit application or notice of its intent to enter upon to bursuant to subsection (a), section to the surface owner: Provided, hower. The notice, if required, shall incodress of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this
DELIVER Pursuant to W. receipt requeste drilling a horize of this subsection subsection may and if available, Notice is here Name: PLEAS	CERTIFIED MAIL Y RETURN RECEIPT REQUIVE. Va. Code § 22-6A-16(b), at least ten day, dor hand delivery, give the surface owner on as of the date the notice was provided be waived in writing by the surface owner facsimile number and electronic mail ad by provided to the SURFACE OWN	Seption to filing a permit application or notice of its intent to enter upon to bursuant to subsection (a), section to the surface owner: Provided, hower. The notice, if required, shall incodress of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this
DELIVER Pursuant to W. receipt requeste drilling a horize of this subsection subsection may and if available, Notice is here Name: PLEAS	Y RETURN RECEIPT REQUIVE. Code § 22-6A-16(b), at least ten day of or hand delivery, give the surface owner on as of the date the notice was provided be waived in writing by the surface owner facsimile number and electronic mail ad by provided to the SURFACE OWN	s prior to filing a permit application or notice of its intent to enter upon to pursuant to subsection (a), section to the surface owner: <i>Provided, hoter.</i> The notice, if required, shall incidess of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this
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Name: PLEAS	by provided to the SURFACE OW	VE D(e).	
	E SEE ATTACHMENT		
	E SEE IN I NOTWIET!	Name: Address:	
7907 61-0		riddiess.	
County: District: G Quadrangle: S	/est Virginia oddridge rant mithburg 7.5°	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	527563.4m 4353047.8m Hollow Run Rd Hill, et al
Watershed: M	cElroy Creek	2	
related to horizo	st Virginia Code § 22-6A-16(b), this ner and electronic mail address of the operated drilling may be obtained from the	erator and the operator's authorize	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. www.gov.oil-and-gas-pages/default-aspy.
Notice is herel	oy given by:		
Well Operator:	Antero Resources Appalachian Corporation	Authorized Representative:	Mallory Stanton RECEIVED
Address:	1615 Wynkoop St.	Address:	Mailory Stanton RECEIVED 1615 Wynkoop St. Office of Oll and Gas
	Denver, CO 80202		Denver, CO 80202
46 40 20	303-357-7310	Telephone:	303-357-7310 JUN 0 1 2022
	mstanton@anteroresources.com	Email:	mstanton@anteroresources.com
l'elephone: Email: Facsimile:	303-357-7315	Facsimile:	303-357-7315 WV Department of

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 depprivacy officer away 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:

Jefferey D. Hill

Address:

35 Timberland Dr.

Parkersburg, WV 26104-3702

RECEIVED
Office of Oil and Gas

JUN 0 1 2022

WW-6A5 (1/12)

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

Date of Notic	ce: 05/31/2022 Date Per	rmit Application Filed: 05/31/2022	
Delivery met	hod pursuant to West Virginia C	ode § 22-6A-16(c)	
CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a lamages to the d) The notice of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section norizontal well; and (3) A propose the surface affected by oil and gas of	the surface owner whose land will be use this subsection shall include: (1) A content of this article to a surface owner were surface use and compensation agrees berations to the extent the damages are of given to the surface owner at the address WNER(s) at the time of notice): Name:	plication, an operator shall, by certified mail d for the drilling of a horizontal well notice of py of this code section; (2) The information hose land will be used in conjunction with the nent containing an offer of compensation for ompensable under article six-b of this chapter, is listed in the records of the sheriff at the time
Notice is her	est Virginia Code § 22-6A-16(c),	Address:	ed well operator has developed a planned
Notice is her Pursuant to W	est Virginia Code § 22-6A-16(c), the surface owner's land for the pu	notice is hereby given that the undersign rpose of drilling a horizontal well on the	tract of land as follows:
otice is her ursuant to W peration on tate:	est Virginia Code § 22-6A-16(c), a the surface owner's land for the pu west Virginia	notice is hereby given that the undersign rpose of drilling a horizontal well on the LITM NAD 83 Easting	tract of land as follows: 527563.4m
fotice is her fursuant to W peration on tate: county;	est Virginia Code § 22-6A-16(c), the surface owner's land for the pu	notice is hereby given that the undersign rpose of drilling a horizontal well on the UTM NAD 83 Easting Northin	tract of land as follows: 527563.4m g: 4353047.8m
Notice is her Pursuant to W peration on state: County; District:	Vest Virginia Code § 22-6A-16(c), a the surface owner's land for the pu West Virginia Doddridge	notice is hereby given that the undersign rpose of drilling a horizontal well on the LITM NAD 83 Easting	tract of land as follows: 527563.4m g: 4353047.8m Hollow Run Rd
Notice is her Pursuant to Woperation on State: County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(c), a the surface owner's land for the pu West Virginia Doddridge Grant	notice is hereby given that the undersign rpose of drilling a horizontal well on the UTM NAD 83 Easting Northin Public Road Access:	tract of land as follows: 527563.4m g: 4353047.8m Hollow Run Rd
Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we surface affect nformation r neadquarters.	Vest Virginia Code § 22-6A-16(c), a the surface owner's land for the purious posterior of the pu	notice is hereby given that the undersign rpose of drilling a horizontal well on the Easting Northin Public Road Access: Generally used farm name this notice shall include: (1)A copy of the total a surface owner whose land will the and compensation agreement containing extent the damages are compensable to obtained from the Secretary, at the Northin Research and the secretary.	tract of land as follows: 527563.4m g: 4353047.8m Hollow Run Rd
Notice is her Pursuant to W peration on State: County: District: Quadrangle: Vatershed: This Notice S Pursuant to W to be provide forizontal we forizontal we forizontal we forizontal or freadquarters, freadquarters, freadquarters, freadquarters,	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the purious Virginia Doddridge Grant Smithburg 7.5' McElroy Creek Shall Include: Vest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b) all; and (3) A proposed surface use used by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, and Lustix.	notice is hereby given that the undersign rpose of drilling a horizontal well on the Easting Northin Public Road Access: Generally used farm name this notice shall include: (1)A copy of the to a surface owner whose land will be and compensation agreement containing extent the damages are compensable be obtained from the Secretary, at the Vicharleston, WV 25304 (304-926-04)	tract of land as follows: 527583.4m g: 4353047.8m Hollow Run Rd e: Hill, et al his code section; (2) The information required be used in conjunction with the drilling of a gan offer of compensation for damages to the under article six-b of this chapter. Additional VV Department of Environmental Protection or by visiting www.dep.ov.gREGEIVED Office of Oil and Ga
Notice is her Pursuant to W peration on State: County: District: Quadrangle: Vatershed: This Notice S Pursuant to W to be provide forizontal we for affect information r feadquarters, cas pures del	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the purious Virginia Doddridge Grant Smithburg 7.5' McElroy Creek Shall Include: Vest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b) and (3) A proposed surface use the deated to horizontal drilling may be located at 601 57th Street, SE, and Luspy. Antero Resources Corporation	this notice shall include: (1)A copy of the to a surface owner whose land will tand compensation agreement containing extent the damages are compensable to charleston, WV 25304 (304-926-04). Address: 1615 Wynkoop	tract of land as follows: 527583.4m g: 4353047.8m Hollow Run Rd hill, et al hill, et al hill code section; (2) The information required be used in conjunction with the drilling of a gan offer of compensation for damages to the under article six-b of this chapter. Additional NV Department of Environmental Protection of by visiting www.dep.ov.gREGEIVED Office of Oil and Gal
Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide norizontal we surface affect information r	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the purious Virginia Doddridge Grant Smithburg 7.5' McElroy Creek Shall Include: Vest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b) all; and (3) A proposed surface use used by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, and Lustix.	notice is hereby given that the undersign rpose of drilling a horizontal well on the Easting Northin Public Road Access: Generally used farm name this notice shall include: (1)A copy of the to a surface owner whose land will be and compensation agreement containing extent the damages are compensable be obtained from the Secretary, at the Vicharleston, WV 25304 (304-926-04)	tract of land as follows: 527583.4m g: 4353047.8m Hollow Run Rd hill, et al hill, et al hill code section; (2) The information required be used in conjunction with the drilling of a gan offer of compensation for damages to the under article six-b of this chapter. Additional NV Department of Environmental Protection of by visiting www.dep.ov.gREGEIVED Office of Oil and Gal

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@www.gov.

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

Surface Owners:

Tax Parcel ID: 13-5

Owner: Address: HFP LLC 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

RECEIVED
Office of Oil and Gas

JUN 0 1 2022



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

May 26, 2022

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 Lemley Pad, Doddridge County Phebe Unit 1H Well Site

Dear Mr. Martin,

D. Alan Reed, P.E.

State Highway Engineer

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

Day & Clayton

RECEIVED

Office of Oil and Gas

WV Department of Environmental Protection

Cc: Diane Blair

Antero Resources Corporation

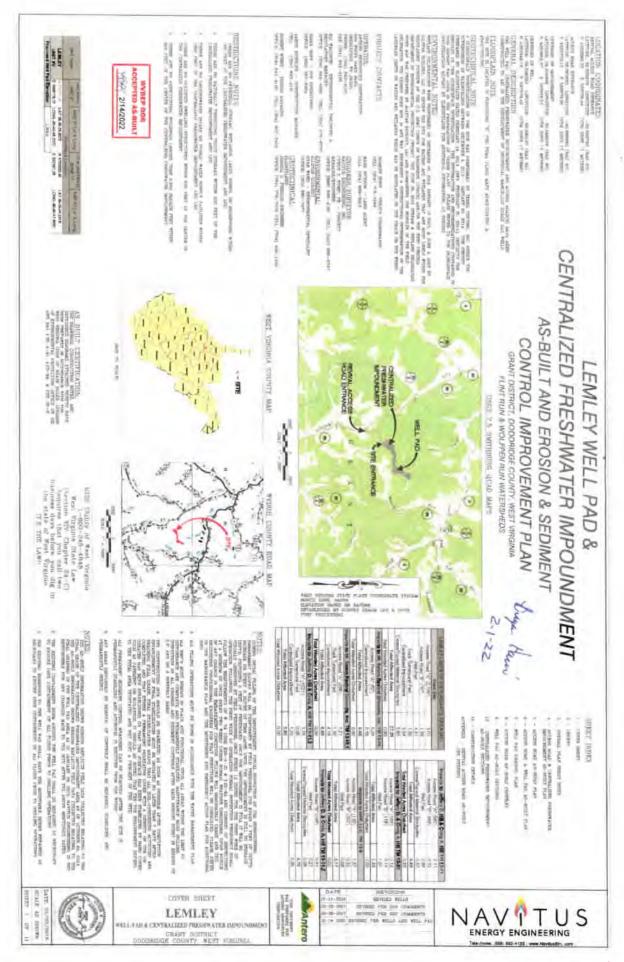
CH, OM, D-4

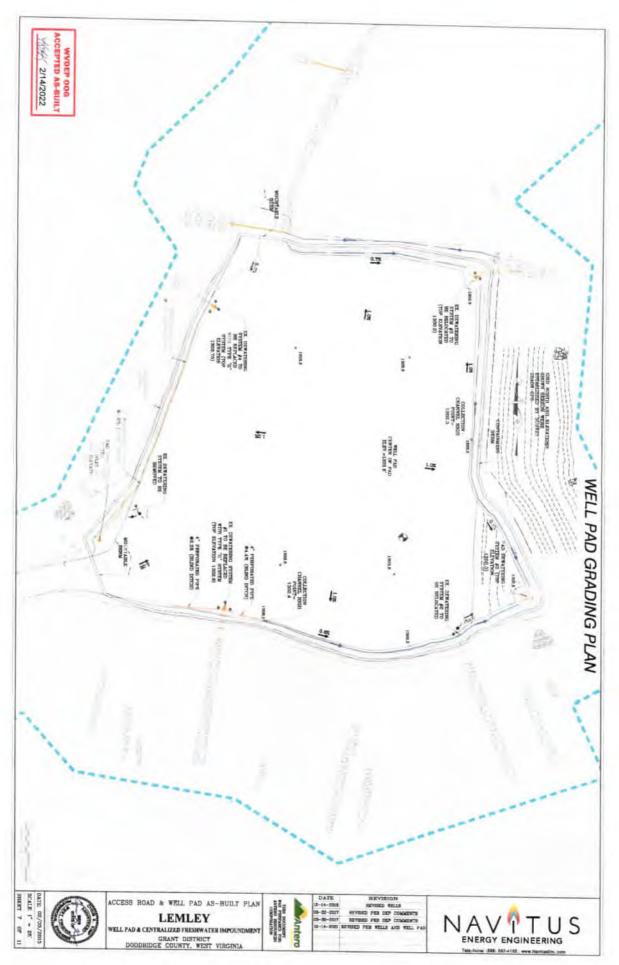
File

Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or atimulating 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.		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 Hydrofreated Heavy Naphtha	64742-48-9	-
7.	Cellulase enzyme	(Proprietary)	İ
8.	Demulsifier Base	(Proprietary)	
9.	The state of the s	Mixture	
	Ethoxylated Nonylphenol	68412-54-4	
	Ethoxylated oleylamine	26635-93-8	
	Ethylene Glycol	107-21-1	!
	Glycol Ethers	111-76-2	
	. Guar gum . Hydrogen Chloride	9000-30-0	
	·	7647-01-0	
	. Hydrotreated light distillates, non-aromatic, BTEX free Isopropyl alcohol	64742-47-8	
	. , ,	67-63-0	
	Liquid, 2,2-dibromo-3- пітіюргоріопатіde	10222-01-2	
	Microparticle	Proprietary	
	Petroleum Distillates (BTEX Below Detect)	64742-47-8	
	Polyacrylamide	57-55-6	
	Propargyi Alcohol	107-19-7	
	Propylene Glycol	57-55-6	
	Quartz	14808-60-7	
	Sillica crystalline quartz	7631-86-9	
	Sodium Chloride	7647-14-5	
	Sodium Hydroxide	1310-73-2	
	Sugar	57-50-1	
	Surfactant	68439-51-0	
	Suspending agent (solid)	14808-60-7	
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7	ļ
	Solvent Naptha, petroleum, heavy aliph	64742-96-7	
	Soybean Oil, Me ester	67784-80- 9	Office
	Copolymer of Maleic and Acrylic Acid	52255-49-9	Office of Oil and Gas
	DETA Phosphonate	15827-60-8	JUN 0 1
	Hexamythylene Triamine Penta	34690-00-1	- J.
	Phosphino Carboxylic acid polymer	71050-62-9	WV Department of
	Hexamethylene diamine penta	23605-74-5	nvironmental pletection
	2-Propenoic acid, polymer with 2 propenamide		- Mail Protection
	Hexamethylene diamine penta (methylene phosphonic ac	d) 23605-74-5	
	Diethylene Glycol	111-46-6	
	Methenamine	100- 9 7-0	
	Polyethylene polyamine	68603-67-8	
	Coco amine	61791-14-8	
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7	1





OPERATOR:_	Antero Resources Corp.	WELL NO: Phebe Unit 1H
PAD NAME:_	Lemley Pad	
REVIEWED B	y: Diane Blair	SIGNATURE: Diane Blain

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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V	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	
V	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	
'	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature Groundwater Intake or Public Water Supply; OR	e) to any
	DEP Waiver and Permit Conditions	
~	At Least 250 Feet from an Existing Water Well or Developed Spring to We Drilled; OR	ll Being
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
'	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pa	ıd; OR
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
V	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Fee of the Pad; OR	et to the Center
	Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED Office of Oil & Gas
	DEP Variance and Permit Conditions	JUN 2 8 2022