

### 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

Tuesday, November 2, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for TRADER UNIT 2H

47-103-03460-00-00

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: TRADER ONIT 2H

Farm Name: ANTERO RESOURCES CORP

U.S. WELL NUMBER: 47-103-03460-00-00

Horizontal 6A New Drill Date Issued: 11/2/2021

API Number:	
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### **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.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	

### **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. 47-103 OPERATOR WELL NO. Trader Unit 2H
Well Pad Name: Journeyman Pad

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

1) Well Operato	or: Antero	Resources	Corpora	494507062	103-Wetzel	Green	Pine Grove 7.5"
	•		<del>_</del> _	Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number	<sub>r:</sub> Trader U	nit 2H	Well Pad	Name: Jour	neyman l	Pad /
3) Farm Name/	Surface Ow	ner: Antero Res	ources Corpo	Public Roa	d Access: Eig	ht Mile R	oad
4) Elevation, cu	irrent groun	d: <u>1,175'</u>	Ele	evation, proposed	post-constructi	on: 1,154	,!/
5) Well Type	(a) Gas Other	X	_ Oil <u>X</u> _	Unde	erground Storag	ge	
	(b)If Gas	Shallow	X	Deep			
		Horizontal	X				RECEIVED Office of Oil and Gas
6) Existing Pad	: Yes or No	No			<u>-</u>		SEP 27 2021
	•	. , .		pated Thickness a	•	• • •	W/ Donnet
-		·		ss- 55 feet, Associa	ileu Pressure- 2	2030#	Environmental Protection
8) Proposed To							
9) Formation at	Total Verti	ical Depth: [	Marcellu	IS ·			
10) Proposed T	otal Measu	red Depth:	14,400'				
11) Proposed H	lorizontal L	eg Length:	5,020.0'				
12) Approxima	te Fresh Wa	ater Strata De	pths:	52'			
13) Method to	Determine F	resh Water D	Depths: 1	03-00326, Depths h	ave been adjust	ted according	g to surface elevations
14) Approxima	te Saltwater	Depths: 1,6	642' (refe	rence well 103-0	0326)		
15) Approxima	te Coal Sea	m Depths: 9	60' (refe	erence well 10	3-30927)		
16) Approxima	te Depth to	Possible Void	d (coal mi	ne, karst, other):	None anticip	oated	
17) Does Propo directly overlyi				ns Yes	No	<u> </u>	
(a) If Yes, pro	vide Mine	Info: Name:					
		Depth	:				
		Seam:					
		Owner	r:				

API NO. 47-103 - 03460

OPERATOR WELL NO. Trader Unit 2H

Well Pad Name: Journeyman Pad

18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 70 Cu. Ft.
Fresh Water	13-3/8	New	J-55	54.5#	300'	300'	CTS, 271 Cu. Ft.
Coal	9-5/8	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2	New	P-110	23#	14400	14400	CTS, 3270 Cu. Ft.
Tubing	2-3/8	New	N-80	4.7#			
Liners							

Bryan Hann 9.29-21

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8	17-1/2"	0.380"	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	8-3/8"& 8-1/2"	0.415"	12,630	9300		
Tubing	2-3/8	4.778"	0.190"	11,200		Lond-H/TOZ & Tail-H	H/POZ-1.44 & H-1.8
Liners							
	_					RECE	17/20

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Office of Oil and Gas

OCT 4 2021

PACKERS

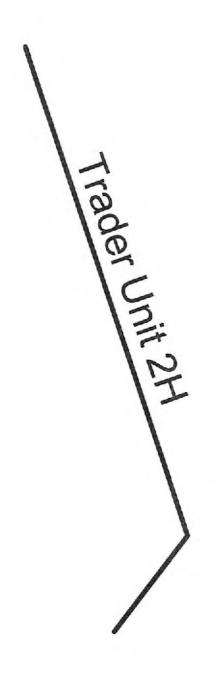
		 Environmental Protection
Kind:	N/A	Total (in the case)
Sizes:	N/A	
Depths Set:	N/A	

WW-6B (10/14)

OPERATOR WELL NO. Trader Unit 2H
Well Pad Name: Journeyman 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.
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): 33.53
22) Area to be disturbed for well pad only, less access road (acres): 7.3
23) Describe centralizer placement for each casing string:
Conductor: No centralizers. Surface Casing: One centralizer 10' above the float shoe and one every 4th joint spaced up the hole to surface. Intermediate Casing: One centralizer above float joint, one centralizer 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 Casing: Class A cement with 2-3% calcium chloride and 1/4 lb of flake.  Intermediate Casing: Class A cement with 1/4 lb of flake, 5 gallons of clay treat.  Production Casing Lead Cement: 50/50 Class H/POZ + 1.5% salt + 1% C-45 +0.5% C-16a + 0.2% C-12+0.45% C-20 + 0.05% C-51.  Production Casing Tail Cement: Class H + 45 PPS Calcium Carbonate + 1.0% Flake + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20.
25) Proposed borehole conditioning procedures:  RECEIVED Office of Oil and Ga
SEP 2.7 202
WV Department of Environmental Protect





4		Antero
Α	ntero Resou	rces Corporation
	Trader U	Init 2H - AOR
	0	1,000
	F	EET
		SYMBOLS ntinued Pad Location
	O Locat	ion Only
No V	Wells of Inferest RE	MARKS

September 13, 2021

11/05/2021



# Journeyman Pad

Trader Unit 1H
Trader Unit 2H
Ryland Unit 1H
Ryland Unit 2H
Ryland Unit 3H
Welder Unit 1H
Welder Unit 2H

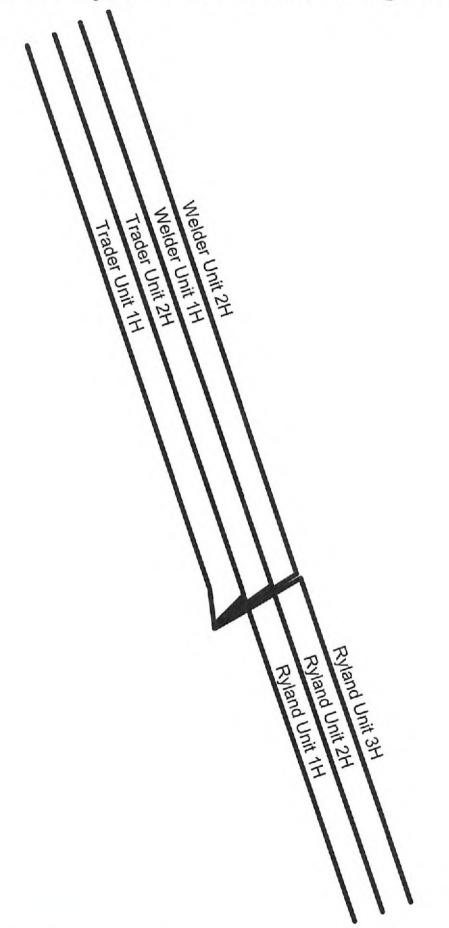


Updated: 8/13/2021

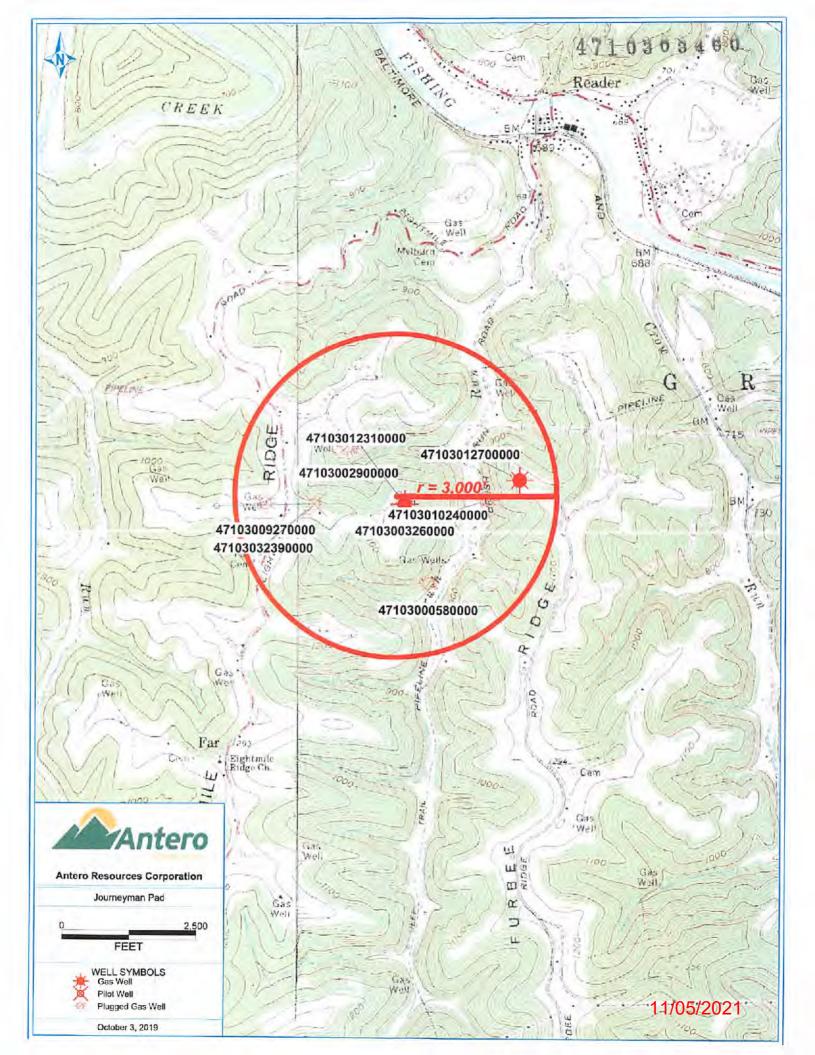
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Journeyman Pad - Lateral Diagram



11/05/2021



API Number 47 - 103

03460

Operator's Well No. Trader Unit 2H

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

### FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 4	194507062
Watershed (HUC 10) Fishing Creek Quadrangle Pine Grove 7.	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Y	
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 to	in tunks, Cuttings will be tanked and hauled 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:	
WV0109	a provided on Form WR-34  Viill Landfill Permit #SWF-1032-98)  stern Landfill Permit #SWF-1025/  1410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed of	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, et	Surface - Air/Freshwater, Intermediate - Dust/Stiff Form, Production - Water Based Mud C.
-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 tar	tks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	WA
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern L	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WA on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environment provisions of the permit are enforceable by law. Violations of any term or condition of the gelaw or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with application form and all attachments thereto and that, based on my inquiry of those individualizing the information, I believe that the information is true, accurate, and complete. I penalties for submitting false information, including the possibility of fine or imprisonment.	ntal Protection. I understand that the eneral permit and/or other applicable in the information submitted on this riduals immediately responsible for
Company Official Signature Gretchen Kohler	
Company Official (Typed Name) Gretchen Kohler	
Company Official Title Director of Environmental & Regulatory Compliance	
Subscribed and sworn before me this of september, 20	2
Milton ). Cochett // Notary	Public
My commission expires 8/30/2022	MILTON JAMAL LOCKETT JI MILTON JAMAL LOCKETT JI NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184034688

Form WW-9 Operator's Well No. Trader Unit 2H Antero Resources Corporation Proposed Revegetation Treatment: Acres Disturbed 33.53 acres Prevegetation pH Lime 2-4 Tons/acre or to correct to pH 6.5 Fertilizer type Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Access Road "A" (0.79 acres) + Access Road "B" (18.11 acres) + Access Road "C" (23.17 acres) + Well Pad (8.91 acres) + Water Containment Pad (4.76 acres) + Excess/Topsoil Material Stockpiles (21.94 acres) + Staging Area (4.06 acres) - 81.74 Acres Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Annual Ryegrass 40 Crownvetch 10 - 1540 Tall Fescue 30 Field Bromegrass See attached Table IV-3 for additional seed type (Ed YostDesign) See attached Table IV-4A for additional seed type (Ed Yost Pad Design) \*or type of grass seed requested by surface owner \*or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: RECEIVED Office of Oil and Gas WV Department of Environmental Protection

Field Reviewed?

### 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

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** 



911 Address 2718 Eight Mile Road Reader, WV 26167

Well Site Safety Plan

Active

Byan Ibaun

9-29-21

Well Name: RYLAND UNIT 1H, 2H, and 3H, TRADER UNIT 1H and

**Antero Resources** 

2H, and WELDER UNIT 1H and 2H

Pad Location: JOURNEYMAN PAD

Wetzel County/Green District

### **GPS Coordinates:**

Entrance - Lat 39.549741'/Long -80.750520' (NAD83) Pad Center - Lat 39.550329'/Long -80.743314' (NAD83)

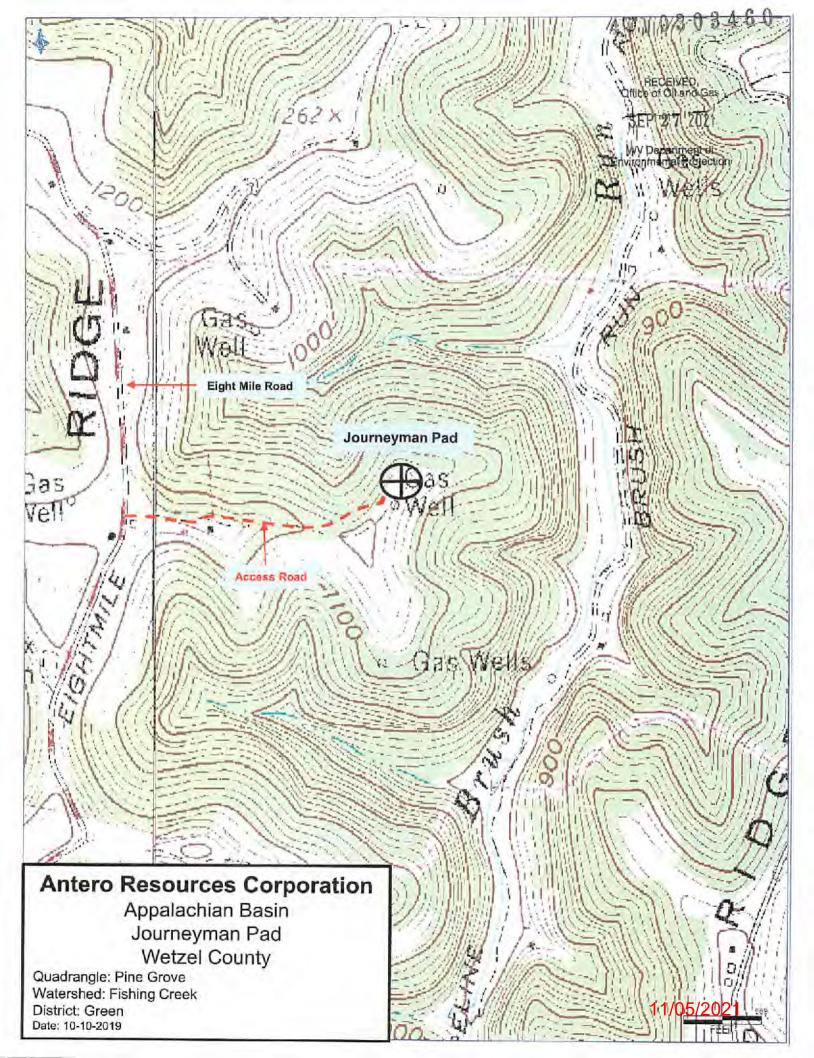
### **Driving Directions:**

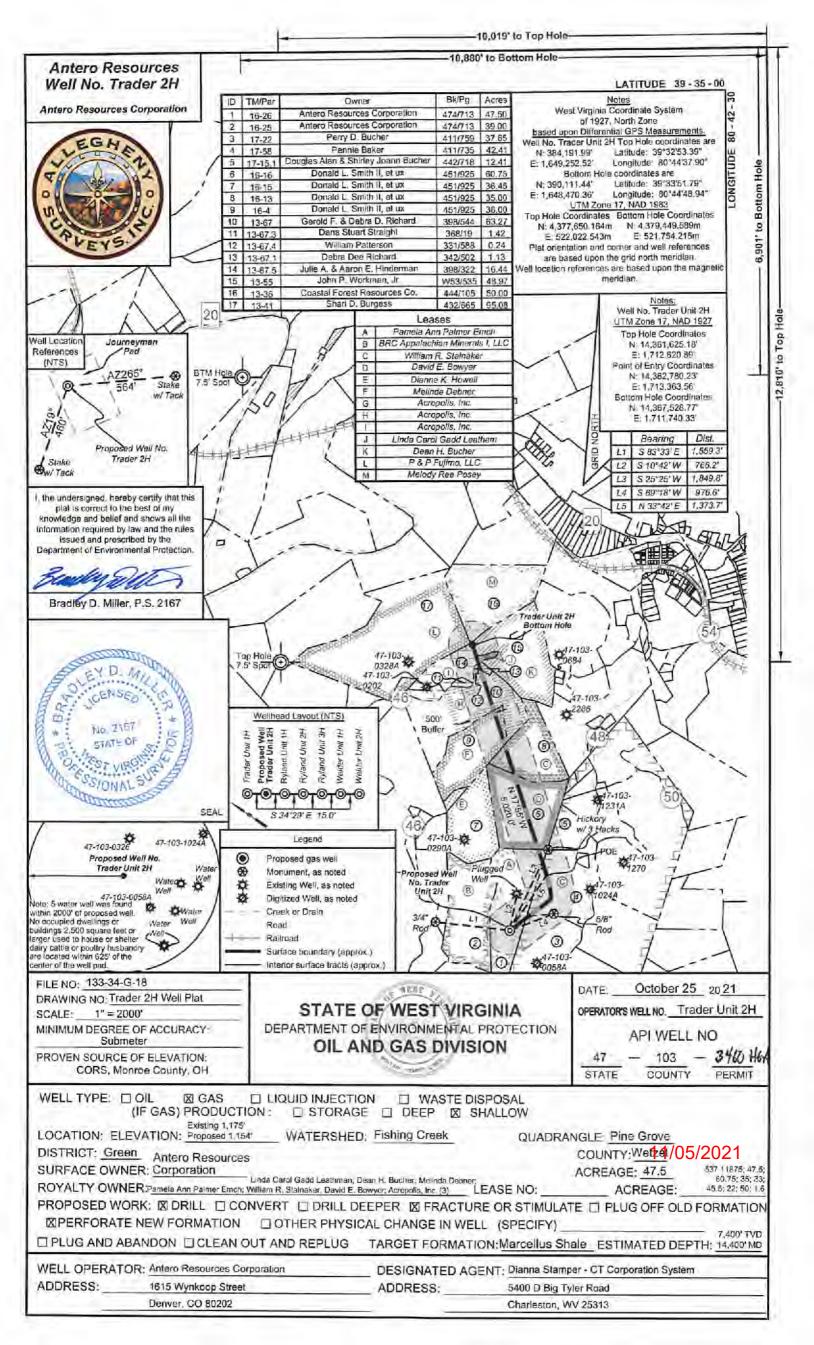
From Reader: Head northwest on Border Ln toward old Mexico Rd for 16 ft, Sharp left onto Co Rd 40/2 for 0.3 miles, Continue onto Eight Mile Rd for 2.3 miles, Access road will be on the left.

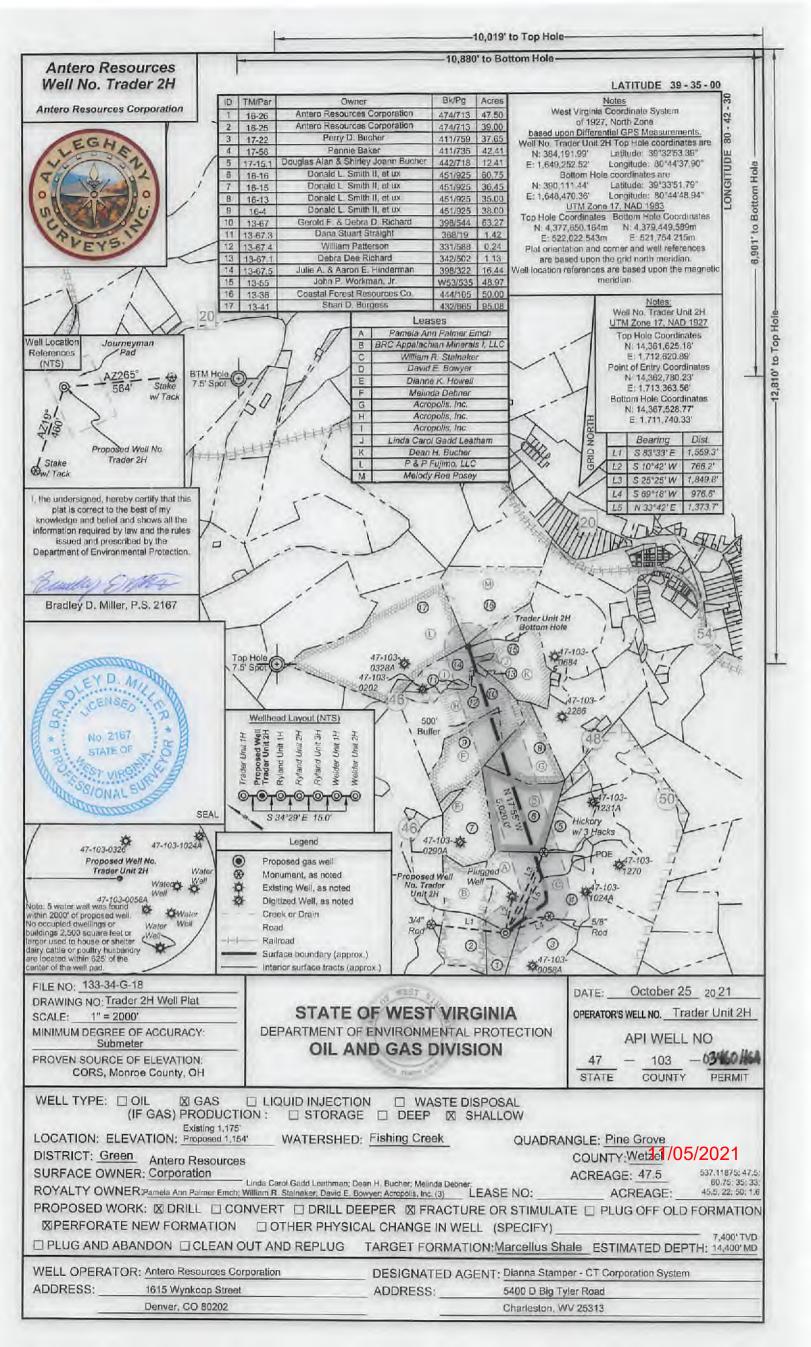
> RECEIVED Office of Oil and Gas

OCT 4 2021

From Middlebourne: Head northeast on WV-18 N/Main St Toward Court St/Document 4:3 miles, Turn right onto WV-180 N for 0.2 miles, Turn right onto Co Rd 11/6 for 0.4 miles, Continue onto Elk Fork Rd for 9.6 miles, Turn left onto Wetzel Tyler Ridge Rd for 0.6 miles, Continue onto Eight Mile Rd for 1.7 miles, Access road will be on the right.







Operator's Well Number

Trader Unit 2H

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

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

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

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
A	Pamala Ann Palmer Emch Lease Pamala Ann Palmer Emch Chesapeake Appalachia LLC SWN Production Company	Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties, Inc	1/8+ Assignment Assignment	129A/0350 157A/0540 177A/0533
	Antero Exchange Properties, Inc	Antero Resources Corporation	Merger	0013/0311
C	William R. Stalnaker Lease William R. Stalnaker	Antero Resources Corporation	1/8+	179A/0069
P	<u>David E. Bowyer Lease</u> David E. Bowyer	Antero Resources Corporation	1/8+	177A/0099
B	Acropolis Inc. Lease Acropolis Inc. Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	1/8+ Assignment	214A/0149 <b>215A/0930</b>
f	Melinda Debner Lease Melinda Debner	Antero Resources Corporation	1/8+	190A/0714
Н	Acropolis Inc. Lease Acropolis Inc.	Antero Resources Corporation	1/8+	179A/0358
I	Acropolis Inc. Lease Acropolis Inc.	Antero Resources Corporation	1/8+	179A/0370
7	<u>Linda Carol Gadd Leatham Lease</u> Linda Carol Gadd Leatham	Antero Resources Corporation	1/8+	239A/0394

Office of Oil and Gas

SEP 27 2021

WV Department of Environmental Protection

### 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)

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	Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
h	Dean H. Bucher				
		Dean H. Bucher	Antero Resources Corporation	1/8+	262A/0198

RECEIVED
Office of Oil and Gas

SEP **27** 2021

WV Department of Environmental Protection

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

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

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

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

Well Operator:	Vell Operator: Antero Resources/Corporation		
By:	Tim Rady	Ca- Verla	
Its:	VP of Land	\	



Antero Resources 1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7310 Fax: 303.357.7315

September 20, 2021

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

RE:

Ryland Unit 1H, 2H, and 3H, Trader Unit 1H and 2H, and Welder Unit 1H and 2H

Quadrangle: Pine Grove 7.5'

Wetzel County/Green District, West Virginia

#### Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permits for the Ryland Unit 1H, 2H, and 3H, Trader Unit 1H and 2H, and Welder Unit 1H and 2H horizontal shallow wells. As an authorized representative, I certify that Antero Resources Corporation has the right to extract, produce or market the oil or gas for all leases through which the horizontal laterals will drill through, including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Brett Kuhn Landman

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

<b>Date of Notice</b>	e Certification: 09/15/2021		<b>PI No. 47</b>		
				Well No. Trade	
		v	Vell Pad N	ame: Journe	yman Pad
Notice has b					
	e provisions in West Virginia Code §	22-6A, the Operator has provide	ded the req	uired parties v	vith the Notice Forms listed
	tract of land as follows:	_	_		
State:	West Virginia		Easting:	522022.543m	
County:	Wetzel	N	Northing:	4377650.164m	
District:	Green	Public Road Acces	-	Eight Mile Roa	
Ç	Pine Grove 7.5	Generally used farr	m name:	Antero Resour	ces Corporation
Watershed:	Fishing Creek				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shed the owners of the surface describequired by subsections (b) and (c), sec surface owner notice of entry to sur of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall te have been completed by the applicant	ed in subdivisions (1), (2) and ction sixteen of this article; (ii) every pursuant to subsection (a) this article were waived in wender proof of and certify to the	d (4), substhat the reconstraint of the thick the reconstraint of the thick	ection (b), sequirement was quirement was en of this artithe surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West
that the Oper	West Virginia Code § 22-6A, the Operator has properly served the required CK ALL THAT APPLY	erator has attached proof to this larties with the following:	s Notice Co	ertification	OOG OFFICE USE
TLEASE CHE	CK ALL THAT APPLY				ONLY
□ 1. NOТ	TCE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NOT	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY	Y WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFAC	CE OWNER	
■ 4. NOT	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUB	LIC NOTICE				☐ RECEIVED
■ 6. NOT	ICE 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.

### Certification of Notice is hereby given:

THEREFORE, I Diana Hoff

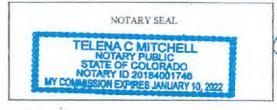
, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method 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 Address: 1615 Wynkoop Street

By: Diana Hoff Diana O. Hoff Denver, GO 80202

Its: Senior VP of Operations Facsimile: 303-357-7315

Telephone: 303-357-7310 Email: mhamsher@anteroresources.com



Subscribed and sworn before me this 17 day of Supember 200

Veluna C. Mithall

Notary Public

My Commission Expires //10/02003

### Oil and Gas Privacy Notice:

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

WW-6A (9-13) API NO. 47- 905 OPERATOR WELL NO. Trader Unit 2H
Well Pad Name: Journeyman Pad

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

Notic	ce Time Requirem	ient: notice shall b	e provided no later tha	n the filing date of permit application.	
	of Notice: 09/17/202 ce of:	Date Permit A	pplication Filed: 09/17	2021	
V	PERMIT FOR AN	у По	ERTIFICATE OF APP	ROVAL FOR THE	
_	WELL WORK			AN IMPOUNDMENT OR PIT	
Deliv	ery method purs	uant to West Virg	inia Code § 22-6A-10	(b)	
П	PERSONAL	☑ REGISTER	ер Пметно	OD OF DELIVERY THAT REQUIRES A	
ш	SERVICE			OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECEI	PT OR SIGNATURE CONFIRMATION	
oil and description of the control o	id gas leasehold behibed in the erosion attor or lessee, in the coal seams; (4) The work, if the surface undment or pit as do a water well, spring de water for consunused well work activition (b) of this sec ds of the sheriff requision of this article to R. § 35-8-5.7.a rec	ang developed by the and sediment control event the tract of late owners of record of tract is to be used for excribed in section reprised in section or water supply so aption by humans or ity is to take place, tion hold interests in uired to be maintain to the contrary, noticipuires, in part, that the	e proposed well work, if of plan submitted pursuand on which the well prof of the surface tract or tractor the placement, constraine of this article; (5) A arce located within one or domestic animals; and (c)(1) If more than three on the lands, the applicanted pursuant to section due to a lien holder is not the operator shall also prince to a possible of the property of the pursuant to section the operator shall also prince the submitted that the property of the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator shall also prince the pursuant to section the operator than the pursuant to section the	ted; (2) The owners of record of the surface tract or tracts overly the surface tract is to be used for roads or other land disturbance in to subsection (c), section seven of this article; (3) The coal owners of the best overlying the oil and gas leasehold being developed by the puction, enlargement, alteration, repair, removal or abandonment any surface owner or water purveyor who is known to the applications thousand five hundred feet of the center of the well pad which is (6) The operator of any natural gas storage field within which the tenants in common or other co-owners of interests described in at may serve the documents required upon the person described in the interest of the cone, chapter eleven-a of this code. (2) Notwithstand notice to a landowner, unless the lien holder is the landowner. Vervide the Well Site Safety Plan ("WSSP") to the surface owner as provided in section 15 of this rule.	e as wher, one or roposed of any ant to s used to he in the ling any W. Va.
☑ A <sub>j</sub>	oplication Notice	☑ WSSP Notice	☑E&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
⊴ SU	RFACE OWNER(	s)		COAL OWNER OR LESSEE	
Name				Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Addr	ess: 1322 Brush Run Roa	d		Address:	
	Reader, WV 26167	and trainer in			
Name		5 - 10 M / 10 M		COAL OPERATOR	
Addr	Denver, CO 80202			Name: NO DECLARATIONS ON RECORD WITH COUNTY	
2511		s) (Road and/or Ot	har Disturbance)	Address:	
Name		s) Road and/of Ot	ner Disturbance)	☐ WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,	
	ess: 1078 Bethany Pike	A		SPRING OR OTHER WATER SUPPLY SOURCE	
	Wellsburg, WV 25070	)		Name: PLEASE SEE ATTACHMENT	
Name	!			Address:	
Addr	ess:			The state of the s	
				OPERATOR OF ANY NATURAL GAS STORAGE FIE	LD
		s) (Impoundments		Name:	
Name				Address:	
Addr	ess:			*N	
				*Please attach additional forms if necessary	

API NO. 474099 1-030346 0
OPERATOR WELL NO. Trader Unit 2H
Well Pad Name; Journeymen Fed

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-ens/pages/default.aspx">www.dep.wv.gov/oil-and-ens/pages/default.aspx</a>,

#### Well Location Restrictions

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

WW-6A (8-13) API NO. 47-693 - 0 3460
OPERATOR WELL NO. Trader Unit 2H
Well Pad Name: Journeyman Pad

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

### Water Well Testing:

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

#### **Water Testing Laboratories:**

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

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

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

#### Written Comment:

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

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

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.

API NO. 47- 999 -

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OPERATOR WELL NO. Trader Unit 2H

Well Pad Name: Journeyman Pad

### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

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

### Permit Denial or Condition

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

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

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

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

WW-6A (8-13) API NO. 47- ST. C 3460
OPERATOR WELL NO. Trader Unit 2H
Well Pad Name: Journayman Pad

BT - 45		La a track hour		Lance
Notice	15	hereby	given	DV:

Well Operator: Antero Resources Corporation

Telephone: (304) 842-4153 Diana O. Hoff
Email: mstanton@enteroresources.com

Address: 1615 Wynkoop Street
Denver, CO 80202
Facsimile: 303-357-7315

### Oil and Gas Privacy Notice:

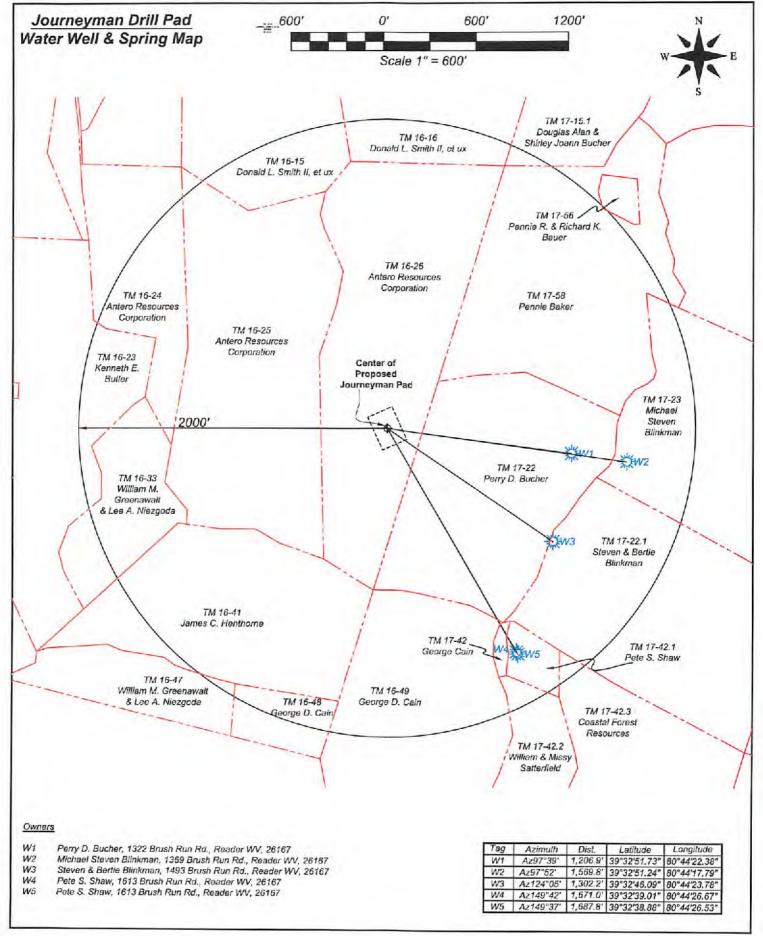
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

TELENA C MITCHELL
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20184001748
MY COMMISSION EXPIRES JANUARY 10, 2022

Subscribed and sworn before me this 17 day of 34, 22/.

Notary Public

My Commission Expires



#### WW-6A ATTACHMENT - RYLAND UNIT 1H

### WATER PURVEYORS/OWNERS OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE

Perry D. Bucher 1322 Brush Run Road Reader, WV 26167

Michael Steven Blinkman 1369 Brush Run Road Reader, WV 26167

Steven & Bertie Blinkman 1493 Brush Run Road Reader, WV 26167

Pete S. Shaw 1613 Brush Run Road Reader, WV 26167 WW-6A4 (1/12) 471 0303460
Operator Well No. \_\_\_\_\_

# 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			east TEN (10) days prior to filing it Application Filed: 09/20/2021	a permit application.
Delivery met	hod pursuant to	West Virginia Code § 22-	-6A-16(b)	
☐ HAND		ERTIFIED MAIL		
DELIVE		RETURN RECEIPT REQU	ESTED	
receipt request drilling a hor of this subsect subsection materials and if availab Notice is he Name: James K Address: 2061	sted or hand deliverizontal well: Provition as of the date by be waived in welle, facsimile numbers provided to Eastman II.  Windy Hill Drive	ery, give the surface owner vided, That notice given pu the notice was provided to riting by the surface owner	notice of its intent to enter upon ursuant to subsection (a), section to the surface owner: <i>Provided, he</i> . The notice, if required, shall in ress of the operator and the opera	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements ownever, That the notice requirements of this clude the name, address, telephone number, tor's authorized representative.
Mannington, WV			Reader, WV 26167	
Notice is he Pursuant to W the surface ov State: County:	reby given: Test Virginia Code oner's land for the West Virginia Wetzel	e § 22-6A-16(b), notice is purpose of drilling a horiz	hereby given that the undersigne contal well on the tract of land as  UTM NAD 83  Easting: Northing:	522054,00m 4377880.67m
Notice is he Pursuant to W the surface ov State: County: District:	reby given: /est Virginia Code vner's land for the West Virginia	e § 22-6A-16(b), notice is purpose of drilling a horiz	hereby given that the undersigne contal well on the tract of land as  UTM NAD 83  Basting: Northing: Public Road Access:	follows: 522054,00m 4377880.67m CR 46
Notice is he Pursuant to W the surface ov State: County:	reby given: Vest Virginia Code vner's land for the West Virginia Wetzel Green	e § 22-6A-16(b), notice is purpose of drilling a horiz	hereby given that the undersigne contal well on the tract of land as  UTM NAD 83  Easting: Northing:	follows: 522054.00m 4377880.67m
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile nun related to hor	reby given: //cst Virginia Code vner's land for the West Virginia Wetzel Green Pine Grove Fishing Creek  Shall Include: Vest Virginia Code ber and electron izontal drilling m	de § 22-6A-16(b), this notice mail address of the open	hereby given that the undersigne contal well on the tract of land as Easting: Northing: Public Road Access: Generally used farm name:  etice shall include the name, addrator and the operator's authoricecretary, at the WV Department	follows: 522054,00m 4377880.67m CR 46
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile nun related to hor located at 601	reby given:  Vest Virginia Code vner's land for the West Virginia  Wetzel  Green  Pine Grove  Fishing Creek  Shall Include: Vest Virginia Code ber and electron izontal drilling m 57th Street, SE, Coreby given by:	de § 22-6A-16(b), this notice mail address of the operation of the operation of the second of the se	hereby given that the undersigne contal well on the tract of land as Easting: Northing: Public Road Access: Generally used farm name:  etice shall include the name, addrator and the operator's authoricecretary, at the WV Department	follows: 522054.00m 4377880.67m CR 46 Pamela Ann Palmer Emch  dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters.
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile nun related to hor located at 601	reby given:  /est Virginia Code vner's land for the West Virginia  Wetzel  Green  Pine Grove  Fishing Creek  Shall Include: Vest Virginia Code ber and electron izontal drilling m 57th Street, SE, Co	de § 22-6A-16(b), this notice mail address of the operation of the operation of the second of the se	hereby given that the undersigne contal well on the tract of land as Easting: Northing: Public Road Access: Generally used farm name:  etice shall include the name, addrator and the operator's authoricecretary, at the WV Department	follows: 522054,00m 4377880.67m CR 46 Pamela Ann Palmer Emch  dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
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Notice is he Pursuant to Wathe surface over State: County: District: Quadrangle: Watershed:  This Notice Pursuant to Watershie number at 601 Notice is her Well Operator Address:	reby given:  Vest Virginia Code vner's land for the West Virginia  Wetzel  Green  Pine Grove  Fishing Creek  Shall Include: Vest Virginia Code ber and electron izontal drilling m 57th Street, SE, Co reby given by:  Antero Resources 1615 Wynkoop St. Denver, CO 80202	de § 22-6A-16(b), this notice mail address of the operation the Scharleston, WV 25304 (304)	hereby given that the undersigner contal well on the tract of land as Easting:  Northing: Public Road Access: Generally used farm name:  otice shall include the name, aderator and the operator's authorized recretary, at the WV Department 4-926-0450) or by visiting www.c.  Authorized Representative Address:	follows: 522054,00m 4377880.67m CR 46 Pamela Ann Palmer Emch  dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.  Talana Mitchell 1615 Wynkoop St. Denver, CO 80202

### Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Notice Time Date of Notic	Requirement: notice shall be		o later than the filing pplication Filed: 09/21		application.
Delivery met	hod pursuant to West Virgi	nia Code §	22-6A-16(c)		
	FIED MAIL RN RECEIPT REQUESTED		HAND DELIVERY		
return receipt the planned or required to be drilling of a damages to the	requested or hand delivery, goperation. The notice require provided by subsection (b), shorizontal well; and (3) A proper surface affected by oil and	ive the surfact by this section ten or oposed surfaces operation	ace owner whose land ubsection shall inclu- of this article to a surf- ace use and compens are to the extent the da	I will be used for de: (1) A copy ace owner whose ation agreement amages 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 SURFA s listed in the records of the s				
	Bucher	Term de the	Name:	Antero Resources C	corporation
Address: 1322				: 1615 Wynkoop Stree	et
	er, WV 26167			Denver, CO 80202	
State: County: District:	the surface owner's land for t West Virginia Wetzel Green	ne purpose	UTM NAD 8 Public Road	Easting: Northing:	522,022m 4,377,650m Eight Mie Road
Quadrangle:	Pine Grove 7.5		Generally use	ed farm name:	Antero Resources Corporation
Watershed:	Fishing Creek				
Pursuant to V to be provide horizontal was surface affect information to	ed by W. Va. Code § 22-6A ell; and (3) A proposed surfac- ted by oil and gas operations related to horizontal drilling located at 601 57 <sup>th</sup> Street,	-10(b) to a e use and co to the exter may be obta	surface owner whose ompensation agreement the damages are continued from the Secret	e land will be on nt containing ar compensable und cary, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-department">www.dep.wv.gov/oil-and-department</a>
Well Operato	T: Antero Resources Corporation		Address:	1615 Wynkoop Street	
Telephone:	304-842-4153			Denver, CO 80202	
Email:	mhamsher@anterpresources.com		Facsimile:		
	Privacy Notice:  f Oil and Gas processes your page 1	personal info	ormation, such as nam	e, address and	telephone number, as part of our regulatory

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

RECEIVED Office of Oil and Gas

SEP 27 2021

WV Department of Environmental Protection 11/05/2021



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

August 13, 2021

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

Subject: DOH Permit for the Journeyman Pad, Wetzel County Trader Unit 2H Well Site

Dear Mr. Martin,

Byrd E. White, III Secretary of Transportation/

Commissioner of Highways

This well site will be accessed from a DOH permit #04-2019-0549 which has been issued to Antero Resources for access to the State Road for a well site located off Wetzel County Route 46 SLS MP 2.33.

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

any K. Clayton

Cc: Mallory Stanton Antero Resources CH, OM, D-6

File

Office of Oil and Gas SEP 27 2021

RECEIVED

WV Department of Environmental Protection

# List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamthylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

LOCATION COORDINATES:
ACCESE ROAD "A" ENTRANCE
LATTUDE 39.546714 LONGITUDE -00.750506 (NAD 85)
LATTUDE 39.546614 LONGITUDE -00.750506 (NAD 87)
A 4377631.48 E \$524.47 (UM 80%) IT METERS

EX. ACCESS SOAD ENTRANCE
LATITUDE: 39.506587 LONGITUDE -60.750447 (NAD 63)
LATITUDE: 39.50657 LONGITUDE -60.750624 (NAD 63)
N. 4077780.40 E 521440 81 (NTW 20NE 17 WEIERS)

CENTER OF TANK
LATITUDE 09.549002 LONGITUDE -80.744902 (NAD 83)
ENTITUDE 09.549401 LONGITUDE -80.744906 (NAD 27)
N 4377792.02 K 321907.93 (LTM 20NE 17 METERS)

CENTROLL OF PAC LATITUDE: 30.548296 LONGITUDE: -80.743674 (NAB 83) LATITUDE: 30.548216 LONGITUDE: -80.743651 (NAD 87) M 4377655.80 E 522023 41 (UTM ZONE 17 MUTTERS)

FLOODFLAIN NOTES: THE RESPONDED IN PLOOD ZONES TO FER FEMA MAP NUMBER #5410000175C A #5410000175 PROPERTY.

GENERAL DESCRIPTION:

THE ACCESS HOADEST WATER CONTAINMENT FAD, AND WELL PAD ARK BEING CONSTRUCTED TO ARE IN-THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

APPROVED

WVDEP OOG

10/27/2021

MINIS UTILITY STATEMENT.

AND REMAINS CHAPTER SEPACHMENT WILL HOUSE WHE UTILITY OF WHIT VIRIGINA FOR THE LOCATING OF UTILITIES FROM TO THIS FRANKT ERROR HORST AUTHORISES. HE ADDITION, WAS UTILITY WILL BE CONTACTED BY THE CONTACTED BY HER CONTACTED BY THE PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHVENT FERVIT (FORM MM-100) FROM THE WEST VINCINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL. NOTES:
STIEMA ME VERTAND DELIMINATIONS WERE PREFORMED IN MAY, 2010 BY TRITIA TECH, INC. TO ENVIRON
THE SITE FOR WARRISH AND VERLIGHADE THAT ARE MOST LIBRAY WITHIN THE RECOLATION PLAYING OF THE
U.S. ARMY COURSE OF ENCLOSES (UMAZZ) AND/OR THE VEST VERDING THE RECOLATION PLAYING OF THE
U.S. ARMY COURSE OF THE COU

CEOTECHNICAL NOTES:
A SUBSURFACE DIVIDINGATION OF THE PROPOSED SITE WAS PERFORMED BY PEONETIVANA SOIL &
BOCK, DISC ON RULY 19-74, 2012. THE REFORT PROPAGED BY PEONETIVANIA SOIL &
BOCK, DISC ON RULY 19-74, 2012. THE REFORT PROPAGED BY PEONETIVANIA SOIL &
BOCK INC.
BURSURFACE REVASIFICATION. THE INFORMATION MOD RECONCIDENTATION CONTRIBED BY THIS REPORT
WITE UND IN THE PREPARATION OF THESE PLANS. FILENCE TRYEE TO THE GUILLIER PARE
DIVISIONATION REPORT BY PEONETIVANIA SOIL & BOCK, DISC, FOR ADDITIONAL INFORMATION, AS
NEEDED.

EGBERT EDDY - UTILITY COORDINATOR CELL: (334) 719-5199

OFFICE (688) 682-4185 CELL (540) 686-6747

WARM HUTSON - LAND AGENY CELL (904) 609-8315

ENVIRONMENTAL.

#### PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES CORPORATION 035 WHITE OARS BLUE. BRIDGEPORT, WY 26230 PHONE: (304) 842-4100 FAC (304) 842-4100

EL MAGGINER - ENTHONIENTAL ENGINEER & ENGINEER/SUBVEYOR.
REQUIATORY MANAGER
GEFFICE: (364) 642-4666 CELL: (364) 476-8770 (NYITS ENGINEER/SUBVEYOR.
RAMAGERI FORBERT
MANAGERI FORBERT
MANAGERI FORBERT

DIANA HOFF - SVF OPERATIONS OFFICE (303) 257-6904

HENRY SCHUMACHER MANAGER ROBERT WIRKS - DESIGN MANAGER OFFICE: (304) 842-4100 CELL: (304) 827-7405 DFFICE (412) D25 7000 CHLL (422) 657-8148

RESTRICTIONS NOTES:
1. THERE ARE NO PERSONAL STREAMS, WETLANDS, LAKES, FONDS, OR RESERVORS WITHIN 100 FEET OF THE WILL PAD AND LOD

2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 500 FEET OF THE WELL PAR AND

2. THERE ARE NO GROUNDWATER INTAXE OR PUBLIC WATER SUPPLY PACIFITIES WITHIN 1000 FELT OF THE WELL PAD AND LOD

THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLES) BEING DRILLED.

THERE ARE NO OCCUPIED DARLLING STRUCTURES WITHIN 605 FEET OF THE CENTER OF THE WELL PAD.

THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2.530 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WILL FAD.

DESIGN CERTIFICATION:
THE DARWING CONTINUED NOTES AND REFERENCE DIADRAMS ATTACHED HERITO HAVE BEEN FIRE AND ACCORDANCE WHE THE WEST VIECDOM CODE OF STATE FULLS, DIVISION OF SUMMANUSCLE PROTECTION, OFFICE OF OIL AND GAS CEST STATE FULLS, DIVISION OF

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

GREEN DISTRICT, WETZEL COUNTY, WEST VIRGINIA LOWER FISHING CREEK & UPPER FISHING CREEK WATERSHED

USGS 7.5 PORTERS FALLS & PINE GROVE QUAD MAP



WEST VIRGINIA COUNTY MAP



REPRODUCTION NOTE

THESE PLANS WERE CHEATED TO BE TLOTTED ON 22"YSH" (ANSI II) FAFER.

WVDOH COUNTY ROAD MAP

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!!

SONO

N.

- COVER SHEET
- CONSTRUCTION AND EAS CONTROLS NOTES

1 - COVER SHEAT
1 - COVER SHEAT
2 - COVER SHEAT
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5 - STORN TRAINER & THA COMPUTATIONS
5 - STORN TRAINER & THA COMPUTATIONS
6 - STORN TRAINER & THA COURSE
6 - COVERNIA LIVES
6 - FRATURES
7 - STORN LIVES SHEAT DEBTS & YOUNGE
9 - ACCESS BOAD & STOCKPILE PLAN
12 - WATER CONTAINERS THAN SHOOTH PLAN
13 - MATTER CONTAINERS THAN SHOOTH PLAN
14 - MATTER CONTAINERS THAN SHOOTH PLAN
16 - WALL PLAN CHARTER CONTAINERS
16 - WALL PLAN EXCHANGES
17 - WELL PLAN EXCHANGES
18 - WATER CONTAINERS THAN SHOOTH PLAN
19 - WATER CONTAINERS THAN SHOOTH PLAN
19 - STORN S

19 - STOCKTHE & STATUBLE AND SECTIONS: 23-27 - COUNTRYLLION PETALS: 23 - ACCESS BOAD & STOCKTHE ERCLANATION FLAN 23 - WELF DAD & WATHE CONTAINMENT FAD RECLAMATION FLAN 33 - WATER CONTAINMENT FAD & STOCKFHE ERCLAMATION FLAN 62600-01639 - CEDITIONICAL DITAILS:

JOURNEYMAN LIMITS OF DISTURBANCE	AREA (AC)
Total Site	
Access Road "A" (1,833')	8.47
Access Read "B" (405)	1,40
Access Road "C" (211)	0.75
Staping Area	5.95
WelPed	7.30
Water Containment Pad	185
Excess/Topsoi Material Stockpiles	7.81
Total Affected Area	22,53
Total Wooded Acres Disturbed	24.45
Impacts to Kenneth Eric Sutier & Kenneth E.	
Access Road "A"	1.54
Excess/Topsoi Material Stockpiles	1.00
Total Affected Area	2.64
Total Wooded Acres Disturbed	150
Impacts to Antero Resources Corp. T	M18-24
Access Road "A"	235
Excess/Topsoil Material Stockpiles	1.42
Total Affected Area	3.77
Total Wooded Acres Disturbed	2.48
Impacts to Antero Resources Corp. T	M 16-25
Access Road "A"	1 221
Access Road "8"	D14
Excess/Topsoil Visterial Stockpiles	3.25
Total Affected Area	6,60
Total Wooded Agres Disturbed	3.52
Impacts to Antere Resources Corp. 1	M18.25
Access Road "A"	1.37
Access Road "B"	1.26
Access Road "C"	0.75
Staping A/ea	5.95
Well Pad	5.21
Water Containment Parl	1.85
Excess/Topsoii Material Stockpiles	2.14
Total Affected Area	19.53
Total Wooded Acres Discused	15.76
Impacts to Perry D. Bucher TM 17	
WellPag	1.09
Total Affected Area	1.03
Total Wooded Agres Disturbed	1.09

VARNET	WAD IT	NAD 37 Lat & Long	ZONE ST	NAD SI LIN & LONG			
		Parmir	to il Location				
Teader	H 38G04.35	LAT 39-12-53 5151	N +3177553 EB	LAT 19-32-45 8033			
UMIT 1H	E 1545244 02	LONG-60-44-36 0130	E 922010 88	LIONG-4844-37,3749			
Trader	H 364101.59	LAT 20-22-63,3941	N 4377520.17	LAT 39-32-63 (822)			
UNIT 2H	E 1545252.52	LDHG -60-44-37 6024	E 522022 54	LCNG 40-44-07-2514			
RMANE	N 2041 79 E3	LAT IN EDIES JUST	N-437/2045 44	LAT 19-12-55 5012			
UNIT TH	E 1549291.01	LONG-60-44-37 7916	E 522525 16	LCNG -80-14-37,1526			
Ryland	N 304167 27	LAT 39:03-81 1016	N 437794172	EAT 25-32-05 4403			
UNIT 2H	E 15492/11/51	LONG-80-M-ST (M/C	E 522527 84	UONS 4844-17 M22			
Ryland	14 30415-1 90	LAT 39-50-53 (5516)	F4.4377936.69	LAT 29-32-53 2192			
UNIT 3H	E 1041275 02	1.0143-8044-37 5705	E 302000 AV	ECONO -40-44-26 9010			
Welchir	N 384142.54	EAT 39-12-52-9100	N #3F7536.37	LAT 99-12-53 1992			
UNIT 1H	E 1549296 45	LDN43-60-44-37 #500	E 822002.14	LENG-80-44-35.5210			
Welchir	ri 384138.17	UAT 29-32/82 7800	N 41FF611 55	LAT 59-32-53 ETT2			
UNIT 24	E 1040294 09	1,040 40-44-37 3453	6 102/035 FB	ECRG-884436 7104			
Journeymen A	N 354906.97	LAT 09-53-01 3063	N-43F7866,15	LAT 25-AD-01 6500			
UNIT SH (Permitted)	E 104948676	CHG 4044-35 SUT	6 522081 FS	LCRO #044-04 7537			
Proposed Wall Pa	Elevation	1.051.0					

	Perma	nent Impacts	Temp, bypacts	WARRY LAND
Stream and Impact Cause		Simpleres (LF)	Controls (LF)	(LF)
Tet, StreamO1 (Stockpile 'A')	0	0	25	25
Tet Steam23 (Access Road "A")	0.2	21	13	115
Tet Steam22 (Access Road "A")	0	0	10	10

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PODO REVISED FOR STATUS AREA VACA REVISED FOR STATUS AREA VACA REVISED FOR STATUS	PAN PAN	31	REVISION
PAN	PAN PAN	/2020	REMBERS ACCESS ROAD "A"
PA	MA MA	7202	REVISED PER STAGISE AREA
5	5	1202/	REVISED PER WELL PAB MOVE
		1202/	Ě
		Y	



THES DOCUMENT WAS PREPARED FOR ANYBED RESDURCES CORPORATION

PAD

JOURNEYMAN
AD & WATER CONTAINMENT P. WATER CREEN D COVER PAD&



WELL

DATE: 10/12/2020 SCALE AS SHOWN SHEET I OF 30

