

#### 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

Wednesday, October 4, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for Gowland 1H 47-103-03614-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number:

Number: Gowland 1H

Farm Name: Kenneth E & Vicky A VanDyne

U.S. WELL NUMBER: 47-103-03614-00-00

Horizontal 6A New Drill Date Issued: 10/4/2023

## 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. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief
  or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



#### 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 dep.wv.gov

# ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO:

Antero Resources Corporation

1615 Wynkoop Street Denver, CO 80202 DATE: April 25, 2022 ORDER NO.: 2022-W-6

#### INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to Antero Resources Corporation (hereinafter "Antero" or "Operator"), collectively the "Parties."

#### FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- 2. Antero is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 1615 Wynkoop Street, Denver, CO 80202.
- On March 30, 2022, Antero submitted a well work permit application identified as API# 47-103-03498. The well is located on the Cedar Pad in the Green District of Wetzel County, West Virginia.
- 4. On March 30, 2022, Antero requested a waiver for Wetlands B, R, S and T as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03498.

#### **CONCLUSIONS OF LAW**

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "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 Office of Oil and Gas 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 Office of Oil and Gas 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."

#### **ORDER**

West Virginia Code §22-6A-12(b) requires, in part, that "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. The Office of Oil and Gas grants the request for a waiver for Wetlands B, R, S and T from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-103-03498. The Office of Oil and Gas hereby **ORDERS** that Antero shall meet the following site construction and operational requirements for the Cedar Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetlands B, R, S and T shall be protected by two rows of forty-two inch (42") SMARTFence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 25th day of April 2022.

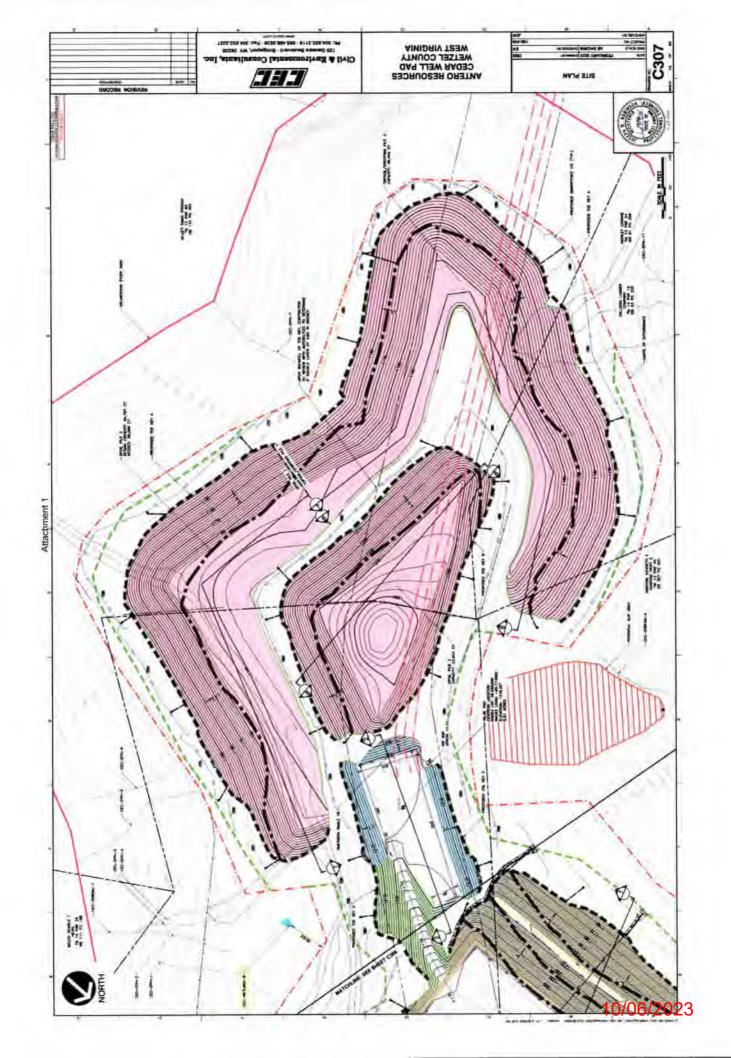
#### IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

Bv:

JAMES A. MARTIN, CHIEF





API NO. 47-103 OPERATOR WELL NO. Gowland Unit 1H
Well Pad Name: Cedar Pad

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

1) Well Operator:	Antero Reso	ources Corpora	494507062	103 - Wetze	Green	Pine Grove 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's Well	Number: Go	wland Unit 1H	Well Pa	ad Name: Ceda	r Pad	
3) Farm Name/Surf	ace Owner.	Kenneth E. & Vicky A.	Vandyne Public Ro	ad Access: CR	52	
4) Elevation, curren	nt ground:	1276' E	levation, proposed	d post-constructi	on: 1248	
5) Well Type (a) Oth	Gas X	Oil	Une	derground Storag	ge	
(b)		llow X izontal X	Deep	_		
6) Existing Pad: Ye	s or No No					
<ol> <li>Proposed Target Marcellus Shale:</li> </ol>			cipated Thickness ess- 55 feet, Assoc			
B) Proposed Total \	Vertical Dept	n: 7600' TVD				
9) Formation at Tot		4 A	S			
(0) Proposed Total	Measured De	epth: 9300' MI	0			
11) Proposed Horiz	contal Leg Le	ngth: 500' *C	Open to modifica	tion at a later da	ate	
12) Approximate F	resh Water S	trata Depths:	612'			
13) Method to Dete 14) Approximate S			47103308970000 Offset v	well records. Depths have	been adjusted	according to surface elevation
15) Approximate C	oal Seam De	pths: 1010'				
16) Approximate D	epth to Possi	ble Void (coal m	nine, karst, other):	None Anticipa	ted	
17) Does Proposed directly overlying of			Yes	No	X office	ECEIVED
(a) If Yes, provide		Name:			S	EP 1 8 2023
		Depth:			A	y Department of
		Seam:			Envi	A Debaumental Lionaction
		Owner:				

WW-6B (04/15)

API NO. 47- 103 - OPERATOR WELL NO. Gowland Unit 1H

Well Pad Name: Cedar Pad

#### 18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	662'	662'	CTS, 690 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3450'	3450'	CTS, 1405 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	9300'	9300'	CTS, 1416 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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

PACKERS

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Kind:	N/A	SEP 1 8 2023
Sizes:	N/A	WV Department of Environmental Protection
Depths Set:	N/A	Environmental



WW-68 (10/14) API NO. 47- 103

OPERATOR WELL NO. Gowland Link 1H

Well Pad Name: Goder 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): 71.85 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 18,45 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.

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Office of Oil and Ga

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

SEP 1 8 2023

Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tall cement- Class G/H + 45 PPS Calcium Carbonate + 1,0% FL-150 + 0,2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

VVV Department of Environmental Protection

#### 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 bbis fresh water, pump 48 bbis barite pill, pump 10 bbis fresh water followed by 48 bbis mud flush and 10 bbis water.

\*Note: Attach additional sheets as needed.

Page 3 of 3



## Proposed gas well \* Existing Well, as noted Digitized Well, as noted The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone 500' Buffer RECEIVED Office of Oil and Gas SEP 1 8 2023 WV Department of Environmental Protection Bridgeport Office 172 Thompson Drive Bridgeport, WV 26330 Phone: (304) 848-5035 Fax: (304) 848-5037 PARTY CHIEF: C. Lynch DRAWN BY J. Smith 1000 2000 RESEARCH: J Miller PREPARED August 17, 2023 SURVEYED: Dec. 2016 PROJECT NO 122-34-G-18 Scale: 1 Inch = 1000 feet FIELD CREW: C.L., K.M. Sheet 1 of 1 DRAWING NO. Gowland 1H Short AOR

August 21, 2023

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

RE: Request for Variance – Class L Cement
Midas Unit 1H, Wilma Unit 1H, Gowland Unit 1H, Jiffy Unit 1H, Gunto Unit 1H-2H
Wetzel County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal wells (Midas Unit 1H, Wilma Unit 1H, Gowland Unit 1H, Jiffy Unit 1H, Gunto Unit 1H-2H) on the Cedar pad.

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

If you have any questions or need further information, please feel free to contact Mallory Turco, Permitting Manager, at (303) 357-7182 or email at <a href="mailto:mturco@anteroresources.com">mturco@anteroresources.com</a>.

Sincerely,

Stefan Gaspar Permitting Agent

Antero Resources Corporation

Office of Oil and Gas

SEP 1 8 2023

WV Department of Environmental Protection



#### west virginia department of environmental protection

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

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

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4 SECTION 11.5 AND LEGISLATIVE RULE	)	ORDER NO. 2022-14
35CSR8 SECTION 9.2.h.8., RELATING TO THE CEMENTING OF OIL AND GAS WELLS	) )	RECEIVED Office of Oil and Ga
		SEP 1 8 2023

#### REPORT OF THE OFFICE

WV Department of Environmental Protection

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

#### FINDINGS OF FACT

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

Promotting a healthy environment

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

#### CONCLUSIONS OF LAW

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

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

#### ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas RECEIVED
Office of Oil and Gas

SEP 1 8 2023

WV Department of Environmental Protection

WW-9 (4/16)

API	Number	47 -	103

## Operator's Well No. Gowland Unit 1H STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

My commission expires November 15, 2026	STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669
Subscribed and sworn before me this 28th day of August , 2023  Stefan GAS Par Notary Public	
	WV Department of Environmental Protection
Company Official Title Director Environmental & Regulatory Compliance	SEP 1 8 2023
Company Official (Typed Name) Gretchen Kohler	
I certify under penalty of law that I have personally examined and am familiar with the info application form and all attachments thereto and that, based on my inquiry of those individuals im obtaining the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature   Gretchen Kohler	mediately responsible for
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POL on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general permit law or regulation can lead to enforcement action.	tion. I understand that the nit and/or other applicable
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associate West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permit where it was properly disposed.	
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-95), Northwestern Landfill (Permit #SWF-1021)  Wetzel County Landfill (Permit #SWF-1021)	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed	offsite and taken to landfill.
Additives to be used in drilling medium? Please See Attachment	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	Treshwater, Atlanmedian heek, Freduction - Wele: Based Mud
Other (Explain Northwestern Lands  WV0109410  Wetzel County Land  Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and to	ill Permit #SWF-1025/ httll (Permit #SWF-1021) aken to landfill.
Land Application Underground Injection (UIC Permit Number *UIC Permit # will be provided on For Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfil	Form WR-34
Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A  Proposed Disposal Method For Treated Pit Wastes:	
If so, please describe anticipated pit waste:  No please describe anticipated pit waste:  No V If so, what ml.? N/A	this personal and hacted of sites.)
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  Will a pit be used? Yes No   No   The color of the co	No
Watershed (HUC 10) Fishing Creek Quadrangle Pine Grove 7.5	
Operator Name Antero Resources Corporation OP Code 494507062	
FLODS COTTINGS DISPOSAL & RECLAMATION PLAN	

Operator's Well No. Gowland Unit 1H

Proposed Revegetation Treatment: Acres Disturbed 71.85	acres Prevegetation	Ua		
		рн		
Lime 2-4 Tons/acre or to correct to p				
Fertilizer type Hay or straw or Wood Fiber (will be used	where needed)			
Fertilizer amount 500	lbs/acre			
	/acre			
Access Road (30.35 acres) + Valve Pad Access Road (0.65 Spoil 2 (4.59 acres) + Spoil 3 (3.28 acres) + Spoil 4 (2.22 acr Strippin	acres) + Well Pad (18.45 acres) + Valve Pad (1.45 res) + Topsoil/Stripping 1 (1.37 acres) + Topsoil/St rg 3 (6.21 acres) - 71.85 acres	acres) + Spoil 1 (1.24 acres) + ripping 2 (2.04 acres) - Topsoil/		
Temporary	Pern	nanent		
Seed Type Ibs/acre	Seed Type	lbs/acre		
Annual Ryegrass 40	Crownvetch	10-15		
Field Bromegrass 40	Tall Fescue	30		
See attached Table IV-3 for additional seed type (Cedar Pad Design)	See attached Table IV-4A for additional seed type (Cedar 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 area.  Photocopied section of involved 7.5' topographic sheet.	*or type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of grass seed required to the control of type of ty	uding this info have been		
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#### Form WW-9 Additives Attachment

#### **SURFACE INTERVAL**

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

#### **INTERMEDIATE INTERVAL**

#### STIFF FOAM RECIPE:

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

#### PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol - Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

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WV Department or Environmental Protection 13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt - Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

**Drilling Fluid Lubricant** 

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WV Department of Environmental Protection



## 911 Address 1934 McKimmie Ridge Rd. Reader, WV 26167

# Well Site Safety Plan Antero Resources

Well Name: CEDAR UNIT 5V, MIDAS UNIT 1H, WILMA UNIT 1H, GOWLAND UNIT 1H, JIFFY UNIT 1H, GUNTO UNIT 1H-2H

Pad Location: CEDAR PAD

Wetzel County/Green District

**GPS Coordinates:** 

Entrance - Lat 39.585290/Long -80.706670 (NAD83)

Pad Center - Lat 39.567788/Long -80.713115 (NAD83)

## **Driving Directions:**

- · From WV-20, turn east onto North Fork Road
- Immediately turn left onto CO-15/17 (N Fork Rd) and travel for 2.2 miles
- Turn left onto WV-17 (Barker Run Rd) and continue for 2.3 miles
- Turn left onto CO 17/1 (Morgan-Ashland Ridge Rd) and continue for 2.7 miles
- Turn left onto CO 52 (McKimmie Ridge Rd) and travel for 1.6 miles
- · The Cedar Lease Road will be on the left

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Office of Oil and Gal

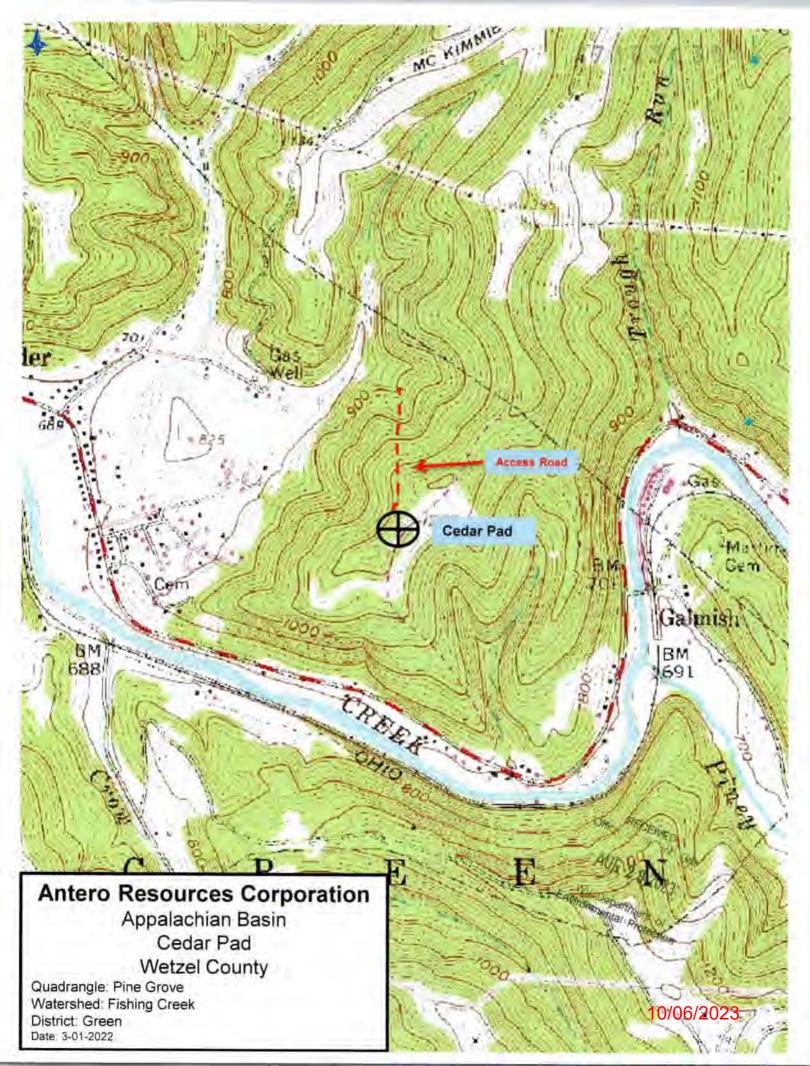
SEP 1 8 2023

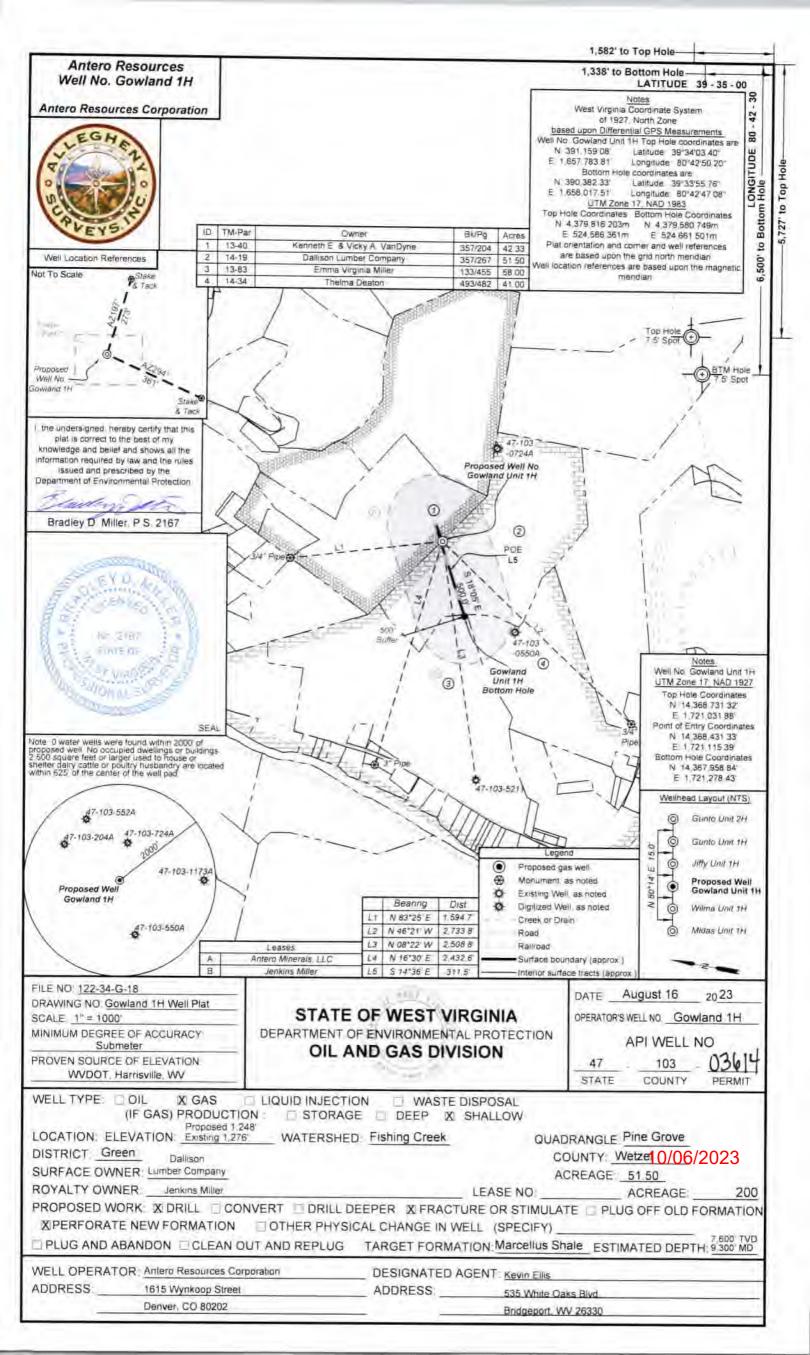
WV Department of Environmental Protection

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

1







WW-6A1
(5/13)

Operator's Wel	l No.	Gowland Unit	1H
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#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Jenkins Miller Lease	Jenkins Miller Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation Eastern States Oil & Gas Inc. Blazer Energy Corp. Eastern States Oil & Gas Inc. Equitable Production - Eastern States Inc. Appalachian Natural Gas Trust EQT Production Company	Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation Eastern States Oil & Gas Inc. Blazer Energy Corp. Eastern States Oil & Gas Inc. Equitable Production - Eastern States Inc. Appalachian Natural Gas Trust EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Merger Name Change Name Change Assignment Merger Assignment	0107/0056 0233/0387 066A/0069 076A/0232 0012/0253 0012/0259 WVSOS 079A/0244 0096/0505 230A/0801

<sup>\*</sup>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 Resources Corporation Oil and Gas
By:	Tim Rady
Its:	Senior Vice President of Land 29 2023

WV Department of Environmental Protection Page 1 of 1

Operator's Well Number

Gowland Unit 1H

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
B: Jenkins Miller Lease			
Jenkins Miller	Hope Natural Gas Company	1/8	0107/0056
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	Eastern States Oil & Gas Inc.	Assignment	D76A/0232
Eastern States Oil & Gas Inc.	Blazer Energy Corp.	Merger	0012/0253
Blazer Energy Corp.	Eastern States Oil & Gas Inc.	Name Change	0012/0259
Eastern States Oil & Gas Inc.	Equitable Production – Eastern States Inc.	Name Change	WVSOS
Equitable Production – Eastern States Inc.	Appalachian Natural Gas Trust	Assignment	079A/0244
Appalachian Natural Gas Trust	EQT Production Company	Merger	0096/0505
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
A: Antero Minerals, LLC Lease			
Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/0847



<sup>\*</sup>Partial Assignments to Antero Resources Corporation Include 100% rights to extract, produce and market the oil and the Marcellus and any other formations completed with this well.



August 17, 2023

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

RE: Gowland Unit 1H

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 permit for the Gowland Unit 1H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Gowland Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Kelsey Silipo Sr. Landman

Kelnefeslipe

Office of Oil and Gas

AUG 29 2023

WV Department of Protection

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

Date of Noti-	ce Certification: 08/25/2023			API No. 4	7103	
				Operator's	Well No. Gow	land Unit 1H
	_			Well Pad l	Name: Cedar F	Pad
Notice has ]						_
Pursuant to th	ne provisions in West Virginia Cod	de § 22-6 <i>A</i>	A, the Operator has pro	vided the re-	quired parties v	with the Notice Forms listed
State:	tract of land as follows: West Virginia					
			- UTM NAD 83	Easting:	524586.361m	<u>-</u>
County: District:	Wetzel Green			Northing:	4379816.203m	
Quadrangle:	Pine Grove 7.5'		_ Public Road Acc		CR 52	<del>-</del>
Watershed:	Fishing Creek		_ Generally used i	Generally used farm name:		ky A. Vandyne
waterstied.	Fishing Cleak		_			
it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified an ed the owners of the surface desequired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant sha have been completed by the appli	cribed in section so survey po of this a all tender p	subdivisions (1), (2) a ixteen of this article; (i ursuant to subsection article were waived in	and (4), sub: ii) that the re (a), section writing by	section (b), sec equirement was ten of this arti the surface ov	ction ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the rator has properly served the requect ALL THAT APPLY	Operator	has attached proof to tes with the following:	this Notice C	Certification	OOG OFFICE USE
☐ 1. NO	TICE OF SEISMIC ACTIVITY		NOTICE NOT REQUI			RECEIVED/ NOT REQUIRED
☐ 2. NO	FICE OF ENTRY FOR PLAT SU	RVEY or	■ NO PLAT SURV	EY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL	NOT	NOTICE NOT REQUI ICE OF ENTRY FOR CONDUCTED or			RECEIVED/ NOT REQUIRED
		_ ·	WRITTEN WAIVER (PLEASE ATTACH)		CE OWNER	
■ 4. NO	FICE OF PLANNED OPERATIO	N				☐ RECEIVED
■ 5. PUE	BLIC NOTICE					RECEIVED
■ 6. NO	FICE OF APPLICATION				af CFT	RECEIVED
Required A	ttachments:					e 2023

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 corn of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication Wile attached the Class II Legal Certifications of Notice shall serve as proof that the required parties have been noticed as required 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 Jon McEvers , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street By: Jon McEvers Denver, CO 80202 Its: SVP of Operations Facsimile: 303-357-7315 Telephone: 303-357-7310 Email: mturco@anteroresources.com

NOTARY PUBLIC ATE OF COLORADO ARY ID 2022404366

Subscribed and sworn before me this 23 day of August 2023.

Stefan Gaspar Notary Public

My Commission Expires November 15, 2026

#### Oil and Gas Privacy Notice:

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

CHANG

pepartment of vironmental Protection WW-6A (9-13) APINO. 47 103 1 3 6 1 4

OPERATOR WELL NO. Gowlend Unit 1H
Well Pad Name: Cedar Ped

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 8/28/2023 Date Permit Application Filed: 8/28/2023 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) □ PERSONAL ☐ REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAII. RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE Name: Kenneth E. & Vicky A. Vandyne Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: P.O. Box 311 Address: Reader, WV 26167 Name: Dallison Lumber Company COAL OPERATOR Address: P.O. Box 159 Name: NO DECLARATIONS ON RECORD WITH COUNTY Jacksonburg, WV 26377 Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Emma Virginia Miller ☐ SURFACE OWNER OF WATER WELL Address: 6619 Lynngate Drive AND/OR WATER PURVEYOR(s) Spring, TX 77373 and Gas Name: NONE WITHIN 1500' Name: Address: Address: AUG 2 9 2023 □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: \_\_\_\_\_\_epartment of Name: Address: Environmental Protection Address: \*Please attach additional forms if necessary

API NO. 47= 108 \_ OPERATOR WELL NO. Gowland Unit 1H
Well Pad Name: Cedar 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/mil-and-gas/pages/default.aspx">www.dep.wv.gov/mil-and-gas/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 surfaceaor 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 tream 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 of Bracings to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver it 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. 47-703 1 0 3 0 3 6 1 4 OPERATOR WELL NO. Gowland Unit 1H Well Pad Name: Cedar 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 agticle 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.

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Environmental Protection

WW-6A (8-13) 4710303614

API NO. 47- 103

OPERATOR WELL NO. Gowland Unit 1H

Well Pad Name: Cedar 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.

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AUG 29 2023

WV Department of Environmental Protection WW-6A (8-13)

API NO. 47- 103

OPERATOR WELL NO. Gowland Unit 1H

Well Pad Name: Cedar Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310

mturco@anteroresources.com Email:

1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

#### Oil and Gas Privacy Notice:

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

STEFAN GASPAR NOTARY PUBLIC FATE OF COLORADO TARY ID 2022404366 MY COMMISSION EXPIRES NOVEMBER 15, 202 Subscribed and sworn before me this 28 day of Agust 2023.

Stefan G25P2 Notary Public

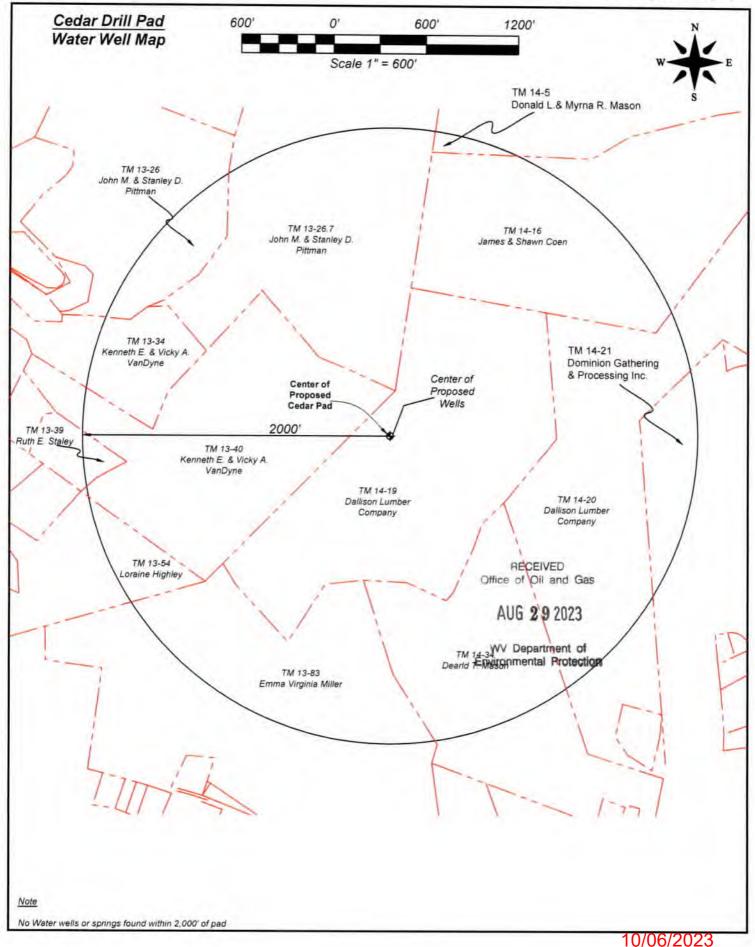
My Commission Expires November 15, 2026

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Operator Well No. Gowland Unit 1H Multiple Wells on Cedar Pad

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#### 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.

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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 depprivacyofficeralwy.gov.

Operator Well No. 60wland Unit 1H 7 1 0 3 0 3 6 1 4

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

Date of Noti	Requirement: notice: 08/28/2023	e shall be provided  Date Permit	no later than the filing Application Filed: 08/	date of permit	application.
Delivery me	thod pursuant to We	est Virginia Code	§ 22-6A-16(c)		
CERTI	FIED MAIL		HAND		
	RN RECEIPT REQU	_	DELIVERY		
return receipthe planned required to be drilling of a damages to the first of notice.  Notice is her (at the address to the damage)	requested or hand de operation. The notice provided by subsect horizontal well; and he surface affected by	elivery, give the sur e required by this ion (b), section ten (3) A proposed sur oil and gas operatic ction shall be giver	rface owner whose land subsection shall inclu- of this article to a surf- rface use and compen- ons to the extent the di- to the surface owner in ER(s) e time of notice):	d will be used for de: (1) A copy ace owner whose sation agreemer amages are com at the address list	ication, 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 nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Address: FO I Reader, WV 2610	Sox 311		Addres	S: PO Box 159 ourg, WV 26377	
Address: PO Reader, WV 2610  Notice is her  Pursuant to V  operation on  State:	eby given: Vest Virginia Code § the surface owner's l	22-6A-16(c), notice and for the purpose	Addres	ne undersigned the undersigned to well on the tra Easting:	5Z4586.361m
Address: PO B Reader, WV 2610 Notice is her Pursuant to V operation on State: County:	eby given: /est Virginia Code § the surface owner's I West Virginia Wetzel	22-6A-16(c), notice and for the purpose	Addres  Jacksoni e is hereby given that the of drilling a horizonta  UTM NAD 8	the undersigned all well on the tra Basting: Northing:	act of land as follows: 5Z4586.361m 4379816.203m
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Address: PO F Reader, WV 2610 Notice is her Pursuant to V	eby given: /est Virginia Code § the surface owner's I West Virginia Wetzel	22-6A-16(c), notice and for the purpose	Addres Jacksoni e is hereby given that the of drilling a horizonta  UTM NAD 8  Public Road	the undersigned all well on the tra Basting: Northing:	act of land as follows: 5Z4586.361m 4379816.203m
Address: POR Reader, WV 2610  Notice is her Pursuant to Voperation on State: County: District: Quadrangle: Watershed:  This Notice: Pursuant to Voto be provide horizontal was surface affectinformation of the state	eby given:  Vest Virginia Code § the surface owner's I West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek  Shall Include: Vest Virginia Code § ed by W. Va. Code ell; and (3) A propose ted by oil and gas op elated to horizontal of	22-6A-16(c), this r § 22-6A-10(b) to a d surface use and of erations to the extending may be ob-	Address Jacksonic is hereby given that the of drilling a horizonta UTM NAD 8  Public Road Generally use the compensation agreement the damages are contained from the Secretained	he undersigned al well on the tra Easting: Northing: Access: ed farm name:  OA copy of this e land will be undersigned arm containing an ompensable unclary, at the WV	act of land as follows: 524586.361m 4379816.203m CR 52
Address: POR Reader, WV 2610  Notice is her Pursuant to Voperation on State: County: District: Quadrangle: Watershed:  Pursuant to Voto be provide orizontal we surface affect in eadquarters, pass/pages/def	eby given: Vest Virginia Code § the surface owner's I West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include: Vest Virginia Code § ed by W. Va. Code ell; and (3) A propose sed by oil and gas op elated to horizontal located at 601 57th ault_aspx.	22-6A-16(c), this t § 22-6A-10(b) to a d surface use and of erations to the extending may be ob Street, SE, Cha	Address Jacksonia de is hereby given that the of drilling a horizonta UTM NAD 8  Public Road Generally us notice shall include: (1) a surface owner whose compensation agreement the damages are of tained from the Secretarleston, WV 25304	he undersigned al well on the tra Easting: Northing: Access: ed farm name: (A copy of this a land will be an tontaining arompensable undary, at the WV (304-926-0450)	act of land as follows:  524586.361m  4379816.203m  CR 52  Kenneth E & Vicky A. VanDyne  code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.eov/oil-and-
Address: POR Reader, WV 2810  Notice is her Pursuant to Voperation on State: County: District: Quadrangle: Watershed:  Pursuant to Voto be provide to rizontal was surface affect in eadquarters, passes del Well Operator.	eby given: Vest Virginia Code § the surface owner's I West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include: Vest Virginia Code § ed by W. Va. Code ell; and (3) A propose ted by oil and gas op elated to horizontal located at 601 57th ault_aspx.	22-6A-16(c), this t § 22-6A-10(b) to a d surface use and of erations to the extending may be ob Street, SE, Cha	Address Jacksonic is hereby given that the of drilling a horizonta UTM NAD 8  Public Road Generally use the compensation agreement the damages are contained from the Secretained	he undersigned al well on the tra Easting: Northing: Access: ed farm name:  (A copy of this e land will be int containing arompensable unctary, at the WV (304-926-0450)	act of land as follows:  524586.361m  4379816.203m  CR 52  Kenneth E & Vicky A. VanDyne  code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.eov/oil-and-
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The Office of Oil and Gas processes your personal information, such as name, address and telephone www.becastpart of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the transformation. Some of the first of the first



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## Division of Highways

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

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

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

August 23, 2023

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 Cedar Pad, Wetzel County

Gowland Unit 1H Well Site

Dear Mr. Martin.

This well site will be accessed from a DOH permit #06-2021-0526 which has been issued to Antero Resources for access to the State Road for a well site located off Wetzel County Route 52 SLS MP 1.93.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Operations Engineer

Jan K. Clayton

Central Office O&G Coordinator

Cc: Stefan Gaspar Antero Resources OM, D-6 File

WV Department of Environmental Protection Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

47 1 0 3 0 3 6 1 4

	Additive	Chemical Abstract Service Number (CAS #)
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
9.	Ethoxylated alcohol blend	Mixture
	Ethoxylated Nonylphenol	68412-54-4 <sub>8505</sub>
	Ethoxylated oleylamine	26635-93-8 <sup>ffice</sup> of Oil and Gas
	Ethylene Glycol	107-21-1 <sup>'' and</sup> Gas
	Glycol Ethers	111-76-2 AUG 29 2023
	Guar gum	9000-30-0 ~ 3 2023
	Hydrogen Chloride	7647-01-W Department of
	Hydrotreated light distillates, non-aromatic, BTEX free	647-42-47-9 Department of 64742-47-9 mental Protection
	Isopropyl alcohol	
	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	Microparticle	Proprietary
	Petroleum Distillates (BTEX Below Detect)	64742-47-8
	Propargyl Alcohol	57-55- <del>6</del>
		107-19-7
	Propylene Glycol	<b>5</b> 7-55-6
	Quartz	14808-60-7
	Sillica crystalline quartz Sodium Chloride	7631-86-9
		7647-14-5
	Sodium Hydroxide	1310-73-2
	Sugar Surfactant	57-50-1
		68439-51-0
	Suspending agent (solid)	14808-60-7
21.	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, petroleum, heavy aliph Soybean Oil, Me ester	64742-96-7
		67784-80-9
	Copolymer of Maleic and Acrylic Acid	52255-49-9
	DETA Phosphonate	15827-60-8
	Hexamythylene Triamine Penta	34690-00-1
	Phosphino Carboxylic acid polymer	71050-62-9
	Hexamethylene diamine penta	23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	Hexamethylene diamine penta (methylene phosphonic ac	,
	Diethylene Glycol Methenamine	111-46-6
		100-97-0
	Polyethylene polyamine Coco amine	68603-67-8
		61791-14-8
43.	2-Propyn-1-olcompound with methyloxirane	3 <b>81</b> 72-91-7

OPERATOR: Antero Resources Corporation	WELL NO: Gowland Unit 1H
PAD NAME: Cedar Pad	
REVIEWED BY: Mallory Turco	SIGNATURE: MAN TW

## WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

Well Res	strictions	
	At Least 100 Feet from Pad and LOD (including any E&S Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	S Control Feature) to any
	DEP Waiver and Permit Conditions	
<b>√</b>	At Least 300 Feet from Pad and LOD (including any E&S Naturally Producing Trout Stream; OR	S Control Feature) to any
	DEP Waiver and Permit Conditions	
✓	At Least 1000 Feet from Pad and LOD (including any E& Groundwater Intake or Public Water Supply; OR	S Control Feature) to any
	DEP Waiver and Permit Conditions	
✓	At Least 250 Feet from an Existing Water Well or Develo Drilled; OR	ped Spring to Well Being
	Surface Owner Waiver and Recorded with County	Clerk, OR
	DEP Variance and Permit Conditions	** ***********************************
<b>✓</b>	At Least 625 Feet from an Occupied Dwelling Structure to	o Center of the Pad; OR
	Surface Owner Waiver and Recorded with County	Clerk, OR 2 9 2023
	DEP Variance and Permit Conditions	WV Department of Environmental Protection
<b>✓</b>	At Least 625 Feet from Agricultural Buildings Larger than of the Pad; OR	n 2500 Square Feet to the Center
	Surface Owner Waiver and Recorded with County	Clerk, OR
	DEP Variance and Permit Conditions	

#### LOCATION COORDINATES WV83-NF (NORTH ZONE) UTM83-17 SITE LOCATIONS LATITUDE NORTHING LONGITUDE EASTING 39.585290 -80.706670 4381771.1379 525189.3871 MAIN ACCESS ROAD ENTRANCE 4379827.0267 524642.1577 CENTROID OF WELL PAD 39.567788 -80.713115 524481.4518 4379662.2572 VALVE PAD 39.566308 -80.714992 CEDAR 5V WELL 39.568204 -80.712253 4379873.4152 524716.0172

# **CEDAR WELL PAD** ANTERO RESOURCES CORPORATION PERMIT SITE PLANS

WETZEL COUNTY, WEST VIRGINIA LITTLE MUSKINGUM - MIDDLE ISLAND CREEK WATERSHED

#### GENERAL DESCRIPTION:

THE ACCESS ROAD AND WELL PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

#### **FLOODPLAIN NOTES**

THE PROPOSED SITE LOCATION IS NOT WITHIN ANY IDENTIFIED FLOOD ZONES. PER FEMA MAP NUMBER 54103C0180C.

#### MISS UTILITY STATEMENT:

ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATION OF UTILITIES PRIOR TO THIS PROJECT DESIGN; TICKET #2021252794. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

#### **ENVIRONMENTAL NOTES:**

STREAM AND WETLAND DELINEATIONS WERE PERFORMED ON AUGUST 24, 2020 AND AUGUST 17, 2021 BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC (CEC) TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. ANTERO RESOURCES CORPORATION SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

THE PROPOSED 2:1 SLOPES AND 1.5:1 SLOPES SHALL BE FIELD VERIFIED BY A CERTIFIED GEOTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADEQUATE PRIOR TO CONSTRUCTION. ACCESS ROAD CONSTRUCTION SHALL BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER DURING CONSTRUCTION.

THERE ARE NO LAKES, RESERVOIRS, OR PERENNIAL STREAM WITHIN 100 FEET OF THE WELL PAD.

4. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.

APPROPRIATE AGENCIES, THEREFOR A WAIVER WILL BE REQUESTED

#### PROJECT CONTACTS:

FAX: (304) 842-4102

## ANTERO RESOURCES CORPORATION

535 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 PHONE: (304) 842-4100

**ELI WAGONER - ENVIRONMENTAL &** REGULATORY MANAGER OFFICE: (304) 842-4191 CELL: (304) 627-7405

## AARON KUNZLER - CONSTRUCTION MANAGER

OFFICE: (304) 842-4401 CELL: (304) 641-8242

SCOTT HOFFER - UTILITY SUPERVISOR

OFFICE (303) 357-6904

RESTRICTION NOTES:

ROBERT WIRKS - DESIGN MANAGER OFFICE: (304) 842-4401 CELL: (304) 627-7405

OFFICE: (304) 842-4401 CELL: (304) 615-8699 DIANA HOFF - SVP OPERATIONS

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 120 GENESIS BLVD. BRIDGEPORT, WV 26330

PHONE: (304) 933-3119

PHONE: (304) 933-3119

PHONE: (304) 933-3119

PHONE: (304) 933-3119

THERE ARE NO EPHEMERAL, INTERMITTENT, OR PERENNIAL STREAM IMPACTS WITHIN THE LOD THAT WILL NEED TO BE PERMITTED.

5. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1,000 FEET OF THE WELL PAD AND LOD. 6. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) TO BE DRILLED.

#### **ENVIRONMENTAL** CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 120 GENESIS BLVD. BRIDGEPORT, WV 26330

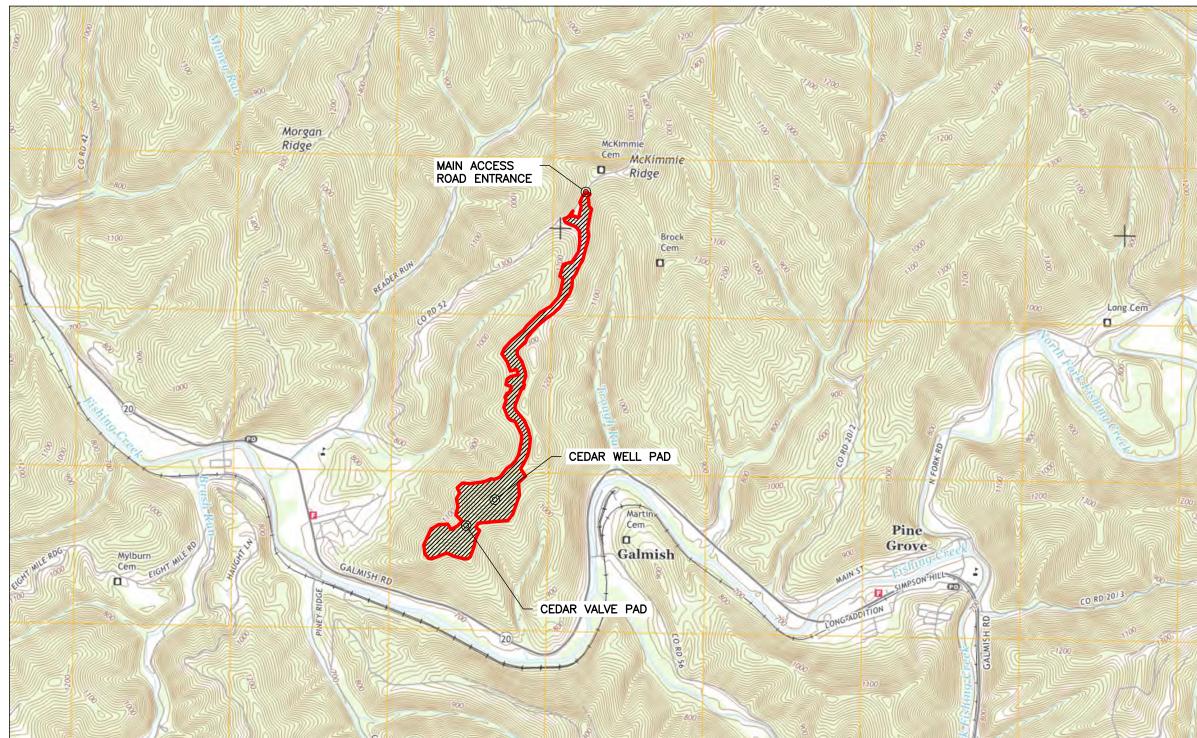
**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.** 120 GENESIS BLVD. BRIDGEPORT, WV 26330

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 120 GENESIS BLVD. BRIDGEPORT, WV 26330

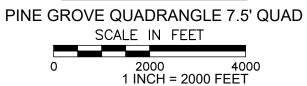
THERE ARE WETLANDS THAT WILL BE IMPACTED WITHIN 100 FEET, AND INSIDE OF THE WELL PAD LOD AND WILL NEED TO BE PERMITTED THROUGH THE

7. THERE ARE NO OCCUPIED DWELLINGS OR AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

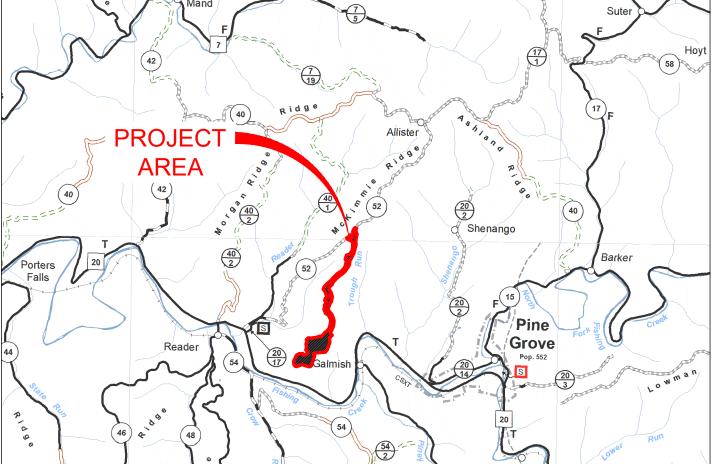
PENNSYLVANIA



# **LOCATION MAP**







# **VICINITY MAP**

2 MILES

# WETZEL COUNTY ROAD MAP SCALE IN FEET

1 MILES

1 INCH = 1 MILE

# **DESIGN CERTIFICATION:**

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.



REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU DIG IN THE STATE OF WEST VIRGINIA. IT'S THE LAW!

L.O.D. AREAS				
DESCRIPTION	ACRES			
Access Road	30.35			
Valve Pad Access Road	0.65			
Well Pad	18.45			
Valve Pad	1.45			
Spoil 1	1.24			
Spoil 2	4.59			
Spoil 3	3.28			
Spoil 4	2.22			
Topsoil/Stripping 1	1.37			
Topsoil/Stripping 2	2.04			
Topsoil/Stripping 3	6.21			
ΤΟΤΔΙ	71.85			

SHEET INDEX

C000 - COVER SHEET

C001 - GENERAL NOTES

C003 - MASTER LEGEND

C200 - ISOPACH PLAN

C301 - SITE PLAN

C302 - SITE PLAN

C303 - SITE PLAN

C304 - SITE PLAN

C305 - SITE PLAN

C306 - SITE PLAN

C307 - SITE PLAN

C300 - OVERALL SITE PLAN

C600 - PROFILES AND SECTIONS

C601 - PROFILES AND SECTIONS

C002 - MATERIAL QUANTITIES

C100 - EXISTING CONDITIONS

C101 - EXISTING CONDITIONS

C602 - PROFILES AND SECTIONS

C603 - PROFILES AND SECTIONS

C604 - PROFILES AND SECTIONS

C605 - PROFILES AND SECTIONS

C606 - PROFILES AND SECTIONS

C607 - PROFILES AND SECTIONS

C608 - PROFILES AND SECTIONS

C609 - PROFILES AND SECTIONS

C610 - PROFILES AND SECTIONS

C612 - PROFILES AND SECTIONS

C613 - PROFILES AND SECTIONS

C614 - PROFILES AND SECTIONS

C615 - PROFILES AND SECTIONS

C616 - PROFILES AND SECTIONS

C617 - PROFILES AND SECTIONS

C618 - PROFILES AND SECTIONS

C619 - PROFILES AND SECTIONS

OWNER

MCKIMMIE RIDGE ROAD

	AQUATIC IMPACTS	WITHIN LOD	
10/06	72023 TYPE OF	DISTURBAN	ICE WITHIN
IDENTIFIER		LIMITS OF DISTURBANCE	
	STREAM/WETLAND	LF	AC
CEC-WETLAND-A	PEM	N/A	0.005
CEC-WETLAND-I	PEM	N/A	0.014
CEC-WETLAND-J	PEM	N/A	0.020
TOTAL WET	LAND IMPACTS	N/A	0.039

WELL NAME

(PERMITTED)

WILMA UNIT 11

**GOWLAND 1H** 

JIFFY UNIT 1H

**GUNTO 1H** 

WELL LETTER

WELL LEGEND

N: 391375.873

E: 1626772.438

E: 1626314.2766

N: 391195.2307

E: 1626343.8391

N: 391197.7770

E: 1626358.6203

WV NORTH NAD 27 WV NORTH NAD 83

N: 391339.771

E: 1658212.392

N: 391153.9883

E: 1657754.2484

N: 391156.5343

E: 1657769.0292

N: 391159.0802

E: 1657783.8100

N: 391161.6262

E: 1657798.5908

N: 391164.1722

E: 1657813.3716

N: 391166.7182

MASON KAREN B	9-44	353-216	PARCEL INFORMATION	
			Access Road	0.55
			PARCEL TOTAL	0.55
VANDYNE KENNETH & VICKY A	14-1	339-472	PARCEL INFORMATION	
			Access Road	9.49
			Spoil 1	1.24
			PARCEL TOTAL	10.73
MASON DONALD L & MYRNA R.	14-5	390-62	PARCEL INFORMATION	
			Access Road	5.47
			PARCEL TOTAL	5.47
SLATER LAURA ANN	13-17	423-93	PARCEL INFORMATION	
			Access Road	4.06
			Topsoil/Stripping 1	1.37
			PARCEL TOTAL	5.43
PITTMAN JOHN MICHAEL & PITTMAN STANLEY DALE	13-26.7	458-837	PARCEL INFORMATION	
			Access Road	4.08
			PARCEL TOTAL	4.08
COEN JAMES E & SHAWN	14-16	454-45	PARCEL INFORMATION	
			Access Road	3.33
			PARCEL TOTAL	3.33
DALLISON LUMBER COMPANY	14-19	53-205	PARCEL INFORMATION	
			Access Road	2.95
			Valve Pad Access Road	0.65
			Well Pad	12.76
			Valve Pad	1.45
			Spoil 2	2.52
			Spoil 3	1.44
			Topsoil/Stripping 2	2.04
			PARCEL TOTAL	23.81
MILLER EMMA VIRGINIA RATLIFF RONALD WAYNE	13-83	133-455	PARCEL INFORMATION	
			Spoil 2	2.07
			Spoil 3	1.54
			Topsoil/Stripping 3	3.67
			PARCEL TOTAL	7.28
HIGHLEY LORAINE	13-54	81-258	PARCEL INFORMATION	
			Spoil 3	0.27
			Topsoil/Stripping 3	2.16
			PARCEL TOTAL	2.43
VANDYNE KENNETH E & VANDYNE VICKY E	13-40	357-204	PARCEL INFORMATION	
			Access Road	0.29
			Well Pad	5.69
			Spoil 3	0.03
			Spoil 4	2.22
			Topsoil/Stripping 3	0.38
			PARCEL TOTAL	8.61

NAD 27

N: 4379873.415 | LAT: 39°34'05.53" | LAT: 39°34'05.25"

N: 4379814.499 | LAT: 39°34'03.64" | LAT: 39°34'03.35"

N: 4379816.201 | LAT: 39°34'03.69" | LAT: 39°34'03.40"

N: 4379817.052 | LAT: 39°34'03.72" | LAT: 39°34'03.43"

E: 524590.851 | LONG: -80°42'49.36" | LONG: -80°42'50.01'

E: 524595.341 | LONG: -80°42'49.18" | LONG: -80°42'49.82"

E: 524586.361 | LONG: -80°42'49.55" | LONG: -80°42'50.20"

N: 391192.6843 | N: 4379815.350 | LAT: 39°34'03.67" | LAT: 39°34'03.37"

N: 391200.3234 | N: 4379817.903 | LAT: 39°34'03.75" | LAT: 39°34'03.46"

N: 391202.8698 | N: 4379818.754 | LAT: 39°34'03.77" | LAT: 39°34'03.48"

E: 1626388.1828 | E:524599.831 | LONG: -80°42'48.99" | LONG: -80°42'49.64"

E: 524716.017 | LONG: -80°42'44.11" | LONG: -80°42'44.76'

E: 524577.380 | LONG: -80°42'49.93" | LONG: -80°42'50.58"

COVER SHE	JU Y 2023 DRAWN	AS SHOWN CHECKE		
	DATE:	DWG SCALE:	PROJECT NO:	APPROVED BY:
RAWING NO.:				

C905 - RECLAMATION PLAN

C906 - RECLAMATION PLAN

C907 - RECLAMATION PLAN

**ACERAGE** 

0.13

0.13

**DISTURBANCE** 

PARCEL INFORMATION

Access Road

PARCEL TOTAL

C620 - PROFILES AND SECTIONS

C621 - PROFILES AND SECTIONS

C622 - PROFILES AND SECTIONS

C623 - PROFILES AND SECTIONS

C624 - PROFILES AND SECTIONS

C625 - PROFILES AND SECTIONS

C626 - PROFILES AND SECTIONS

C900 - OVERALL RECLAMATION PLAN

C901 - RECLAMATION PLAN

C902 - RECLAMATION PLAN

C903 - RECLAMATION PLAN

C904 - RECLAMATION PLAN

TM-PARCEL DEED-PAGE

C800 - DETAILS

C801 - DETAILS

C802 - DETAILS

C803 - DETAILS

C804 - DETAILS

C805 - DETAILS

LIMITS OF DISTURBANCE PARCEL BREAK UPS - CEDAR WELL PAD **WETZEL COUNTY, WEST VIRGINIA** 

PLAN REPRODUCTION WARNING THE PLANS HAVE BEEN CREATED ON ANSI D (22" X 34") SHEETS. FOR

REDUCTIONS, REFER TO GRAPHIC SCALE. THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

Eastern **Panhandle** 

10/3/2023

\*\*WARNING\*\*: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

WEST VIRGINIA STATE LAW

