

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 Gunto 2H

47-103-03617-00-00

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) 926 045

Operator's Well Number:

Gunto 2H

Farm Name:

Kenneth E & Vicky A VanDyne

U.S. WELL NUMBER:

47-103-03617-00-00

Horizontal 6A New Drill

Date Issued: 10/4/2023

4	7	1	0	3	0	3	6	1	7
		- 1	7/	_	-	~	~	•	

API N	lumber:	
TILL	· www.	

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.

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- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 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.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 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."

<u>ORDER</u>

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.

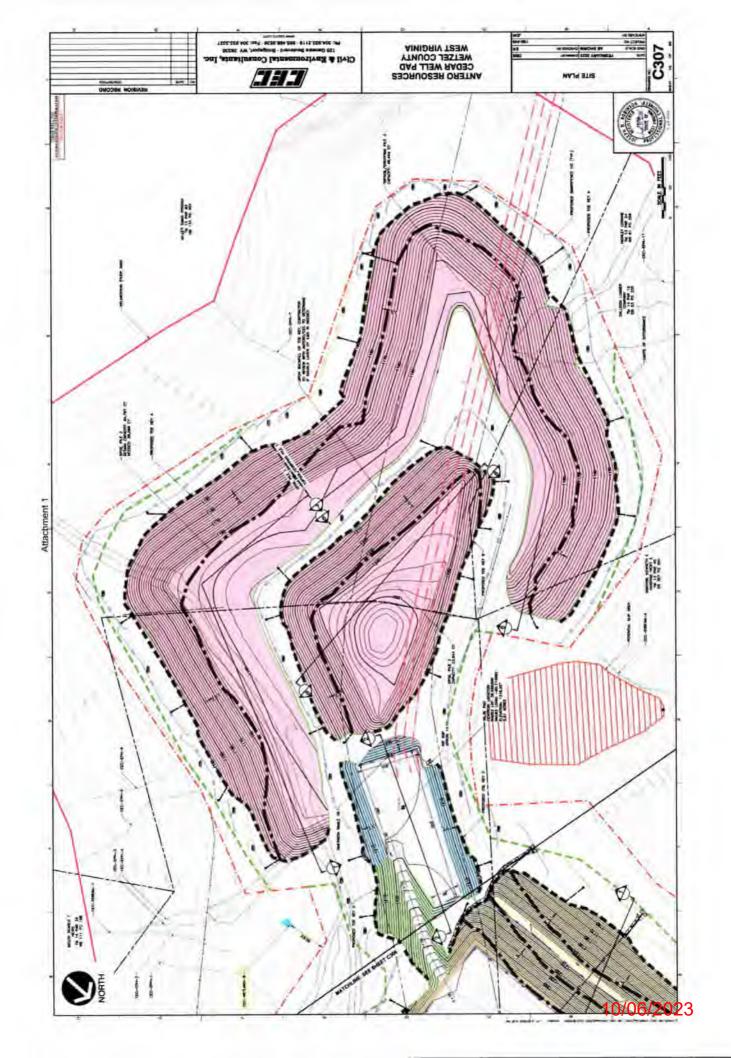
IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

Bv:

JAMES A. MARTIN, CHIEF





WW-6B (04/15)

API NO. 47-103 -		
OPERATOR WELL	NO.	Gunto Unit 2H
Well Pad Name:		

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

) Well Operato	- Antero	Resources (Corpora	494507062	103 - Wetze	Green	Pine Grove 7.5'
) wen Operato	1,	11222200000		Operator ID	County	District	Quadrangle
) Operator's W	ell Number	Gunto Unit	2H	Well P	ad Name: Ceda	r Pad	
				Vandyne Public R	oad Access: CR	52	
) Elevation, cu	rrent ground	d: 1276'	E	levation, propose	d post-constructi	on: 1248	
6) Well Type	(a) Gas Other	X	Oil _	Un	derground Storag	ge	
	(b)If Gas	Shallow	X	Deep			-
6) Existing Pad	: Yes or No	Horizontal No	^				
7) Proposed Tar Marcellus Sh	rget Format ale: 7600' T	ion(s), Depth VD, Anticipate	(s), Anti- d Thickn	cipated Thicknessess- 55 feet, Asso	s and Expected P ciated Pressure-	ressure(s): 2850#	
3) Proposed To	tal Vertical	Depth: 760	O' TVD				
9) Formation at			Marcellu	IS			
10) Proposed T	otal Measur	red Depth:	11500' N	MD			
11) Proposed H	Iorizontal L	eg Length:	500' *0	Open to modifica	ation at a later d	ate	
12) Approxima			pths:	612'			
13) Method to I	Determine I	Fresh Water I	Depths:	47103308970000 Offset	well records. Depths hav	e been adjuste	d according to surface elevation
14) Approxima	ite Saltwater	Depths: 21	93'				
15) Approxima					710012		
16) Approxima	te Depth to	Possible Voi	d (coal r	nine, karst, other	: None Anticipa	ated	
17) Does Propo directly overlyi					No.	x	
(a) If Yes, pro	ovide Mine	Info: Name					
		Depth	1:				
		Seam					

Page 1 of 3

10/06/2023-77

WW-6B (04/15)

API NO. 47- 103

OPERATOR WELL NO. Gunto Unit 2H Well Pad Name: Cedar Pad

18)

CASING AND TUBING PROGRAM

ТУРЕ	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#	11500'	11500'	CTS, 1970 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						RECEIVE Office of Oil	

PACKERS

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

Page 2 of 3

SEP 1 8 2023

WW-6B (10/14) API NO. 47- 103

OPERATOR WELL NO. Gunto Unit 2H

Well Pad Name: Coder 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

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

Office of Oil and Gas

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

Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of day 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 G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

Evillanmental 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 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.

10/06/2023 2 23

Proposed gas well ø Existing Well, as noted Digitized Well, as noted **GRID NORTH** 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 Phone: (304) 848-5035 Fax: (304) 848-5037 Bridgeport, WV 26330 J Smith DRAWN BY PARTY CHIEF: C. Lynch 1000 2000 PREPARED: August 17, 2023 J. Miller RESEARCH 123-34-G-18 PROJECT NO: SURVEYED Dec. 2016 Scale: 1 inch = 1000 feet Gunto 2H Short AOR DRAWING NO FIELD CREW C.L., K.M. Sheet 1 of 1

August 21, 2023

West Virginia Office of Oil and Gas Attn: Taylor Brewer 601 57th 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 mturco@anteroresources.com.

Sincerely,

Permitting Agent

Antero Resources Corporation

RECEIVED
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 (504) 925-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

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

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4 SECTION 11.5 AND LEGISLATIVE RULE 35CSR8 SECTION 9.2.h.8., RELATING TO THE CEMENTING OF OIL AND GAS WELLS) ORI	DER NO.	RECEIVED Office of Oil and Gas SEP 1 8 2023
DEPONT OF TH	TE OFFICE		WV Department of

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.
- Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a
 variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in
 place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment

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

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas Office of Oil and Gas SEP 1 8 2023

WV Department of Environmental Protection WW-9 (4/16)

API Number	47 -	103		
Open	ator's	Well No	. Gu	nto Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTT	NGS DISPOSAL & RECLAMATION PLAN
Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) Fishing Creek	Quadrangle Pine Grove 7.5'
Do you anticipate using more than 5,000 bbls of wat	er to complete the proposed well work? Yes No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:	No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and healed off site.)
Will a synthetic liner be used in the pit? Ye	es No V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit	Wastes:
Reuse (at API Number_	UTC Permit Number *UIC Permit # will be provided on Form WR-34 Subject to the provided on Form WR-34 To the provided on Form WR-34 The prov
Other (Explain	Northwestern Landfill Permit #SWF-1025/ WV0109410 Westel County Landfill (Permit #SWF-1021)
	es, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical a	nd horizontal)? Air, freshwater, oil based, etc. Durt/Net# Feet. Production - Water Based Must
-If oil based, what type? Synthetic, petrole	urn, etc. Synthetic
Additives to be used in drilling medium? Please Se	
Drill cuttings disposal method? Leave in pit, landfil	ll, removed offsite, etcDrill cuttings stored in tanks, removed offsite and taken to landfill.
	ium will be used? (cement, lime, sawdust) N/A
	Mesdowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410) Wetzel County Landfill (Permit #SWF-1021)
Permittee shall provide written notice to the Office of West Virginia solid waste facility. The notice shall I where it was properly disposed.	of Oil and Gas of any load of drill cuttings or associated waste rejected at any one provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of a provisions of the permit are enforceable by law. Very law or regulation can lead to enforcement action. I certify under penalty of law that I have application form and all attachments thereto and	day of August . 20 23 Notary Public STEFAN GASPAR NOTARY PUBLIC
and annument subited to a second second	STATE OF COLORADO NOTARY ID 20224043669 MY COMMESSION EXPIRES NOVEMBER 15, 2026

Operator's Well No. Gunto Unit 2H

Proposed Revegetation Treatme	nt: Acres Disturbed 71.85	5 acres	Prevegetation p	Н
Lime 2-4	Tons/acre or to correct to			
	traw or Wood Fiber (will be us			
refunzer type				
Fertilizer amount 500		lbs/acre		
Mulch 2-3 Access Road (30 Spoil 2 (4.59 acres	35 acres) + Valve Pad Access Road (0,) + Spoil 3 (3.28 acres) + Spoil 4 (2.22	ns/acre .65 acres) + Well Pad (1 acres) - Topsoil/Stripp rping 3 (6.2) acres) - 7	ng 1 (1.37 acres) Topsoil/Stri	cres) = Spoil 1 (1 24 acres) + oping 2 (2 04 acres) + Topsoil/
Temp	oorary		Perm	anent
Seed Type	lbs/acre		Seed Type	lbs/acre
Annual Ryegrass	40	Crow	nvetch	10-15
Field Bromegrass	40	Tall F	escue	30
See attached Table IV-3 for additional	I seed type (Cedar Pad Design)	See attac	ned Table IV-4A for addition	nal seed type (Cedar Pad Design
*or type of grass seed requ	ested by surface owner	*or type	of grass seed requ	ested by surface owner
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application	will be land applied, include area.	oplication (unless e dimensions (L	engineered plans incle x W x D) of the pit, ar	ading this info have been ad dimensions (L x W), and
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application	will be land applied, include area.	plication (unless e dimensions (L	engineered plans incle x W x D) of the pit, ar	ading this info have been ad dimensions (L x W), and
Attach: Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application Photocopied section of involved	will be land applied, include area.	pplication (unless e dimensions (L	engineered plans inclo	d dimensions (L x W), and
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by	will be land applied, include area. 17.5' topographic sheet.	e dimensions (L	engineered plans incli x W x D) of the pit, ar	d dimensions (L x W), and
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application Photocopied section of involved	will be land applied, include area.	e dimensions (L	engineered plans inclo	RECEIVED Office of Oil and Gas
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application Photocopied section of involved	will be land applied, include area. 17.5' topographic sheet.	e dimensions (L	engineered plans inclo	RECEIVED Office of Oil and Gas
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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 Congor 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

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

RECEIVED Office of Oil and Gas SEP 18 2023

WV Department of

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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Office of Oil and Gas
SEP 18 2023

Environmental Frotection



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)

RECEIVED And Gain

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

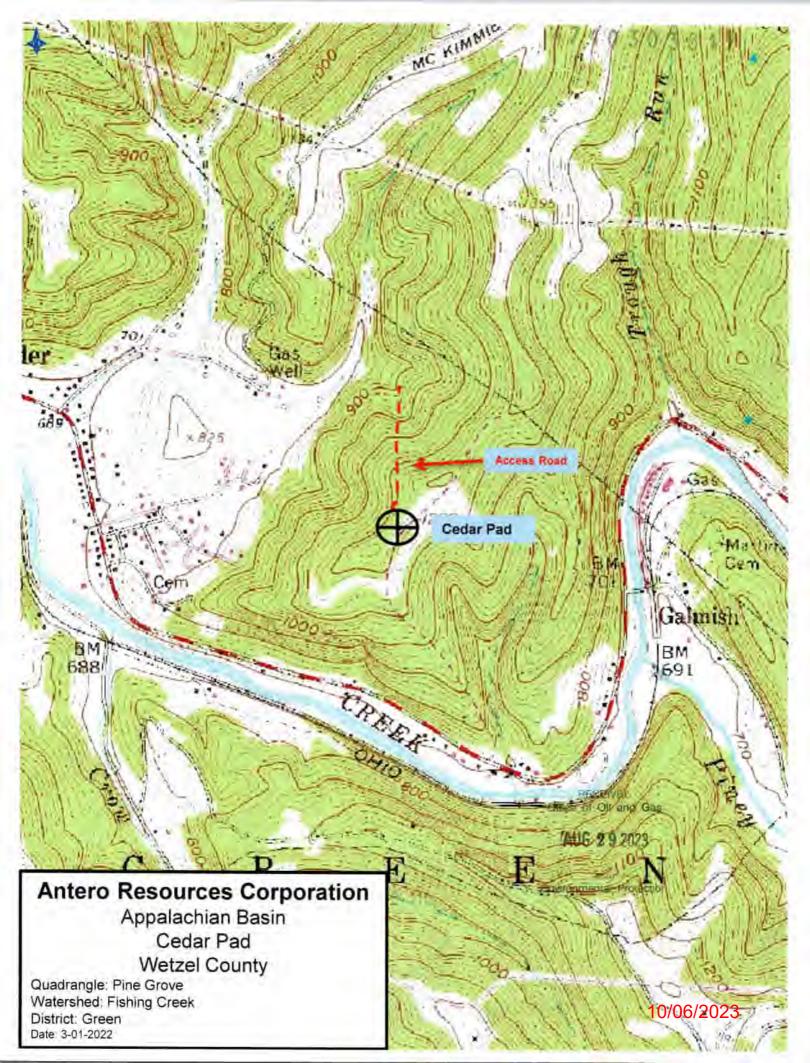
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

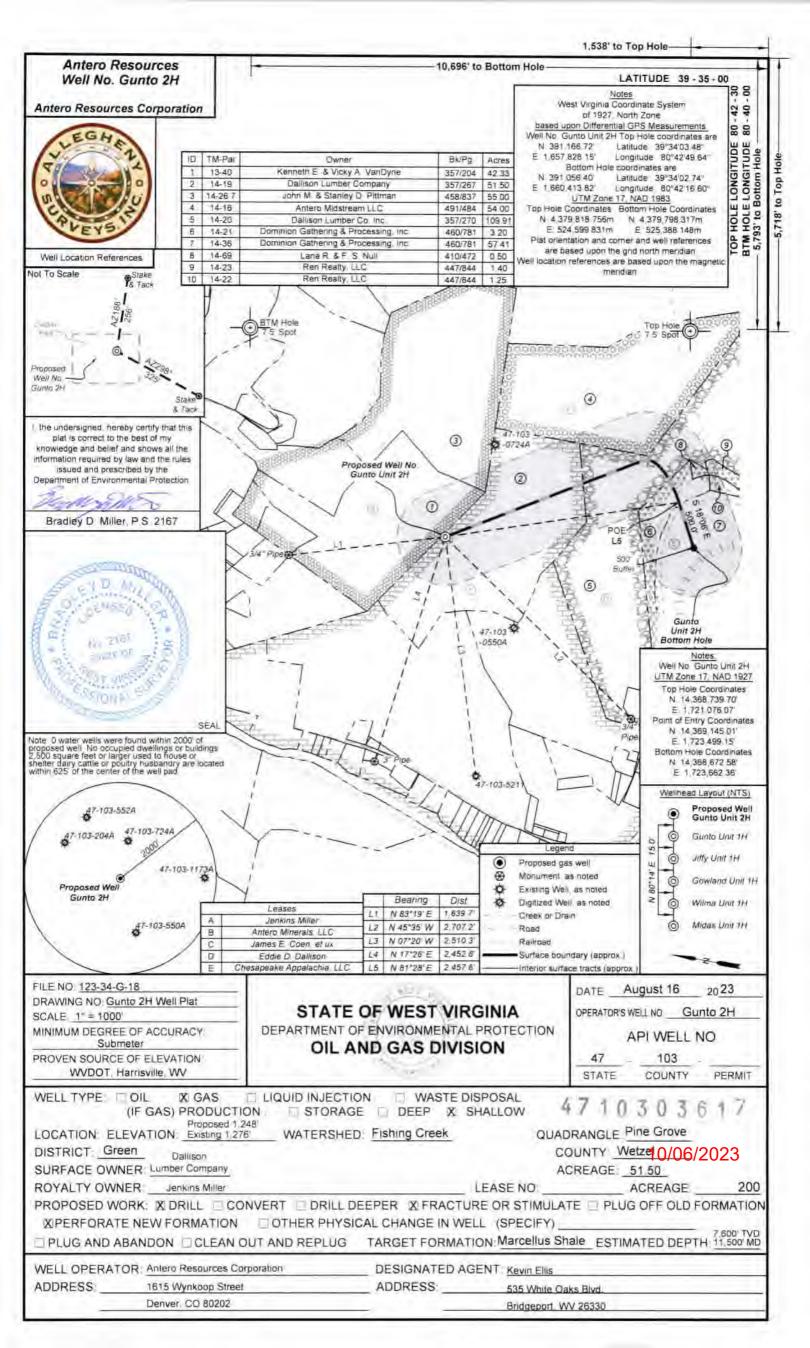
1

SEP 1 8 2023

WV Department of Environmental Protection







Operator's Well Number

Gunto Unit 2H

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
A: 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	076A/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
D: Eddie D. Dallison Lease			
Eddle D. Dallison	Antero Resources Corporation	1/8+	307A/Q447



^{*}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.

WW-6A1 (5/13)

Operator's Well No.	Gunto Unit 2H
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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)

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Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
E', Chesapeake Appalachia, LLC Lease				•
	Chesapeake Appalachia, LLC SWN Production Company LLC Antero Exchange Properties LLC	SWN Production Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merge r	157A/0640 177A/0533 0013/03 11

*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

RECEIVED Gas

The applicant further acknowledges that any Office of Oil and Gas permit in the 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 pertired in initiated.

Well Operator:	Antero Resources Corporation			
By:	Tim Rady			
Its:	Senior Vice President of Land			

Page 1 of 1

August 17, 2023

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

RE: Gunto Unit 2H

Quadrangle: Pine Grove 7.5'

Wetzel County/Green District, West Virginia

Mr. Martin:

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

Sincerely,

Kelsey Silipo Sr. Landman

Kelsefeslipe

Office of Oil and Gas

AUG Q 1933

Environmental Projection

Date of Notice Certification: 08/25/2023

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

API No. 47- 103

		C	Operator's	Well No. Gunto	o Unit 2H
		v	Well Pad I	Name: Cedar P	ad
Notice has b	2				_
		de § 22-6A, the Operator has provide	ded the rec	juired parties w	vith the Notice Forms listed
	tract of land as follows:				
State:	West Virginia		Easting:	524599.831m	
County:	Wetzel		Northing:	4379818.756m	
District:	Green	Public Road Acces		CR 52	
Quadrangle:	Pine Grove 7.5'	Generally used fan	m name:	Kenneth E. & Vici	ky A. Vandyne
Watershed:	Fishing Creek				
prescribed by it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified an ed the owners of the surface des equired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixteer	b), every permit application filed d shall contain the following inforcribed in subdivisions (1), (2) and, section sixteen of this article; (ii) a survey pursuant to subsection (a n of this article were waived in vall tender proof of and certify to the cant.	mation: (1-d (4), substitute that the real), section writing by	4) A certification (b), section (b), section (c), section	on from the operator that (intrinsic tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to Wes
		Operator has attached proof to thi	is Notice C	ertification	
that the Ope	rator has properly served the requ	ired parties with the following:			
*PLEASE CHI	CK ALL THAT APPLY				OOG OFFICE USE ONLY
🗆 1. NO	ICE OF SEISMIC ACTIVITY	or I NOTICE NOT REQUIRE	ED BECAL	USE NO	□ RECEIVED/
		SEISMIC ACTIVITY WAS			
		belowie Ac II viii WAB		144	NOTEDIATED
					NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SU	RVEY or 🔳 NO PLAT SURVE		ONDUCTED	NOT REQUIRED RECEIVED
l_		_	Y WAS C		☐ RECEIVED
l_		or NOTICE NOT REQUIRE	Y WAS CO	USE	☐ RECEIVED/
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l_		or NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PARTY WAS CONDUCTED OF WRITE WAIVER B	Y WAS CO	USE VEY	☐ RECEIVED/
■ 3. NO	FICE OF INTENT TO DRILL	or D NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PARTIES WAS CONDUCTED OF WRITE WATVER BY OFFICE ASE ATTACH)	Y WAS CO	USE VEY	RECEIVED RECEIVED NOT REQUIRED
■ 3. NO		OF DOTICE NOT REQUIRED NOTICE OF ENTRY FOR PARTIES WAS CONDUCTED OF WAS CONDUCTED OF WAS CONDUCTED WAS CONTRACTED WAS CONTRACTED WAS AUG 29 2023	Y WAS CO ED BECA AT SUR Y SURFA	USE VEY	☐ RECEIVED/
■ 3. NO	FICE OF INTENT TO DRILL	or D NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PARTIES WAS CONDUCTED OF WRITE WATVER BY OFFICE ASE ATTACH)	Y WAS CO ED BECA AT SUR Y SURFA	USE VEY	RECEIVED RECEIVED NOT REQUIRED

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.

Its:

Certification of Notice is hereby given:

THEREFORE, | 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 By:

Jon McEvers SVP of Operations

Telephone:

303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mturco@anteroresources.com

STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 2022404366 Subscribed and sworn before me this 28 day of August 2023.

Stefan Gaspar

My Commission Expires November 15.

Notary Public

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

AUG 29 2023

My Department of Environmental Protection

API NO. 47- 103 1 0 3 0 3 6 1 7

API NO. 47- 103

OPERATOR WELL NO. Gunto Unit 2H

Well Pad Name: Cedar Pad

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

Noti	ice Time Requirement: notice shall be provided no later	than the filing date of permit application.
	e of Notice: 8/28/2023 Date Permit Application Filed: ice of:	8/28/2023
☑		APPROVAL FOR THE
	WELL WORK CONSTRUCTION (OF AN IMPOUNDMENT OR PIT
Deli	very method pursuant to West Virginia Code § 22-6A	10(b)
	PERSONAL REGISTERED ME	THOD OF DELIVERY THAT REQUIRES A
	SERVICE MAIL RE	CEIPT OR SIGNATURE CONFIRMATION
regis sedin the soil a description oper more well important provides provides recording to the sedin terms of the sedin terms o	stered mail or by any method of delivery that requires a receivement control plan required by section seven of this article, a surface of the tract on which the well is or is proposed to be and gas leasehold being developed by the proposed well worribed in the erosion and sediment control plan submitted purator or lessee, in the event the tract of land on which the well e coal seams; (4) The owners of record of the surface tract of work, if the surface tract is to be used for the placement, coundment or pit as described in section nine of this article; as a water well, spring or water supply source located within fide water for consumption by humans or domestic animals; so seed well work activity is to take place. (c)(1) If more than section (b) of this section hold interests in the lands, the appends of the sheriff required to be maintained pursuant to sections of this article to the contrary, notice to a lien holder is	or pit as required by this article shall deliver, by personal service or by ipt or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1) The owners of record of located; (2) The owners of record of the surface tract or tracts overlying the k, if the surface tract is to be used for roads or other land disturbance as resuant to subsection (c), section seven of this article; (3) The coal owner, all proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed instruction, enlargement, alteration, repair, removal or abandonment of any (5) Any surface owner or water purveyor who is known to the applicant to one thousand five hundred feet of the center of the well pad which is used to and (6) The operator of any natural gas storage field within which the three tenants in common or other co-owners of interests described in licant may serve the documents required upon the person described in the ion eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. so provide the Well Site Safety Plan ("WSSP") to the surface owner and any ting as provided in section 15 of this rule.
Ø A	Application Notice WSSP Notice E&S Plan No	tice Well Plat Notice is hereby provided to:
	URFACE OWNER(s)	☐ COAL OWNER OR LESSEE
	ne: Kenneth E. & Vicky A. Vandyne / [ress; P.O. Box 311	Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:
	ler, WV 26167	Address.
Nan	ne: Dallison Lumber Company	□ COAL OPERATOR
	ress: P.O. 80x 159	Name: NO DECLARATIONS ON RECORD WITH COUNTY
	sonburg, WV 26377	Address: Office of Oil and Gas
_	URFACE OWNER(s) (Road and/or Other Disturbance)	
Add	ne:iress:	SURFACE OWNER OF WATER WELL 2023 AND/OR WATER PURVEYOR 2 2023 Name: NONE WITHIN 1500'
Nan	ne:	- andment Oi
Add	lress:	Environmenta
	<u></u>	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
_	URFACE OWNER(s) (Impoundments or Pits) ne:	Name:Address:
Add	lress:	*Please attach additional forms if necessary
		"Frease attach additional forms if necessary

710303617

API NO. 47- 193

OPERATOR WELL NO, Gunta Unit 2H

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gow/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 at the section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Glean 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 to an well to an 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 webs as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a line restriction restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-103 OPERATOR WELL NO. Gunto Unit 2H
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 article may file written comments with the secretary as to the location or construction of the applicant's proposed well work of the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) thay the written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Align: 29 2023

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

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

4710303617

API NO. 47- 103

OPERATOR WELL NO. Gunto Unit 2H

Well Pad Name: Gedar 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.

AUG 2.9 2023

WV Department of Environmental Protection

OPERATOR WELL NO. Gunto Unit 2H

Well Pad Name: Cedar Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Telephone:

mturco@anterpresources.com Email:

ON Sue Address:

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.

Subscribed and sworn before me this 28 day of August 2023.

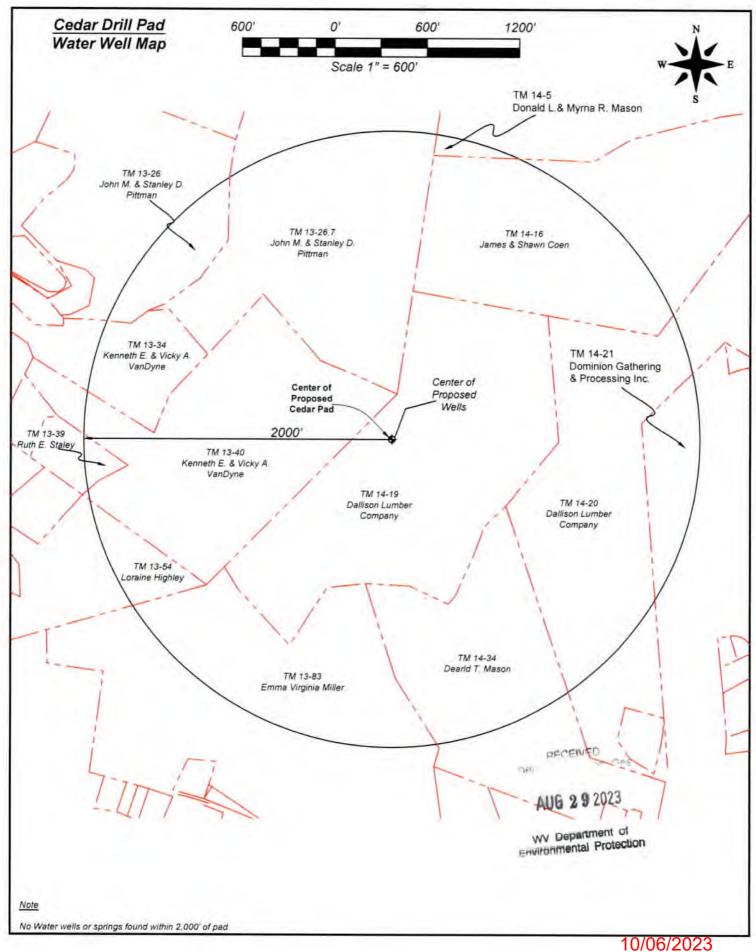
Stefan Gaspar Notary Public

My Commission Expires November 15, 2026

RECEIVED Office of Oil and Gas

AUG 2 9 2023

WV Department of Environmental Protection



WW-6A4 (1/12) Operator Well No. Gunto Unit 2H

Multiple Wells on Cedar Pad

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

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

Notice Time is	e: 06/20/2023	Notice shall be	Date Permit Ap	plication Filed	08/28/2023	
Delivery meth	hod pursuant	to West Virgin	nia Code § 22-6A-	16(b)		
☐ HAND		CERTIFIED	MAII.			
DELIVE	A		CEIPT REQUEST	ED		
						The second secon
receipt request drilling a hority of this subsect subsection materials and if available	ted or hand de zontal well: P tion as of the d ty be waived in le, facsimile no	ivery, give the rovided. That is ate the notice was writing by the mber and elect	surface owner noti notice given pursua was provided to the surface owner. The	ice of its intent to ant to subsection surface owner: ne notice, if requ of the operator	to enter upon to (a), section to Provided, how hired, shall ince and the operate	an operator shall, by certified mail return the surface owner's land for the purpose en of this article satisfies the requirement wever. That the notice requirements of the lude the name, address, telephone number's authorized representative.
	son Lumber Compan		STORY TO STANK	Name:	Kenneth E. & Vid	cky A. VanDyne
The state of the s	3ox 159			Address:		
Address: PO Box 159		1450	Reader, WV 26167-0		Reader WV 2616	7-0311
the surface ov State:	reby given: Vest Virginia C	ode § 22-6A-1	6(b), notice is here drilling a horizonta	al well on the tra	ne undersigned act of land as f Easting:	524599.831m
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of other equilatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacy officer awy your

WW-6A5 (1/12) Operator Well No. Gunto Unit 2H

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

			pplication Filed: 08/28/20		
Delivery m	ethod pursuant to West Virginia	Code §	22-6A-16(c)		
CERT	FIFIED MAIL		HAND		
	JRN RECEIPT REQUESTED		DELIVERY		
return receithe planned required to drilling of a damages to (d) The not of notice.	pt requested or hand delivery, give l operation. The notice required be be provided by subsection (b), section a horizontal well; and (3) A propo the surface affected by oil and gas	the surfa by this s ion ten o sed surf operatio e given	ace owner whose land whose time whose time shall include: If this article to a surface ace use and compensations to the extent the dama to the surface owner at the	ill be used for (1) A copy owner whose on agreement ages are comp	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 st containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addr	ess listed in the records of the sheri	ff at the	time of notice):		
Name: Kenne	eth E & Vicky A Vandyne		Name: Dalle	son Lumber Com	pany
Address: Po	D Box 311		Address: F		
Reader, WV 26	6167		Jacksonburg.	WV 26377	
Pursuant to	West Virginia Code § 22-6A-16(c) on the surface owner's land for the	, notice purpose	is hereby given that the of of drilling a horizontal w	undersigned well on the tra	well operator has developed a planned act of land as follows:
Pursuant to operation of State:	West Virginia Code § 22-6A-16(c)), notice purpose	is hereby given that the to of drilling a horizontal w UTM NAD 83 Public Road Acc	vell on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 524589.831m 4379818.756m
operation of State: County:	West Virginia Code § 22-6A-16(c) on the surface owner's land for the West Virginia Wetzel Green), notice purpose	of drilling a horizontal w UTM NAD 83	vell on the tra Easting: Northing: cess:	524589.831m 4379818.756m
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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 depprivacyofficeral wy.gov.

W Department Protection



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

Gunto Unit 2H 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

Dany K. Clayton

Central Office O&G Coordinator

Cc:

Stefan Gaspar

Antero Resources

OM, D-6 File

AUG 29.

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.)

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
9.	Ethoxylated alcohol blend	Mixture
10.	Ethoxylated Nonylphenoi	68412-54-4
	Ethoxylated oleylamine	26635- 9 3-8
	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guargum	9000-30-0
	Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	Microparticle	Proprietary
	Petroleum Distillates (BTEX Below Detect)	64742-47-8
	Polyacrylamide	57-55-6
	Propargyl Alcohol	107-19-7
	Propylene Glycol	57-55-6
	Quartz	14808-60-7
	Sillica crystalline quartz Sodium Chloride	7631-86-9
	Sodium Hydroxide	7647-14-5
	Sugar	1310-73-2
	Surfactant	57-50-1 68439-51-0
	Suspending agent (solid)	14808-60-7
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, petroleum, heavy aliph	64742- 96 -7
	Soybean Oil, Me ester	67784-80-9
	Copolymer of Maleic and Acrylic Acid	52255-49- 9
	DETA Phosphonate	15827-60-8
	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 AUG 2 9 2023
	Hexamethylene diamine penta (methylene phosphonic ac	cid) 23605-74-5
	Diethylene Glycol	111-46-6
42.	Methenamine	100-97-0 Environmental Protection
	Polyethylene polyamine	68603-67-8
	Coco amine	517 91-14-8
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7

OPERATOR:_	Antero Resources Corporation	WELL NO: Gunto Uni	t 2H
PAD NAME:_	Cedar Pad		
REVIEWED B	sy: Mallory Turco	SIGNATURE: MM	The

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

ell Restri	ctions	
	At Least 100 Feet from Pad and LOD (including any E&S Control Fe Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	ature) to any
	DEP Waiver and Permit Conditions	
\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Fe Naturally Producing Trout Stream; OR	ature) to any
	DEP Waiver and Permit Conditions	
\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control F Groundwater Intake or Public Water Supply; OR	eature) to any
	DEP Waiver and Permit Conditions	
\checkmark	At Least 250 Feet from an Existing Water Well or Developed Spring Drilled; OR	to Well Being
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
\checkmark	At Least 625 Feet from an Occupied Dwelling Structure to Center of	the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
✓	At Least 625 Feet from Agricultural Buildings Larger than 2500 Squa of the Pad; OR	
	Surface Owner Waiver and Recorded with County Clerk, OR	AUG 29 2023
	DEP Variance and Permit Conditions	W Department of Protection

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 4379662.2572 524481.4518 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

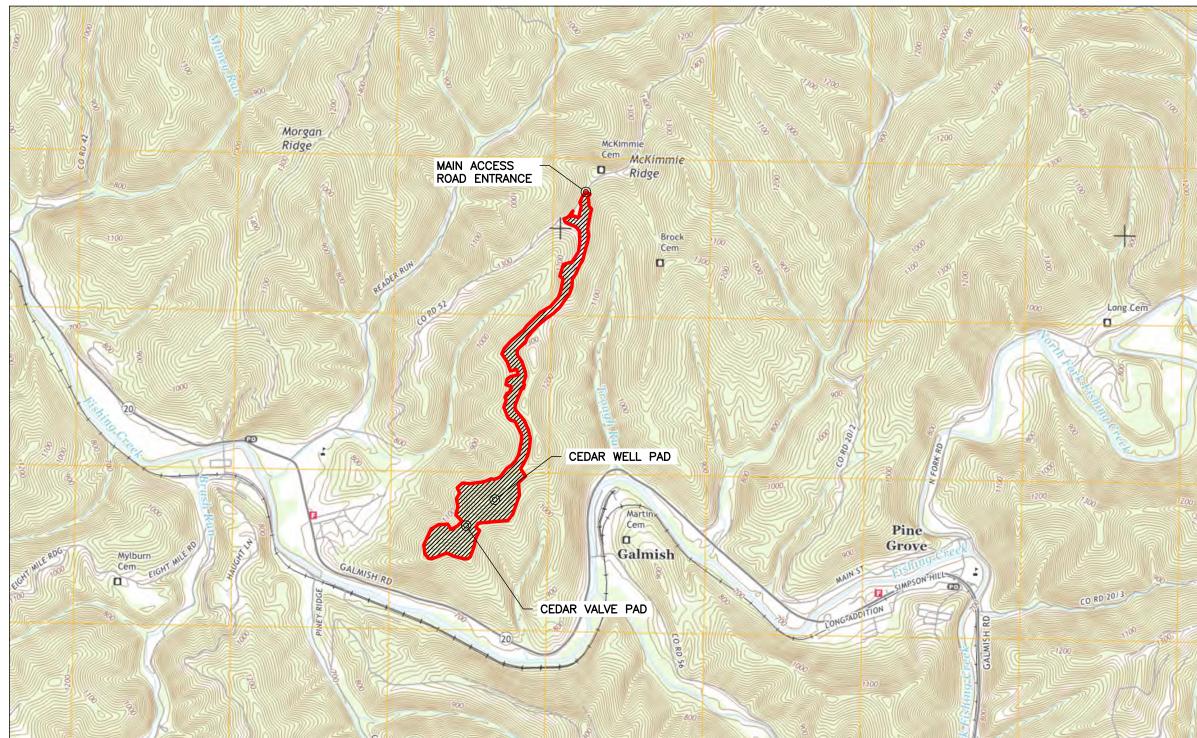
CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 120 GENESIS BLVD. BRIDGEPORT, WV 26330

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

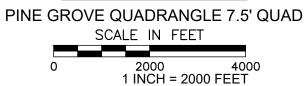
THERE ARE WETLANDS THAT WILL BE IMPACTED WITHIN 100 FEET, AND INSIDE OF THE WELL PAD LOD AND WILL NEED TO BE PERMITTED THROUGH THE

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.

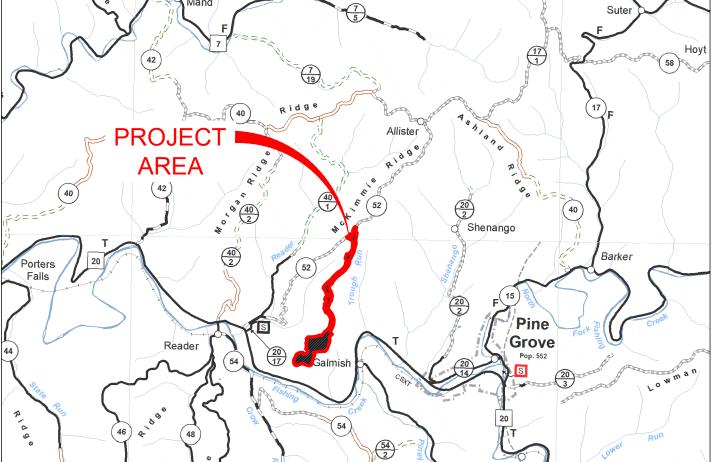
PENNSYLVANIA



LOCATION MAP







2 MILES

VICINITY MAP WETZEL COUNTY ROAD MAP SCALE IN FEET

1 MILES

1 INCH = 1 MILE

DESIGN CERTIFICATION:

10/3/2023

Eastern **Panhandle**

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

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY

SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT

WARNING: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY

BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

PLAN REPRODUCTION WARNING

REDUCTIONS, REFER TO GRAPHIC SCALE.

SCALE PLOTTING.

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.



WEST VIRGINIA STATE LAW 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			
TOTAL	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					
1		10/06	72023 TYPE OF		ICE WITHIN		
		IDENTIFIER	STREAM/WETLAND	LIMITS OF DISTURBANCE			
			STREAMING 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		
ı							

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

			Access Road	0.13
			PARCEL TOTAL	0.13
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"

C905 - RECLAMATION PLAN

C906 - RECLAMATION PLAN

C907 - RECLAMATION PLAN

ACERAGE

DISTURBANCE

PARCEL INFORMATION

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**

