

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

Monday, December 16, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for Neptune Unit 1H

47-085-10537-00-00

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.

Operator's Well Number: Neptune Unit 1H

Farm Name: Richard E Blouir ET UX

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-085-10537-00-00

Date Issued: 12/16/2024

API Number: 47 - 085 - 10537

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief
 or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-085 - 10	537
OPERATOR WELL NO.	Neptune Unit 1H
Well Pad Name: Hushe	er Pad

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

1) Well Operator: Antero Reso	ources Corpora	494507062	085 - Ritc		Ellenboro 7.5'
-		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Ne	ptune Unit 1H	Well Pa	nd Name: Hu	isher Pad	
3) Farm Name/Surface Owner:	Richard E. Blouir	et ux Public Ro	ad Access: L	amberton Ro	d
4) Elevation, current ground:	1,007' As-Built El	evation, proposed	l post-constru	uction:	
5) Well Type (a) Gas X	Oil	Und	derground Sto	orage	
Other					
(b)If Gas Sha	llow X	Deep			-
Hor	izontal X				
6) Existing Pad: Yes or No Yes	3				
7) Proposed Target Formation(s) Marcellus Shale: 7600' TVD, A), Depth(s), Antic				
8) Proposed Total Vertical Depth					
9) Formation at Total Vertical D					
10) Proposed Total Measured De	(
11) Proposed Horizontal Leg Le	ngth: 0' *Ope	en to modificatio	n at a later o	late	
12) Approximate Fresh Water S	trata Depths:	147', 406'			
13) Method to Determine Fresh	Water Depths:	47085015510000, 470850888	20000Offset well record	ds. Depths have been ad	justed according to surface elevations.
14) Approximate Saltwater Dep	ths: 1654'				
15) Approximate Coal Seam De	pths: N/A				
16) Approximate Depth to Possi	ible Void (coal m	ine, karst, other):	None Antic	cipated	
17) Does Proposed well location directly overlying or adjacent to		Yes	RECE Office of C	EINED X Dil and Gas	
(a) If Yes, provide Mine Info:	Name:			0 2024	
Nov. 35 @ 30/ 1	Depth:		MOA	20 2024	
	Seam:		wv De	partment of	
	Owner:		Environme	ental Protection	

Jenny Mal-11-19-24

API NO. 47-085 - 10537

OPERATOR WELL NO. Neptune Unit 1H

Well Pad Name: Husher Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	456'	456'	CTS, 475 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3000'	3000'	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	7600'	7600'	CTS, 987 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.375"	2250	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

Juny Merc 11-19-24 Page

Page 2 of 3

API NO. 47-085 - 10537

OPERATOR WELL NO. Neptune Unit 1H

Well Pad Name: Husher Pad

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

Drill a new horizontal shallow well into the Marcellus Shale.

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

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.13 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 9.66 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.

Office of Oil and Gas

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A/L cement.

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

Production: Tail cement - Class G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% C-12 + 0.45% C-20 + 0.05% C-20 + 0.2% ACR-20 Production: Tail cement - Class G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

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

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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

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

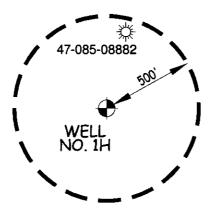
*Note: Attach additional sheets as needed.

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12/20/2024

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HUSHER PAD ANTERO RESOURCES CORPORATION



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NOV 1 3 2024

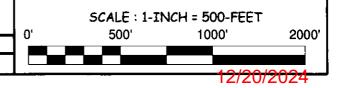
WV Department of Environmental Protection

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

DATE: 11/12/24 **DRAWN BY:** D.L.P.

JOB #: 24-005WA

FILE: NEPTUNE1HVAOR.DWG



UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085088820000	HAYHURST	1	ANJA RESOURCES	ANJA RESOURCES	3,072	1210 - 2879	Salt Sands, Big Injun, Tiona	Weir, Benson, Alexander

office of Oil and Gas

WV Department of Environmental Protection 4708510537

November 11, 2024

West Virginia Office of Oil and Gas Attn: Taylor Brewer 601 57th St SE Charleston, WV 25304

RE: Request for Variance – Class L Cement Mercury 1H, Neptune 1H, Saturn 1H, Shipe 1H, Villers 1H Ritchie County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal wells (Mercury 1H, Neptune 1H, Saturn 1H, Shipe 1H, and Villers 1H) on the Husher pad.

Antero only plans to use this method if Class A cement is not available to be use due to supply issues. Please see Order No 2022-14 attached.

If you have any questions or need further information, please feel free to contact Mallory Turco, Permitting Manager, at (303) 357-7182 or email at mturco@anteroresources.com.

Sincerely,

Stefan Gaspar Permitting Agent

Antero Resources Corporation

Office of Oil and Gas

NOV 1 3 2024

vv√ Department of Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 928-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

BEFORE THE OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4 SECTION 11.5 AND LEGISLATIVE RULE 35CSR8 SECTION 9.2.h.8.,) ORDER !)	NO. 2022-14
RELATING TO THE CEMENTING OF OIL AND GAS WELLS)	RECEIVED Office of Oil and Gas
		NOV 1 3 2024
REPORT OF TH	E OFFICE	WV Department of Environmental Protection

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
- Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment.

On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of
public comments on the variance consideration. During the 20-day public comment
period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas

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NOV 1 3 2024

WV Department of Environmental Protection

API Number 47 - 085 - 10537

Operator's Well No. Neptune Unit 1H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062
Watershed (HUC 10) North Fork Hughes River Quadrangle Ellenboro 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes V
Will a pit be used? Yes No
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number_*UIC Permit # will be provided on Form WR-34
Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34 Off Site Dimoscl (Supply form WWW 0 for dimoscl location) (4.5 to 100 permitted well loca
Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Other (Explain Northwestern Landfill Permit #SWF-1025/
WV0109410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Surface - Att/Treshwater, Intermediate - Dust/Stiff Foam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Wetzel County Landfill (Permit #SWF-1021) Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Gretchen Kohler RECEIVED
Company Official (Typed Name) Gretchen Kohler Office of Oil and Gas
Company Official Title Director Environmental & Regulatory Compliance
Subscribed and sworn before me this 12th day of November, 2024 w armen mal Protection Stefan Gaspar Notary Public
My commission expires November 15, 2026 STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043869 MY COMMISSION EXPIRES NOVEMBER 15, 202

Form WW-9

om ww-5	Operator's V	Vell No. Neptune Unit 1H
Antero Resources Corporation		
roposed Revegetation Treatment: Acres Disturbed 20.13 ac	cres Prevegetation pl	Н
Lime 2-4 Tons/acre or to correct to pH		
Fertilizer type Hay or straw or Wood Fiber (will be used to	where needed)	
Fertilizer amount 500	s/acre	
Mulch 2-3 Tons/a	acre	
Access Road "A" (6.43 acres) + Well Pad (9.66 acres) + Excess/Topsoil Material Stockpiles (4 = 20.13 acres	1.04 acres)
Temporary	Perms	anent
Seed Type lbs/acre	Seed Type	lbs/acre
Annual Ryegrass 40	Crownvetch	10-15
ield Bromegrass 40	Tall Fescue	30
se attached Table IV-3 for additional seed type Husher Pad Design)	See attached Table IV-4A for additional	al seed type Husher Pad Design)
or type of grass seed requested by surface owner	*or type of grass seed reque	ested by surface owner
an Approved by:		
omments:		
tle: DOG Inspector	Date: 11-19-2	4
eld Reviewed? () Yes (
	NOV 20 2024	
	at Of	ion
	W Department of Environmental Protect	12/20

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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WV Department of Environmental Protection 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

Office of Oil and Gas

NOV 1 3 2024

WV Department of Environmental Protection



911 Address 2529 Lamberton Road, Pennsboro, WV 26415

Well Site Safety Plan Antero Resources

Well Name: Husher Unit 5V, Mercury Unit 1H, Neptune Unit 1H,

Saturn Unit 1H, Shipe Unit 1H, Villers Unit 1H

Pad Location: Husher Pad

Ritchie County/Clay District

GPS Coordinates:

Entrance - Lat 39.283607 /Long -81.020075 (NAD83)
Pad Center - Lat 39.286915 /Long -81.021158 (NAD83)

Driving Directions:

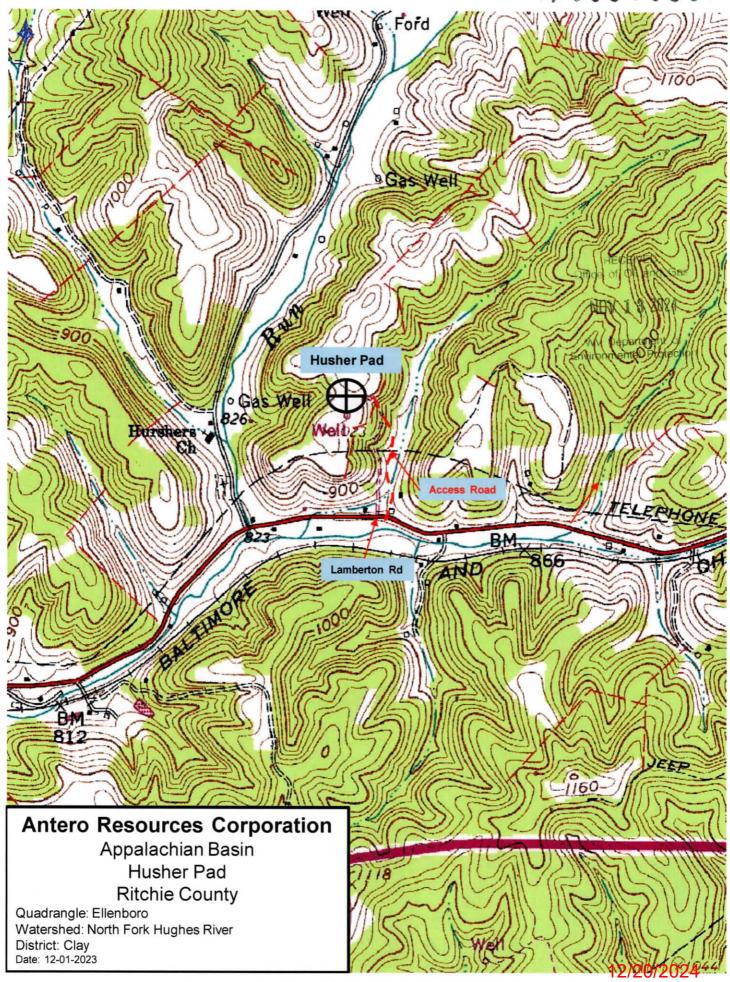
- From intersection of US-50 and the Ellenboro exit turn north onto S. Main St for 0.2 miles
- 2. Turn right onto Old US50 (CO-50/39) and continue 2.5 miles. The Husher Lease Road is on the left.

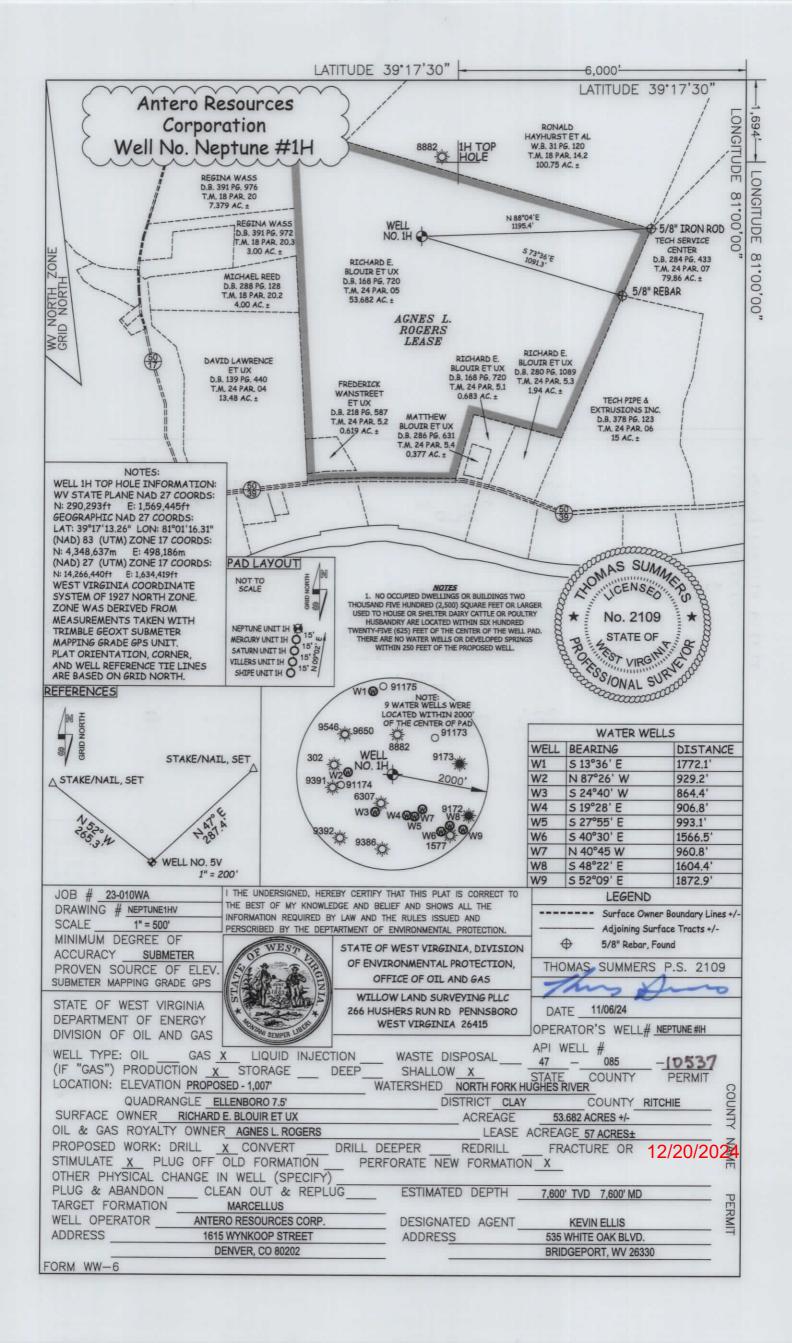
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

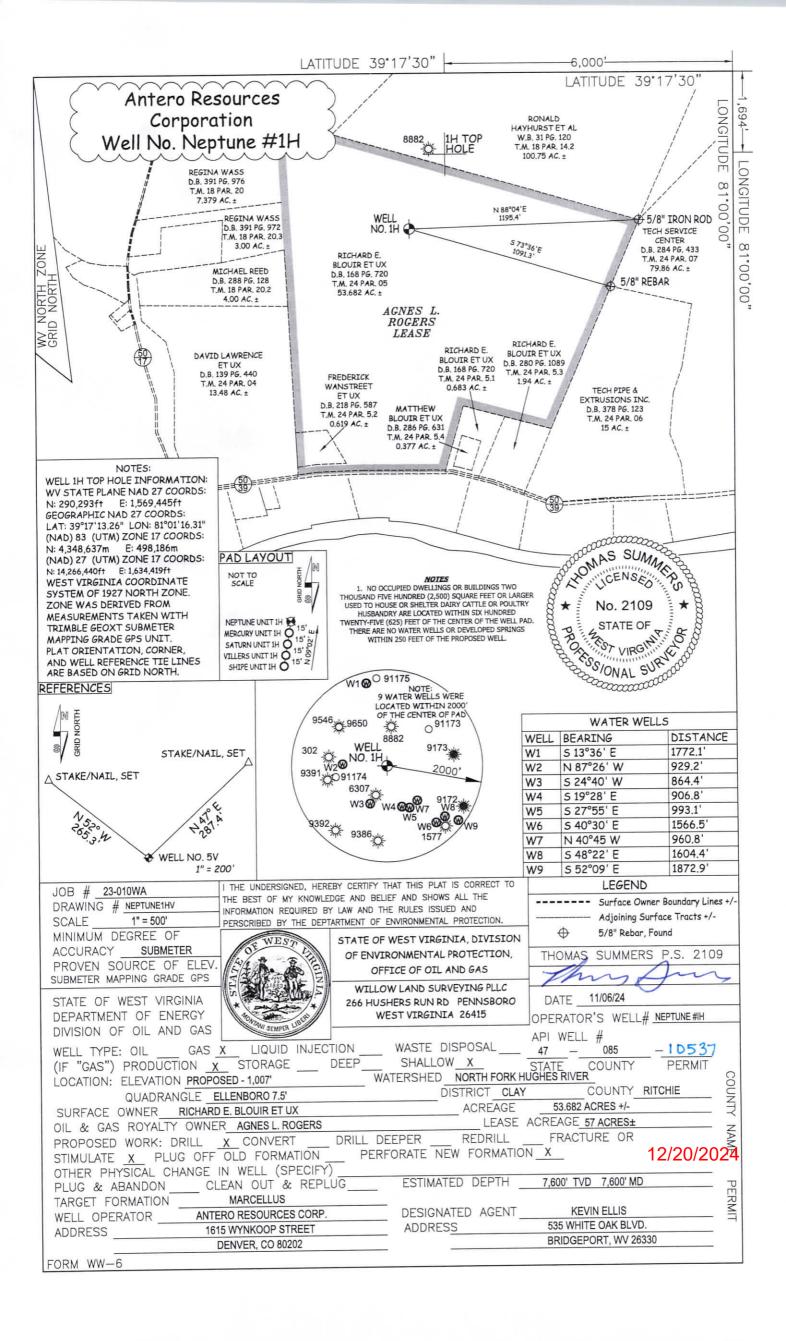
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Office of Oil and Gas

NOV 20 2024

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WW-6A1 (5/13)

Operator's Well No	Neptune Unit 1H
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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
Agnes L. Rogers Lease				
	Agnes L. Rogers	Jenkins Energy Corporation	1/8	0204/0778
	Jenkins Energy Corporation Clarence W. Mutschelknaus	Clarence W. Mutschelknaus Antero Resources Corporation	Assignment Assignment	0273/0692 0274/1002

^{*}Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

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

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

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

NOV 1 3 2024

Office of Oil and Gas

WV Department of Environmental Protection

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

Well Operator: Antero Resources Corporation

By: Tim Rady

Its: Senior Vice President of Land

Page 1 of 1

November 7, 2024

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

RE:

Neptune Unit 1H

Quadrangle: Ellenboro 7.5'

Ritchie County/Clay District, West Virginia

Mr. Martin:

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

Sincerely,

Autum Boehnlein Landman Associate RECEIVED
Office of Oil and Gas

NOV 1 3 2024

W Departmen of Environmental Protection

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

Date of Notic	ce Certification: 11/11/2024	API No.	API No. 47- 085 -				
			r's Well No. Nept	tune Unit 1H			
			Name: Husher				
Notice has l	been given:						
	ne provisions in West Virginia Code §	22-6A, the Operator has provided the	required parties v	with the Notice Forms listed			
below for the	tract of land as follows:	1	1 p	and reduce remaining moteur			
State:	West Virginia	UTM NAD 83 Easting:	498186m				
County:	Ritchie	Northing	: 4348637m				
District:	Clay	Public Road Access:	Lamberton Rd (C	CR 50/39)			
Quadrangle:	Ellenboro 7.5'	Generally used farm name	Richard E. Blouir	Et Ux			
Watershed:	North Fork Hughes River						
prescribed by it has provide information reof giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), ethe secretary, shall be verified and shaded the owners of the surface describe equired by subsections (b) and (c), secretary surface owner notice of entry to survey of subsection (b), section sixteen of ethe § 22-6A-11(b), the applicant shall tend have been completed by the applicant.	all contain the following information: d in subdivisions (1), (2) and (4), so tion sixteen of this article; (ii) that the vey pursuant to subsection (a), section this article were waived in writing to ader proof of and certify to the secreta	(14) A certification (b), second requirement was not ten of this article the surface of the surf	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West			
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY	rator has attached proof to this Notice parties with the following:	Certification	OOG OFFICE USE ONLY			
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BEC SEISMIC ACTIVITY WAS CONDU		RECEIVED/ NOT REQUIRED			
☐ 2. NO	ΓΙCE OF ENTRY FOR PLAT SURVE	Y or NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED			
■ 3. NO		☐ NOTICE NOT REQUIRED BEC NOTICE OF ENTRY FOR PLAT SU WAS CONDUCTED or		RECEIVED/ NOT REQUIRED			
		WRITTEN WAIVER BY SURF (PLEASE ATTACH)					
■ 4. NO	ΓICE OF PLANNED OPERATION	RECEIVED Office of Oil ar		☐ RECEIVED			
■ 5. PUE	BLIC NOTICE	NOV 13	2024	RECEIVED			
■ 6. NO	TICE OF APPLICATION			RECEIVED			

Required Attachments:

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

Environmental Protection

Certification of Notice is hereby given:

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

1615 Wynkoop Street Bv: Jon McEvers Denver, CO 80202 Its: SVP of Operations Facsimile: 303-357-7315 Telephone: 303-357-7310 Email: mturco@anteroresources.com

NOTARY SEAL STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669 MY COMMISSION EXPIRES NOVEMBER 15, 2026 Subscribed and sworn before me this 12 day of November 2024

Stefan GISPAr Notary Public

My Commission Expires November 15, 2026

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

> > NOV 1 3 2024

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

47.00 8 5 1 0 5 3 7

OPERATOR WELL NO. Neptune Unit 1H
Well Pad Name: Husher Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 11/12/2024 Date Permit Application Filed: 11/12/2024 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL ☐ REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A SERVICE RECEIPT OR SIGNATURE CONFIRMATION MAIL. 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: Richard E. & Mary L. Blouir Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: 2503 Lamberton Road Address: ____ Pennsboro, WV 26415 Name: ☐ COAL OPERATOR Address: Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: PLEASE SEE ATTACHMENT SURFACE OWNER OF WATER WELL Address: ____ AND/OR WATER PURVEYOR(s) Name: SEE ATTACHMENT Name: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Address: Áddress: *Please attach additional forms if necessary

WW-6A (8-13) API NO. 44- 785 0 8 5 1 0 5 3 7

OPERATOR WELL NO. Neptune Unit 1H
Well Pad Name: Husher 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 of the Gas 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 as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47-085

OPERATOR WELL NO. Neptune Unit 1H

Well Pad Name: Husher Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

NOV 1 3 2024

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) 4708510537

OPERATOR WELL NO. Neptune Unit 1H
Well Pad Name: Husher 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

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Comence Protection

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WW-6A (8-13)

API NO. 47-085

OPERATOR WELL NO. Neptune Unit 1H

Well Pad Name: Husher Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Telephone:

mturco@anteroresources.com Email:

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669 MY COMMISSION EXPIRES NOVEMBER 15, 2026 Subscribed and sworn before me this 12 day of November, 2024

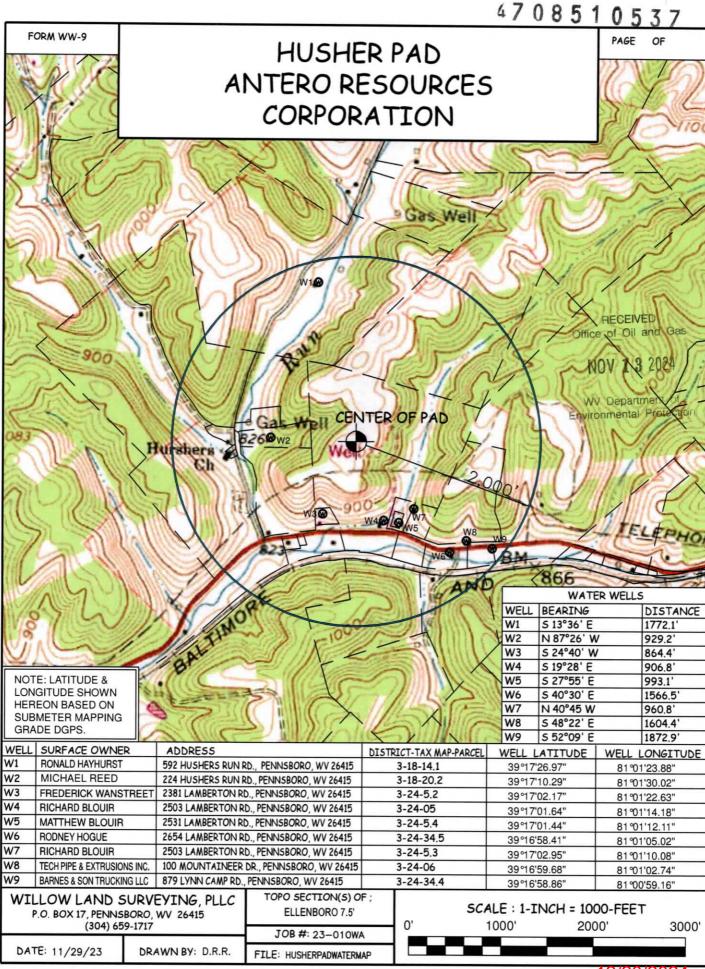
Steff Gas Par Notary Public

My Commission Expires November 15, 2026

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NOV 1 3 2024

WV Department of Environmental Protection



WW-6A Attachment - Notice of Application:

Surface Owners (Road and/or Other Disturbance):

TM 3-24-5, 3-24-5.1, & 3-24-5.4

Owner: Matthew S., Tanya K., & Madeline K.

Blouir

Address: 2531 Lamberton Road

Pennsboro, WV 26415

Route 50/39

Owner: WVDOH c/o Justin B. Smith

Address: 624 Depot Street

Parkersburg, WV 26101

Surface Owner of Water Well and/or

Water Purveyor(s):

TM 3-18-20.2

Owner: Michael Reed

Address: 224 Hushers Run Rd.

Pennsboro, WV 26415

TM 3-24-5.2

Owner: Frederick Wanstreet

Address: 2381 Lamberton Rd. Pennsboro, WV 26415

TM 3-24-05

Owner: Richard E. & Mary L. Blouir

Address: 2503 Lamberton Rd

Pennsboro, WV 26415

TM 3-24-5.4 & 3-24-5.3

Owner: Matthew S., Tanya K., & Madeline K.

Blouir

Address: 2531 Lamberton Rd.

Pennsboro, WV 26415

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Office of Oil and Gas

NOV 1 3 2024

WV Department of Environmental Protection

Operator Well No. Neptune Unit 1H

Multiple Wells on the Husher Pad

STATE OF WEST VIRGINIA 4708510537 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.

HAND DELIVERY Pursuant to W. Va. receipt requested o drilling a horizonta of this subsection as subsection may be and if available, factories	r hand delivery, give the surface oval well: <i>Provided</i> , That notice give sof the date the notice was provide waived in writing by the surface oversimile number and electronic mail provided to the SURFACE Of the Labouir	ays prior to filing a permit application, when notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided, how</i> when. The notice, if required, shall included address of the operator and the operator	Office of Oil and Gas
DELIVERY Pursuant to W. Va. receipt requested of drilling a horizonta of this subsection as subsection may be and if available, factorice is hereby Name: Richard E. & Ma Address: 2503 Lamber	RETURN RECEIPT RE Code § 22-6A-16(b), at least ten der hand delivery, give the surface over the surface of the date the notice was provided waived in writing by the surface over the surface of the date the notice was provided waived in writing by the surface over the surface of the surface	ays prior to filing a permit application, when notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided</i> , how when. The notice, if required, shall included address of the operator and the operator with the provided of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the operator and the operator with the operator and the operator with the operator and the operator and the operator with the operator w	e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this add the name, address, telephone number, r's authorized representative. RECEIVED Office of Oil and Gase
Pursuant to W. Va. receipt requested of drilling a horizonta of this subsection as subsection may be and if available, factor of the subsection of this subsection may be and if available, factor of the subsection of the subsecti	Code § 22-6A-16(b), at least ten der hand delivery, give the surface oval well: <i>Provided</i> , That notice give so of the date the notice was provide waived in writing by the surface oversimile number and electronic mail provided to the SURFACE Of the Labouir	ays prior to filing a permit application, when notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided</i> , how when. The notice, if required, shall included address of the operator and the operator with the provided of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the contraction of the operator and the operator with the operator and the operator with the operator and the operator with the operator and the operator and the operator with the operator w	e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this add the name, address, telephone number, r's authorized representative. RECEIVED Office of Oil and Gase
receipt requested of drilling a horizonta of this subsection as subsection may be and if available, factorice is hereby Name: Richard E. & Ma Address: 2503 Lambe	r hand delivery, give the surface oval well: <i>Provided</i> , That notice give sof the date the notice was provide waived in writing by the surface oversimile number and electronic mail provided to the SURFACE Of the Labouir	when notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided, how</i> when. The notice, if required, shall included address of the operator and the operator with the provided with the operator and the operator with the contract of the operator and the operator with the contract of the operator and the operator with the contract of the operator and the operator with the contract of the operator and the operator with the contract of the operator and the operator with the contract of the operator and the operator with the contract of the operator and the operator with the operator and the operator with the operator operator with the operator and the operator with the operat	e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this add the name, address, telephone number, r's authorized representative. RECEIVED Office of Oil and Gase
Name: Richard E. & Ma Address: 2503 Lambe	ry L. Blouir		
Address: 2503 Lambe		Name:	
		A ddmoss:	2101/ 3 11 //11//
Pennsoboro	W 400 Access to March 200 Access to 100 Acce	Address:	MOV I O LOC.
the surface owner's State: West	s land for the purpose of drilling a h	norizontal well on the tract of land as fo Easting:	498186m
County: Ritch	ie	Northing:	4348637m
District: Clay		Public Road Access:	Lamberton Rd (CR 50/39)
Quadrangle: Ellen Watershed: North	boro Fork Hughes River	Generally used farm name:	Richard E. Blouir Et Ux
This Notice Sha Pursuant to West facsimile number related to horizont	Virginia Code § 22-6A-16(b), this and electronic mail address of the al drilling may be obtained from t	e operator and the operator's authorize the Secretary, at the WV Department o	ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is hereby	given by: ntero Resources Corporation	Authorized Representative:	Mallory Turco
· . —	615 Wynkoop St.	Address:	1615 Wynkoop St.
	enver, CO 80202		Denver, CO 80202
	03-357-7310	Telephone:	303-357-7310
	aturco@anteroresources.com	Email:	mturco@anteroresources.com
	03-357-7315	Facsimile:	303-357-7315

Oil and Gas Privacy Notice:

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

7 0 8 5 1 0 5 3 7

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

cation.
an operator shall, by certified mail drilling of a horizontal well notice of s code section; (2) The information will be used in conjunction with the aining an offer of compensation for the under article six-b of this chapter, the records of the sheriff at the time
perator has developed a planned and as follows: 6m
erton Rd (CO 50/39)
d Blouir et ux
ection; (2) The information required a conjunction with the drilling of a of compensation for damages to the cle six-b of this chapter. Additional rtment of Environmental Protection www.dep.wv.gov/oil-and-
Office of On
NOV 1 3 2024
MOATO
c

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways Office of the District Engineer/Manager

District Four Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

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

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

November 6, 2024

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 Husher Well Pad, Ritchie County
Neptune Unit 1H Well Site Mercury Unit 1H Well Site Saturn Unit 1H Well Site
Villers Unit 1H Well Site Shipe Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2022-0438 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Ritchie County Route 50/39 SLS MP 2.535.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for ECEIVED permitting purposes for one year from the date of this letter.

Very Truly Yours,

NOV 1 3 2024

Lenvironmental Protection

Sacy D. Pratt Lacy D. Pratt

Central Office O&G Coordinator

Cc: Stefan Gaspar Antero Resources Corporation OM, D-3 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 (C	:AS #)
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	
	Ethoxylated oleylamine	26635-93-8	
12.	Ethylene Glycol	107-21-1	
	Glycol Ethers	111-76-2	
	Guargum	9000-30-0	
	Hydrogen Chloride	7647-01-0	
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	1
	Isopropyl alcohol	67-63-0	
	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2	
	Microparticle	Proprietary	
	Petroleum Distillates (BTEX Below Detect)	64742-47-8	
	Polyacrylamide	57-55-6	
	Propargyl Alcohol	107-19-7	
23.	Propylene Glycol	57-55-6	
24.	Quartz	14808-60-7	i
25.	Sillica crystalline quartz	7631-86-9	
26.	Sodium Chloride	7647-14-5	RECEIVED
27.	Sodium Hydroxide	1310-73-2 ₍	Office of Oil and Gas
28.	Sugar	57-50-1	
29.	Surfactant	68439-51-0	NOV 1 3 2024
30.	Suspending agent (solid)	14808-60-7	
31.	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7	wv Departmen⊨ ೮¹
32.	Solvent Naptha, petroleum, heavy allph	647 4 2-96-7	nvironmental Protection
	Soybean Oil, Me ester	67784-80-9	
34.	Copolymer of Maleic and Acrylic Acid	52255-49-9	}
	DETA Phosphonate	15827-60-8	
36.	Hexamythylene Triamine Penta	34690-00-1	
37.	Phosphino Carboxylic acid polymer	71050-62-9	
	Hexamethylene diamine penta	23605-74-5	
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9	
	Hexamethylene diamine penta (methylene phosphonic a		
	Diethylene Glycol	111-46-6	
	Methenamine	100-97-0	
	Polyethylene polyamine	68603-67-8	
	Coco amine	61791-14-8	
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7	

4708510537

OPERATOR: Antero Resources Corporation	WELL NO: Neptune Unit 1H
PAD NAME: Husher Pad REVIEWED BY: Stefan Gaspar	SIGNATURE:

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restri	ctions
\checkmark	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
	DEP Waiver and Permit Conditions
\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
	DEP Waiver and Permit Conditions
\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) and any Groundwater Intake or Public Water Supply; OR
	DEP Waiver and Permit Conditions NOV 1 3 2024
\checkmark	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
\checkmark	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
\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions

LOCATION COORDINATES:

ACCESS ROAD ENTRANCE
LATITUDE: 99.283607 LONGITUDE: -81.020075 (NAD 83)
LATITUDE: 99.283528 LONGITUDE: -81.020243 (NAD 27)
N 4348249.69 E 498268.64 (UTM ZONE 17 METERS)

CENTER OF TANK
LATITUDE: 39.287368 LONGITUDE: -81.020357 (NAD 83)
LATITUDE: 39.287289 LONGITUDE: -81.020525 (NAD 27)
N 4348687.06 E 498244.38 (UTM ZONE 17 METERS)

CENTROID OF PAD LATITUDE 39.286915 LONGITUDE -81.021158 (NAD 83) LATITUDE 39.286536 LONGITUDE -81.021328 (NAD 27) N 4348916.83 E 498175.30 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

GENERAL DESCRIPTION:
THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD ARE BEING CONSTRUCTED TO AID IN
THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS: FLOODPLAIN NOTES:

ELUGUPI-AIN NOTES:
THE PROPOSE SHE IS LOCATED WITHIN FEMA FLOOD ZONE 'X' PER FEMA FLOOD MAP #54085C0095C
MISS UTILITY STATEMENT:
ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGUNIA FOR THE LOCATING OF
UTILITIES PRIOR TO THE STATE OF CONSTRUCTION FOR THIS PROJECT.

ANTI-ACTURE A MARKEL IN THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE WEST VERDING DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND METAME DELIMINATIONS WERE PERFORMED IN MARCH 2003 BY ALLSTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WETLAND DELIMINATIONS WERE PERFORMED IN MARCH 2003 BY ALLSTAR ECOLOGY TO REVIEW IN STREAM AND METAME DELIMINATION OF THE SITE FOR WATERS AND WELLARS THAT ARE MOST LIKELY WITHIN THE REGULATOR FOR PROPERTY OF MARCHES (USACK) AND/OR THE WEST VIRICIDAD BETAMINATION OF THE DELIMINATION OF THE PROPERTY OF MARCHES AND WELLANDS WELL

GEOTECHNICAL NOTES:

MEALINGALITYMAL AVAILED:
THE PROPOSED ACCESS ROAD CUT SLOPE (15.1) SHALL HE FIELD VERIFIED BY A CERTIFIED GROTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADEQUATE PRIOR TO CONSTRUCTION ACCESS ROAD CONSTRUCTION SHALL HE MONTROED BY A REPRESENTATIVE OF THE GROTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER DURING CONSTRUCTION.

A SUBSURFICE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSTIAVABLE SOIL & ROCK INC ON AUXISTS 41-24, 2023. THE REPORT PEPFARED BY PENNSTIAVABLE SOIL & ROCK INC ON AUXISTS 41-24, 2023. THE REPORT PEPFARED BY PENNSTIAVABLE SOIL & ROCK INC. AUXISTS 41-24, 2023. THE REPORT PEPFARED BY PENNSTIAVABLE SOIL & ROCK INC. SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANE. PLAZES REFER TO THE SURGIFFACE DIVESTIGATION REPORT BY PENNSTIAVABLE SOIL & ROCK, INC. FOR ADDITIONAL INTORNATION, AS NEEDED.

PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 PHONE (304) 842-4100 FAX: (304) 842-4102

ELI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER
OFFICE: (304) 842-4068 CELL (304) 476-9770

JON McEVERS - SVP OPERATIONS OFFICE: (303) 357-6799

AARON KUNZLER - CONSTRUCTION MANAGER

ROBERT EDDY - UTILITY COORDINATOR CELL (304) 719-5199

JIM WILSON - LAND AGENT OFFICE: (304) 842-4419 CELL (304) 671-2708

ENGINEER/SURVEYOR
NAVITUS ENGINEERING, INC
CYRUS S KUMP, PE - PROJECT
MANAGER/FORIINEER
OFFICE: (888) 662-4185 CELL: (540) 686-6747

ENVIRONMENTAL: KLEINFELDER

KLEINFELDER MATT ALHRIGHT - PROJECT MANAGER OFFICE (724) 772-7072 CELL (609) 947-5296

ARROW OVERLEN

OFFICE: (304) 842-4191

GEOTECHNICAL

PENNSTLASAL SOIL & ROCK. INC.

PENNSTLASAL SOIL & ROCK. INC.

GEOTECHNICAL

PENNSTLASAL SOIL & ROCK. INC.

OFFICE: (304) 842-4100

CELL (304) 627-7405

OFFICE: (412) 372-4000

CELL (412) 569-0662

- RESTRICTIONS NOTES:

 1. THERE ARE NO PERENNAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOT THERE IS ONE WETLAND WITHIN THE LOD THAT WILL NEED PERMITTED BY APPROPRIATE AGENCIES.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

REPRODUCTION NOTE

SE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) APER HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.

THERE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY RODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF MANTON AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES

HUSHER WELL PAD & WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

CLAY DISTRICT, RITCHIE COUNTY, WEST VIRGINIA BONDS CREEK WATERSHED

ELLENBORO & PENNSBORO USGS 7.5 QUAD MAP(S)



WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

DESIGN CERTIFICATION:
THE DRAWINGS, CONTRUCTION NOTES, AND
REFFERENCE LIGARMS: ATLACITED HERRITO HAVE
BEEN PREPARED IN ACCORDANCE WITH THE
WEST VIRGINAL CODE OF STATE RULES, DIVISION
OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL
AND GAS CISS. 33–8.



MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW!!

SHEET INDEX:

- HEET INDEX:

 COVER SHERT

 CONSTRUCTION AND EAS CONTROLS NOTES

 CONSTRUCTION AND EAS CONTROLS NOTES

 CONSTRUCTION AND EAS CONTROLS NOTES

 MATERIAL QUANTITIES

 ACCESS ROAD PLAN

 WELL PAD & STOCKPILE ROOT

 WELL PAD & STOCKPILE SECTIONS

 WELL PAD & STOCKPILE SECTIONS

 WELL PAD & STOCKPILE SECTIONS

 MATERIAL QUANTITIES

 MATERIA

HUSHER LIMITS OF DISTURBANCE A	
Access Road "A" (1,579')	6.43
Well Pad	9.66
Excess/Topsoil Material Stockpiles	4.04
Total Affected Area	20.13
Total Wooded Acres Disturbed	4.98
spects to Blouir Matthew S, Tanya K, Madeline K	Abrham A TM 24-24.1
Access Road "A"	0.51
Total Affected Area	0.51
Total Wooded Acres Disturbed	0.00
Impacts to County Route 50/3	9
Access Road "A" (16")	0.22
Total Affected Area	0.22
Total Wooded Acres Disturbed	0.00
Impacts to Blouir Matthew S. & Tanya K.	ay TM 24-5.4
Access Road "A" (144')	0.35
Total Affected Area	0.35
Total Wooded Acres Disturbed	0.00
Impacts to Richard E. & Mary L. Blouis	TM 24-5.1
Access Road "A" (125')	0.46
Total Affected Area	0.46
Total Wooded Acres Disturbed	0.02
Impacts to Richard E. & Mary L. Blou	r TM 24-6
Access Road "A" (1,294')	4.89
Well Pad	9.66
Excess/Topsoil Material Stockpiles	4.04
Total Affected Area	18.69
Total Wooded Acres Disturbed	4.96

_	109	I Wooded Acres	Distroed		4.00	
	HUSHER DITCH III			R FEET)		100000
	Perma	ment Impacts	Total	Temp. b	mpacts	The same
Stream and Impact Cause		Inlets/Outlets Structures (LF)	Permanent	Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	Impact (LF)
ASE District (Access Road)	0	0	0	296	0	296

HUSHER INTI		NTERMITTENTS	ITTENT STREAM IMPACT (LINEAR FEET)				
Permanent Impacts Total		Temp. Impacts					
Stream and Impact Cause	Culrent/ Fill (LF)	Inlets/Outlets Structures (LF)	Permanent Impact (LF)	Controls (LF)	Distance To LO.D. (LF)	Total Temp Impact (LF)	
ASE Stream06 (Access Road)	80	0	80	0	102	102	
ASE Stream12 (Well Ped)	131	0	131	27	9	36	

	Perma	nent Impacts	Total	Temp, k	npacts	200
Stream and Impact Cause		Inlets/Outlets Structures (LF)	Permanent	Coffertiami E&S Controls (LF)	Distance To LO.D. (LF)	Total Temp Impact (LF)
ASE Stream02 (Access Road)	0	0	0	0	57	57

Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	Total Impaci
ASE Wetand05 (Access Road)	4 004	4.004	0.092

Well Name	NAD 27	NAD 27 Lat & Long	(METERS) ZONE 17	NAD 83 Lat & Lon
		Pern	witted Location	
HUSHER	N 290073.08	LAT 39-17-11.0712	N 4348569.42	LAT 30-17-11.3564
UNIT 5V	E 1586334 93	LONG -81-01-17 5025	E 498153.99	LONG -81-01-17 0585
Proposed Wall I	Pad Elevation	1,006.0		

APPROVED WVDEP OOG 1/12/2024



REVISION	REVISED PER CLIENT REQUEST	REVISED PER UTILITIES	REVISED PER GEOTECH	REVISED PER CLENT REQUEST	
DATE	5202/02/40	07/28/2023	8202/12/60	10/26/2023	



HUSHER WELL PAD

DATE: 05/09/2023 CALE AS SHOWN

