

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

Permit approval for PETER UNIT 1H Re:

47-017-06933-00-00

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. Marti

Operator's Well Number:

PETER UNIT 1H

Farm Name: PHILLIP N HILL ET AL

U.S. WELL NUMBER: 47-017-06933-00-00 Horizontal 6A New Drill

Date Issued: 7/7/2022

API Number: 47-017-06933

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: 47-017-06933

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. 47-017 OPERATOR WELL NO. Peter Unit 1H
Well Pad Name; Limit by Pad

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

1) Well Operator: Antero	Resources Corporal	194507062	017-Doddrid	Grant	Smithburg 7.5'
2, 20 at a man =		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Peter Unit 1H	Well Pa	ad Name: Lemle	y Pad	
3) Farm Name/Surface Own	er. Phillip N. Hill, et al	Public Ro	ad Access: Holle	w Run F	łd
4) Elevation, current ground	; 1304' AS BUILT Elev	ation, proposed	l post-construction	n:	
5) Well Type (a) Gas Other	C Oil	Une	derground Storag	e	
(b)If Gas	Shallow X Horizontal X	Deep			
6) Existing Pad: Yes or No	Yes				
7) Proposed Target Formation Marcellus Shale: 7700' TV	AND THE RESERVE OF THE PARTY OF				
8) Proposed Total Vertical I	Depth: 7700' TVD				
9) Formation at Total Vertic					
10) Proposed Total Measure	d Depth: 14000' MD				
11) Proposed Horizontal Leg	Length: 5387.5				
12) Approximate Fresh Water	er Strata Depths: 2	25', 279, 790'			
13) Method to Determine Fr	esh Water Depths: 47-0	17-04998, 47-017-0	4719. Depths have been	adjusted acc	cording to surface elevations.
14) Approximate Saltwater I	Depths: 1460', 1673', 1	700', 1710'			
15) Approximate Coal Seam	Depths: 980'				
16) Approximate Depth to P	ossible Void (coal mine	, karst, other):	None Anticipate	d	
17) Does Proposed well loca directly overlying or adjacen		Yes	No	x	
(a) If Yes, provide Mine In	fo: Name:			Of	RECEIVED ffice of Oil & Gas
AT THE OWNER OF THE PERSONS IN	Depth:			J	UN 2 0 2022
	Seam:				N Department of ronmental Protection
	Owner:			E TIVII	Omigrital 170000001

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07/08/2022 4-16-22 WW-6B (04/15) API NO. 47-017 OPERATOR WELL NO. Peter Unit 1H
Well Pad Name: Lemi ey Pa d

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							
Production	5-1/2"	New	P-110HP	20#	14000'	14000'	2610 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	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							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Land-HAPOZ & Tax - H	H/PO2~1.44 & 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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WV Department of Environmental Protection Page 2 of 3



WW-6B (10/14) API NO. 47- 017 -

OPERATOR WELL NO. Peter Unit 1H

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-15a + 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 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

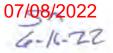
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

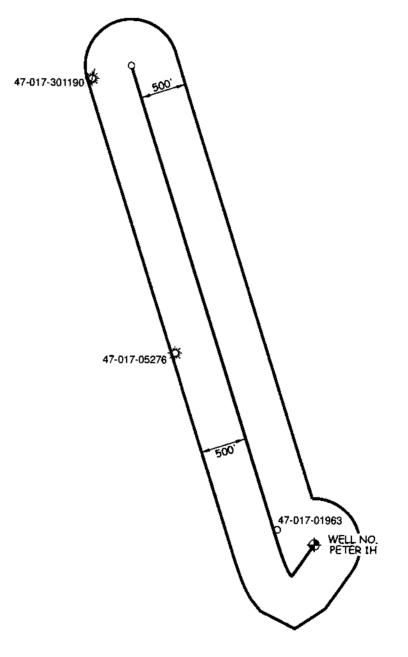
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LEMLEY PAD ANTERO RESOURCES CORPORATION



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WV Department of **Environmental Protection**

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

DATE: 05/19/22

DRAWN BY: D.L.P.

JOB#: 22-005WA

FILE: PETER1HAOR.DWG

0'

SCALE: 1-INCH = 1000-FEET 1000'

20001

3000'

	Well Name	Well Number	Operator	Historical Operator	TD Perforated Interval (shallowest	Gammett Barfaratad Lamastonical	The state of the s
DOCO A CRAL	znon	1			7 350	Shorten consider	Producible Formation(s) not perf'd
					4,330	Big mun	Warren Speechly Bullman Hilley Bencon
HAME	0001	8592	DIVERSIFIED PROD LLC	DOMINION EXPLEPROD	2.840 1962 - 3642	Knanne Course Carelon	
TOURS IN THE PARTY OF	-	2000	THE REAL PROPERTY AND PERSON ASSESSMENT OF PERSONS ASSESSMENT OF P		2000	Personal Advanta Control	Warren, Speechly, Balltown, Riley, Benson
W BOY	-	5174	DOMINION TRANSMISION	HOPE NATURAL GAS	2,294	Big Injun. Squaw	Alexander Bares

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WW-9 (4/16)

API Number	47 -	017	-
One	rator's	Well No.	Detection 44

Operator's Well No. Peter 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 Smithburg 7.5
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste: No pl will be used at this atn (Ording and Flowback Fluids will be stored in series. Collings will be broked and housed off site.)
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34)
Reuse (at API Number Future permitted well locations when applicable. APIS will be provided on Form WR-34 Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Other (Explain Northwestern Landfill Permit #SWF-1025/
WV0109410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. butter - An/Production - Verter barred Man
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-88), Northwestern Landfill (Permit # SWF-1025/WV0109410) [Wetzel Co Landfill Permit #SWF-1021)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. RECEIVED Office of Oil & Gas
Company Official Signature Guesties Tomber
Company Official (Typed Name) Stewart Rolls
Company Official Title
Subscribed and sworn before me this 31 day of Mous . 2022
My commission expires Notary Public DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024

Operator's Well No. Peter Unit 1H

Proposed Revegetation Treatme	ent: Acres Disturbed 27.26 a	cres Prevegetation p	Н
Lime 2-4	Tons/acre or to correct to pl	6.5	
Fertilizer type Hay or s	straw or Wood Fiber (will be used		
Fertilizer amount 500	11	os/acre	
Mulch 2-3	Tons/		
Access Road "A" (9 01) + Ac	Com Road "B" (1 39 nores) + Well Pad (4.3 Topsoil Sto	I acres) + Truck Turnaround Pad (1.36) + Centralis ckpiles (5.65 acres) = 27.26 Acres	zed Impoundment Pad (5,54 acres) + Excess
	See	d Mixtures	
Temp	orary	Permi	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 Pad Design)	See attached Table IV-4A for additional	al seed type (Lemley Pad Design)
or type of grass seed requested by surface owner			
Attach: Maps(s) of road, location, pit an rovided). If water from the pit creage, of the land application	d proposed area for land applic will be land applied, include di area.	*or type of grass seed requirements on the control of the pit, and the control of the	ding this info have been
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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

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

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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:

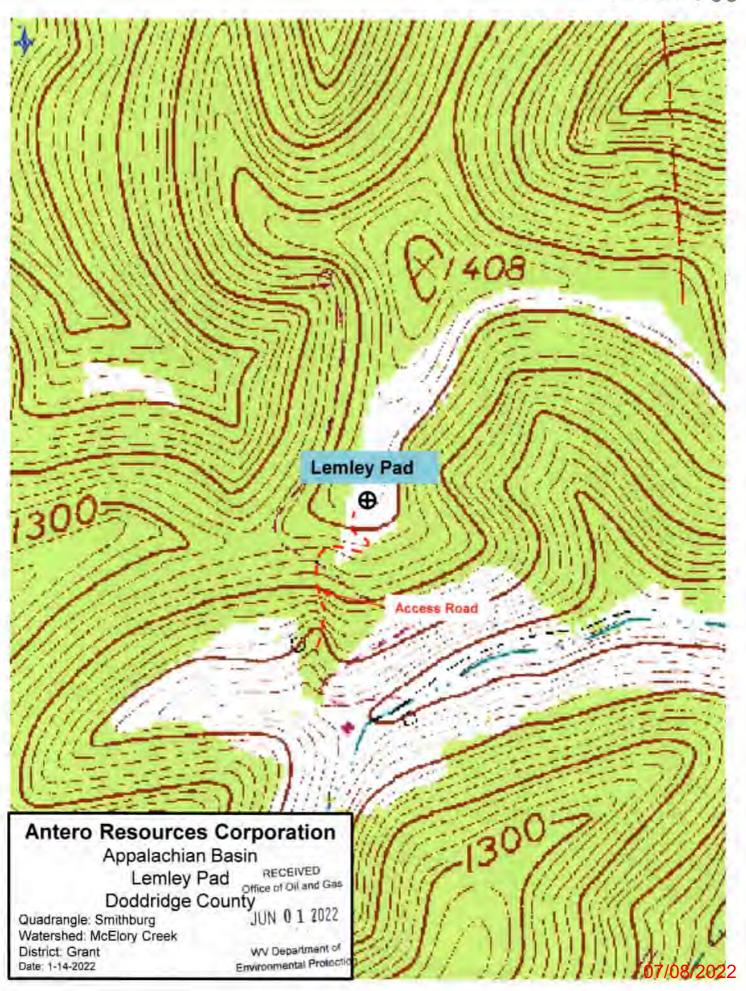
From The intersection of US 50 and Interstate 79 near Bridgeport, WV travel west on US 50 approximately 19 miles. Turn right (north) onto Co Rt 9/Tarkiln Run and take the first left (west) toward Co Rt 3/Big Flint Rd. Turn right (north) onto Co Rt 3/Big Flint Rd and travel approximately 7.5 miles. Turn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

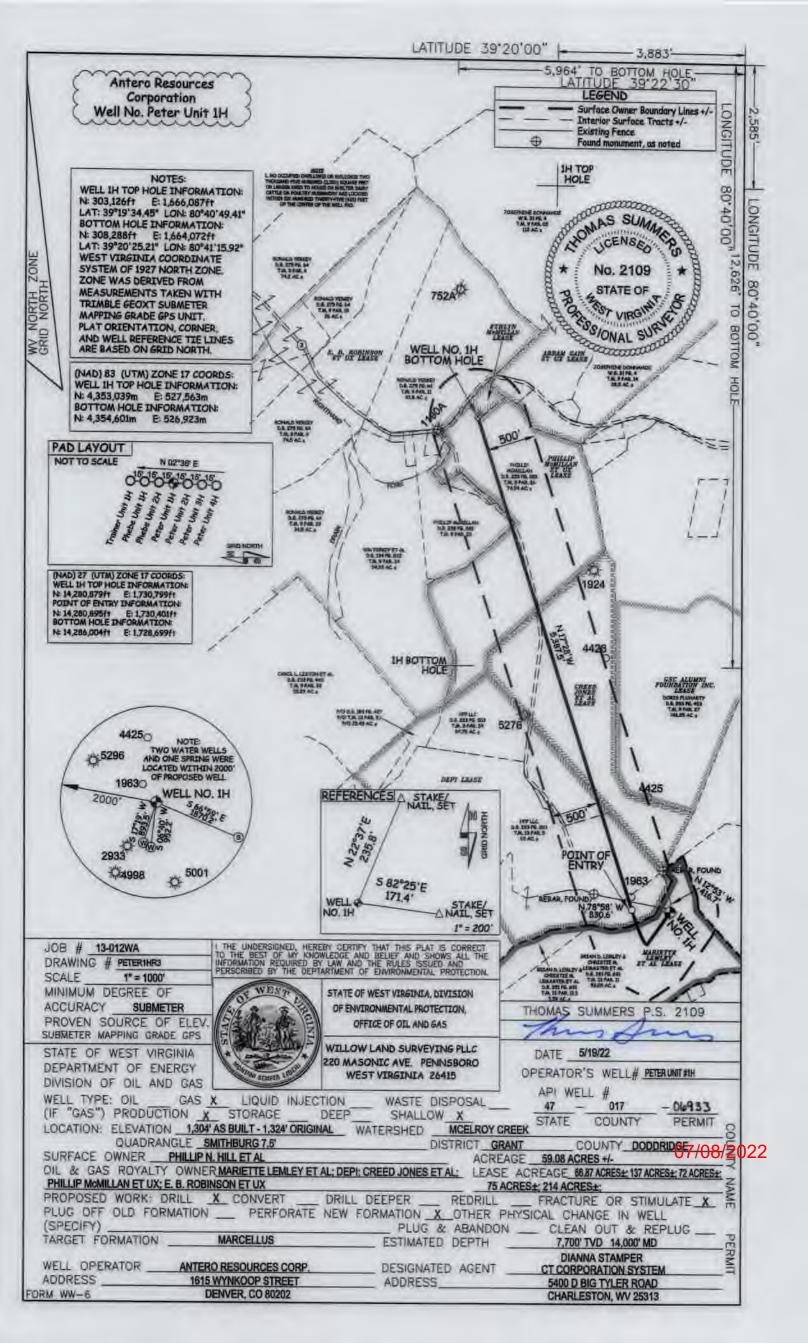
Alternate Route:

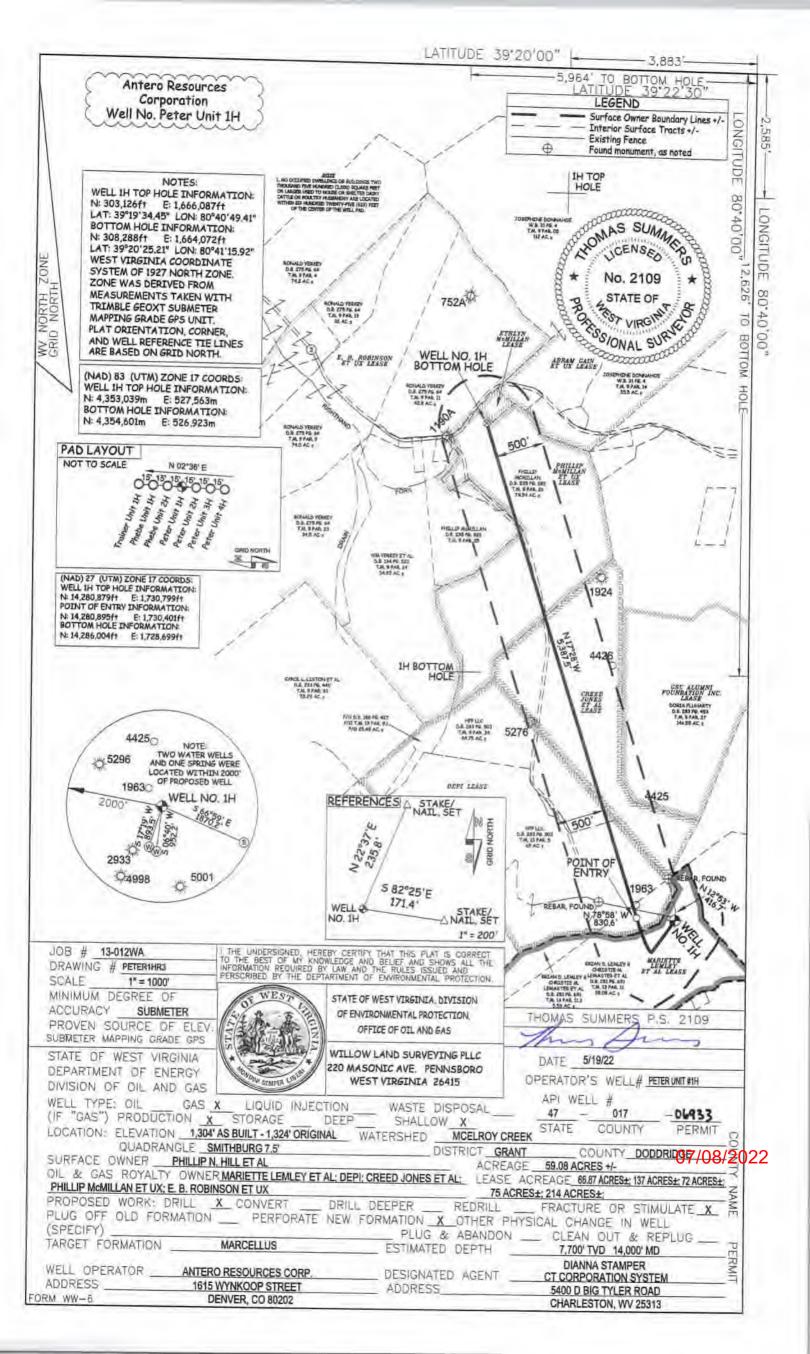
From the intersection of HWY 19 and US-50 near West Union, head east on US-50 for 4.7 miles. Turn left onto Morgans Run/20 and continue for 1.5 miles. Continue straight onto Israels Fork for 1.7 miles. Follow the road up some switch backs, passed the water containment and the pad will be straight ahead.

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









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	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 Corporation	Assignment	0150/0251
Appalachian Energy Development Corporation	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 Corporation	Antero Resources Corporation	Name Change	0046/0523
✓ <u>DEPI Lease</u>			
Dominion Exploration & Production Inc.	Dominion Appalachian Development, LLC	1/8	0230/0569
Dominion Appalachian Development, LLC	Antero Resources Appalachian Corporation	Assignment	0231/0145
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
Creed Jones et al Lease			
Creed Jones, et al	Charles A. F. Randolph	1/8	0028/0409
Charles A. F. Randolph	Hope Natural Gas Company	Assignment	0034/0237
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission, Inc.	Merger	0058/0362
Dominion Transmission, Inc.	Antero Resources Appalachian Corporation	Assignment	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523

^{*}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.

RECEIVED Office of Oil and Gas

JUN 0 1 2022

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
Phillip McMillan Lease			•	
	Phillip M. McMillan, et ux	EMAX Oil Company	1/8+	0362/0085
	EMAX Oil Company	Antero Resources Corporation	Assignment	0358/0154

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 need EIVED permits/approvals should be acquired from the appropriate authority before the affected activity is initial to Gas

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

^{*}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.

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:

Peter Unit 1H, 2H, 3H and 4H 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 Peter Unit 1H-4H 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 Peter 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

WW-6AC (1/12)

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

Date of Notic	ce Certification: 05/30/2022		API No. 47	7_ 017	
		•	Operator's	Well No. Peter	Unit 1H
		•	Well Pad N	lame: _Lemley l	Pad
Notice has b					
	ne provisions in West Virginia Code	§ 22-6A, the Operator has prov	ided the rec	quired parties w	ith the Notice Forms listed
	tract of land as follows:				
State:	West Virginia		Easting:	527563.1m	
County:	Doddridge		Northing:	4353038.6m	
District:	Grant	Public Road Acce		Hollow Run Rd	
Quadrangle:	Smithburg 7.5	Generally used far	m name:	Hill, et al	
Watershed:	McElroy Creek				
information re of giving the requirements Virginia Code	ed the owners of the surface descri- equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	ection sixteen of this article; (ii) arvey pursuant to subsection (a if this article were waived in lender proof of and certify to the	that the re a), section to writing by	quirement was ten of this arti- the surface ov	deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		is Notice C	ertification	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 <a> NO PLAT SURVE	Y WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR F WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER E (PLEASE ATTACH)	SY SURFA	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			RECEIVED	RECEIVED
■ 5. PU	BLIC NOTICE			e of Oil and Gas $N 012022$	RECEIVED
■ 6. NO	TICE OF APPLICATION		wv	Department of	RECEIVED
			Enviro	nmental Protect	ION

Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, I 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

DIMPERSONAL DIMPERSONAL DIMPERSONAL DIMPERSONAL DIMPERSONAL DI 19994011871

NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 31 day of 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 deepprivacyofficer@wv.gov.

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Office of Oil and Gas

JUN 0 1 2022

WW-6A (9-13)

47017 706933 API NO. 47-017 OPERATOR WELL NO. Peter 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 no later than the filing date of permit application. Date of Notice: 04/12/2022 Date Permit Application Filed: 05/31/2022 Notice of: PERMIT FOR ANY CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL SERVICE MAIL. RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE Name: PLEASE SEE ATTACHMENT Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: Name: _____ ☐ COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: _____ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Address: RECEIVED Name: PLEASE SEE ATTACHMENT Office of Oil and Gas Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: WV Department of Address: Environmental Protection Name: Address: *Please attach additional forms if necessary

WW-6A (8-13) 4701706933

OPERATOR WELL NO. Peter Unit 1H

Well Pad Name: Lemley 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

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 in the contract of the department of the contract of the co follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake of meany of the lake of meany of the lake of the (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 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 impresent ment of permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained protection 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

OPERATOR WELL NO. Peter 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 comments as to the RECEIVED 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 01 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) 4701706933

API NO. 47- 017

OPERATOR WELL NO. Peter Unit 1H

Well Pad Name: Lemley Pag

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.as-px 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

WW-6A (8-13)

4701706933

OPERATOR WELL NO. Peter Unit 1H

Well Pad Name: Lemley Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

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

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

Out Blair Notary 1

My Commission Expires 27 Apr 2024 Notary Public

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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: Po

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 35 Timberland Dr.

Address:

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

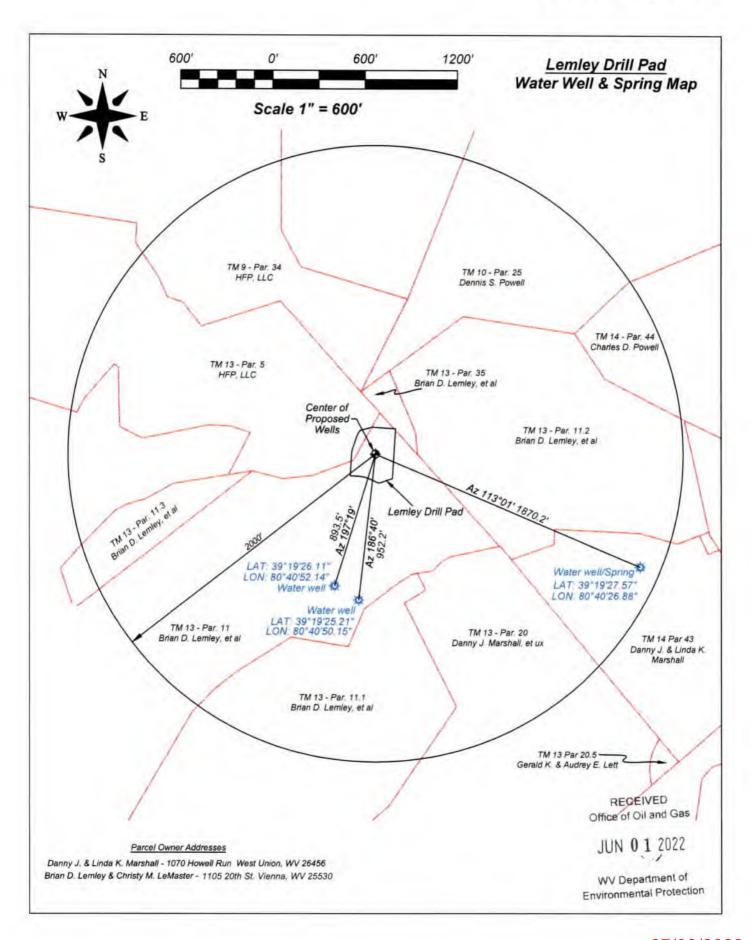
Address:

1070 Howell Run

West Union, WV 26456

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Office of Oil and Gas

JUN 0 1 2022



WW-6A4 (1/12) Operator Well No. Peter Unit 1H Lemley Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Notic	Requirement: Notice shall be provided at ce: 04/12/2022 Date Pern	least TEN (10) days prior to filing a nit Application Filed: 05/31/2022	permit application.	
Delivery met	thod pursuant to West Virginia Code § 22	2-6A-16(b)		
☐ HAND	■ CERTIFIED MAIL			
DELIVE		UESTED		
receipt reques drilling a hor of this subsection manager	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> . That notice given perion as of the date the notice was provided as be waived in writing by the surface owner tile, facsimile number and electronic mail ad-	er notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided, how</i> er. The notice, if required, shall incl	he surface owner's lan en of this article satisfi- vever. That the notice lude the name, address	d for the purpose of es the requirements requirements of this , telephone number,
Notice is he	reby provided to the SURFACE OW	NER(s):		
Name: PLI	EASE SEE ATTACHMENT			
Address:		Address:		
State: County: District: Quadrangle: Watershed:	West Virginia Doddridge Grant Smithburg 7.5' McElroy Creek	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	527563.1m 4353038.6m Hollow Run Rd Hill, et al	
Pursuant to ' facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this report and electronic mail address of the optiziontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (3)	perator and the operator's authorize Secretary, at the WV Department of	ed representative. Add of Environmental Prote	litional information ection headquarters,
Notice is he	reby given by:			
Well Operato		Authorized Representative:	Mallory Stanton	RECEIVED
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.	Office of Oil and Gas
	Denver, CO 80202		Denver, CO 80202	and a second
Telephone:	303-357-7310	Telephone:	303-357-7310	JUN 0 1 2022
Email:	mstanton@anteroresources.com	Email:	mstanton@anteroresour	oes.com
Facsimile:	303-357-7315	Facsimile:	303-357-7315	WV Department of
	7	-		Environmental Protection

Oil and Gas Privacy Notice:

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

WW-6A4 Notice of Intent to Drill 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

WW-6A5 (1/12)

Operator Well No. Peter Unit 1H

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

			pplication Filed: 05/3		_
Delivery met	hod pursuant to West Virginia Co	ode § 2	22-6A-16(c)		
■ CERTI	FIED MAIL		HAND		
RETUI	RN RECEIPT REQUESTED		DELIVERY		
return receipt the planned (required to be drilling of a damages to th (d) The notic of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas opes required by this section shall be a	e surfa this su ten of d surfa eration given t	ce owner whose land absection shall include f this article to a surfa- ace use and compens as to the extent the da to the surface owner a	will be used for le: (1) A copy ace owner whos ation agreemen mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	eby provided to the SURFACE O is listed in the records of the sheriff:				
	ASE SEE ATTACHMENT		Name:		
Address:		3	Address	;	
State: County: District:	the surface owner's land for the pur West Virginia Doddridge Grant	pose	UTM NAD 8	3 Easting: Northing:	527563 1m 4353038 6m Hollow Run Rd
Quadrangle:	Smithburg 7.5			d farm name:	Hill, et al
Watershed:	McElroy Creek			o minimum.	Contraction of the Contraction o
Pursuant to V to be provid- horizontal we	ed by W. Va. Code § 22-6A-10(h) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may b	to a : and co e exter e obta	surface owner whose impensation agreement the damages are co- lined from the Secret	land will be on the containing are compensable und ary, at the WV	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-
information i					
information headquarters was/pages/de	fault uspx.		Address:	1615 Wynkoop Stre	eet
information in headquarters	fault uspx.		Address:	1615 Wynkaop Stre Denver, CO 80202	eet
information in headquarters was/pages/de Well Operato	Dr. Antero Resources Corporation		Address:		et.

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 departure of the privacy of the priva

DEP's Chief Privacy Officer at depprivacyofficenawy.gov.

JUN 0 1 2022

Office of Oil and Gas

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

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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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Lemley Pad, Doddridge County
Peter Unit 1H 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

You K Clayton

RECEIVED
Office of Oil and Gas

JUN 0 1 2022

WV Department of Environmental Protection

Cc: Diane Blair

Antero Resources Corporation

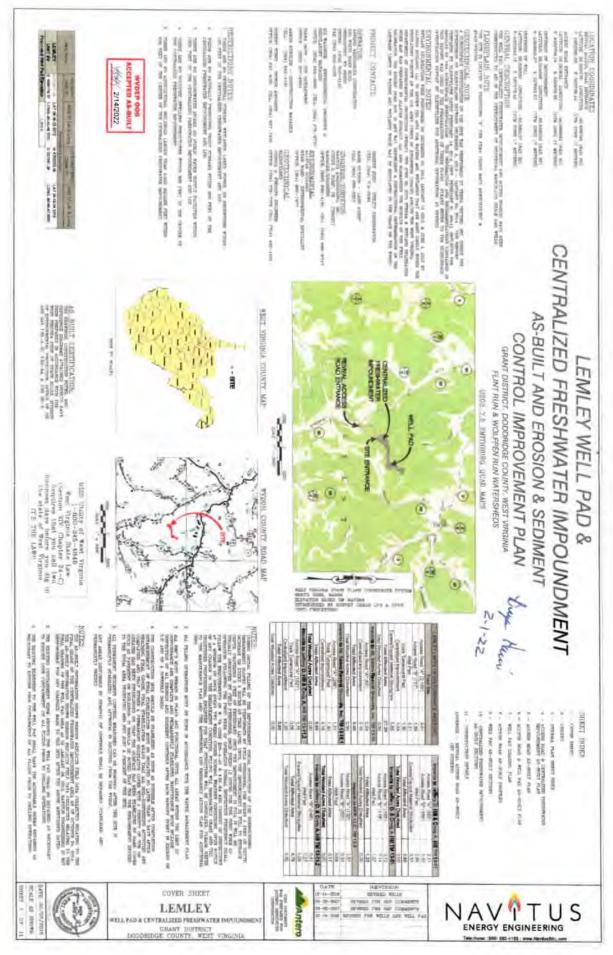
CH, OM, D-4

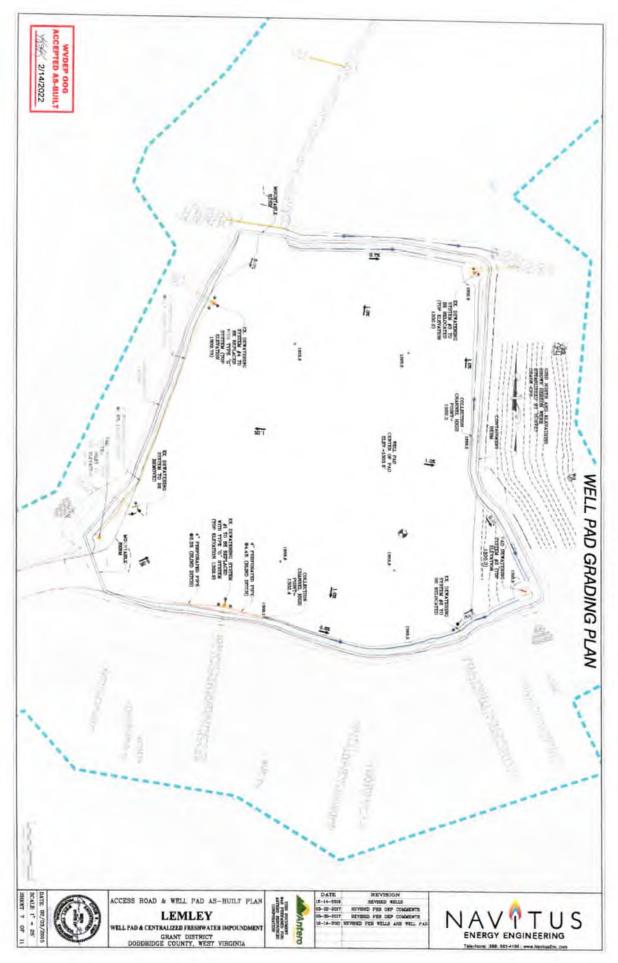
File

Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or 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)	
9. Ethoxylated alcohol blend	Mixture	
10. Ethoxylated Nonylphenol	68412-54-4	
11. Ethoxylated oleylamine	26635-93-8	
12. Ethylene Glycol	107-21-1	
13. Glycol Ethers	111-76-2	
14. Guar gum	9000-30-0	
15. Hydrogen Chloride	7647-01-0	
16. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
17. Isopropyl alcohol	67-63-0	
18. Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2	
19. Microparticle	Proprietary	
20. Petroleum Distillates (BTEX Below Detect)	64742-47-8	
21. Polyacrylamide	57-55-6	
22. Propargyl Alcohol	107-19-7	
23. Propylene Glycol	57-55-6	
24. Quartz	14808-60-7	
25. Sillica crystalline quartz	7631-86-9	
26. Sodium Chloride	7647-14-5	
27. Sodium Hydroxide	1310-73-2	
28. Sugar	57-50-1	
29. Surfactant	68439-51-0	
30. Suspending agent (solid)	14808-60-7	
31. Tar bases, quinolone derivs, benzyl chloride-quarternized	· · · · · · · · · · · · · · · · · · ·	
32. Solvent Naptha, petroleum, heavy aliph	64742-96-7	
33. Soybean Oil, Me ester	67784-80-9	
34. Copolymer of Maleic and Acrylic Acid	52255-49-9	
35. DETA Phosphonate	15827-60-8	
36. Hexamythylene Triamine Penta	34690-00-1	
37. Phosphino Carboxylic acid polymer	71050-62-9	
38. Hexamethylene diamine penta	23605-74-5	
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9 RECEIVE	
40. Hexamethylene diamine penta (methylene phosphonic a	· · · · · · · · · · · · · · · · · · ·	ıd Ga
41. Diethylene Glycol	111-46-6	
42. Methenamine	100-97-0 JUN 0 1 ½	:022
43. Polyethylene polyamine	68603-67-8	
44. Coco amine	61791-14-8 WV Departmen	int of
45. 2-Propyn-1-olcompound with methyloxirane	38172-91-7 Environmental Fro	otecti





OPERATOR: Antero Resources Corp.	WELL NO: Peter Unit 1H
PAD NAME: Lemley Pad	
REVIEWED BY: Diane Blair	SIGNATURE: Diane Blair

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

TT7 I	1 13		- 4.5 -	
Wel	1 14	estri	ጥ ተነብ	ne
77 (1	т т.	COLLI	LUU	11.6

V	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	any			
	DEP Waiver and Permit Conditions				
V	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to Naturally Producing Trout Stream; OR	any			
	DEP Waiver and Permit Conditions				
'	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to Groundwater Intake or Public Water Supply; OR	o any			
	DEP Waiver and Permit Conditions				
'	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR				
	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 Pad;	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 Feet tof the Pad; OR	o 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			