

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, March 21, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for CLUTTER UNIT 2H 47-095-02782-00-00

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: CLUTTER UNIT 2H

Farm Name: ELDON J & RUTH A HELMAN

U.S. WELL NUMBER: 47-095-02782-00-00

Horizontal 6A New Drill Date Issued: 3/21/2022

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.
- 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.
- 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, constitution 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.

Well Pad Name: Eldon	Dad
OPERATOR WELL NO.	Clutter Unit 2H
API NO. 47-095	

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

1) Well Operato	or: Antero Res	ources Corpora	494507062	095 - Tyler	Ellsworth	Middlebourne 7.5'
× 0.19 5 € 3150			Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number: Clu	utter Unit 2H	Well Pa	ad Name: Eldo	n Pad	
3) Farm Name/	Surface Owner:	Eldon J. & Ruth A I	Helman Public Ro	ad Access: Alle	en Run Rd	
4) Elevation, cu	irrent ground:	880' as built E	levation, proposed	l post-construct	ion:	
5) Well Type	(a) Gas X Other	Oil _	Une	derground Stora	ige	
	(b)If Gas Sha	llow X	Deep			4
6) Existing Pad	Hora: Yes or No Yes	rizontal X				ges
	Name of the second second		cipated Thickness ess- 55 feet, Assoc			3 21 22
8) Proposed To	tal Vertical Dept	h: 6400' TVD				V
9) Formation at	Total Vertical D	epth: Marcellu	S			
10) Proposed T	otal Measured D	epth: 12,900'				✓
11) Proposed H	orizontal Leg Le	ength: 4854.9'				J
12) Approxima	te Fresh Water S	trata Depths:	156'			V
	Determine Fresh te Saltwater Dep		47095009120000 Offset w	ell records. Depths hav	e been adjusted a	according to surface elevations.
15) Approxima	te Coal Seam De	pths: None Ant	icipated			
16) Approxima	te Depth to Poss	ible Void (coal m	ine, karst, other):	None Anticipa	ated	
The second secon	sed well location ng or adjacent to	n contain coal sea an active mine?	Yes	N	o <u>X</u>	
(a) If Yes, pro	vide Mine Info:	Name:				
		Depth:				
		Seam:				
		Owner:				

OPERATOR WELL NO. Clutter Unit 2H

Well Pad Name: Eldon Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	H-40	79#	80'	80' 🗸	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	300'	300' 🗸	CTS, 313Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500' 🗸	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	12,900'	12,900' 🗸	CTS, 2320 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

gers 122

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	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	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	

API NO. 47- 095	
OPERATOR W	ELL NO. Clutter Unit 2H
Well Pad Nar	ne: Eldon 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): 35.04 acres

22) Area to be disturbed for well pad only, less access road (acres): 12.65 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.

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

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

25) Proposed borehole conditioning procedures:

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

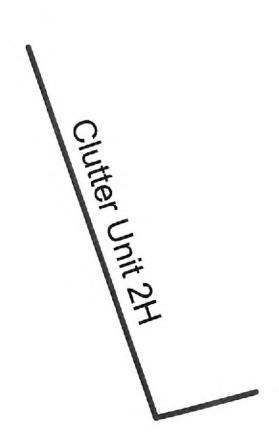
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

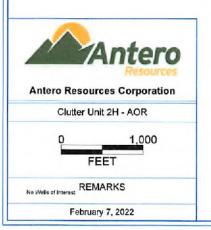
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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

^{*}Note: Attach additional sheets as needed.







API Number 47	-	095	4.
Operato	770	Well	No. Chiller Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) Outlet Middle Island Creek	Quadrangle Middlebourne 7.5
Do you anticipate using more than 5,000 bbls of water to com Will a pit be used? Yes No	plete the proposed well work? Yes V No No
If so, please describe anticipated pit waste: No pit will be	e 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	
	nit Number_*UIC Permit # will be provided on Form WR-34
	ted well locations when applicable. API# will be provided on Form WR-34 W-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	Wetzel County Landfill (Permit #SWF-1021)
	ntal)? Air, freshwater, oil based, etc. Surface - Air/Freshwater, Intermediate - Dust/ Stiff Foam, Production - Water Based Mud or Synthetic Based Mud
-If oil based, what type? Synthetic, petroleum, etc.	Synthetic
Additives to be used in drilling medium? Please See Attachme	int
Drill cuttings disposal method? Leave in pit, landfill, remove	d offsite, etcDrill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will b	C. 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
-Landfill or offsite name/permit number? Meadowfill La Wetzel Cou	andfill (Permit #SWF-1032-98), Northwestern Landfill (Permit #SWF-1025/WV0109410) unty Landfill (Permit #SWF-1021)
	Gas of any load of drill cuttings or associated waste rejected at any and within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, bas	I conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this sed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment.
Company Official (Typed Name) Gretchen Kohler	
Company Official Title Director, Environmental and Regulatory	y Compliance
Subscribed and sworn before me this \Quad day of	To 1- 20.74
Subscribed and sworn before the this 10 day of	Notan Public DIANE BLAIR
My commission expires 27 Apr	Notary Public NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPLOSE PROPERTY ID 19994011871

Proposed Revegetation Treatmen	t: Acres Disturbed 35.04	acres Prevegetation pl	I	
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/ac			
Access Road "A" (7.28 acres) + Access Ro = 35.04 Total Affected Acres	ad "B" (5.21 acres) + Staging area (0.83	acres) + Well Pad (12.65 acres) + Excess/To	psoil Material Stockpiles (9.07 acres	
	Seed	Mixtures		
Tempo	orary	Perma	nent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Annual Ryegrass	40	Crownvetch	10-15	
Field Bromegrass	40	Tall Fescue	30	
See attached Table IV-3 for additional s	see type, (Page 33 Eldon Pad Design)	See attached Table IV-4 for additional s	eed type (Page 33 Eldon Pad Desig	
		*or type of grass seed requested by surface owner		
	I proposed area for land applica vill be land applied, include din urea.	*or type of grass seed requeste tion (unless engineered plans inclu- nensions (L x W x D) of the pit, and	ding this info have been	
Attach: Maps(s) of road, location, pit and provided). If water from the pit v acreage, of the land application a Photocopied section of involved	d proposed area for land applica vill be land applied, include din area. 7.5' topographic sheet.	tion (unless engineered plans inclu-	ding this info have been	
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Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets – LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

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 3830 Next Road Sistersville, WV 26175

Well Site Safety Plan **Antero Resources**

Eldon Unit 5H, Clutter Unit 1H & 2H, Folger Unit 1H-3H Well Name:

and Phaeton Unit 1H

Pad Location: Eldon Pad

Tyler County/Ellsworth District

GPS Coordinates:

Entrance - Lat 39.499696"/Long -80.953800" (NAD83)

Pad Center - Lat 39.493588"/Long -80.956985" (NAD83)

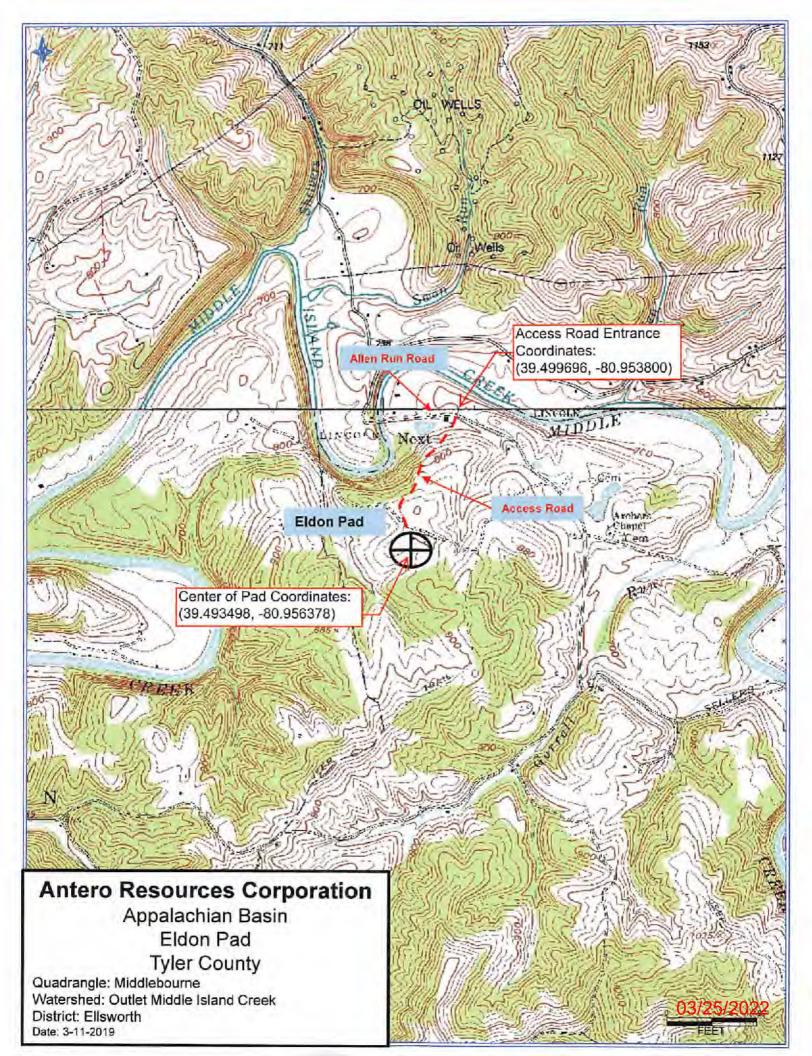
Driving Directions:

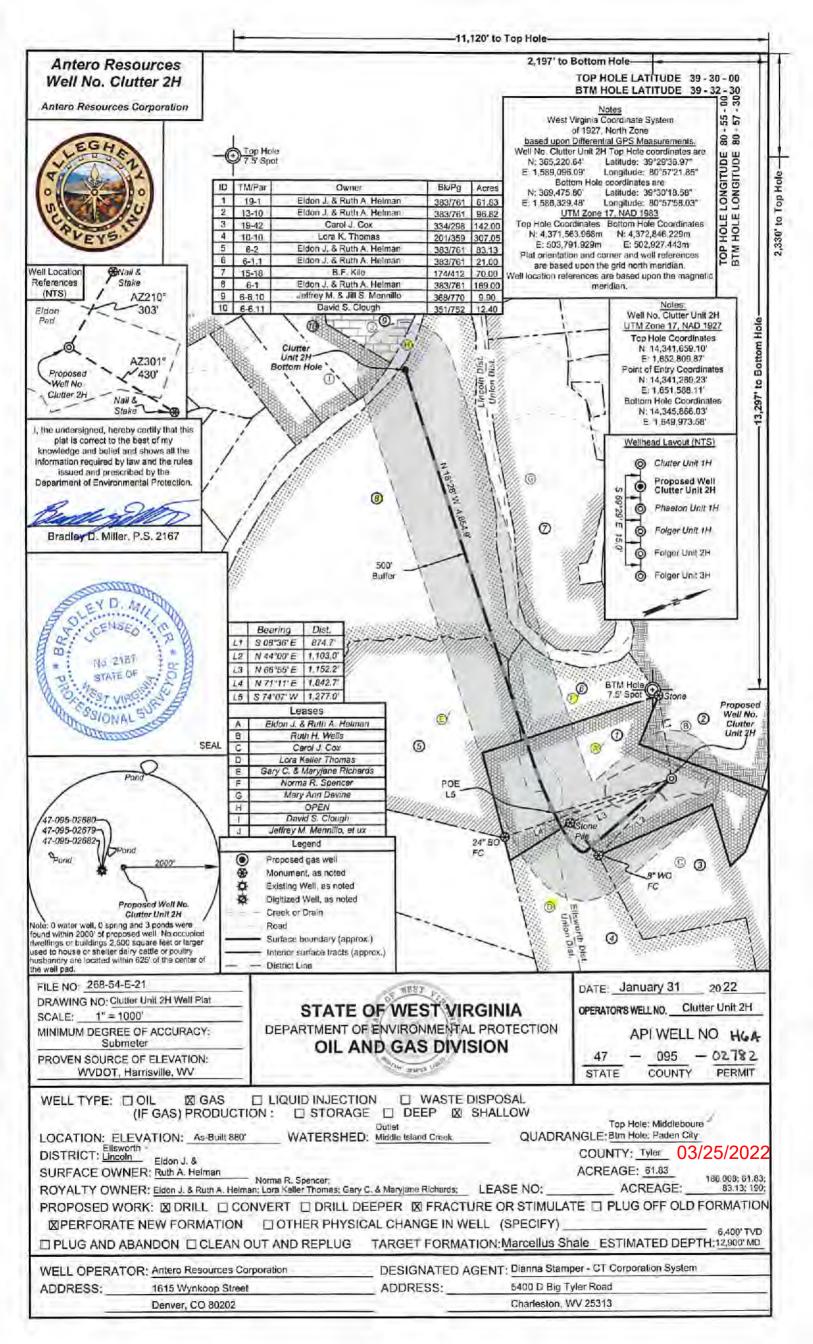
From the intersection of Broad St and Main St in the town of Middlebourne, head northeast on WV-18 N/ Main St toward Wetzel Ave for 0.7 miles. Turn left onto Co Rd 2/4 for 164 ft. Continue onto Sellers Rd for 400 ft. Turn left to stay on Sellers Rd for 3.4 miles. Turn right onto Allen Run Rd/Pleasant Ridge Rd for 1.1 miles. Access road will be on your left.

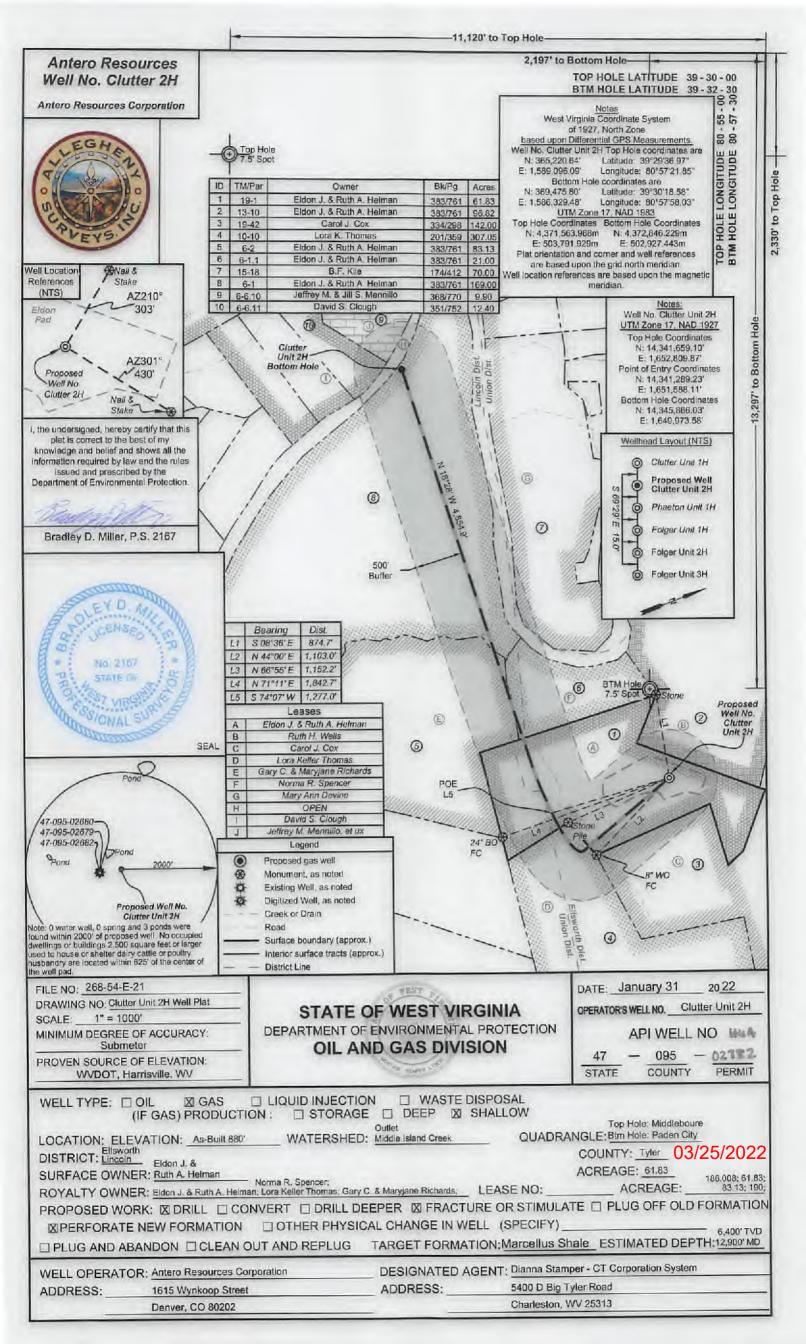
Alternate Route:

From the United States Postal Service in Sistersville, head southeast on Elizabeth St toward Chelsea St for 194 ft. Elizabeth St turns right and becomes WV-2 S/Chelsea St for 1.0 mile. Continue straight onto WV-18 S for 3.0 miles. Turn right onto Co Rd 10 for 1.7 miles. Continue onto Next Rd/Shriver Run Rd for 1.6 miles. Turn right onto Allen Run Rd/Next Rd/Pleasant Ridge Rd for 0.5 mile. Turn right for 0.4 mile. Access road will be on your left.

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







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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
A: Eldon J. and Ruth A. Helman Lease			
Eldon J. and Ruth A. Helman	Antero Resources Corporation	1/8+	0427/0610
D: Lora Keller Thomas Lease			
Lora Keller Thomas	Antero Resources Corporation	1/8+	0062/0581
A: Eldon J. and Ruth A. Helman Lease			
Eldon J. and Ruth A. Helman	Antero Resources Corporation	1/8+	0427/0610
F: Norma R. Spencer Lease			
Norma R. Spencer, Trustee of the Allan P. Spencer Living Trust	Antero Resources Corporation	1/8+	0564/0428
E: Gary C. and Maryjane Richards Lease			
Gary C. Richards, et ux	Antero Resources Corporation	1/8+	0505/0680

Non-well bore tracks

B - Ruth H. Wells

C - Carol J. Cox

H - Open

I - David S. Clough

J - Jefferry M. Mennilo, et ux

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

RECEIVED
Office of Oil and Gas

MAR 1 8 2022

WV Department of Environmental Protection WW-6A1 (5/13)

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

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γ	Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
F	Norma R. Spencer Lease				
• •		Norma R. Spencer, Trustee of the			
		Allan P. Spencer Living Trust	Antero Resources Corporation	1/8+	0564/0428

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

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

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

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

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

Well Operator:	Antero Resourc	es Corporation
By:	Tim Rady	(m led
Its:	VP of Land	



February 8, 2022

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

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

RE:

Clutter Unit 2H

Quadrangle: Middlebourne 7.5'

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Clutter Unit 2H 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 Clutter Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Adams Landman

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

Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows: State: West Virginia UTM NAD 83	Date of Notic	ce Certification: 02/09/2022		o. 47- <u>095</u>	
Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms lister below for the tract of land as follows: State:					
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows: State: West Virginia			Well P	ad Name: Eldon P	ad
below for the tract of land as follows: State: Went Vriginia Viver	Notice has b	been given:			
State:			22-6A, the Operator has provided th	e required parties v	vith the Notice Forms listed
County: Tyler District: Elloworth Ello			Fastin	502704 02	
District: Elisworth Modebourne 7.5 Modebourne 7.5 Generally used farm name: Elidon J. Helman, etux					
Quadrangle: Watershed: Outlet Middle Island Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a resu of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notic requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to We Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section to of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED Or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION 5. PUBLIC NOTICE 5. PUBLIC NOTICE				•	
Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, it information required by subsections (b) and (c), section sixteen of this article, (ii) that the requirement was deemed satisfied as a resu of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notic requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to We Virginia Code § 22-6A-1(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section te of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: **PLEASE CHECK ALL THAT APPLY* 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR RECEIVED 4. NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED 3. NOTICE OF PLANNED OPERATION 4. NOTICE OF PLANNED OPERATION 5. PUBLIC NOTICE 5. PUBLIC NOTICE					at uv
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NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION PRECEIVED RECEIVED	prescribed by it has provide information re of giving the requirements Virginia Code of this article Pursuant to that the Ope *PLEASE CHI	the secretary, shall be verified and sed the owners of the surface descril equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen oe § 22-6A-11(b), the applicant shall thave been completed by the applicant west Virginia Code § 22-6A, the Operator has properly served the requirement of the complete of the compl	hall contain the following information bed in subdivisions (1), (2) and (4), ction sixteen of this article; (ii) that the rivery pursuant to subsection (a), sect of this article were waived in writing tender proof of and certify to the secret. The erator has attached proof to this Notice of parties with the following: NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONDE	n: (14) A certificati subsection (b), see ne requirement was ion ten of this arti by the surface over tary that the notice ce Certification	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 requirements of section ter ONLY RECEIVED/ NOT REQUIRED
(PLEASE ATTACH) ■ 4. NOTICE OF PLANNED OPERATION ■ 5. PUBLIC NOTICE □ RECEIVED	l		☐ NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLAT S	CAUSE	□ RECEIVED/
■ 5. PUBLIC NOTICE				RFACE OWNER	
	■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 6. NOTICE OF APPLICATION	■ 5. PUE	BLIC NOTICE			□ 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.

Certification of Notice is hereby given:

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

Well Operator: Antero Resources Corporation

By: Diana Hoff Diana O. Hoff

Its: Senior VP of Operations

 Its:
 Senior VP of Operations
 L

 Telephone:
 304-842-4153

Telephone: 304-642-4153

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mstanton@anteroresources.com

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

Subscribed and sworn before me this 10 day of Feb

Notary Public

My Commission Expires

27 Apr 2024

Oil and Gas Privacy Notice:

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

WW-6A (9-13) API NO. 47- 095 OPERATOR WELL NO. Clutter Unit 2H
Well Pad Name: Eldon Pad

Notic	e Time Requirement:	notice shall be	e provided no later that	the thing date of permit application.	
Date Notic	of Notice: 02/10/2022 D	ate Permit A	pplication Filed: 02/10	/2022	
V	PERMIT FOR ANY	ПСЕ	ERTIFICATE OF APP	ROVAL FOR THE	
	WELL WORK			N IMPOUNDMENT OR PIT	
Deliv	ery method pursuant	to West Virgi	inia Code § 22-6A-10	(b)	
	PERSONAL	REGISTERE	ED Z METHO	DD OF DELIVERY THAT REQUIRES A	
_	SERVICE	MAIL		PT OR SIGNATURE CONFIRMATION	
	SERVICE	WIAIL	RECEL	TOR BIOTATORE CONTINUETTION	
the su oil an descr opera more well v impor have provi- proposubse recor- provi- Code	arface of the tract on which digas leasehold being de libed in the erosion and so tor or lessee, in the event coal seams; (4) The own work, if the surface tract undment or pit as describe a water well, spring or wide water for consumption used well work activity is action (b) of this section I do of the sheriff required sion of this article to the R. § 35-8-5.7.a requires	ch the well is of eveloped by the ediment control to the tract of largers of record of its to be used for eater supply sound to take place, nold interests in to be maintain contrary, notice, in part, that the	or is proposed to be locally proposed well work, if of plan submitted pursual and on which the well proposed for the placement, construction of this article; (5) A proceed this article; (5) A proceed the placement of the placement, construction of this article; (5) A proceed the placement of the placement of the placement of the lands, the applicant the lands, the applicant the pursuant to section event to a lien holder is not the operator shall also principles.	the well plat to each of the following persons: (1) The owners of 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 of coposed to be drilled is located [sic] is known to be underlain by cots overlying the oil and gas leasehold being developed by the puttion, enlargement, alteration, repair, removal or abandonment my surface owner or water purveyor who is known to the application thousand five hundred feet of the center of the well pad which is tenants in common or other co-owners of interests described in the transfer of the documents required upon the person described in the transfer one, 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.	ying the e as wner, one or roposed of any ant to s used to ne in the ling any V. Va.
☑ A	pplication Notice 🛭 V	VSSP Notice	☑ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
☑ SU	RFACE OWNER(s)		1	COAL OWNER OR LESSEE	
	e: Eldon J. and Ruth A. Hein	man	/	Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Addr	ess: 3647 Next Road			Address:	
	Sistersville, WV 26175-70	76			
Name				COAL OPERATOR	
Addr	ess:			Name: NO DECLARATIONS ON RECORD WITH COUNTY	
-011	DEAGE OUNIED (-) (D	1 1/ 0	I D' . I	Address:	
Name	RFACE OWNER(s) (R e: Eldon J. and Ruth A. Hel		ner Disturbance)	TWATER BURNEYOR A COUNTRY OF WATER WELL	
	ess: 3647 Next Road	man		WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE	
Addi	Sistersville, WV 26175-70	076		Name: NONE IDENTIFIED WITHIN 1500'	
Name				Address:	
Addr					
				OPERATOR OF ANY NATURAL GAS STORAGE FIE	LD
DSU	RFACE OWNER(s) (It	npoundments	or Pits)	Name: Not Applicable	
	: Not Applicable	24-2-24-20-24		Address:	
Addr	ess:				
				*Please attach additional forms if necessary	

API NO. 47- 095

OPERATOR WELL NO. Clutter Unit 2H

Well Pad Name: Eldon Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured 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- 095

OPERATOR WELL NO. Clutter Unit 2H

Well Pad Name: Eldon 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

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- 095

OPERATOR WELL NO. Clutter Unit 2H

Well Pad Name: Eldon 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.

WW-6A (8-13) API NO. 47- 095 OPERATOR WELL NO. Clutter Unit 2H
Well Pad Name: Eldon Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

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

Address: 1615 Wynkoop Street

Denver, CO 80202

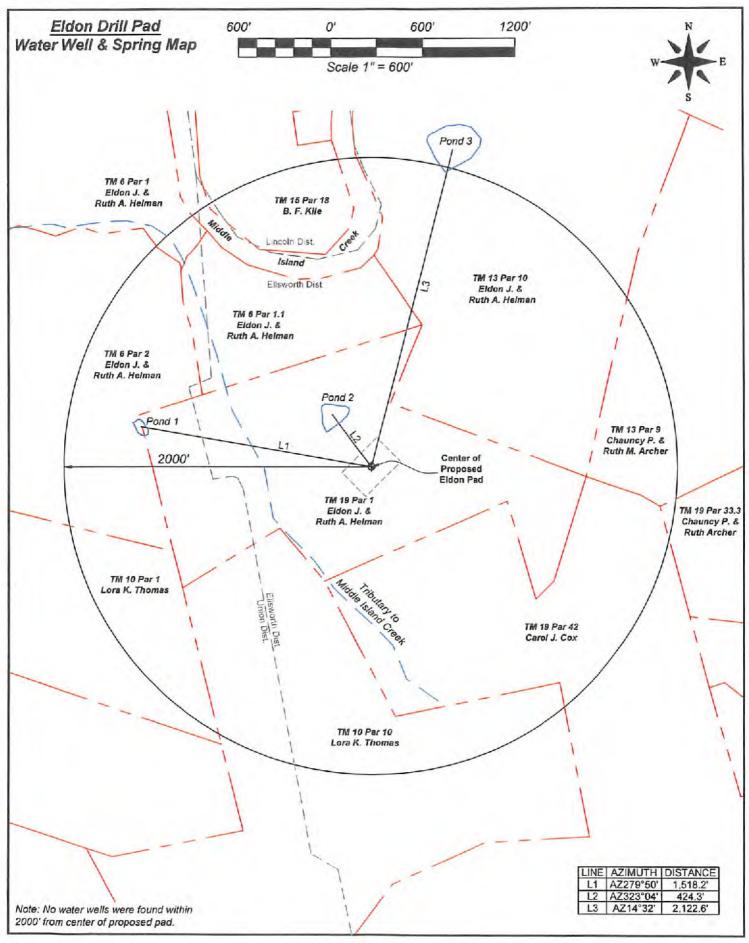
Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 10 day of Feb 2022.

Output Slow
Notary Public
My Commission Expires 27 Apr 2024



WW-6A4 (1/12)

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

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

Date of Notic	e; 12/15/2021 D	vided at least TEN (10) days prior to filing a pate Permit Application Filed: 02/10/2022	permit application.
Delivery met	hod pursuant to West Virginia C	Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL	į.	
DELIVE			
receipt request drilling a hort of this subsect subsection ma	ted or hand delivery, give the surfi- zontal well: <i>Provided</i> , That notice tion as of the date the notice was p by be waived in writing by the surfi-	t ten days prior to filing a permit application, ace owner notice of its intent to enter upon the given pursuant to subsection (a), section tentrovided to the surface owner: <i>Provided, how</i> ace owner. The notice, if required, shall include mail address of the operator and the operator	e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this ade the name, address, telephone number,
	reby provided to the SURFAC		
	n J. and Ruth A. Helman	Name:	
Address: 364		Address:	
Sist	ersville, WV 26175-7076	-	
	vner's land for the purpose of drilli West Virginia Tyler	UTM NAD 83 Northing:	Hows: 503791.93m 4371563.97m
District: Quadrangle: Watershed:	Ellsworth Middlebourne 7.5' Outlet Middle Island Creek		Allen Run Rd Eldon J. Helman et ux
Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	Middlebourne 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(biber and electronic mail address izontal drilling may be obtained f		ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hos located at 600 Notice is he	Middlebourne 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b) ber and electronic mail address izontal drilling may be obtained for 57th Street, SE, Charleston, WV 22 reby given by:	Generally used farm name: b), this notice shall include the name, addressof the operator and the operator's authorize from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	Middlebourne 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b) ber and electronic mail address izontal drilling may be obtained f 57th Street, SE, Charleston, WV 2	Generally used farm name: b), this notice shall include the name, addressof the operator and the operator's authorize from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
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Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600 Notice is he Well Operato Address:	Middlebourne 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(biber and electronic mail address izontal drilling may be obtained ff 57th Street, SE, Charleston, WV 2 reby given by: C. Antero Resources Appalachian Corporation	Generally used farm name: b), this notice shall include the name, addressor the operator and the operator's authorize from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
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Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600 Notice is he	Middlebourne 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b) The and electronic mail address izontal drilling may be obtained for 57th Street, SE, Charleston, WV 2000 and 1615 Wynkoop Street Denver, CO 80202	Generally used farm name: b), this notice shall include the name, address: c), this notice shall include the name, address: d) Generally used farm name: Address:	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx. Mallory Stanton 1815 Wynkoop Street Denver, CO 80202

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WW-6A5 (1/12)

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

Date of Notic	e; 02/09/2022 Date Per			
Delivery met	hod pursuant to West Virginia C	ode § 22-6A-16(c)		
CERTII	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to the	requested or hand delivery, give the operation. The notice required by provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of	ne surface owner whose land this subsection shall inclu- noten of this article to a sur- led surface use and compen- perations to the extent the d	d will be used for de: (1) A copy face owner whose sation 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 see 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
Notice is her	eby provided to the SURFACE C	OWNER(s)		
(at the addres	s listed in the records of the sheriff			
Name: Eldon	n J. and Ruth A. Helman	✓ Name:		
Address: 3647				
7 C CT - 3 T C C C C C C C C C C C C C C C C C C		Addres	s:	
Siste Notice is her	rsville, WV 26175-7076 eby given:			well operator has developed a planned
Notice is her Pursuant to Woperation on State:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the pu	notice is hereby given that	he undersigned all well on the tra	503791.93m
Notice is her Pursuant to Woperation on State:	cby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the pu	notice is hereby given that tripose of drilling a horizont UTM NAD	he undersigned al well on the tra Easting: Northing:	act of land as follows:
Notice is her Pursuant to Woperation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the puwest Virginia	notice is hereby given that the properties of drilling a horizont UTM NAD Public Road	he undersigned all well on the tra Easting: Northing:	act of land as follows: 503791.93m 4371563.97m Allen Run Road
Siste Notice is her Pursuant to W	cby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Tyler Ellsworth	notice is hereby given that the properties of drilling a horizont UTM NAD Public Road	he undersigned al well on the tra Easting: Northing:	act of land as follows: 503791.93m 4371563.97m
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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

February 8, 2022

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

Subject: DOH Permit for the Eldon Pad, Tyler County
Clutter Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0802 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Tyler County Route 10/1 SLS MP 3.32.

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.

Dary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane Blair

Antero Resources Corporation

CH, OM, D-6

File

LOCATION COGRDINATES: 400035 FRAME AT DITEMPOR LATTITUS: 40404666 INMASTRICE -00,053800 (NAD 83) LATTITUS: 40404680 INMASTRICE -00,053800 (NAD 83) LATTITUS: 40404680 INMASTRICE -00,053800 (NAD 83) A 43704201 TO E 50,0007 ACCESS HOAD "IF INTRANCE.

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LATTUDE 30 499820 LONGITUDE -80.054810 (NAU 87)
N 437223654 F ACAROG CG (UTW ZONE 17 METERS

CENTER OF TANK
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A 437104 45 E NASHOT SE //LTM 205E 17 METERS!

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LATTICES: 39 405-80 CONGITTION -80.955940 (NAD ES)
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ACTION RESOURCES CONTROLLED AN ENCROCACIONENT PERMIT (FORM CM-168) FROM THE

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PROJECT CONTACTS:

OPERATOR
ANTERO REBURGED CURFORATION
630 MILES DANS GLAS
BEIDGEFORT, W 38380
FINDE 1344 642 4108
JAX 1244 882-4108

ELL MAGUNEN - ENVIRONMENTAL ENCOMETR & MEGULATORY MANAGER
OPTICE (804) N45-4065 CELL (304) 976-8770

DIANA HOFF - SVP OPERATIONS

AREN KUNZLER - CONSTRUCTION MANAGER PHONE (304) 842-4(8)

ROBERT WIRES - DESIGN WARAGER OFFICE (204) 842-4100 CELL (504) 827-7405

CHARGES V. COMPTON, IN - LITILITY DEGREENATOR CELL (304) 719-6449

WYDEP COG

ACCEPTED AS-RUILT

YOR 3/9/2022

CTHUS S, KURP, PE - PROJECT MANAGER/ENGINEERS CIPICE (889) 052-4185 CELL (540) 038-6747

ENVIRONMENTAL
SVEA ENVIRONMENTAL CONSULTANTS, DEC
IVAN 1 MALECUADO - ENVIRONMENTAL SPECIALIST
STYLE (4/3) 538-381, [ELL 1578] 778-3786

DEDTECTINITAL
FENNSYLVANIA BUR. & HOCK, DC.
CHRISTOPHER & SAMOS - PROJECT ENGISEER
CTYRES (4/2) 372-4000 CELL (412) 569-9662

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- 5. THE EXISTING CONTAINMENT BERN AROUND THE WILL PAD SHALL BE REPARRED AS NECESSARY TO EXISTRA 1903. CONTAINMENT OF ALL PLUIDS FIREDS TO DESLITED OPERATIONS.
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ELDON WELL PAD & WATER CONTAINMENT PAD AS-BUILT EROSION & SEDIMENT CONTROL IMPROVEMENT PLAN

> ELLSWORTH DISTRICT, TYLER COUNTY, WV BUFFALO RUN-MIDDLE ISLAND CREEK WATERSHED

> USGS 7.5 MIDDLEBOURNE, & PADEN CITY QUAD MAPS





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AND GAS CET STATES.

REPRODUCTION NOTE

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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

1-5.22

COVER BULET

Expend
 Overall Flan enert index
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Total Site	
Access Road "A" (2.553)	7.20
Access Road B" (1477)	521
Staging Area	0.81
Wei Pad	1265
Except/Topical Material Stockplate	9.01
Total Affected Area	35.04
Total Vicenced Ages Distarted	4.02
impacts to Eldon J. Helman Tit 1:	5.40
Access Road "A" (1.635')	5.00
Access Pland "B" (1.477)	2.75
Staging Ares	0.81
Excess/Topsof Varietal Stockplais	1.75
Total Affected Area	10.33
Total Wooded Acres Disturbed	1.78
broacts to Eidon A Haltman TM t	1-1
Assarsa Road 'B'	1.95
Total Affected Area	1.55
Total Wooded Agree Distarted	0.11
Impacts to Elder J. Halmer Fill t	8.1
Access Road A (716)	2.28
Access Road 9	048
whet Pag	12.55
Excess/Topsel Material Stockhiles	7.32
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Welland 4 (PEM) (Access Frond)	1,900	1,900	0.04

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Stream and Impact Cause		Structures (LF)	Cofferdami E4\$ Candula (LF)	Distance in	(LF)
Steam 12 (Access Road)	25	11		g.	32
Steam 13 (Access Road)	38	15	15	17	68
Savern 14 (Access Road)	43	14		5	- 66

The second secon		Different mindragensa	E. A military relation many	CAMPINE, CHIMINA,	Total Propert
Stream and Impact Cause	Cultert #III (LF)	Structures (I.F)	Controls (LF)	Distance to	(LF)
Street 10 (Necess Road)	275	15	25	0	315
ELD	ON EPHENE		WACTILINEAR FO		
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FIRELP | Structures (LF) Controls (LF) L.D.D. (LF)

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Philorado Unit 1H (Permitted)	14 303548-21	AAF 39-26 36, 1704	N 431 (BS) 41	LAT 34-25-30-4014
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Eldon Links 194 (Permitted)	6/3/5/62 31	EAT 29-29-35 3/53	79.4071548.84	LAT 31-29-36, \$950
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THIS EDCOMENT WAS PREPARED FOR ANTEND RESIDENCE CONFIDENCES PAD

CONTAINMENT P SHEET ELDON WATER COVER 増し PAD WELL



DATE 10/23/2020 CALL AS SHOWN HEFT I OF IC

