

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, February 17, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit approval for WAGNER B 5V Re:

47-017-06949-00-00

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

Operator's Well Number:

WAGNER B 5V

Farm Name:

PERRY NEAL PERINE SR

U.S. WELL NUMBER:

47-017-06949-00-00

Horizontal 6A

New Drill

Date Issued: 2/17/2023

API	Number:	

PERMIT CONDITIONS 4701706949

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. 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: February 15, 2023 ORDER NO.: 2023-W-2

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 January 5, 2023, Antero submitted a well work permit application identified as API# 47-017-06949. The well is located on the Wagner B Pad in the Greenbrier District of Wetzel County, West Virginia.
- 4. On February 13, 2023, Antero requested a waiver for Wetland 02 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# 47-017-06949.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland 02 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-017-06949. The Office of Oil and Gas hereby **ORDERS** that Antero shall meet the following site construction and operational requirements for the Wagner 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. Wetland 02 shall be protected by the pad perimeter berm, two rows of straw wattles, and two rows of forty-two inch (42") SMART Fence. 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 15th day of February 2023.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:

JAMES A. MARTIN, CHIEF

11/3/14	API Number:
Wetland and Perennial Stream Waiver Request	Operator's Well Number:
Well Operator: Antero Resources Corp	poration
Well Number:	Well Pad Name: Wagner B Well Pad
	Doddridge County, Greenbrier District, Big Isaac Quadrangle

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

11/3/14				
Wetland and	Perennial	Stream	Waiver	Request

API Number:	
Operator's Well Number:	

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The Wagner B Pad is located in Doddridge County, West Virgina. The site is accessed from Standing Stone Rd (CO-25/7) and is immediately adjacent to the existing Wagner well pad. The proposed Wagner B well pad elevation is approximately 1311'. This Wagner B pad will be generally in the location of the existing AST pad for the original Wagner well pad. The waiver is being sought for Wetland 2 shown on the plans. The area immediately upslope of this wetland is the fill slope of the existing Wagner well pad. This existing slope will remain undisturbed immediately upslope of the wetland. This provides a vegetative buffer in addition to the double E&S controls. The majority of the site land cover, including the area associated with Wetland 2 is previously disturbed ground related to the existing Wagner well pad.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.
 - a. Include a No-Action Alternative as to show "the future without the project"
 - b. Location Alternatives must be shown
 - c. Must demonstrate why a one hundred foot buffer cannot be maintained
 - d. Describe how the proposed project is the least environmentally damaging practicable alternative
 - a. A no-action alternative would inhibit Antero's ability to develop their oil and gas mineral rights in the most efficient and safe manner while minimizing environmental impacts. A no-action alternative would leave the wetland in it's current condition.
 - b. Several options for the pad location were reviewed. Option 1 was to develop the minerals from the existing Wagner well pad. After review with our operational teams, it was determined the existing pad is not large enough to support our modern operations safely and efficiently. Option 2 was a smaller expansion of the existing AST pad that would have maintained a 100' wetland buffer. This option was also deemed to not allow enough pad space for our current operations. The third option would to be build a brand new well site in the area. This option would require significantly more disturbance.
 - c. A road from the new Wagner B well pad must be tied into the existing Wagner well pad. Due to the wetlands proximity to the existing pad, it was not feasible to reach the 100' wetland buffer without the road LOD being within 100' of the wetland.
 - d. The final LOD is the least environmentally impacting site location for several reasons. By re-utilizing existing Antero infrastructure, we are able to build an entire new well pad with less than 2 acres of tree clearing and no stream or wetland impacts. Both of which are far less than a typical new pad build. We've also been able to maintain a vegetative buffer above wetland 2 that will help protect it in addition to the double E&S controls.

API Number:	
Operator's Well Number:	

 Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

The wetland will be protected by two rows of E and S controls to ensure the feature's location is clearly visible and well protected. Additionally orange fencing will be placed around the wetland to help make it clearly visible. A vegetative buffer upslope of the wetland will also be maintained.

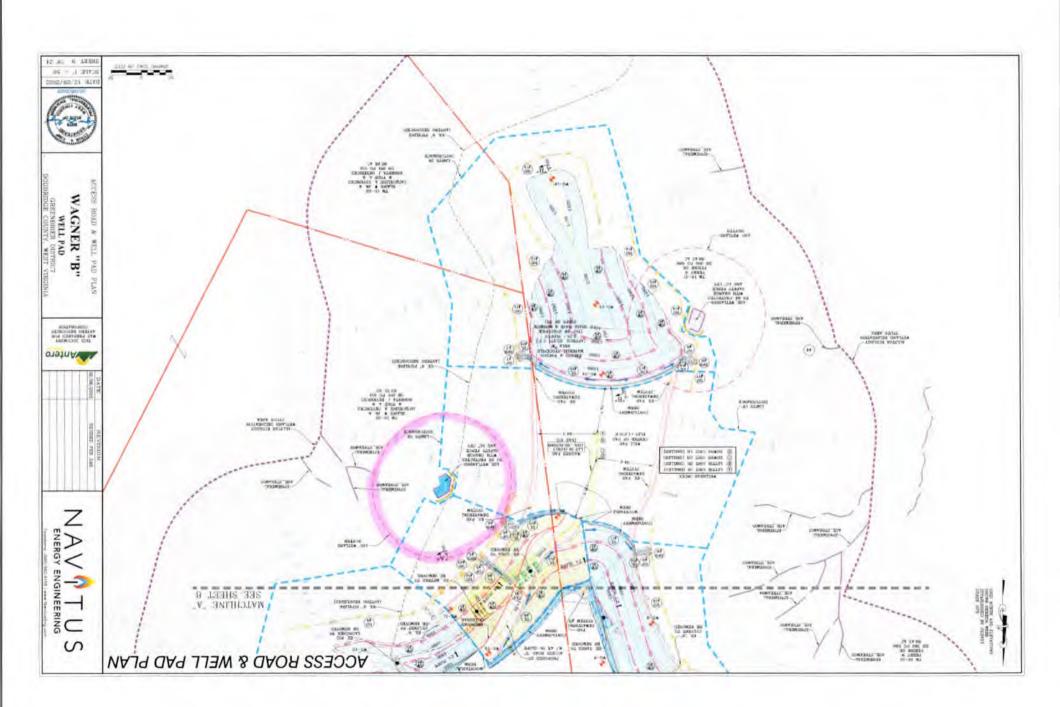
E and S BMP's throughout the site are sequenced, sized, and located in accordance with the West Virginia Erosion Control Manual.

During well operations on the Wagner B pad the well pad berm will ensure runoff does not flow toward this feature. The sumps from the Wagner B pad also do not discharge in the area of the wetland.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
 - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

The feature for which the waiver is sought will be protected by two rows of E and S. Runoff from the site will have to pass through two layers of E and S controls before reaching the feature. The first control runoff from the site will encounter prior to reaching the feature is HD Smartfence, which is most similar in function to super silt fence. Super Silt fence is intended to protect slopes longer than 400' and the slope length of drainage within the LOD toward the feature is less than 400'. Down slope of the first row of HD Smartfence is an additional row of HD smartfence. The intent of the second row is to additionally protect the feature in the event the initial control is damaged, etc.

Refer to the attached drawing excerpts from the design plans associated with the Wagner B Well Pad.



WW-6B (04/15) OPERATOR WELL NO. Wagner B Unit 5V
Well Pad Name: Wagner B Pad

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

1) Well Opera	tor: Antero	Resources	Corpora	494507062	017-Doddrid	Greenbri	Big Isaac 7.5'
The second second				Operator ID	County	District	Quadrangle
2) Operator's	Well Numbe	r: Wagner E	3 Unit 5V	Well P	ad Name: Wagr	ner B Pad	
3) Farm Name	Surface Ow	ner: Perry I	Neal Perin	ne, Sr. Public Re	oad Access: Joh	nson Fork	Road
4) Elevation, o		d; 1350'		levation, propose		-	
5) Well Type	(a) Gas Other	X	_ Oil _	Un	derground Storag	ge	
	(b)If Gas	Shallow	X	Deep			
6) Existing Pa	d: Yes or No	Horizontal No	X				
7) Proposed T	arget Format	ion(s), Depth	the state of the s	eipated Thickness ess- 55 feet, Asso			
8) Proposed T	otal Vertical	Depth: 780	OVT YO				
9) Formation a	at Total Verti	ical Depth:	Marcellu	S			
10) Proposed	Total Measur	red Depth:	7800' ME)			
11) Proposed	Horizontal L	eg Length:	0' *Open	to modification	at a later date*		
12) Approxim	ate Fresh Wa	ater Strata De	epths:	49'			
13) Method to 14) Approxim			Depths: 692'	47017064220000 Offset	well records. Depths have	been adjusted a	coording to surface elevations
15) Approxim	ate Coal Sea	m Depths:	None Anti	cipated			
16) Approxim	ate Depth to	Possible Vo	id (coal m	ine, karst, other);	None Anticipa	ted	
17) Does Prop directly overly				ms Yes	No	x	
(a) If Yes, pr	ovide Mine	Info: Name	×				
		Depth	1:				
Office of Oil	VED and Gas	Seam					
JAN 23		Own	er:				
WV Departr Environmental	ment of Protection						

Page 1 of 3

06 1/19/2023

API NO. 47- 017

OPERATOR WELL NO. Wagner B Unit 5V

Well Pad Name: Wagner B Pad

18)

CASING AND TUBING PROGRAM

4701706949

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	7800	7800	1038 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТУРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A/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"	12,630	2500	Laud-HPOZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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



OPERATOR WELL NO. Wagner B Unit 5V

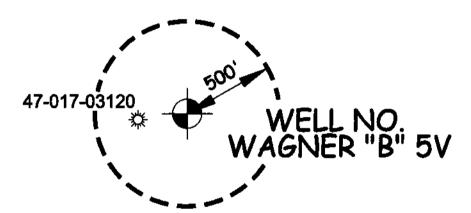
Well Pad Name: Wagner B Pad

 Describe proposed well work, including the drilling and plugging back of 	any pilot hole:
Orill, perforate, fracture a new horizontal shallow well and complete Ma	arcellus Shale.
20) Describe fracturing/stimulating methods in detail, including anticipated r	max pressure and max rate:
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acre 22) Area to be disturbed for well pad only less access road (acres): 8.19 acres	
22) Then to be distanced for wen plus only, less decess four (deres).	5105
23) Describe centralizer placement for each casing string:	
ourface Casing; one centralizer 10' above the float shoe, one on the insert float collar and one every 4t o surface.	th joint spaced up the hole
ntermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one eve Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediat	
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 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% (Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% A	
25) Proposed borehole conditioning procedures:	

*Note: Attach additional sheets as needed.



WAGNER "B" PAD ANTERO RESOURCES CORPORATION



RECEIVED
Office of Oil and Gas

JAN 0 5 2023

WV Department of Environmental Protection

1500'

WILLOW LAND SURVEYING, PLLC
P.O. BOX 17, PENNSBORO, WV 26415
(304) 659-1717

JOB #: 22-011WA

DATE: 12/08/22

DRAWN BY: T.B.S.

FILE: WAGNERBAOR.DWG

5CALE: 1-INCH = 500-FEET
0' 500' 1000' 15

LEAN (A Rithard) Burd Street	Mr. H. Mr	Historical Operator	170 2	erforated internal (shallowest, deenest)	Perforeted Formation(s)	Producible Formationts) not perf d
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		Terrombalais par	5,740	5323 - 5579	Banana Stanisher	Acres With
47017031200000 PARCLAIN PRANTIE *	1 DIVERSIFIED PRODUC	ISTOMEWALL GAS	3,744	3323-3073	deli delli Constituti	logist tree

RECEIVED
Office of Oil and Gas

JAN 05 2023

WV Department of Environmental Protection January 4, 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 Wagner B Unit 5V Doddridge 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 (Wagner B Unit 5V) on the Wagner B 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

JAN 0 5 2023

WV Department of Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

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

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4 SECTION 11.5 AND LEGISLATIVE RULE)))	ORDER NO.	2022-14
35CSR8 SECTION 9.2.b.8., RELATING TO THE CEMENTING)		RECEIVED Office of Oil and Gas
OF OIL AND GAS WELLS	,		JAN 0 5 2023
			WV Department of Environmental Protection

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

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.

RECEIVED Office of Oil and Gas

JAN 0 5 2023

WV Department of Environmental Protection

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

				47	A	v	1	41.	a	g	4	9	
API Number	47 -	017	- 2	A	v	A		14	v		-	v	

Operator's Well No. Wagner B Unit 5V

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Coc	de 494507062
Watershed (HUC 10) Headwaters Middle Island (Creek Quadrangle Big Isaac	7.5'
Do you anticipate using more than 5,000 bbls of w	rater to complete the proposed well work?	Yes V No
Will a pit be used? Yes No		
If so, please describe anticipated pit wast	e: No pid will be used at this size (Driving and Flowback Fluids will be	stored in lanks. Cuttings will be tarked and featies off site.
Will a synthetic liner be used in the pit?	Yes No V If so, what r	nl.? N/A
Proposed Disposal Method For Treated P	it Wastes:	
Land Application	and the second	
	(UIC Permit Number *UIC Permit # will be	
	Future permitted well locations when applicable. APIR ply form WW-9 for disposal location(Mea	The state of the s
Off site Disposal (Sup		western Landfill Permit #SWF-1025/
		109410 el Co Landfill Permit #SWF-1021
Will closed loop system be used? If so, describe:		
Drilling medium anticipated for this well (vertical		Surface - At/Freshwater, Intermediate-
-If oil based, what type? Synthetic, petro	leum, etc. Synthetic	[AN A F 2022
Additives to be used in drilling medium? Please	See Attachment	JAN 0 5 2023
Drill cuttings disposal method? Leave in pit, land	fill, removed offsite, etc. Drill cuttings stored	d in tanks, removed en long the long th
-If left in pit and plan to solidify what me		
-Landfill or offsite name/permit number?		The Control of the Co
	Wetzel Co Landfill (Permit #SWF-1021)	
Permittee shall provide written notice to the Office West Virginia solid waste facility. The notice shall where it was properly disposed.		
on August 1, 2005, by the Office of Oil and Gas of provisions of the permit are enforceable by law. Iaw or regulation can lead to enforcement action. I certify under penalty of law that I has application form and all attachments thereto are obtaining the information, I believe that the informations for submitting false information, including	f the West Virginia Department of Enviro Violations of any term or condition of to we personally examined and am familian and that, based on my inquiry of those formation is true, accurate, and complete and the possibility of fine or imprisonment	he general permit and/or other applicable r with the information submitted on this individuals immediately responsible for e. I am aware that there are significant
Company Official Signature Gretchen /	ar .	
Company Official (Typed Name) Gretchen Kohle Company Official Title Director of Environmental		
Company Official Title Director of Environmental	a Regulatory Compliance	
Subscribed and sworn before me this	day of Jan	, 20 1 3
		DIAME DI AID
Sunvice	1	NOTARY PUBLIC STATE OF COLORADO
My commission expires 21	Apr 2024	NOTARY ID 19994011871 MY COMMISSION EX 02/47/20234

WW-9 (4/I6)

API Number 47 - 017

Operator's Well No. Wegner B Unit 5V

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

PLOIDS COTTINGS DISTOSAL & RECEXMATOR	
A.P.A. Walley and the second of the second o	ode 494507062
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle Big isaa	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work	⟨? Yes ✓ No
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste: Mapt will be used within also (Drilling and Feeders Fluids will	tive etcred in tanks. Custings will be tenked and happled off site.)
Will a synthetic liner be used in the pit? Yes No V If so, what	ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
■ Underground Injection (UIC Permit Number *UIC Permit # will	
Reuse (at API Number Future permitted well locations when applicable. AF	
Off Site Disposal (Supply form WW-9 for disposal location Mo Other (Explain	thwestern Landfill Permit #SWF-1032-98)
WV	0109410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings remo	tzel Co Landfill Permit #SWF-1021
	Surface - Att/Treshwater, Incorrections -
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil ba	sed, etc.
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stor	ed in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawo	iust) N/A
-Landfill or offsite name/permit number? Meadow@ll.andfill (Permit #SWF-1032-98), North	
Wetzel Co Landfill (Permit #SWF-1021)	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cutti West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERA on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environce provisions of the permit are enforceable by law. Violations of any term or condition of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familia application form and all attachments thereto and that, based on my inquiry of those obtaining the information, I believe that the information is true, accurate, and comple penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature **Transport Company Official Signature** **Transport Comp	ronmental Protection. I understand that the the general permit and/or other applicable ar with the information submitted on this individuals immediately responsible for te. I am aware that there are significant
Company Official (Typed Name) Gretchen Kohler	JAN 2 3 073
Company Official Title Director of Environmental & Regulatory Compliance	
Company Official Title Section of Company of Company	WN Desertment of Environmental Protection
Subscribed and sworn before me this 4 day of Jan	, 20 2 3
Cian Blain	Netary Public DIANE BLAIR
Gumber	STATE OF COLORADO
My commission expires 27 Apr. 2024	NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024

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

RECEIVED
Office of Oil and Gas

JAN 0 5 2023

WV Department of Environmental Protection

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose – Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol - Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

RECEIVED
Office of Oil and Gas

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

JAN 0 5 2023 wv Department of Environmental Protection

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

Operator's Well No. Wagner B Unit 5V

Proposed Revegetation Treatment: Acres Disturbed 17.04 a	cres Prevegetation p	н
Lime 2-4 Tons/acre or to correct to pF Hay or straw or Wood Fiber (will be used		
Fertilizer type	milete iteates)	
	bs/acre	
Mulch 2-3 Tons/		£ va ido o o o o
Access Road "A" (1.82 acres) + Access Road "B" (1.23 acres) Topsoil Material Ste	+ Wagner Well Paul (2.63 acres) + Wagner 18 Well ockpiles (3.17 acres) = 17.04 Acres	Pad (8, 19 acres) + Excess
Temporary	Perm	anent
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 Wagner Pad Design)	See attached Table IV-4A for additions	si seed type Wagner Pad Design
*or type of grass seed requested by surface owner	*or type of grass seed requ	ested by surface owner
Maps(s) of road, location, pit and proposed area for land applied provided). If water from the pit will be land applied, include diacreage, of the land application area.		
Maps(s) of road, location, pit and proposed area for land applic provided). If water from the pit will be land applied, include di acreage, of the land application area.		
Maps(s) of road, location, pit and proposed area for land applic provided). If water from the pit will be land applied, include disacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.		
Maps(s) of road, location, pit and proposed area for land application provided). If water from the pit will be land applied, include disacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.		
Maps(s) of road, location, pit and proposed area for land applic provided). If water from the pit will be land applied, include di acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.		
Maps(s) of road, location, pit and proposed area for land applic provided). If water from the pit will be land applied, include di acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:		
Office of C	EIVED	
Maps(s) of road, location, pit and proposed area for land applied provided). If water from the pit will be land applied, include discreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: RECI Office of C	EIVED Dil and Gas	
Maps(s) of road, location, pit and proposed area for land applied provided). If water from the pit will be land applied, include disacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: RECL Office of C	EIVED	
Maps(s) of road, location, pit and proposed area for land applied provided). If water from the pit will be land applied, include disacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: RECL Office of C	EIVED Dil and Gas artment of	
Maps(s) of road, location, pit and proposed area for land applied provided). If water from the pit will be land applied, include disacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: RECL Office of C	EIVED Dil and Gas artment of	d dimensions (L x W), and



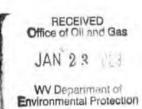
911 Address 2509 Johnson Fork Rd Salem, WV 26462

Well Site Safety Plan Antero Resources

Well Name: WAGNER B UNIT 5V

Pad Location: WAGNER B PAD

Doddridge County/Greenbrier District



GPS Coordinates:

Entrance - Lat 39. 212281 / Long -80.605475 (Nad83) Pad Center - Lat 39.212224 /Long -80.603947 (Nad83)

Driving Directions:

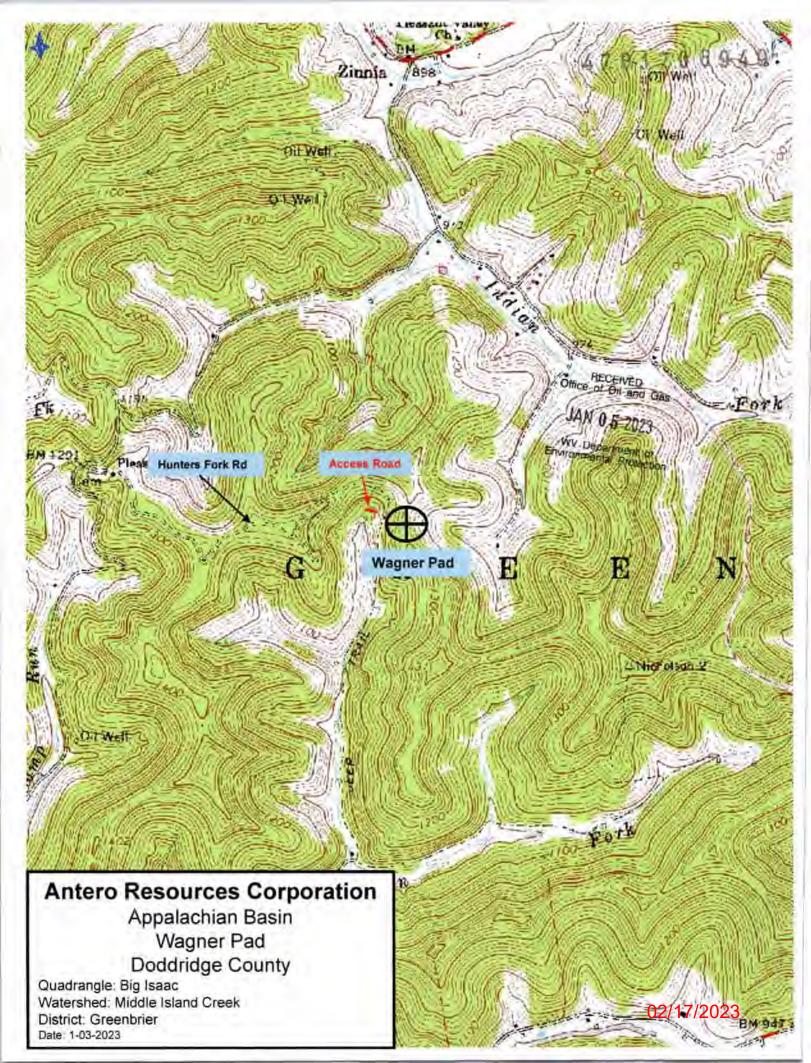
- 1. From US-50 turn onto WV-18 South
- Continue on WV-18 South for approximately 6.3 miles and turn left onto Meathouse Fork Rd (CO-25)
- Continue on Meathouse Fork Rd (CO-25) for approximately 7.3 miles and then turn left onto Double Camp Rd (CO-25/11)
- Follow Double Camp Rd (CO-25/11) for approximately 1.8 miles and turn right onto Standing Stone Rd (CO-25/7)
- Following Standing Stone Rd (CO-25/7) for approximately 500 ft and then veer right onto lease road

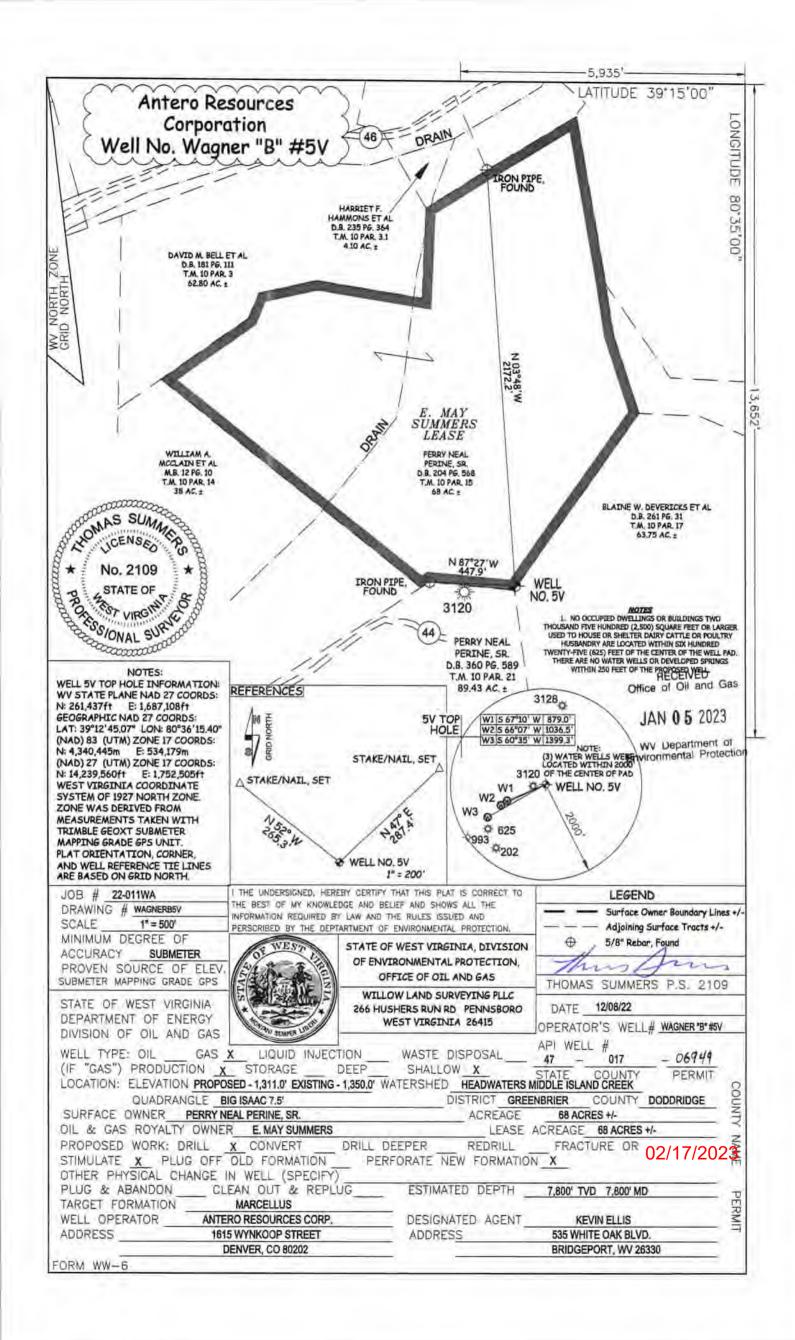
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

09/9/2022

Page 1

01/19/2023





WW-6A1 (5/13)

O	perator'	s	Well	No.	Wagner	В	Unit 5\	/
---	----------	---	------	-----	--------	---	---------	---

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	Book/Page
E. May Summers Lease				
	E. May Summers	Clarence W. Mutschelknaus	1/8 EIVED	0110/0141
	Clarence W. Mutschelknaus	Stonewall 80-2 Joint Venture of C	il accingination	0121/0253
	Stonewall 80-2 Joint Venture	Mountain Gas 82-1 JAN 0	5 2655 ment	0126/0803
	Mountain Gas 82-1	Stonewall Gas Company WV Depa	Assignment	0170/0492
	Stonewall Gas Company	Environmenta Dominion Appalachian Development, Inc.	Protection Merger	wvsos
	Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Merger	wvsos
	Dominion Appalachian Development, LLC C	onsoi Gas Appalachian Development Propert	ies, LLC Name Change	0286/0108
	Consol Gas Appalachian Development Properties	, LLC Consol Gas Reserves, Inc.	Merger	0286/0121
	Consol Gas Reserves, Inc.	Consol Gas Company	Merger	0286/0133
	Consol Gas Company	CNX Gas Company, LLC	Merger	0292/0469
	CNX Gas Company, LLC	Antero Resources Appalachian Company	Assignment	0259/0543
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523

*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.

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

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

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

Page I of 1

December 30, 2022

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

RECEIVED Office of Oil and Gas

RE:

Wagner B Unit 5V

Quadrangle: Big Isaac 7.5'

Doddridge County/Greenbrier District, West Virginia

JAN 05 2023

WV Department of Environmental Protection

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Wagner B Unit 5V 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 Wagner B Unit 5V horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Adams Landman

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

Date of Notic	e Certification: 01/03/2022		o. 47- 017	
		-	tor's Well No. Wagi	
		Well I	'ad Name: Wagner	B Pad
Notice has b		0.00 (4.4) . O		Matala Port
	e provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has provided the	ie required parties v	vith the Notice Forms listed
State:	West Virginia	Eastin	g: 534179m	
County:	Doddridge	UTM NAD 83 Porthi		
District:	Greenbrier	Public Road Access:	Johnson Fork	
Quadrangle:	Big Isaac 7.5'	Generally used farm nar	ne: Perry Neal Perine	e, Sr.
Watershed:	Headwaters Middle Island Creek			
it has provide information re of giving the requirements Virginia Code of this article	ed the owners of the surface descriptions (b) and (c), surface owner notice of entry to sof subsection (b), section sixteen (c) \$22-6A-11(b), the applicant shall have been completed by the applications of the surface		subsection (b), see the requirement was tion ten of this parti- g by the sufface obt etary that the notice JAN (ction ten of this article, the deemed satisfied as a result element are or (iii) the notice of the first and Pursuant to West requirements of section ten
Pursuant to that the Oper	West Virginia Code § 22-6A, the Crator has properly served the require	perator has attached proof to this Not	ice Certification De Environme	ntal Protection
_	CK ALL THAT APPLY	,		OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY of	NOTICE NOT REQUIRED BI SEISMIC ACTIVITY WAS CONF		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or NO PLAT SURVEY WA	AS CONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL OF	NOTICE NOT REQUIRED BY NOTICE OF ENTRY FOR PLAT : WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SU (PLEASE ATTACH)	RFACE OWNER	
■ 4. NO	ΓΙCE OF PLANNED OPERATION	I		☐ RECEIVED
■ 5. PUB	BLIC NOTICE			☐ RECEIVED
■ 6. NO?	TICE OF APPLICATION			RECEIVED
				<u> </u>

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

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

 Well Operator:
 Antero Resources Corporation
 Address:
 1615 Wynkoop Street

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

 Its:
 Senior Vice President of Operations
 Facsimile:
 303-357-7315

 Telephone:
 303-357-6904
 Email:
 mturco@anteroresources.com

DIANTEABY ALTAL

NOTARY PUBLIC

STATE OF COLORADO

NOTARY ID 19994011871

MY COMMISSION EXPIRES 27-Apr-2024

Subscribed and sworn before me this 4 day of Jan 2023.

Notary Public

My Commission Expires 27 Apr 2024

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

JAN 0 5 2023

WV Department of Environmental Protection WW-6A (9-13) 470170 6949
API NO. 47-017 06949
OPERATOR WELL NO. Wagner 8 Unit 5V
Well Pad Name: Wagner 8 Pad

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

Noti	ce Time Requirem	ent: notice shall be provi	ided no later tha	n the filing date of permit application.	
	of Notice: 1/04/2023 ce of:	3 Date Permit Applica	tion Filed: 1/04	2023	
Ø	PERMIT FOR AN			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method purs	uant to West Virginia C	ode § 22-6A-10	(b)	
	PERSONAL	☑ REGISTERED	□ метн	OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECE	IPT OR SIGNATURE CONFIRMATION	
sedin the si oil at description operation more well impo have provi prop subsection provi Code wate	nent control plan recurface of the tract of the tract of the described in the erosion ator or lessee, in the coal seams; (4) The work, if the surface oundment or pit as do a water well, spring ide water for consurface to the consumption of this secrets of the sheriff required to the consumption of the same of the consumption of the co	quired by section seven of a which the well is or is prong developed by the proposand sediment control plans event the tract of land on we owners of record of the se tract is to be used for the prescribed in section nine of gor water supply source lost on the proposition by humans or dome with its to take place. (c)(1) I strip to be maintained pure of the contrary, notice to a liquires, in part, that the open elements of the property of the contrary of the contract of the c	this article, and toposed to be locused well work, its submitted pursua which the well purface tract or trailacement, constitution article; (5) Acated within one stic animals; and if more than three unds, the applicant suant to section size holder is not rator shall also pur more description.	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 or to the surface tract is to be used for roads or other land ant to subsection (c), section seven of this article; (3) Troposed to be drilled is located [sic] is known to be unacts overlying the oil and gas leasehold being developeration, enlargement, alteration, repair, removal or abadany surface owner or water purveyor who is known to thousand five hundred feet of the center of the well plated. The operator of any natural gas storage field with the tenants in common or other co-owners of interests of the may serve the documents required upon the personeight, article one, chapter eleven-a of this code. (2) Note that the well site Safety Plan ("WSSP") to the surface provided in section 15 of this rule.	owners of record of racts overlying the disturbance as The coal owner, iderlain by one or ed by the proposed andonment of any the applicant to ad which is used to in which the described in described in the otwithstanding any indowner. W. Va. face owner and any RECEIVED Gas Office of Offi and Gas
	JRFACE OWNER		es Fian Nonce	☐ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE	JAN 0 5 2023
	e: PLEASE SEE ATTAC				WV Department of
Add	ress:		_ _	Address:	_ wv Department Environmental Protection
Nam Addi	e:		_ - -	COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:	- -
_ Nam	ie:	(s) (Road and/or Other Di	_	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL SPRING OR OTHER WATER SUPPLY SOURCE	- - ,
Ada				Name: Perry Neal Perine, Sr.	
Nam				Address: 1712 Hazelton Rd.	- -
Add	ress:		_	Bruceton Mills, WV 26525	
	The Lor Avenue	(-) (T	5	OPERATOR OF ANY NATURAL GAS STOR	
_		(s) (Impoundments or Pits		Name: Address:	_
Add	ress:		_ _		- -
			_	*Please attach additional forms if necessary	

OPERATOR WELL NO. Wagner B Unit 5V

Well Pad Name: Wagner 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.

RECEIVED Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Endirection and Gas Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wy.dep.go. 2023 and-gas pages default aspx.

Well Location Restrictions

WV Department of Environmental Protection

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

APAN 7.42 of 7.06949

OPERATOR WELL NO. Wagner 8 Unit 5V

Well Pad Name: Wagner 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 to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on determination to the real property owner's water supply or the status of any appeal on the real property owner's water supply or the status of any appeal of the status of the real property owner's water supply or the status of any appeal of the status o 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.

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

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

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

WW-6A (8-13)

OPERATOR WELL NO. Wagner B Unit 5V Well Pad Name: Wagner 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 RECEIVED Office of Oil and Gas 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.

JAN 0 5 2023

WV Department of A permit may also be denied under West Virginia Code \$ 22-6A-7(k), the secretary shall deny the issuance of a purply 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)

OPERATOR WELL NO. Wagner B Unit 5V Well Pad Name: Wagner Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310

Email: mturco@anteroresources.com

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

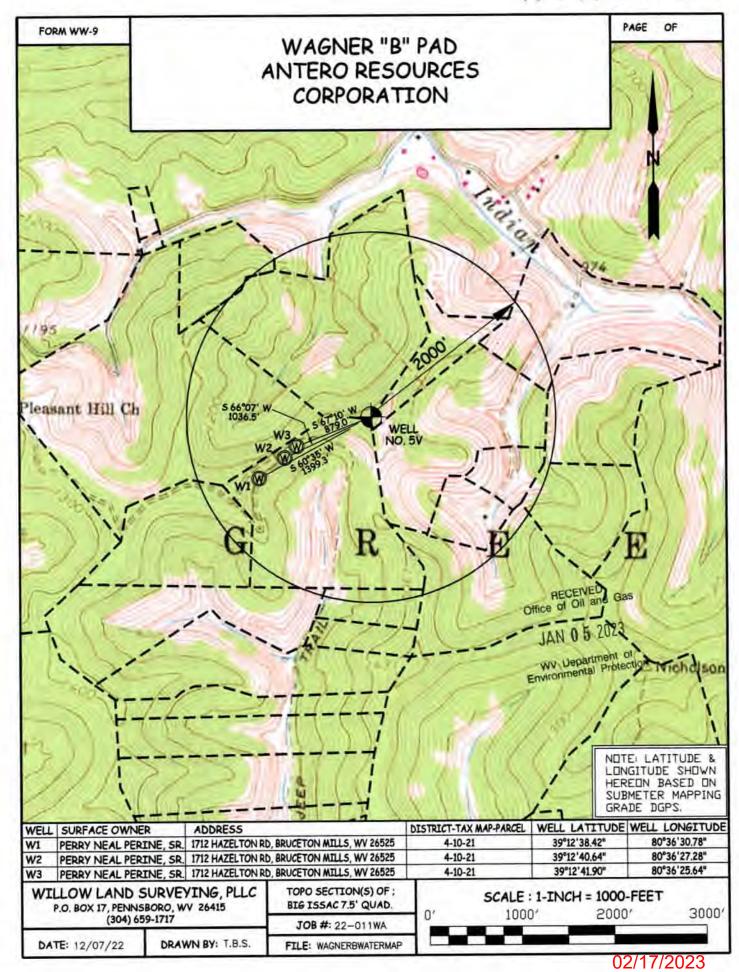
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

DIANE BLAIR **NOTARY PUBLIC** STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 4 day of Jan. 2023

Notary Public

My Commission Expires 27 Apr 2024

RECEIVED Gas JAN 05 2023 WV Department of Emironmental Protection



WW-6A Attachment - Notice of Application:

Surface Owners and/or Water Purveyors/Owners of Water Well, Spring, or Other Water Supply Source:

TM 4-10-15; 4-10-21

Owner:

Perry Neal Perine, Sr.

Address: 1712 Hazelton Road

Bruceton Mills, WV 26525

TM 4-10-22

Owner:

Todd Alan & Roberta J. Devericks

Address:

210 Miletus Road

Salem, WV 26426

TM 4-10-22

Owner:

Blaine W., Jr. & Jacqueline Devericks

Address:

123 Valley Drive

Bridgeport, WV 26330

RECEIVED Office of Oil and Gas

JAN 05 2023

WV Department of Environmental Protection

4701706949

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.

Noti Date	ce Time I e of Notic	Requirement: e: 12/01/2022	Notice shall be	Date Permit A	TEN (10) days prior to filing a pplication Filed: 01/04/2023	permit application	on.
Deli	very met	hod pursuant	to West Virgin	ia Code § 22-6A-	16(b)		
	HAND		CERTIFIED N	1A.II			
_	DELIVE			CEIPT REQUEST	TED		
rece drill of th subs and	ipt reques ing a hori its subsect section ma if availab	ted or hand de zontal well: F tion as of the day be waived in le, facsimile no	ivery, give the rovided. That nate the notice was writing by the mber and electrons.	surface owner not otice given pursu as provided to the surface owner. T	or to filing a permit application, tice of its intent to enter upon to ant to subsection (a), section to surface owner: <i>Provided</i> , how he notice, if required, shall income of the operator and the operator	he surface owner en of this article; wever, That the n lude the name, ad	is land for the purpose of satisfies the requirements of this direction of this litres of this litres of the land
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	ress:				Address:		WV Department of Environmental Protection
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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 depprivacyofficenawy.gov.

WW-6A4 Attachment - Notice of Intent to Drill:

Surface Owners:

TM 4-10-15; 4-10-21

Owner: Address: Perry Neal Perine, Sr. 1712 Hazelton Road

Bruceton Mills, WV 26525

TM 4-10-22

Owner:

Todd Alan & Roberta J. Devericks

Address:

210 Miletus Road Salem, WV 26426

TM 4-10-22

Owner:

Blaine W., Jr. & Jacqueline Devericks

Address:

123 Valley Drive

Bridgeport, WV 26330

RECEIVED Gas

JAN 0 5 2023

WV Department of Environmental Protection WW-6A5 (1/12)

STATE OF WEST VIRGINIA 4701706949 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Noti	cc Date		lication Filed: 01/0	1/2023	
Delivery me	thod pursuant to West Virgini	a Code § 22-	-6A-16(c)		
■ CERT	FIED MAIL	Пн	HAND		
	RN RECEIPT REQUESTED		DELIVERY		
return receip the planned required to b drilling of a damages to t	t requested or hand delivery, giv operation. The notice required e provided by subsection (b), see horizontal well; and (3) A prop he surface affected by oil and ga	by this sub- ction ten of the cosed surface s operations	e owner whose land section shall include his article to a surface use and compens to the extent the da	will be used for le: (1) A copy ace owner whose ation agreement mages 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 se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
of notice.	reby provided to the SURFAC	F OWNER	(a)		RECEIVED Gas
	ss listed in the records of the she				JAN 0 5 2023
free same sections					IANO
Name: PLEAS	E SEE ATTACHMENT		Name:		
Name: PLEAS Address:	reby given;	c), notice is l	Address		www. Department of Protection Environmental Protection well operator has developed a planned
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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 deoprivacyofficerawy.gov.

WW-6A5 Attachment - Notice of Planned Operation:

Surface Owners:

TM 4-10-15; 4-10-21

Owner:

Perry Neal Perine, Sr.

Address:

1712 Hazelton Road

Bruceton Mills, WV 26525

TM 4-10-22

Owner:

Todd Alan & Roberta J. Devericks

Address:

210 Miletus Road

Salem, WV 26426

TM 4-10-22

Owner:

Blaine W., Jr. & Jacqueline Devericks

Address:

123 Valley Drive

Bridgeport, WV 26330

PECEIVED Gas
Office of Oil and Gas

JAN 05 2023

We Department of Protection
Emironmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

January 3, 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 Wagner B Pad, Doddridge County Wagner B Unit 5V Well Site Office of Oil and Gas

JAN 05 2023

WY Department of Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2013-0631 which has been issued to Antero Resources for access to the State Road for a well site located off Doddridge County Route 44 SLS MP 1.81.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

Tary K. Clayton

Cc: Stefan Gaspar Antero Resources CH, OM, D-4

File

List of Anticipated Additives Used for Fracturing or Stimulating Well 4701706949

Additives	Chemical Abstract Service Number
Additives	(CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonyiphenol	ECEIVED 68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol JA	0.5.2023 107-21-1
Glycol Ethers	111-76-2
Guar gum WY	pepartment of pental Protection 9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamthylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	23605-74-5
Hexamethylene diamine penta (methylene phosphonic acid)	111-46-6
Diethylene Glycol	100-97-0
Methenamine	
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

WW-6A7 (6-12)

OPERATOR:_	Antero Resources Corp.	WELL NO: Wagner B	Jnit 5V					
PAD NAME:_	Wagner B Pad	a A .						
REVIEWED B	Y: Mallory Turco	signature: MM	tur					
			7 D . •					
WELL RESTRICTIONS CHECKLIST RECEIVED Gas Office of Oil and Gas								
	HORIZONTAL	6A WELL	Office of JAN 05 2023 JAN 05 2023 WY Department of Protection Environmental Protection					
Well Restric	ctions		Eunitor					
	At Least 100 Feet from Pad and LOD (in Perennial Stream, Lake, Pond, Reservoir	- ·	Feature) to any					
	DEP Waiver and Permit Condition	ns						
	At Least 300 Feet from Pad and LOD (in Naturally Producing Trout Stream; OR	acluding any E&S Control F	Ceature) to any					
	DEP Waiver and Permit Condition	ns						
	At Least 1000 Feet from Pad and LOD (i Groundwater Intake or Public Water Sup		Feature) to any					
	DEP Waiver and Permit Condition	ons						
\checkmark	At Least 250 Feet from an Existing Water Drilled; OR	er Well or Developed Spring	g to Well Being					
	Surface Owner Waiver and Reco	rded with County Clerk, Ol	₹					
	DEP Variance and Permit Condit	tions						
\checkmark	At Least 625 Feet from an Occupied Dw	elling Structure to Center o	f the Pad; OR					
	Surface Owner Waiver and Reco	rded with County Clerk, Ol	₹					
	DEP Variance and Permit Condit	tions						
\checkmark	At Least 625 Feet from Agricultural Builof the Pad; OR	ldings Larger than 2500 Sq	uare Feet to the Center					
	Surface Owner Waiver and Reco	rded with County Clerk, Ol	R					
	DEP Variance and Permit Condit	tions						

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PROJECT CONTACTS

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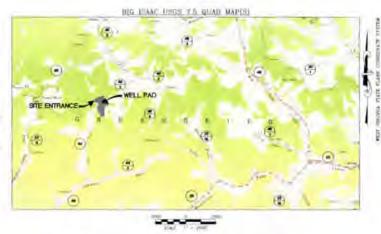
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INCREMENTAL PROPERTY OF STREET

WAGNER "B" WELL PAD SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

GREENBRIER DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA BUCKEYE CREEK WATERSHED



-- PROPOSED SITE

WEST VIRGINIA COUNTY MAIL

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MISS litility of West Virginie 1-800-245-4848 West Virginin State Law (Section XIV Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia IT'S THE LAW!

SHEET INDEX

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Tyaqi (ida		
Access Road At (254)	1.82	
Access Road '8" (2017)	1.23	
Wagner Wolf Pad	2.63	
Yilagran "B" Well Fact	3.19	
Exceed/Tripeoil Maser of Chockpiles	3.17	
Total Affected Area	17.0	
Total Wooded Asses Distuted	1.85	
impacts to Party Heat Palma SR. 198	+B-YE	
60000 Road 'S'	0.29	
Ved Fpc	1.06	
Total Affects & Area	1.33	
Josep Wilanded Across Digitations	0.00	
impacts in Parry Real Paline Sill, Tal	10:01	
Alcohol Food 'A' (254).	118	
Access Road 1 (50)	(11)	
Wagney Well Pad	4.77	
Magner 'B' West Fast	2.70	
Excess/Topicol Material Stockpier	2.71	
Total Affected Area	8.43	
Total Wouded Aures Deliated	200	
regarde to Todd Alan Devertities & Romerte	ATM 10-21	
Access Wood 'B' (231)	1.10	
Wagney Wet Plant	D No	
Hagen 'E' Was Par	- 41	
Excent/Topaci Material Excepted.	- ALM	
Total Affected Area	2.29	
Turn Wiscoded Acres Contacting	0.21	

WAGNER B' WELL PAD

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Proposed Well P	ad Elevation	1,111.0				

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