

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

Friday, December 20, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit approval for Graden Unit 2H

47-103-03697-00-00

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

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

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

Operator's Well Number:

Graden Unit 2H

Farm Name:

Dallison Lumber Company

U.S. WELL NUMBER:

47-103-03697-00-00

Horizontal 6A New Drill

Date Issued: 12/20/2024

API Number: 4710303697

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 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.

47 1 0 3 0 3 6 9 7

API NO. 47-103

OPERATOR WELL NO. Graden Unit 2H

Well Pad Name: Cedar Pad

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

1) Well Opera	tor; Antero	Resources	Corporat	494507062	103 - Wetzel	Green /	Pine Grove 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's	Well Number	: Graden U	nit 2H	Well Pa	d Name: Cedar	Pad /	7
3) Farm Name	Surface Own	ner: Dallison I	Lumber Con	pany Public Ro	ad Access: CR	52	
4) Elevation, c	current ground	: As-Built -	1248' Ele	vation, proposed	post-construction	n:	
5) Well Type	(a) Gas Other	X	Oil		lerground Storag		
	(b)If Gas	Shallow	X	Deep			
		Horizontal	Х				
6) Existing Pac							
7) Proposed Ta Marcellus Sh	arget Formationale: 7600' TV	on(s), Depth(D, Anticipate	(s), Anticip d Thicknes	oated Thickness : s- 55 feet, Associ	and Expected Pro ated Pressure- 28	essure(s): 350#	
8) Proposed To	otal Vertical I	Depth: 7600	TVD /				
9) Formation a	t Total Vertic	al Depth: 1	/larcellus				
10) Proposed T	Total Measure	d Depth: 1	1300' MD	1			
11) Proposed H	Horizontal Leg	g Length: 5	00' *Op	en to modificati	on at a later dat	е	
2) Approxima	ite Fresh Wat	er Strata Dep	ths:	612'			
13) Method to	Determine Fr	esh Water D	epths: 47	103308970000 Offset we	Il records. Depths have b	een adjusted a	cording to surface elevations
4) Approxima						271 2.624/32	g in things dioranoin
5) Approxima	te Coal Seam	Depths: 10	10'				
6) Approxima	te Depth to P	ossible Void	(coal mine	e, karst, other):	None Anticipate	d	
7) Does Propo lirectly overlyi	osed well loca ng or adjacen	tion contain t to an active	coal seams mine?	Yes	No	X	
(a) If Yes, pro	vide Mine In	fo: Name:					
		Depth:	-			Office	RECEIVED of Oil and Gas
		Seam:	-				1 2 1 1 1 1 1 1 1 1
		Owner:				NOV	27 2024
						WV DE Environme	partment of ental Protection

Page 1 of 3

12/20/2024

47 10 3 0 3 6 9 7 API NO. 47-103

OPERATOR WELL NO. Graden Unit 2H
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
Conductor	20"	New	J-55	94#	100'	100'	(Cu. Ft.)/CTS CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	662'		
Coal	9-5/8"	New	J-55	36#	3200'	662' / 3200' /	CTS, 690 Cu. Ft.
Intermediate				0011	3200	3200	CTS, 1303 Cu. Ft.
Production	5-1/2"	New	P110-ICY	23#	11300'	11300'	OTO 4000 0
Tubing	2-3/8"	New	N-80	4.7#	11000	11300	CTS, 1920 Cu. Ft.
Liners				25.16			

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield
Conductor	20"	24"	0.375"	2250	50	Class A/L	(cu. ft./k) /~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	
Intermediate				3020	1500	Class AVL	~1.18
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	10
Tubing	2-3/8"	4.778"	0.19"	11,200	2000	Olass O/I I	~1.8
Liners			5,70	11,200			

PACKERS

Kind:	N/A	
Sizes:	N/A	RECEIVED
Depths Set:	N/A	Office of Oil and Gas
		NOV 27 2021

Wy Department of Environmental Protection

Page 2 of 3

12/20/2024

OPERATOR WELL NO. Graden Unit 2H

Well Pad Name: Cedar 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.

RECEIVED

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 galions of clay treat

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

WV Department of

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.

Page 3 of 3

November 19, 2024

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

RE: Request for Variance – Class L Cement
Duke Unit 1H-2H, Graden Unit 1H-2H, and Graden 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 (Duke Unit 1H-2H, Graden Unit 1H-2H, and Graden 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,

Stefan Gaspar Permitting Agent

Antero Resources Corporation

RECEIVED
Office of Oil and Gas

NOV 2 0 2024

Environmental Protection

4710303697

API Number 47 - 103 - Operator's Well No. Graden Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) Fishing Creek	Quadrangle Pine Grove 7.5'
Do you anticipate using more than 5,000 bbls of water to com	
Will a pit be used? Yes No V	AND THE TAX REPORTED THE PROPERTY OF THE PROPE
If so, please describe anticipated pit waste: No pit will be	e used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Perm	nit Number_*UIC Permit # will be provided on Form WR-34
Reuse (at API Number Future permit Off Site Disposal (Supply form W)	tted well locations when applicable. API# will be provided on Form WR-34
Other (Explain	W-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/
	<u>WV0109410</u>
Will closed loop system be used? If so, describe: Yes, fluids a	Wetzel County Landfill (Permit #SWF-1021) stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizon	
-If oil based, what type? Synthetic, petroleum, etcS	Synthetic
Additives to be used in drilling medium? Please See Attachmen	nt
Drill cuttings disposal method? Leave in pit, landfill, removed	d offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be	
	andfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Wetzel Co	ounty Landfill (Permit #SWF-1021)
West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. Violations of aw or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that have	conditions of the GENERAL WATER POLLUTION PERMIT issued irginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ad on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant aility of fine or imprisonment.
Company Official Signature Gretchen Kohler	RECEIVED
Company Official (Typed Name) Gretchen Kohler	Office of Oil and Gas
Company Official Title Director Environmental & Regulatory Con	mpliance NOV 2 0 2024
	mak who should be a single of the single of
ubscribed and sworn before me this 19th day of	Vovember, 20 24
Stefan Gaspar Ty commission expires November 15	Notary Public
Av commission avaisas 1) 21/1 m / 2 = 16	7071
ty commussion expires 100000011360011.	STEFAN GASPAR NOTARY PUBLIC STATE OF COLUMN AND AND AND AND AND AND AND AND AND AN
	STREET, CONTROL OF THE

Operator's	Well No	Graden	Unit 2H
operator 5	AA CII IAO.		

Proposed Revegetation Treatment: Acres Disturbed 71.88	Prevegetation	рН
Lime 2-4 Tons/acre or to correct to	pH 6.5	
Fertilizer type Hay or straw or Wood Fiber (will be us	sed where needed)	
Fertilizer amount 500	lbs/acre	
Mulch 2-3	ns/acre	
Access Road (30.35 acres) + Valve Pad Access Road (0. Spoil 2 (4.59 acres) + Spoil 3 (3.28 acres) + Spoil 4 (2.22 acres)	66	acres) + Spoil 1 (1.24 acres) + ipping 2 (2.04 acres) + Topsoil/
Temporary	Pern	nanent
Seed Type lbs/acre	Seed Type	lbs/acre
Annual Ryegrass 40	Crownvetch	10-15
Field Bromegrass 40	Tall Fescue	30
See attached Table IV-3 for additional seed type Cedar Pad Design)	See attached Table IV-4A for addition	nal seed type Cedar Pad Design)
*or type of grass seed requested by surface owner	*or type of grass seed requ	lested by surface owner
Maps(s) of road, location, pit and proposed area for land app provided). If water from the pit will be land applied, include acreage, of the land application area.	ligation (unlarge section 1.1.	
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	ligation (unlarge section 1.1.	
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include icreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	ligation (unlarge section 1.1.	
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include creage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	ligation (unlarge section 1.1.	
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	ligation (unlarge section 1.1.	
Attach: Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: Work leding Steat rough of the land application area.	ligation (unlarge section 1.1.	
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include creage, of the land application area. Thotocopied section of involved 7.5' topographic sheet.	ligation (unlarge section 1.1.	nding this info have been d dimensions (L x W), and
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	ligation (unlarge section 1.1.	
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, include acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	ligation (unlarge section 1.1.	nding this info have been d dimensions (L x W), and



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, DUKE UNIT 1H-2H, GRADEN UNIT 1H-2H, MARMA UNIT 1H-2H

Pad Location: CEDARPAD

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

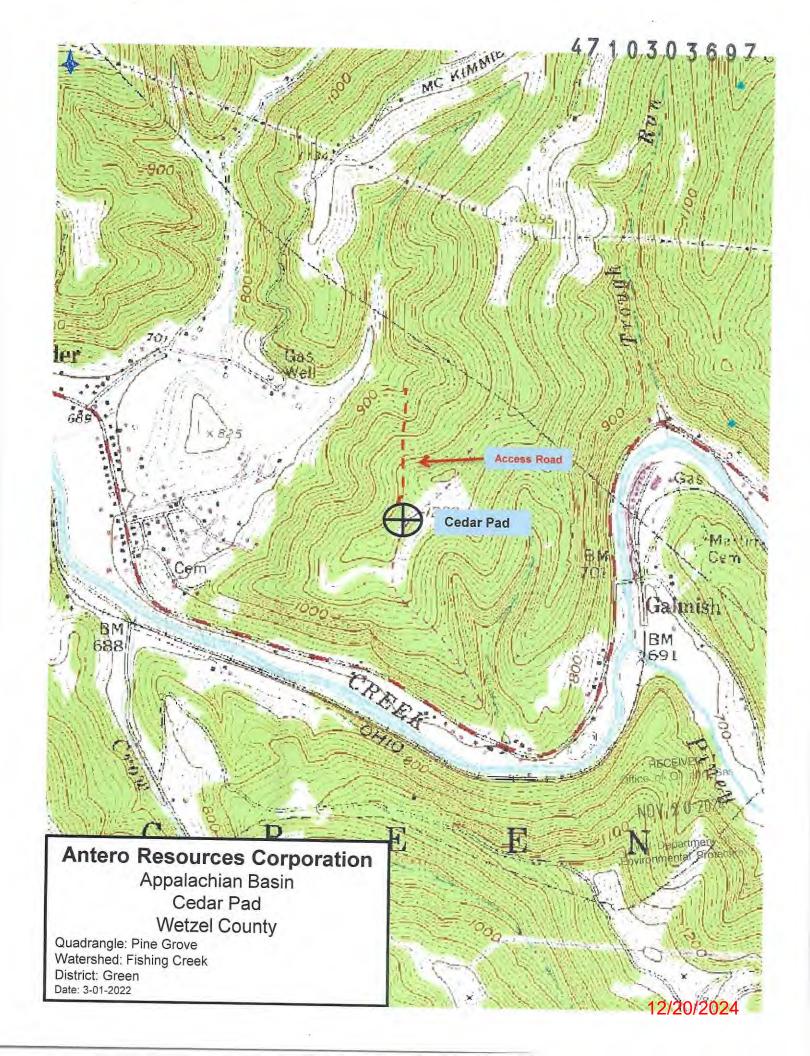
RECEIVED

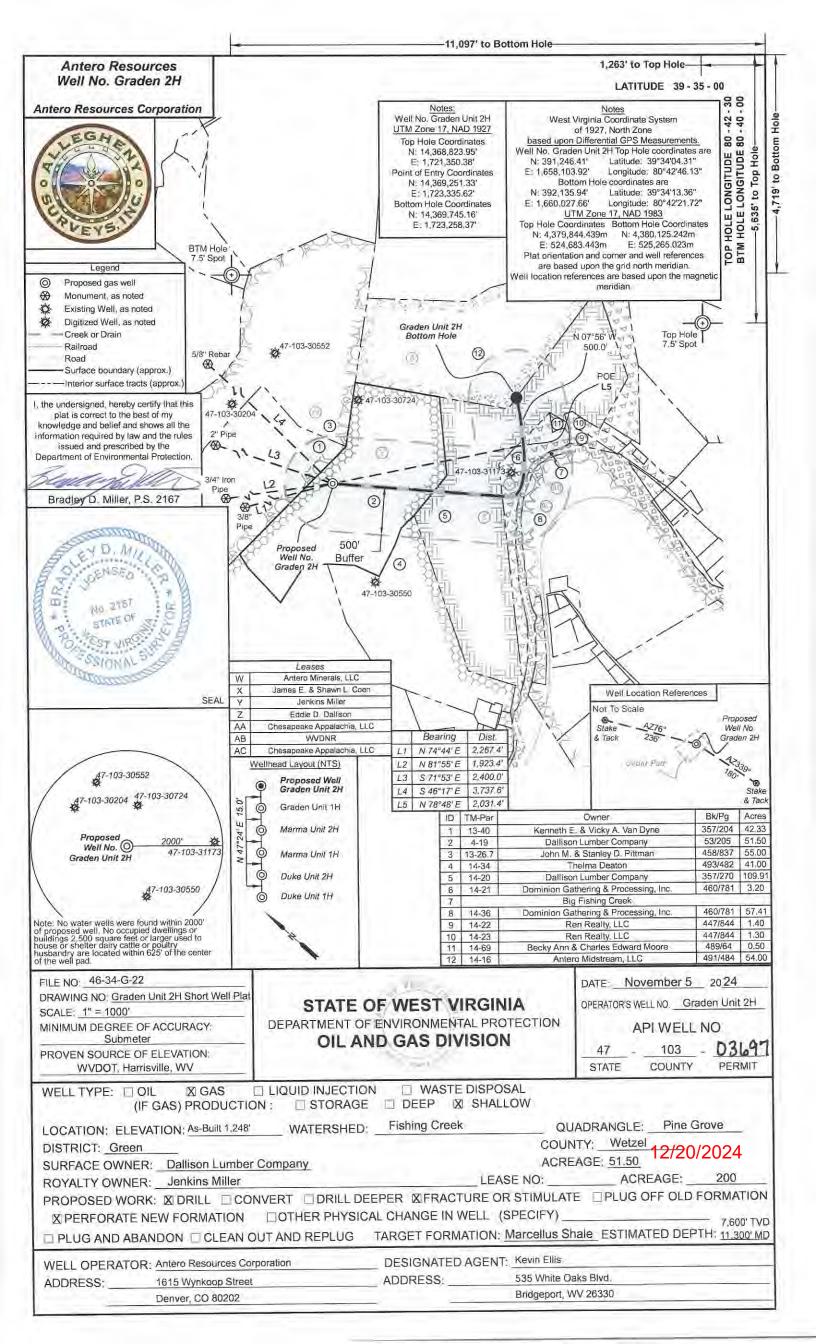
NOV 27 2024

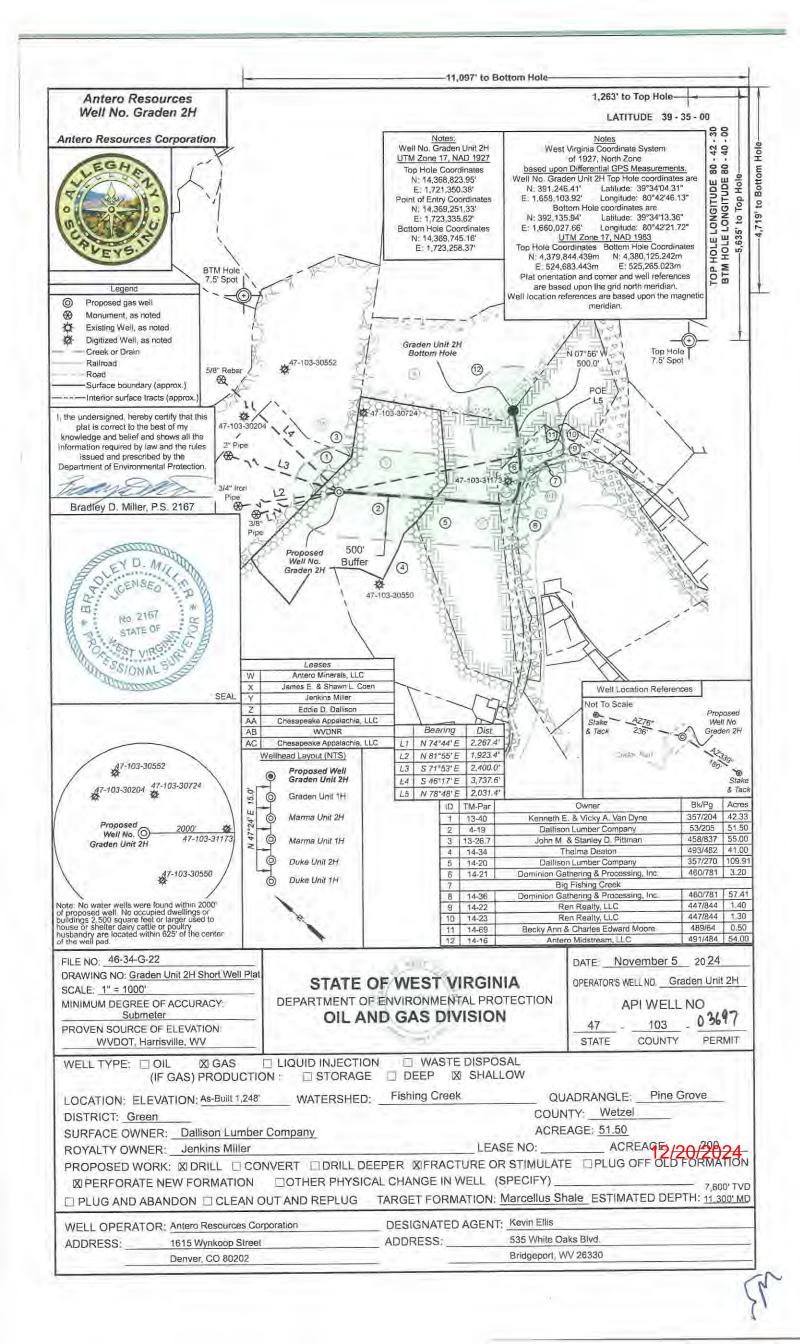
WV Department of Environmental Protection

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

1







Operator's Well Number

Graden 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 –

- 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
Y: 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
Z: Eddie D. Dallison Lease Eddie D. Dallison	Antero Resources Corporation	1/8+	307A/0447
AA: 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 Merg er	157A/0640 177A/0533 0013/0311
AB: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	323A/0541
AA: 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 0013/0311

RECEIVED

Office of Oil and Gas

NOV 2 0 2024

Department of Environmental Protection

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

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

WW-6A1 (5/13)

Operator's Well No. Graden 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deal-/D-
Z: Eddie D. Dallison Lease		, , , , , , , , , , , , , , , , , , , ,	Royalty	Book/Page
	Eddie D. Dallison	Antero Resources Corporation	1/8+	307A/0447

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

Office of Oil and Gas

NOV 2 0 2024

Environmental Protection

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

Well Operator: Antero Resources Corporation

By: Tim Rady

Its: Senior Vice President of Land

Page Lof 1

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

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

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



Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303 357.7310 Fax 303.357.7315

November 13, 2024

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

RE: Graden 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 Garden 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 Garden Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Thomas Kuhn Staff Landman

RECEIVED
Office of Oil and Gas

NOV 2 0 2024

Department of Environmental Protection

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice	is	here	by	given:
--------	----	------	----	--------

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Wetzel Chronicle			gar advertisement.
Public Notice Date: 11/6/2024-11/13/2024			
The following applicant intends to apply for a horizontal resurface excluding pipelines, gathering lines and roads or uany thirty day period.	natural well work p	permit which distr wo hundred ten th	urbs three acres or more of aousand gallons of water in
Applicant: Antero Resources Corporation	Well Numb	er: Graden Unit	2H
Address: 1615 Wynkoop St. Denver, CO 80202			
Business Conducted: Natural gas production. Location –			
State: West Virginia	County: V	Vetzel	RECEIVED
District: Green /	Quadrangle: F	ine Grove 7.5'	Office of Oil and Gas
UTM Coordinate NAD83 Northing: 4379844.436	m /		NOV 9 0 2024
UTM coordinate NAD83 Easting: 524683.442m	1		NUV 2 0 2024
Watershed: Fishing Creek /			WV Department of

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/Ilutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to <u>DEP.comments@wv.gov</u>.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

4710303697

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

Date of Noti	ce Certification: 11/18/2024	API No. 4	7- 103		
			Well No. Gra	den Unit 2H	
NT 43	and the same of th	Well Pad I	Name: Cedar	Pad	
Notice has Pursuant to the below for the	been given: he provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has provided the red			
State:	West Virginia	Easting:	524683.443m		
County:	Wetzel	UTM NAD 83 Easting: Northing:	4379844.439m		
District:	Green	Public Road Access:	CR 52		
Quadrangle:	Pine Grove 7.5'	Generally used farm name:	Dallison Lumber Company		
Watershed:	Fishing Creek				
information r of giving the requirements Virginia Code	equired by subsections (b) and (c), s surface owner notice of entry to s of subsection (b), section sixteen (c)	shall contain the following information: (14) ibed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the recurvey pursuant to subsection (a), section to f this article were waived in writing by tender proof of and certify to the secretary int.	section (b), se quirement was ten of this arti	ction ten of this article, the deemed satisfied as a result cele six-a; or (iii) the notice	
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this Notice Co ed parties with the following:	ertification	OOG OFFICE USE	
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT	JSE NO TED	RECEIVED/ NOT REQUIRED	
☐ 2. NOT	TICE OF ENTRY FOR PLAT SURV	VEY or 🔳 NO PLAT SURVEY WAS CO	NDUCTED	☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)	CE OWNER		
■ 4. NOT	TICE OF PLANNED OPERATION	REC	CEIVED	☐ RECEIVED	
■ 5. PUB	LIC NOTICE	Office of	Oil sug cre-	RECEIVED	
■ 6. NOT	TICE OF APPLICATION		2 0 2024	☐ RECEIVED	
Required At	tachmente	WV 6	nental Protecti	Off	

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.

4710303697

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 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

STEFAN GASPAR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20224043669 MY COMMISSION EXPIRES NOVEMBER 15, 2026

Subscribed and sworn before me this 19 day of November, 2024

Stefan Gaspar

Notary Public

My Commission Expires November 16, 2026

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

> > NOV 2 0 2024

WV Department of Environmental Protection WW-6A (9-13) 471 0 3 0 3 6 9 7
API NO. 47- 103
OPERATOR WELL NO. Graden Unit 2H
Well Pad Name: Cedar Pad

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

Not	ice Time Requirem	ent: notice shall be provide	ded no later that	an the filing date of permit application.	
Dat		Date Permit Applicat			
1	PERMIT FOR AN	Y CERTIFIC	CATE OF API	PROVAL FOR THE	
	WELL WORK			AN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virginia Co	de § 22-6A-10	O(b)	
	PERSONAL	REGISTERED	✓ METH	10D 01 DD1 11 DD	
	SERVICE	MAIL		IOD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION	
regiss sedir the social and description operation operat	tered mail or by any retered to the tract on and gas leasehold being ribed in the erosion are ator or lessee, in the erosion search or lessee, in the erosion search or pit as designed water well, spring or de water for consumposed well work activities action (b) of this section (b) of this section of this article to R. § 35-8-5.7.a requirement control of the section of this article to	method of delivery that required by section seven of the which the well is or is proper and sediment control plan sevent the tract of land on whowners of record of the surfact is to be used for the plantarist is to take place. (c)(1) If on hold interests in the lantarist to be maintained pursuate to be maintained pursuate contrary, notice to a lie ires, in part, that the opera	oundment or provided as a receipt of a stricle, and to posed to be located well work, if abmitted pursua hich the well purface tract or tracement, construis article; (5) A sted within one ic animals; and more than threeds, the applicant to section each holder is not tor shall also provided in the strick of th	e of the application, the applicant for a permit for any it as required by this article shall deliver, by personal or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The ated; (2) The owners of record of the surface tract of the surface tract is to be used for roads or other land and to subsection (c), section seven of this article; (3) roposed to be drilled is located [sic] is known to be acts overlying the oil and gas leasehold being develoration, enlargement, alteration, repair, removal or althousand five hundred feet of the center of the well (6) The operator of any natural gas storage field with the tenants in common or other co-owners of interests at may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) In notice to a landowner, unless the lien holder is the I rovide the Well Site Safety Plan ("WSSP") to the su as provided in section 15 of this rule.	the erosion and the owners of record of tracts overlying the didisturbance as The coal owner, underlain by one or oped by the proposed bandonment of any to the applicant to pad which is used to thin which the didescribed in the Notwithstanding any to the applicant of the pad which is used to the didescribed in the Notwithstanding any to the proposed to the pad which is used to the pad which is used to the pad which is used to the pad which the same part of the pad which is the
				☑ Well Plat Notice is hereby provided to:	
J SU	RFACE OWNER(s)			☐ COAL OWNER OR LESSEE	
	e: Dallison Lumber Compa	ny		Name: NO DECLARATIONS ON RECORD WITH COUNTY	
	ess: P.O. Box 159			Address:	
	nburg, WV 26377				-
	: Kenneth E. & Vicky A. V.	anDyne		□ COAL OPERATOR	_
	ess: P.O. Box 311			Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Reade	r, WV 26167			Address:	-3
SU	RFACE OWNER(s)	(Road and/or Other Distr	urbance)		-
Name	SEE ATTACHMENT			SURFACE OWNER OF WATER WELL	_
Addr	ess:				OF NED
				Name: NONE WITHIN 1500	RECEIVED
Vame	e:			Name: NONE WITHIN 1500' Office Address:	or Oll and das
Addr	ess:			Address:	0 0004
				OPERATOR OF ANY NATURAL GAS STO	IN 2 0 ZUZ4
SU	RFACE OWNER(s)	(Impoundments or Pits)		Name.	IVAOR LIEFD
Vame		(Name:	- epartment of
Addre	ess:			Address: Envcom	mmental Protection
				*Please attach additional forms if necessary	
				2 - 2000 ditaon additional forms if fiecessary	

47 10 3 0 3 6 9 7

OPERATOR WELL NO, Graden 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.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir, (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at heast one close 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. 477031 0 3 0 3 6 9 7 OPERATOR WELL NO. Graden 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 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 before the location or construction of the applicant's proposed well work to the Secretary at:

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

NOV 20 2024

WV Department & Environmental Protection

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

WW-6A (8-13) 4710303697

OPERATOR WELL NO. Graden Unit 2H
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 entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article shall be considered by the sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

WW-6A (8-13)

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

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone:

(303) 357-7310

mturco@anteroresources.com Email:

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

STEFAN GASPAR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20224043669
MY COMMISSION EXPIRES NOVEMBER 15, 2026

Subscribed and sworn before me this 19 day of November, 2024

Stefan Gaspar

Notary Public

My Commission Expires November 15, 2026

RECEIVED Office of Oil and Gas

NOV 2 0 2024

Department of Environmental Protection

Operator Well No. Graden 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.

Date of Noti						
Delivery me	thod pursuant	to West Virginia Code	§ 22-6A-16(b)			
☐ HAND		CERTIFIED MAIL				
DELIVI		RETURN RECEIPT R	EQUESTED			
drilling a hor of this subsection m	sted or hand delizontal well: Petion as of the deay be waived in	livery, give the surface or rovided, That notice give ate the notice was provide writing by the surface or writing by writing by writing by writing by writing by writing by writing by writing by writing by writing	days prior to filing a perrowner notice of its intention pursuant to subsection ded to the surface owner: owner. The notice, if required address of the operator	to enter upon to a (a), section to Provided, ho aired, shall inc	the surface owner's la ten of this article satis: wever, That the notice clude the name, address	nd for the purpose of fies the requirements requirements of this
Notice is he Name: Dal	reby provided ison Lumber Company	d to the SURFACE C		Vannak F. 9.10	To A V B	
Address: PO			Name: Address:	Kenneth E. & Vid PO Box 311	cky A. VanDyne	
Control of the Contro			Address.		Situal Watts	
Notice is he Pursuant to V the surface ov	Vest Virginia Co	ode § 22-6A-16(b), noti	ce is hereby given that the	ne undersigned teet of land as f Easting:	well operator has an	intent to enter upon
Notice is he Pursuant to V the surface ov	reby given: Vest Virginia Co wner's land for t	ode § 22-6A-16(b), noti	ce is hereby given that th horizontal well on the tra	e undersigned	well operator has an	intent to enter upon
Notice is he Pursuant to V the surface ov State:	reby given: Vest Virginia Co wner's land for t West Virginia	ode § 22-6A-16(b), noti	ce is hereby given that the horizontal well on the tra	e undersigned ect of land as f Easting:	l well operator has an ollows: 524683.443m	intent to enter upon
Notice is he Pursuant to V the surface ov State: County:	reby given: Vest Virginia Co wner's land for t	ode § 22-6A-16(b), noti	horizontal well on the tra UTM NAD 83	e undersigned act of land as f Easting: Northing:	l well operator has an collows: 524683.443m 4379844.439m	intent to enter upon
Notice is he Pursuant to V the surface ov State: County: District:	reby given: Vest Virginia Co wner's land for West Virginia Wetzel	ode § 22-6A-16(b), noti	horizontal well on the tra UTM NAD 83 Public Road A	e undersigned act of land as f Easting: Northing: ccess:	I well operator has an collows: 524683.443m 4379844.439m CR 52	
Notice is he Pursuant to V	reby given: Vest Virginia Co wner's land for t West Virginia Wetzel Green	ode § 22-6A-16(b), noti	horizontal well on the tra UTM NAD 83	e undersigned act of land as f Easting: Northing: ccess:	l well operator has an collows: 524683.443m 4379844.439m	
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	reby given: Vest Virginia Covner's land for the West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include West Virginia Conber and electrosizontal drilling	cities and the purpose of drilling a cities purpose of drilling a cities and the purpose of drilling a cities and the purpose of drilling a cities and the cities are also are also and the cities are also are al	horizontal well on the tra UTM NAD 83 Public Road A	te undersigned tet of land as f Easting: Northing: ecess: farm name:	I well operator has an follows: 524683.443m 4379844.439m CR 52 Dallison Lumber Company aress, telephone numbered representative. Adopt Finvironmental Professional Company	er, and if available, ditional information tection headquarters, pages/default.aspx.
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601	reby given: Vest Virginia Covner's land for the West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include West Virginia Conber and electrosizontal drilling	code § 22-6A-16(b), notice the purpose of drilling a control of the purpose of drilling a control of the purpose of drilling a control of the purpose of drilling a control of the purpose of the purpos	horizontal well on the tra UTM NAD 83 Public Road Ac Generally used is notice shall include the operator and the operator at the WV	te undersigned tet of land as f Easting: Northing: ecess: farm name:	I well operator has an follows: 524683.443m 4379844.439m CR 52 Dallison Lumber Company aress, telephone numbered representative. Adopt Finvironmental Professional Company	er, and if available,
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600	reby given: Vest Virginia Covner's land for the West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include West Virginia Covner and electrosizontal drilling 57th Street, SE	cities by 22-6A-16(b), notice the purpose of drilling a cities by 22-6A-16(b), the conic mail address of the may be obtained from the conic to the conic to the conic may be obtained from the conic to	horizontal well on the tra UTM NAD 83 Public Road Ac Generally used is notice shall include the operator and the operathe Secretary, at the WV 4 (304-926-0450) or by voice of the Secretary.	te undersigned act of land as for Easting: Northing: ccess: farm name: the name, add ator's authoriz Department of isiting www.d	l well operator has an collows: 524683.443m 4379844.439m CR 52 Dallison Lumber Company aress, telephone number ded representative. Adof Environmental Protep.wv.gov/oil-and-gas	er, and if available, ditional information tection headquarters, pages/default.aspx.
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	reby given: Vest Virginia Covner's land for the West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include West Virginia Country Fishing Creek Shall Include Fishing Creek	cities between the purpose of drilling a cities purpose of drilling a cities purpose of drilling a cities cities and cities and cities and cities are cities and cities and cities are cities and cities and cities are cities are cities are cities and cities are cities are cities and cities are cities are cities are cities and cities are citi	horizontal well on the tra UTM NAD 83 Public Road Ac Generally used is notice shall include the operator and the operathe Secretary, at the WV 4 (304-926-0450) or by voice of the Secretary.	te undersigned tet of land as f Easting: Northing: ecess: farm name:	l well operator has an follows: 524683.443m 4379844.439m CR 52 Dallison Lumber Company aress, telephone number representative. Adof Environmental Protep.wv.gov/oil-and-gas	er, and if available, ditional information tection headquarters, pages/default.aspx.
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	reby given: Vest Virginia Covner's land for a West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include West Virginia Conber and electro- izontal drilling 57 th Street, SE reby given by T: Antero Resource	code § 22-6A-16(b), notice the purpose of drilling a control of the purpose of drilling a code § 22-6A-16(b), the control of the code § 22-6A-16(b), t	horizontal well on the tra UTM NAD 83 Public Road Address Generally used is notice shall include the operator and the operathe Secretary, at the WV4 (304-926-0450) or by value of the Secretary of the Secretary.	te undersigned act of land as for Easting: Northing: ccess: farm name: the name, add ator's authoriz Department of isiting www.d	I well operator has an follows: 524683.443m 4379844.439m CR 52 Dallison Lumber Company Aress, telephone numbered representative. Adof Environmental Protection of Env	er, and if available, ditional information tection headquarters, pages/default.aspx. RECEIVED Office of Oil and G
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address: Telephone:	reby given: Vest Virginia Covner's land for the West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include West Virginia Conber and electroizontal drilling 57th Street, SE reby given by T: Antero Resource 1615 Wynkoop	code § 22-6A-16(b), notice the purpose of drilling a control of the purpose of drilling a code § 22-6A-16(b), the control of the code § 22-6A-16(b), t	horizontal well on the tra UTM NAD 83 Public Road Address Generally used is notice shall include the operator and the operathe Secretary, at the WV4 (304-926-0450) or by value of the Secretary of the Secretary.	te undersigned act of land as for Easting: Northing: ccess: farm name: the name, add ator's authoriz Department of isiting www.d	I well operator has an follows: 524683.443m 4379844.439m CR 52 Dallison Lumber Company Tress, telephone numbered representative. Adof Environmental Protep.wv.gov/oil-and-gas Mallory Turco 1615 Wynkoop St. Denver, CO 80202 303-357-7223	er, and if available, ditional information tection headquarters, spages/default.aspx. RECEIVED Office of Oil and G
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600	reby given: Vest Virginia Covner's land for the West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Shall Include West Virginia Country Fishing Creek Shall Include Fishing Creek Fishing Creek Shall Include Fish	e: Code § 22-6A-16(b), notice the purpose of drilling a control of the purpose of drilling a code § 22-6A-16(b), the code § 22-6A-16(b), the code is a code of the	horizontal well on the tra UTM NAD 83 Public Road Action Generally used is notice shall include the operator and the operathe Secretary, at the WV4 (304-926-0450) or by value Authorized For Address:	te undersigned act of land as for Easting: Northing: ccess: farm name: the name, add ator's authoriz Department of isiting www.d	I well operator has an follows: 524683.443m 4379844.439m CR 52 Dallison Lumber Company Aress, telephone numbered representative. Adof Environmental Protection of Env	er, and if available, ditional information tection headquarters, spages/default.aspx. RECEIVED Office of Oil and G

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.

Operator Well No. Graden Unit 2H

4710303697

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

Date of Noti	Requirement: notice shall be provided: 11/19/2024 Date Pern	nit Application Filed: 11	/19/2024		
Delivery me	thod pursuant to West Virginia Co	de § 22-6A-16(c)			
■ CERTI	FIED MAIL	☐ HAND			
	RN RECEIPT REQUESTED	DELIVERY			
the planned or required to be drilling of a damages to the	W. Va. Code § 22-6A-16(c), no later t requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed the surface affected by oil and gas ope es required by this section shall be gi	his subsection shall inclute of this article to a sur- surface use and compen	d will be used for ide: (1) A copy face owner whose sation agreement	of the drilling of this code se land will at containing	ng of a horizontal well notice of le section; (2) The information be used in conjunction with the g an offer of compensation for
(at the addres	eby provided to the SURFACE OW s listed in the records of the sheriff at Lumber Company	the time of notice):	Kenneth E, & Vicky A.	VanDyne	
Address: P.O.		Addres	s: P.O. Box 311		
Address: P.O. Jacksonburg, WV Notice is here Pursuant to W	eby given: Vest Virginia Code § 22-6A-16(c), no	Reader,	s: P.O. Box 311 WV 26167	well operato	r has developed a planned
Address: P.O. Jacksonburg, WV Notice is here Pursuant to W operation on State: County:	26377	tice is hereby given that toose of drilling a horizonta	s: P.O. Box 311 wv 26167 the undersigned valued well on the tra Easting: Northing:	ct of land as 524683.443m 4379844.439n	s follows:
Address: P.O. Jacksonburg, WV Notice is here Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(c), note the surface owner's land for the purp West Virginia Wetzel	tice is hereby given that toose of drilling a horizonta UTM NAD 8 Public Road	s: P.O. Box 311 wv 26167 the undersigned valuel on the tra Easting: Northing: Access:	524683.443m 4379844.439m CR 52	s follows:
Address: P.O. Jacksonburg, WV Notice is here Pursuant to W	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purpowest Virginia Wetzel Green	tice is hereby given that toose of drilling a horizonta UTM NAD 8 Public Road	s: P.O. Box 311 wv 26167 the undersigned valued well on the tra Easting: Northing:	ct of land as 524683.443m 4379844.439n	s follows:
Address: P.O. Jacksonburg, WV Notice is here Pursuant to Wooperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Woo be provide norizontal welcompared affects information re-	eby given: Vest Virginia Code § 22-6A-16(c), nor the surface owner's land for the purp West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Hall Include: Vest Virginia Code § 22-6A-16(c), thi d by W. Va. Code § 22-6A-10(b) to ll; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be clocated at 601 57th Street, SE.	tice is hereby given that toose of drilling a horizonta UTM NAD 8 Public Road Generally use s notice shall include: (1) to a surface owner whose d compensation agreement of the compensation agreement of the compensation of	s: P.O. Box 311 wv 26167 the undersigned valued on the tra Easting: Northing: Access: ed farm name: A copy of this of land will be untransable undersigned to the containing an ompensable undersigned to the containing and	524683.443m 4379844.439m CR 52 Dallison Lumber code section sed in conjugation offer of core er article six	er Company er Company (2) The information required unction with the drilling of a mpensation for damages to the k-b of this chapter. Additional to f Environmental Protection ing www.dep.wycgov/oil-and-
Address: P.O. Jacksonburg, WV Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal wel ourface affect information re neadquarters, ras/pages/defa	eby given: //est Virginia Code § 22-6A-16(c), nor the surface owner's land for the purp West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek //est Virginia Code § 22-6A-16(c), thi d by W. Va. Code § 22-6A-10(b) to ll; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be elated at 601 57th Street, SE, Coult.aspx.	rtice is hereby given that toose of drilling a horizonta UTM NAD 8 Public Road Generally use s notice shall include: (1) to a surface owner whose d compensation agreement the damages are constained from the Secret contained	s: P.O. Box 311 wv 26167 the undersigned valued on the tra a Easting: Northing: Access: ed farm name: A copy of this of a land will be undersigned and ary, at the WV (304-926-0450)	ct of land as 524683.443m 4379844.439m CR 52 Dallison Lumber code section sed in conjugifier of cor er article six Department or by visiti	er Company er Company (2) The information required unction with the drilling of a mpensation for damages to the k-b of this chapter. Additional
Address: P.O. Jacksonburg, WV Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide a provide a provide a provide a ffector formation re deadquarters, gas/pages/defa	eby given: Vest Virginia Code § 22-6A-16(c), nor the surface owner's land for the purp West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Hall Include: Vest Virginia Code § 22-6A-16(c), thi d by W. Va. Code § 22-6A-10(b) to dil; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be clocated at 601 57th Street, SE, Coult.aspx.	tice is hereby given that toose of drilling a horizonta UTM NAD 8 Public Road Generally use s notice shall include: (1) to a surface owner whose d compensation agreement of the compensation agreement of the compensation of	s: P.O. Box 311 wv 26167 the undersigned valued on the tra Easting: Northing: Access: ed farm name: A copy of this of land will be untransable undersigned to the containing an ompensable undersigned to the containing and	ct of land as 524683.443m 4379844.439m CR 52 Dallison Lumber code section sed in conjugifier of cor er article six Department or by visiti	er Company er Company (2) The information required unction with the drilling of a mpensation for damages to the k-b of this chapter. Additional to f Environmental Protection ing www.dep.wycgov/oil-and-
Address: P.O. Jacksonburg, WV Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: Phis Notice Separation to Woo be provide norizontal well- purface affects information releadquarters,	eby given: //est Virginia Code § 22-6A-16(c), nor the surface owner's land for the purp West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek //est Virginia Code § 22-6A-16(c), thi d by W. Va. Code § 22-6A-10(b) to ll; and (3) A proposed surface use an ed by oil and gas operations to the elated to horizontal drilling may be elated at 601 57th Street, SE, Coult.aspx.	rtice is hereby given that toose of drilling a horizonta UTM NAD 8 Public Road Generally use s notice shall include: (1) to a surface owner whose d compensation agreement the damages are constained from the Secret contained	s: P.O. Box 311 wv 26167 the undersigned valued on the tra a Easting: Northing: Access: ed farm name: A copy of this of a land will be undersigned and ary, at the WV (304-926-0450)	ct of land as 524683.443m 4379844.439m CR 52 Dallison Lumber code section sed in conjugifier of cor er article six Department or by visiti	er Company er Company er; (2) The information required unction with the drilling of a mpensation for damages to the x-b of this chapter. Additional tof Environmental Protection ing www.dep.ww.gov/oil-and-Office of Oil and Gas

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four
Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

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

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

November 8, 2024

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

Subject: DOH Permit for the Cedar Well Pad, Wetzel County

Marma Unit 1H Well Site Marma Unit 2H Well Site Duke Unit 1H Well Site

Duke Unit 2H Well Site Graden Unit 1H Well Site Graden 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 Corporation for access to the State Road for a well site located off Wetzel County Route 52 SLS MP 1.72.

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,

RECEIVED
Office of Oil and Gas

NOV 2 0 2024

WV Department of Environmental Protection

Lacy D. Pratt

Central Office O&G Coordinator

Cc:

Stefan Gaspar Antero Resources Corporation

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

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
1.	The state of the s	7732-18-5
2.	1,2,4 modi boxyiic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
9.	Ethoxylated alcohol blend	Mixture
10.	Ethoxylated Nonylphenol	68412-54-4
11.	Ethoxylated oleylamine	26635-93-8
	Ethylene Glycol	107-21-1
	Glycol Ethers Guar gum	111-76-2
		9000-30-0
	Hydrogen Chloride	7647-01-0
17	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
10.	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	Microparticle	Proprietary
20.	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
25.	Sillica crystalline quartz	7631-86-9
	Sodium Chloride	7647-14-5
	Sodium Hydroxide	1310-73-2
	Sugar	57-50-1
	Surfactant	68439-51-0
11 -	Suspending agent (solid)	14808-60-7
7.	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
2. 3	Solvent Naptha, petroleum, heavy aliph	64742-96-7
	Soybean Oil, Me ester	67784-80-9
4. L	Copolymer of Maleic and Acrylic Acid	52255-49-9
	DETA Phosphonate	15827-60-8 RECEIVED
7 1	lexamythylene Triamine Penta	34690-00-1 Office of Oil and Gas
0 1	Phosphino Carboxylic acid polymer	71050-62-9
0, 1	lexamethylene diamine penta	23605-74-5 NOV 2 0 2024
9. 2	-Propenoic acid, polymer with 2 propenamide	9003-06-9
1 -	lexamethylene diamine penta (methylene phosphonic ac	id) 23605-74-5 WV Department of
	Diethylene Glycol	111-46-6 Environmental Protection
	Methenamine	100-97-0
	olyethylene polyamine	68603-67-8
	oco amine	61791-14-8
3. 2	-Propyn-1-olcompound with methyloxirane	38172-91-7

OPERATOR:_	Antero Resources Corporation	WELL NO: Graden Unit 2H	
PAD NAME:_	Cedar Pad		
REVIEWED B	Y: Stefan Gaspar	SIGNATURE: Segm	

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions	
At Least 100 Feet from Pad and LOD (including any E&S Con Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	ntrol Feature) to any
DEP Waiver and Permit Conditions	
At Least 300 Feet from Pad and LOD (including any E&S Con Naturally Producing Trout Stream; OR	atrol Feature) to any
DEP Waiver and Permit Conditions	
At Least 1000 Feet from Pad and LOD (including any E&S Co Groundwater Intake or Public Water Supply; OR	ntrol Feature) to any
DEP Waiver and Permit Conditions	
At Least 250 Feet from an Existing Water Well or Developed S Drilled; OR	Spring to Well Being RECEIVED Office of Oil and Gas
Surface Owner Waiver and Recorded with County Clerk	
DEP Variance and Permit Conditions At Least 625 Feet from an Occupied Dwelling Structure to Cent	WV Department of Environmental Protection
Surface Owner Waiver and Recorded with County Clerk	
DEP Variance and Permit Conditions	
At Least 625 Feet from Agricultural Buildings Larger than 2500 of the Pad; OR	Square Feet to the Center
Surface Owner Waiver and Recorded with County Clerk	, OR
DEP Variance and Permit Conditions	