

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

Tuesday, July 26, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Permit approval for CRYSTAL UNIT 1H Re:

47-095-02799-00-00

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:

CRYSTAL UNIT 1H ANTERO MIDSTREAM LLC

Farm Name:

U.S. WELL NUMBER: 47-095-02799-00-00

James A.

Horizontal 6A

New Drill

Date Issued: 7/26/2022

API	Number:	

PERMIT CONDITIONS

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

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well.
- 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.

API Number:	
	The second named in column 2 is not a se

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 Fax: (304) 926-0452 Harold D. Ward, Cabinet Secretary dep.wv.gov

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

TO: Antero Resources Corporation 1615 Wynkoop Street Denver, CO 80202 DATE: April 23, 2021 ORDER NO.: 2021-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:

- 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.
- Antero is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 1615 Wynkoop Street, Denver, CO 80202.
- On March 22, 2021 Antero submitted a well work permit application identified as API# 47- 95-02736. The well is located on the Beech Run Pad fka Oiler Pad in the Ellsworth District of Tyler County, West Virginia.
- 4. On March 22, 2021 Antero requested a waiver for Wetland KLF_WETLAND 13 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- 95-02736. Other wetlands shown on Attachment 1 are excluded from the waiver due to their location inside of the construction area and total coverage under the ACOE permit.

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 KLF_WETLAND 13 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-95-02736. The Office of Oil and Gas hereby **ORDERS** that Antero shall meet the following site construction and operational requirements for the Beech Run fka Oiler 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 KLF_WETLAND is outside of the LOD on a slope where no runoff from the project can reach the wetland;
- 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 27th day of April 2021.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: James Martin Digitally signed by James Martin Date: 2021.04.27 13:53:28-0400'

JAMES A. MARTIN, CHIEF

WW-6B (04/15)

API NO. 47-095	
OPERATOR WELL NO.	Crystal Unit 1H
Well Pad Name: Beech	Run Pad

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

1) Well Operator:	Antero Reso	ources Corpora	494507062	095-Tyler	Ellsworth Porter Falls 7.5'
A STATE OF LONDON			Operator ID	County	District Quadrangle
2) Operator's Wel	l Number: Cry	stal Unit 1H	Well P	ad Name: Bee	ch Run Pad
3) Farm Name/Sur	rface Owner:	Antero Midstrear	n LLC Public Ro	oad Access: Be	ech Run Rd.
4) Elevation, curre	ent ground:	1247' E	levation, propose	d post-construc	tion: ~1222'
) Gas X	Oil	Un	derground Store	age
)If Gas Sha	llow X	Deep		
6) Existing Pad: Y					
7) Proposed Targe Marcellus Shale			cipated Thickness ess- 55 feet, Assoc		
8) Proposed Total	Vertical Deptl	n: 7500' TVD	1,		
9) Formation at To		1.0	s		
10) Proposed Tota	l Measured De	epth: 18300' N	ID /		
11) Proposed Hori	izontal Leg Le	ngth: 10642.6'	1		
12) Approximate I	Fresh Water St	rata Depths:	880'		
13) Method to Det		Training a option	4709530853000	0 /	
15) Approximate (Coal Seam De	pths: 431'			
16) Approximate I	Depth to Possi	ble Void (coal m	ine, karst, other):	None Anticip	ated
17) Does Proposed directly overlying			ms Yes	N	o X
(a) If Yes, provid	de Mine Info:	Name:			DEGEINGD
		Depth:			
		Seam:			JUL 1 8 2022
		Owner:			By Office of Oil & Gas

Page 1 of 3

Steve My 7/13/22 WW-6B (04/15) API NO. 47- 095

OPERATOR WELL NO. Crystal Unit 1H

Well Pad Name: Beech Run Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	X-60	78.67#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	930	930	CTS, 969 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3000	3000 /	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110HP	20#	18300	18300	3694 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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

PACKERS

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

Page 2 of 3 Steve Miley 7/3/22 WW-6B (10/14)

API NO. 47- 095 OPERATOR WELL NO. Crystal Unit tH Well Pad Name: Beech Run 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): 24.47 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 12.89 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

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

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

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

Conductor: no additives, Class A cement.

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

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

Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

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

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

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

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

*Note: Attach additional sheets as needed.

WW-9 (4/16)

API Number	47 -	095
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Operator's Well No. Crystal Unit 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code	494507062
Watershed (HUC 10) Outlet Middle Island Creek Quadrangle Porter Falls 7.5	•
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yell a pit be used? Yes No V	res V No No
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored	in lanks, Cuttings will be tanked and hauled diff 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	40 C 2 C 200 E
 Underground Injection (UIC Permit Number *UIC Permit # will be provided in the second of the second o	
Off Site Disposal (Supply form WW-9 for disposal location) Meadow Other (Explain Northwee WV010	ofill Landfill Permit #SWF-1032-98 estern Landfill Permit #SWF-1025/ 9410 Co Landfill Permit #SWF-1021
	Surface - Air/Freshwater, Intermediate -
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, e	tc.
-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 stored in ta	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_	N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Wetzel Co Landfill (Permit #SWF-1021)	Landfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings o West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WA on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environme provisions of the permit are enforceable by law. Violations of any term or condition of the glaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar wit application form and all attachments thereto and that, based on my inquiry of those individualing the information, I believe that the information is true, accurate, and complete. I penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Gretchen Kohler Company Official Title Director of Environmental & Regulatory Compliance	ental Protection. I understand that the eneral permit and/or other applicable the the information submitted on this viduals immediately responsible for
non-production and a second visit of the secon	102
	DIANE BLAIR
	Public NOTARY PUBLIC
My commission expires 27 Apr. 2024	STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024
	Steve May 7/13/22

Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets – LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

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Environmental Protection

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent – Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer – Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material – Ground Walnut Shells – LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite – Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

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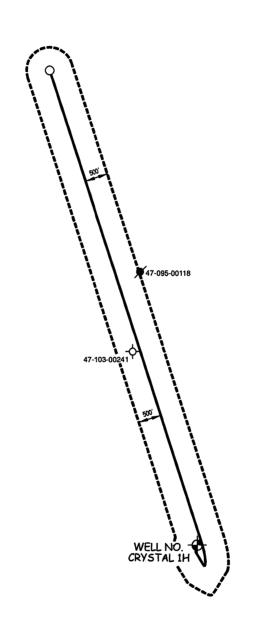
JUN 2 3 2022

V/V Department of Environmental Protection

Lime 2-4 Fertilizer type Hay or straw or Wood Fiber (will be used when Fertilizer amount 500 Ibs/ac Mulch 2-3 Tons/acre Access Road (5.69 acres) + Well Pad (12.89 acres) + Topsoil Pile "A" (2 Seed M Temporary Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application	re needed) cre 2.78 acres) + Topsoil Pile "B" (1.87 acres)	+ Stockpile (1.24acres) = 24.47 Acres rmanent lbs/acre 10-15 30
Fertilizer amount 500 lbs/ac Mulch 2-3 Tons/acre Access Road (5.69 acres) + Well Pad (12.89 acres) + Topsoil Pile "A" (2 Seed M Temporary Seed Type lbs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach:	2.78 scres) + Topsoil Pile "B" (1.87 acres) lixtures Per Seed Type Crownvetch Tall Fescue	lbs/acre
Mulch 2-3 Tons/acre Access Road (5.69 acres) + Well Pad (12.89 acres) + Topsoil Pile "A" (2 Seed M Temporary Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach:	2.78 acres) + Topsoil Pile "B" (1.87 acres) Lixtures Per Seed Type Crownvetch Tall Fescue	lbs/acre
Access Road (5.69 acres) + Well Pad (12.89 acres) + Topsoil Pile "A" (2 Seed M Temporary Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach:	2.78 acres) + Topsoil Pile "B" (1.87 acres) lixtures Per Seed Type Crownvetch Tall Fescue	lbs/acre
Access Road (5.69 acres) + Well Pad (12.89 acres) + Topsoil Pile "A" (2 Seed M Temporary Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach:	Seed Type Crownvetch Tall Fescue	lbs/acre
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Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach:	Crownvetch Tall Fescue	10-15
Field Bromegrass 40 See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach:	Tall Fescue	
See attached Table IV-3 for additional seed type (Beech Run Pad Design) *or type of grass seed requested by surface owner Attach:		30
*or type of grass seed requested by surface owner Attach:	See attached Table IV-4A for addition	
Attach:		nal seed type (Beech Run Pad Desig
	*or type of grass seed re	quested by surface owne
provided). If water from the pit will be land applied, include dimen acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	isions (L x w x D) or the pit,	and dimensions (L x w), an

Field Reviewed?

BEECH RUN PAD ANTERO RESOURCES CORPORATION



RECENTED
Office of Cill and Gas

JUN 2 3 2022

WV Department of Environmental Protection

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

DATE: 05/26/22 DRAWN BY: D.L.P.

JOB #: 22-005WA
FILE: CRYSTAL1HAOR.DWG

0'

SCALE: 1-INCH = 2000-FEET 2000' 4000'

6000'

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103002410000					to recurs			
47095001180000	O L'RICE	1	SMITH C B	SMITH C B	2,067		Keener, Big Injun, Squaw	Berea, Weir, Alexander

OF AN OF STANFORD OF AN OFFICE OF STANFORD OF STANFORD

NW Department of Environmental Protection



911 Address 8781 Wetzel Tyler Ridge Rd. New Martinsville, WV 26155

Well Site Safety Plan Antero Resources

Well Name: Beech Run Unit 5H (fka Oiler)

Pad Location: Beech Run PAD

Tyler County/Ellsworth District



GPS Coordinates:

Entrance - Lat 39°53′26.941″/Long -80°77′73.196″ (NAD83)

Pad Center - Lat 39°52′88.561″/Long -80°78′22.212″ (NAD83)

Driving Directions:

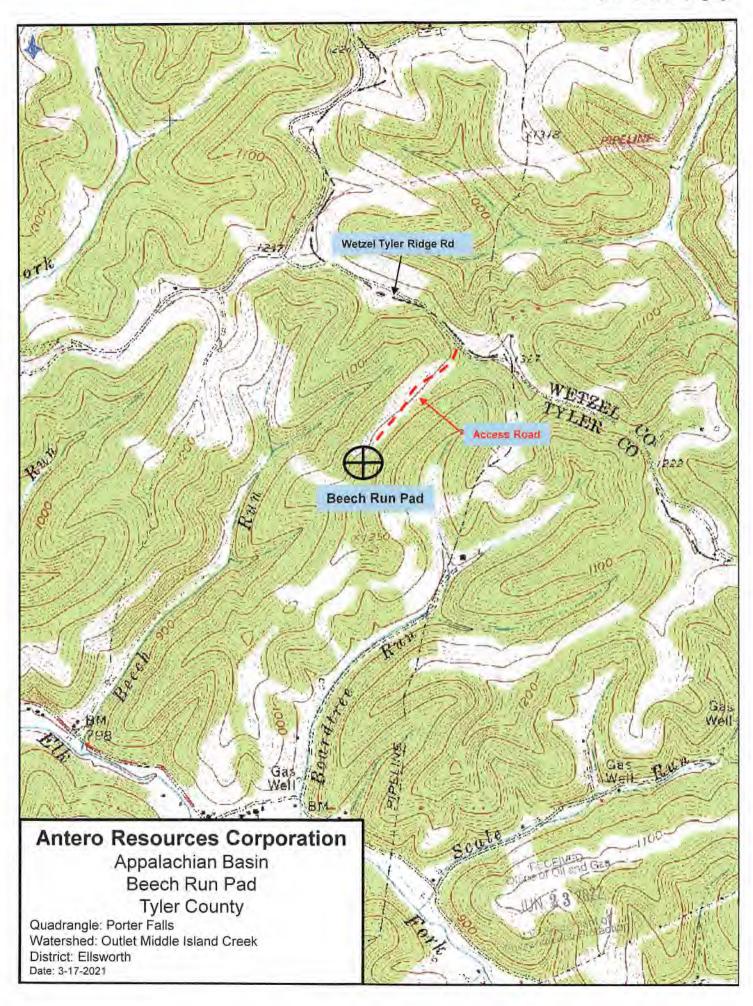
From Reader: Head northwest on Border Lane toward Old Mexico Rd. for 16 ft. - sharp left onto CO Rd. 40/2 for 0.3 miles - continue onto 8 Mile Rd. for 4.0 miles - slight right onto Wetzel Tyler Ridge Rd. for 2.0 miles - turn left onto Right Hand Middle Fork for 0.2 miles - lease road will be on your left.

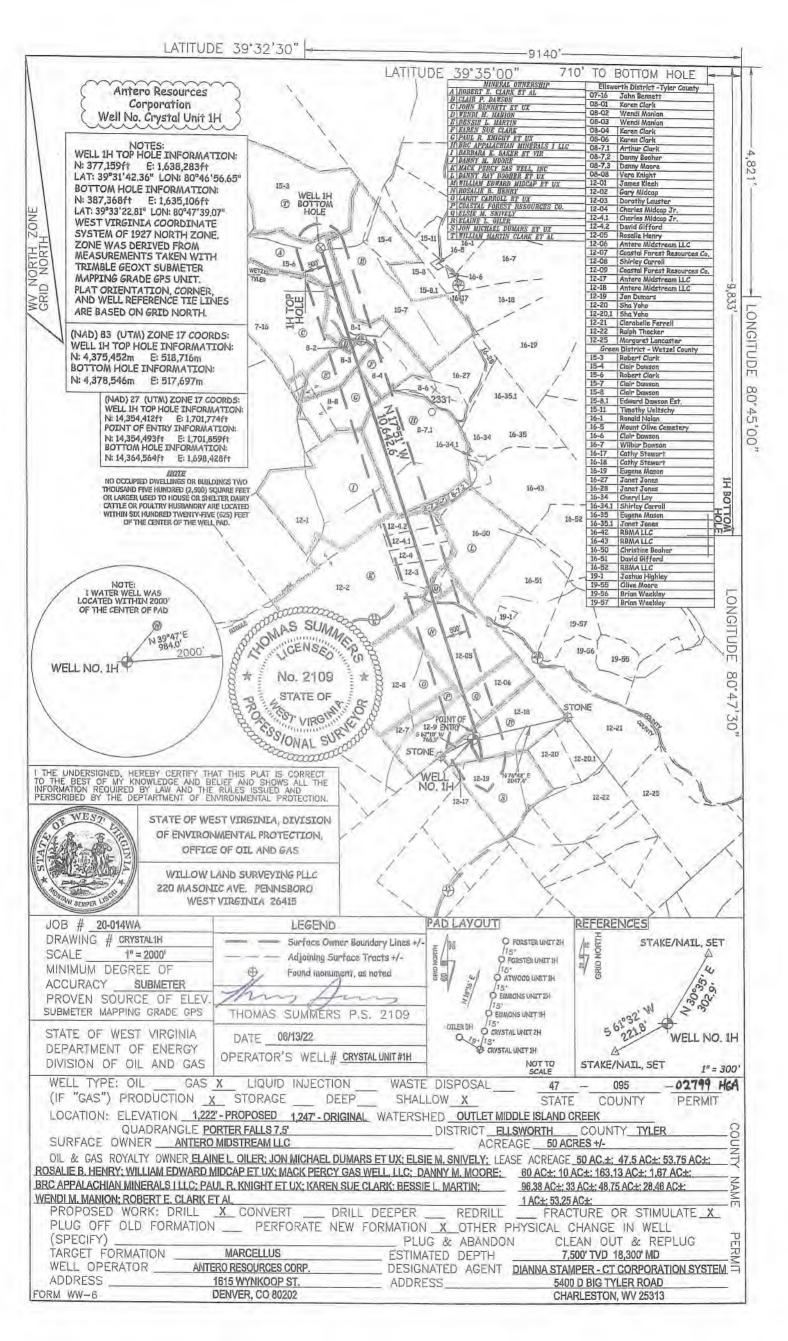
Alternate Route:

From Middlebourne: Head northeast onto WV-18 N/Main St. toward Court St./Dodd St/ for 4.3 miles - turn right onto WV-180 N for 0.2 miles - turn right onto CO Rd. 11/6 for 0.4 miles - continue onto Elk Fork Rd. for 5.3 miles - slight left onto Mudlick Rd. for 0.1 miles - continue onto Left Hand Middle Fork for 0.5 miles - continue onto Right Hand Middle Fork for 1.1 miles - lease road will be on your right.

EMERGENCY (24 HOUR) CONTACT 1-800-878-1373₁

SM 7/13/22





DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM

5400 D BIG TYLER ROAD

CHARLESTON, WV 25313

ADDRESS

OPERATOR _

ANTERO RESOURCES CORP.

1615 WYNKOOP ST.

DENVER, CO 80202

WELL

FORM WW-6

ADDRESS

Operator's Well Number Crystal Unit 1H

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

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

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

_	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
	R: Elaine L. Oiler Lease			
7	Elaine L. Oiler	Petroedge Energy LLC	1/8	0399/0725
·	Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0406/0147
9	Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
	EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>ار</u>	S: Jon Michael DuMars, et ux Lease			
/ 1	Jon Michael DuMars, et ux	Petroedge Energy LLC	1/8+	0397/0007
•	Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	0406/0147
9	Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	0539/0239
1	EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
/ i	R: Elaine L. Oiler Lease			0000 (0705
1	Elaine L. Oiler	Petroedge Energy LLC	1/8	0399/0725
1	Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0406/0147
:	Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
	EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
	Q: Elsie M. Snively Lease	and the analysis of the analys	1/0.	0463/0680
	Elsie M. Snively	Statoil USA Onshore Properties Inc	1/8+	0539/0239
	Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	0663/0001
1	EQT Production Company	Antero Resources Corporation	Assignment	0003/0001
•	N: Rosalie B. Henry Lease Rosalie B. Henry	Antero Resources Corporation	1/8+	0559/0190
,	Nosalie D. Helli y	Antero nessances est por anon	-4	·
•	M: William Edward Midcap, et ux Lease William E. Midcap, et ux	Antero Resources Corporation	1/8+	0115/0480
	william E. wildcap, et ux	Antero Resources Corporation	•	•
,	K: Mack Percy Gas Well, Inc Lease Mack Percy Gas Well, Inc	Antero Resources Corporation	1/8 + F	ECEIVED of Oil and Gas 0108/0411
	,			
/	J: Danny M. Moore Lease		. 1111	N 2 3 2022
	Danny M. Moore	Antero Resources Corporation	1/8+	0148/0211
,	H: BRC Appalachian Minerals I, LLC Lease		VIV Environ	Department of mental Protection
	BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	1/8+	0369/0300
	BRC Working Interest Company, LLC	Chesapeake Appalachia, LLC	Assignment	0369/0784
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
	Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
	SWN Exchange Titleholder LLC	SWN Production Company LLC	Merger	0009/0404
	SWN Production Company, LLC	Antero Exchange Properties	Assignment	0544/0242
	Antero Exchange Properties	Antero Resources Corporation	Merger	0525/0315

*CONTINUED ON NEXT PAGE

Operator's Well Number

Crystal Unit 1H

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
G: Paul R. Knight, et ux Lease Paul R. Knight, et ux Stone Energy Corporation EQT Production Company	Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8+ Assignment Assignment	0390/0160 0547/0662 0663/0001
/ F: Karen Sue Clark Lease Karen Sue Clark	Antero Resources Corporation	1/8+	0099/0422
E: Bessie L. Martin Lease Bessie L. Martin	Antero Resources Corporation	1/8+	0607/0110
<u>D: Wendi M. Manion Lease</u> Wendi Michelle Manion	Antero Resources Corporation	1/8+	0087/0761
/ <u>F: Karen Sue Clark Lease</u> Karen Sue Clark	Antero Resources Corporation	1/8+	0099/0422

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

WW-6A1	
(5/13)	

Operator's Well No.	Crystal Unit 1H

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

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

- 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
A: Robert E. Clark, et al Lease				
	Robert E. Clark, et al	Antero Resources Corporation	1/8+	215A/0590

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

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

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

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

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

Well Operator: Antero Resources Corporation

By: Max Green

Its: VP of Land

Page 1 of 1





June 15, 2022

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

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

RE:

Crystal Unit 1H & 2H

Quadrangle: Porter Falls 7.5'

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following applications for new well work permits for the Crystal Unit 1H & 2H horizontal shallow wells. 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 Crystal Unit 1H & 2H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Thomas Kuhn

Senior Staff Landman

Office of Oil and Gas

JUN 2 3 2022

WW Department of Environmental Protection

Date of Notice Certification: 06/21/2022

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

API No. 47- 095

		Oi	perator's	Well No. Cryst	al Unit 1H
		w	ell Pad N	Name: Beech R	un Pad
	e provisions in West Virginia Code §	22-6A, the Operator has provide	ed the rec	quired parties w	vith the Notice Forms listed
	tract of land as follows:			540740	
State:	West Virginia		asting:	518716m	
County: District:	Tyler	Public Road Access	orthing:	4375452m Beech Run Rd.	
Quadrangle:	Porter Falls 7.5'	Generally used farm		Antero Midstream	U.C.
Watershed:	Outlet Middle Island Creek	Generally used fairing	i ilailie.	Antero Midstream	
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sled the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall to have been completed by the applicant	nall contain the following inform bed in subdivisions (1), (2) and ction sixteen of this article; (ii) the rvey pursuant to subsection (a), of this article were waived in we cender proof of and certify to the	nation: (14), substant the re section triting by	 A certification section (b), section quirement was ten of this articities the surface ow 	on from the operator that (i) tion ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice yner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the required ECK ALL THAT APPLY	erator has attached proof to this d parties with the following:	Notice C	Certification	OOG OFFICE USE ONLY
	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRES			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	ΠCE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY	WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	' SURFA	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUE	BLIC NOTICE				RECEIVED
■ 6. NO	TICE OF APPLICATION				☐ RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, I Robert Odenthal , 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:
 Robert Odenthal
 Robert S. Odenthal
 Denver, CO 80202

 Its:
 VP of Drilling
 Facsimile:
 303-357-7315

 Telephone:
 303-357-7310
 Email:
 mstanton@anteroresources.com

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

Subscribed and sworn before me this 22 day of June 2072.

Notary Public

My Commission Expires 27 April 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 deprivacyofficer@wv.gov.

Office of Oil and Gas

JUN 2 3 2022

1-14 Department of Environmental Protection

WW-6A (9-13) PI NO. 47-7095 9 5 0 2 7 9 9

OPERATOR WELL NO. Crystal Unit 1H
Well Pad Name: Beech Run Pad

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

Notic	e Time Requireme	nt: notice shall be provid	led no later tha	n the filing date of permit application.	
	of Notice: 06/22/2022 ce of:	Date Permit Applicat	ion Filed: 06/22	/2022	
Ø	PERMIT FOR ANY WELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deliv	ery method pursus	nt to West Virginia Co	de § 22-6A-10	(b)	
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	
regist sedim the su oil an descr opera more well v impo have provi propo subse recor provi Code	ered mail or by any national ment control plan requireface of the tract on a digas leasehold being libed in the erosion artor or lessee, in the erosion are to coal seams; (4) The dwork, if the surface trundment or pit as design a water well, spring of de water for consumposed well work activities action (b) of this section (c) of the sheriff requision of this article to the R. § 35-8-5.7.a requirement control of the section of the section to the section of the section of this article to the section of the secti	nethod of delivery that required by section seven of the which the well is or is proposed developed by the proposed sediment control plan sevent the tract of land on we where so frecord of the surfact is to be used for the plantation of the surfact is to be used for the plantation by humans or domestry is to take place. (c)(1) If on hold interests in the lartited to be maintained purse the contrary, notice to a lighter than the operation of the surface	uires a receipt on article, and the posed to be located well work, if abmitted pursuation hich the well preface tract or tracement, constraints article; (5) Anted within one tic animals; and for more than threads, the applicant uant to section den holder is not ator shall also p	as required by this article shall deliver, by personal so resignature confirmation, copies of the application, the well plat to each of the following persons: (1) The sted; (2) The owners of record of the surface tract or to 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 uncts overlying the oil and gas leasehold being develop auction, enlargement, alteration, repair, removal or about any surface owner or water purveyor who is known to thousand five hundred feet of the center of the well person (6) The operator of any natural gas storage field with the tenants in common or other co-owners of interests of the traction and the person completely, article one, chapter eleven—a of this code. (2) No notice to a landowner, unless the lien holder is the largovide the Well Site Safety Plan ("WSSP") to the surface provided in section 15 of this rule.	ne erosion and owners of record of racts overlying the disturbance as The coal owner, inderlain 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.
ØΑ	pplication Notice	☑ WSSP Notice ☑E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:	
☑ SU	RFACE OWNER(s)		☐ COAL OWNER OR LESSEE	
Nam	e: Antero Midstream L	LC	_	Name: NO DECLARATIONS ON RECORD WITH COUNTY	_
Addı	ress: PO Box 1826		_	Address:	_
	Cockeysville, MD 21	030-7826	_	- COAL OPERATION	
Nam			-	COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Addı	ress:		- '		_
	IDEACE OWNED(s) (Road and/or Other Dis	- rturbance)	Address:	_
				SURFACE OWNER OF WATER WELL	_
Addı	ress:		-	AND/OR WATER PURVEYOR(s)	
1 Luu				Name: Antero Midstream LLC	
Nam				Address: 1615 Wynkoop St	_
Add	ress:		_		RECEIVED Gas
			_	Denver, CO 80202 OPERATOR OF ANY NATURAL GAS STO	
	•	(Impoundments or Pits)		Name.	JUN 2 3 2022
Nam	e:		_	Address:	
Add	ress:		_	*Dlaces stack additional Commaniference	 V Department of montal Protection
			_	*Please attach additional forms if necessary	

WW-6A (8-13) 4709502799

OPERATOR WELL NO. Crystal Unit 1H

Well Pad Name: Beech Run Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

API NO. 47-095

OPERATOR WELL NO. Crystal Unit 1H

Well Pad Name: Beech Run Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

FIECENTED Office of Oil and Gas JUN 2 3 2022 Viv Department of

(304) 926-0450

1.1.1/ Department of submitting written comments, notice of the permit decision and garkist of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) API NO. 47- 095

OPERATOR WELL NO. Crystal Unit 1H

Well Pad Name: Beech Run Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas
JUN 2 3 2022

My Department of Environmental Protection

WW-6A (8-13)

Email:

4709502799

API NO. 47-095

OPERATOR WELL NO. Crystal Unit 1H

Well Pad Name: Beech Run Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation Robert S. Odenthal Telephone: (303) 357-7310 mstanton@anteroresources.com

Address: 1615 Wynkoop Street Denver, CO 80202

Facsimile: 303-357-7315

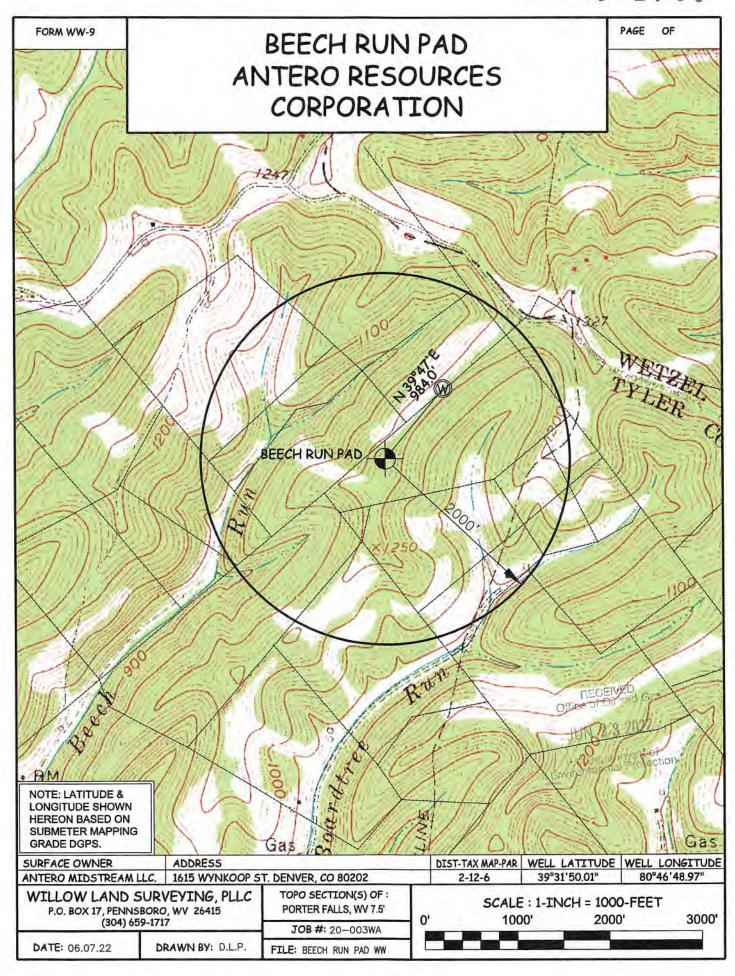
Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at 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 22 day of June 2022. My Commission Expires 27 Apr 2024

> JUN 2 3 2022 NV Department of Environmental Protection



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

Beech Run 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 Notice	Requirement: Notice shall be provided a 2: 05/06/2022 Date Per	rmit Application Filed: 06/22/2022	
Delivery meth	ood pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		OUESTED	
andre . He			
receipt request drilling a horiz of this subsect subsection may and if available	ed or hand delivery, give the surface ow contal well: <i>Provided</i> . That notice giver ion as of the date the notice was provide by be waived in writing by the surface ow e, facsimile number and electronic mail a	ner notice of its intent to enter upon the pursuant to subsection (a), section to do to the surface owner: <i>Provided, howerer</i> . The notice, if required, shall included so the operator and the operator	
	eby provided to the SURFACE OV		QC.20 - 1 - 100
r iteration	Midstream, LLC	Name:	0027
Address: PO Bo	ox 1826 eysville, MD 21030-7826	Address:	JUN 2 3 2022
Notice is her			MV Department of Environmental Protection
Pursuant to W the surface ow State:	est Virginia Code § 22-6A-16(b), notice mer's land for the purpose of drilling a ho West Virginia		well operator has an intent to enter upon
Pursuant to W the surface ow State: County:	est Virginia Code § 22-6A-16(b), notice mer's land for the purpose of drilling a h	orizontal well on the tract of land as for Easting:	well operator has an intent to enter upon ollows:
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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 depprivacyofficer@wv.gov.

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

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

Date		Requirement: notice shall be pro		later than the filing olication Filed: 06/2		application.
Deli	very meth	nod pursuant to West Virginia	Code § 22	2-6A-16(c)		
	CERTIE	TED MAIL		HAND		
		N RECEIPT REQUESTED		DELIVERY		
retur the p requi drilli dama (d) T of no	n receipt in blanned op blanned to be ing of a heages to the he notices of the control of the co	requested or hand delivery, give peration. The notice required by provided by subsection (b), sectionizontal well; and (3) A propose surface affected by oil and gas a required by this section shall be by provided to the SURFACE.	the surface by this sub- tion ten of a posed surface operations be given to	e owner whose land osection shall include this article to a surfa- te use and compens to the extent the da the surface owner a	will be used for le: (1) A copy ace owner whos ation agreemen 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 is land will be used in conjunction with the it containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
		listed in the records of the sheri	If at the tu	me of notice): Name:		
Man						
Nam	Pece 1615	Wynkoop Street		Address		
Addi	Denv	Wynkoop Street er, CO 80202 by given: est Virginia Code § 22-6A-16(c)		Address		well operator has developed a planned
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On and Gas Frivacy 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

JUN 2 3 2022

OPERATOR WELL NO. Crystal Unit 1H Well Pad Name: Beech Run Pad

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

LUNTARY STATEMENT

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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,

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form , including the erosion and sediment control plan, if WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the tract of land as follows: West Virginia Easting: 518716m State: UTM NAD 83 4375452m Northing: County: Tyler Public Road Access: Beech Run Rd. District: Generally used farm name: Antero Midstream, LLC Quadrangle: Porter Falls 7.5 Watershed: Outlet Middle Island Creek

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON GET GET
■ SURFACE OWNER	Signature:
☐ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: JOIN & 5 ZULZ
☐ SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.
☐ COAL OWNER OR LESSEE	Company: Antero Midstream LLC By: Robert Odenthal
☐ COAL OPERATOR	Its: VP of Drilling
■ WATER PURVEYOR	Signature: Robert S. Odenthal
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: _06/22/2022

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

June 21, 2022

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

Subject: DOH Permit for the Beech Run Pad, Tyler County Crystal Unit 1H Well Site

Dear Mr. Martin,

D. Alan Reed, P.E.

State Highway Engineer

This well site will be accessed from a DOH permit #06-2021-0097 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 28/1 SLS MP 1.40.

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 Maintenance Engineer Central Office O&G Coordinator

aux K. Clayton

Cc: Diane Blair

Antero Resources

CH, OM, D-6

File

JUN 2 3 2022

Environmental Protection

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

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)	İ
1.	Fresh Water	7732-18-5	
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
3.	Ammonium Persulfate	7727-54-0	
4.	Anionic copolymer	Proprietary	
5.	Anionic polymer	Proprietary	
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	
7.		(Proprietary)	
8.	Demulsifier Base	(Proprietary)	l
9.	Ethoxylated alcohol blend	Mixture	
	Ethoxylated Nonylphenol	68412-54-4	
	Ethoxylated oleylamine	26635-93-8	
	Ethylene Glycol	107-21-1	ľ
	Glycol Ethers	111-76-2	
	. Guar gum	9000-30-0	
15.	Hydrogen Chloride	7647-01-0	
16.	Hydrotreated light distillates, non-aromatic, BTEX	free 64742-47-8	
17.	Isopropyl alcohol	67-63-0	
18.	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2	
19	Microparticle	Proprietary	
20.	Petroleum Distillates (BTEX Below Detect)	64742-47-8	
21	Polyacrylamide	57-55-6	
22	Propargyl Alcohol	107-19-7	ĺ
	Propylene Glycol	57-55-6	
	Quartz	14808-60-7	
25	Sillica crystalline quartz	7631-86-9	
	Sodium Chloride	7647-14-5	
27.	. Sodium Hydroxide	1310-73-2	
	. Sugar	57-50-1	
	Surfactant	68439-51-0	l
30	Suspending agent (solid)	14808-60-7	
	. Tar bases, quinolone derivs, benzyl chloride-quarte		
	Solvent Naptha, petroleum, heavy aliph	64742-96-7	l
	Soybean Oil, Me ester	67784-80-9	
	Copolymer of Maleic and Acrylic Acid	52255-49-9	
	DETA Phosphonate	15827-60-8	
	Hexamythylene Triamine Penta	34690-00-1	
	Phosphino Carboxylic acid polymer	71050-62-9	
	. Hexamethylene diamine penta	23605-74-5	
	2-Propenoic acid, polymer with 2 propenamide		
	. Hexamethylene diamine penta (methylene phospi	honic acid) 23605-74-5	CEIVED foil and G
	Diethylene Glycol	111.46.6	
	. Methenamine	100-97-0 IUN	2 3 202
	Polyethylene polyamine	68603-67-8	
	. Coco amine	68603-67-8 61791-14-8 28173-91-7 Environm	parthent
	2-Propyn-1-olcompound with methyloxirane	38172-91-7	ICI ILLA

GENERAL DESCRIPTION

THE ACCESS BOADING WELL DAD ANDERD WATER DONFARMENT DAD ARE BEING CONSTRUCTED TO AIT IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE PROPOSED SITE LOCATION IS NOT WITHIN ANY IDENTIFIED FLOOD ZONES. PER FEMA MAP NUMBER(S) #54095C0075C

MISS UTILITY STATEMENT

ANTERIO DESCRIPCES CORRODATION WAY MOTHER MISS LITH BY DE WEST MIRCHIA FOR THE LOCATION AMILED RESIDENCES CONSTRUCTION HAVE WELL HOTHY MASS OF THE YEAR WEST WASHING FOR THE LOCATION OF DESIGN THOSE 4202468053. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

INTERD RESOURCES CORPORATION WILL DETAIN AN ENCROACHMENT FERMIT (FORM MM-123) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND WETLAND DELINEATIONS WERE PERFORMED ON DOTOBER 10⁷⁸, 2020 BY ENVIRONMENTAL SOLUTIONS & INNOVATIONS, MIC. TO REVIEW THE SSTEEP OR WATERS AND WETLANDS THAT ARE MOST LINELY WITHIN THE REGULATORY PURIORS OF THE U.S. ARMY DORPS OF EVIGINEERS, (MASCE) ANDOS THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WV DEPL THE OCTOBER 1071, 2020) THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION WAY JEEP THE OCCIOENT OF "JODG STREAM AND WESTLAND DELINEATION MADE HAS PREPARED BY ANTERIOR RESOURCES COMPORATION AND SUMMARTIES THE RESULTS OF THE FIELD DELINEATIONS, THE MAP DOES NOT, WANY WAY, REPRESENT A ANTIGIDITIONAL DETERMINATION OF THE LANDWING LIWITS OF ANTERS AND WESTLAND WHICH MAY BE REGULATED BY THE USACE OF THE WY DEP. ANTERO RESOURCES COPPORATION SHALL DETAIN THE APPROPRIANT E PERMITS FROM THE FEEDERAL ANDORS STATE REQULATION ADVISORS PRORT TO ANY BAPPROPRIANT E PERMITS FROM THE FEEDERAL ANDORS STATE REQULATION ADVISORS. CPOSED IMPACTS TO WATERS OF THE U.S. INCLUDING WETLAND FILLS AND STREAM CROSSINGS

GEOTECHNICAL NOTES:

THE PROPOSED 2.1 SLOPES SHALL BE VERIFIED BY A CERTIFIED DEGTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADEQUATE PRIOR TO CONSTRUCTION CONSTRUCTION SHALL BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER

RESTRICTIONS NOTES:

- THERE ARE NO LAKES OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAIL
- THERE ARE UST ALONG THAT HALL BE IMPACTED WITHIN AN EEST OF THE WELL BAD LOD AND A METIANO MAIVER REQUEST WILL BE BUBMITED FOR THE APPROPRIATE METIANDS.
 ADDITIONALLY, SEVERAL WETLANDS ARE TO BE PERMANENTLY IMPACTED AND WILL BE PERMITTED THROUGH THE APPROPRIATE AGENCIES.
- 2 THERE ARE NO EDHENEDAL INTERMITTENT OF PERENNIAL STREAM MONOTS WITHIN THE LOC
- & THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAO
- S THERE ARE NO OPICUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1,000 FEET OF THE WELL PAD AND LOD.
- 5. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL BY TO BE DRILLED.
- 7. THERE ARE NO OCCUPIED DWELLINGS OR AGRICULTURAL BUILDINGS LARGER THAN 2,500. SQUARE FEET WITHIN 825 FEET OF THE CENTER OF THE WELL PAD.

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

EHWRONMENTAL SOLUTIONS & INNOVATIONS, INC. EHVIRONMENTAL SOLUTIONS & INNO 1341 OLD FREEDOM ROAD, SUITE 202 CRANBERRY TOWNSHIP PA TROM PHONE (814) 817-2033 EMAIL: INFORENYS.COM

GEOTECHNICAL CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 120 GENESIS BOULEVARD

APPROVED

WVDEP OOG

7/26/2022

Washing St.

MISS UTILITY OF WEST VIRGINIA
1-800-345-4448
WEST VIRGINIA BTATE LAW
155-CTION RIV. CHAPTER 24-C)
REQUINES THAT YOU CALL FAVO
BUSINESS DAYS 6FF0RE YOU DRI IN
THE STATE OF WEST VIRGINIA
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HOW BYG

120 GENESIS BOULEVARD BRIDGEPORT VIV. 28330

FHOME: (304) 933-3119

BRIDGEPORT, WV 28330 PHONE: (304) 933-3119

ENVIRONMENTAL

PROJECT CONTACTS:

OPERATOR
ANTERO RESOURCES CORPORATION 535 WHITE DAKS BLVO BRIDGEPORT, WV 26330 PHONE DIGHT MOUNTED

FAX: (304) 842-4102 ELI WAGDNER - ENVIRONMENTAL & REGULATORY MANAGER

DESIGN CONTRACTOR CELL COOK STRUCTURE AARON KUNZLER - CONSTRUCTION MANAGER

OFFICE: (304) 542-4191 DEFICE (304) 842-4401 | CELL (704) 827-7405

SCOTT HOFFER-UTILITY SUPERVISOR DREICE-1740 FEN-1012 CELL-130/LAFE-ARRO

UM WILSON - LAND AGENT OFFICE: (204) 842-4415 CELL: (304) 871-2708

DIANA HOFF - SUP OPERATIONS OFFICE (303) 357-6984

DESIGN CENTIFICATION:

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

PLAN REPRODUCTION NOTE:

THESE PLANS WERE CREATED TO BE PLOTTED ON 22" # 34" (ANSI D) PAPER HALF SCALE DRAWN ARE DN 11" X 17" (ANSI B)

THESE PLANS WERE CREATED FOR FULL COLOR PLOTTING AND ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR WILL NOT BE CONSIDERED. ADEQUATE FOR CONSTRUCTION PURPOSES.

INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING

BEECH RUN WELL PAD SITE DESIGN. **CONSTRUCTION PLANS & EROSION AND SEDIMENT CONTROL PLANS**

ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA ELK FORK WATERSHED PORTERS FALLS USGS 7.5 QUAD MAP

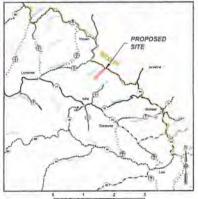






(NOT TO SCALE)

WV DOH COUNTY ROAD MAP



CREAT - CONSTRUCTION OFTAILS

SHEET INDEX	
COOD - COVER SHEET	CROS+CONSTRUCTION DETAIL
CCC1 - CONSTRUCTIONEAS NOTES	C893 + CONSTRUCTION DETAIL
D002 - LEGEND	CRON - GONSTRUCTION DETAIL
C100 - EXISTING CONCITIONS	S805 - CONSTRUCTION DETAIL
C200 - ISOPACH MAP	CASE - CONSTRUCTION DETAIL
C307 - OVERALL MITE PLAN	CRO7 - CONSTRUCTION DETAIL
C390 - SITE PLAN	CON - CONSTRUCTION DETAIL
C30f - SITE PLAN	G869 + CONSTRUCTION DETAIL
C302 - SITE PLAN	CB10 - CONSTRUCTION DETAIL
CB00 - PROPILES & CROSS SECTIONS	CB11 - CONSTRUCTION DETAIL
CHOI - PROPRET & CROSS SECTIONS.	CS12 - CONSTRUCTION DETAIL
CBOZ - PROFILES & CROSS SECTIONS	0913 - CONSTRUCTION DETAIL
C603 - PROFILES & CROSS SECTIONS	CB14 - CONSTRUCTION DETAIL
CEDI - PROFILES & CROSS SECTIONS	CB15 - CONSTRUCTION DETAIL
C605 - PROFILES & CROSS SECTIONS	CROS-RECLAMATION PLANS
CBMS - CONSTRUCTION DETAILS	C001 - RECLAMATION PLANS

	SITE LOCATION COORDINATES						
To any and a second	IVVIS-NF (NORTH ZONE)		UT383-17				
SITE LOCATION	LATITUDE	LONGITUDE	HORTHING	EASTEN			
ACCESS ROAD	39.6376941	-10.7773101	4375915.51	5/91,38.31			
WELL PAD	39.3288561	-80,7822212	4375485.83	518718.6			

CSO2 - HEICLAMATION PLANS

WELLHEAD LEGEND							
WELL	NV NORTH HADIT	NAD 27 LAT A LONG	LITM (WETTERS) ZONE 17	MADES I AT & LONG			
Trees,							
UNIT TH	M: 377159.50	LAT: 29" 31" 42.3392"	N: 4375451.51	LAT: 39" 31" 42 8457"			
	E. 1638282.88	LONG RESESSOR	E 418716 211	LONG -87" 45 \$8.0176"			
CRYSTAL UNIT 2H	N. 377173.17	CAT: 38" 31" 42 50.78"	NE 4375455 97	LAT: 31" 31"42 7802"			
	E- reneale ks	LONG -AT 46 M 5058"	E 3/8717 25	LONG -80" 48 55.9750			
EMMONS HINT IH	N. 377187.74	LAT 21'42 8483"	N 4375460-47	LAT 29" 31" 42 9347"			
	E: 1638289.98	LONG: 40" 41" 56.5631"	E: 518718.27	LONG: -10" 46 66 8323			
EMMONS LINE IN	M: 377202.31	LAT 31 42 7938	N. 4375464 RE	LAT 39" 31"42.0782"			
	E. 1638293.53	LONG30" AT DE 3205"	E 318719 25	LONG: -BIT 46' SS RESE			
LINT SH	NE 377216.88	LAT: 30" 31'42 9373"	N: 43754@-34	LAT. 38" 31" 43 ZZ37"			
	E: 1638297.08	LONG 40" 41" M. 4775"	E: 518720.28	LONG -80" 48 55.8170"			
FORSTER! UNIT IN	N: 377231.40	LAT: 381.31143.08181	N: 4375473-30	LAT: 39" 31"43.3680"			
	E richesion es	TOMO: -90, 48, 701 42255.	E: 518771.20	LONG -83" 45" 55,8043"			
FERSTER LINETZH	P£ 377248.03	LAT: 201 37143 22641	N: 4379478.26	LAT 29" 37 (1.5128"			
	E 1838304.18	TOWN -80" 46" 56.3976"	E: 518722.30	LONG: -00" 48" 55,7617"			
CILER IN	/c 377168.38	LAT: 28" 31" 42.453"	N: 4375454.38	LAT: 28" 21" 42,740"			
PERMITTED)	E: 1638266.00	LONG: 40' 46' 58.865"	E: 518711.09	LONG -80" 46" 50 234"			
ROPOSED WE	LE PAD ELEVATION	1222.4					

DESCRIPTION	ACRES	
ACCESS ROAD	5.89	
WELL PADIALIXIUARY PAD	72 89	
TOPSOIL/STRIPPING PILE W	2.70	
TOPSOILS PRIPPING PILE B	1.57	
STOOMILE C	1.24	
TOTAL	24,47	
TREE CLEARING	15.20	

LIMITED			ARCEL BREAKDOWN	
PHOPENTY CHARACTER	PARCEL ACREAGE		ONTURBANCE	ACREAGE
INTERO MOSTREAM LLC	(72.12.00	at 75	WELL FAD, ACESS FIGAD, TOPSON/STREPPING PN.E. STOCKPILE & TREE CLEARING	nn
AMERO MISTREAM LLC	02-12-12	50.00	WELL PAD, ADESS ROAD TOPSCIL/STRIPPING PILE STOCKPILE & TIME CLEANING	FD, ##
MARY ADALWE LEWIS ET AL	02-12-21	67.00	ACCESS ROAD & TREE CLEARING	7.10
		-	DISTURBED A CREAGE TOTAL	74.47

WETLAND IMPACTS WITHIN LOD								
D	TOTAL ACREAGE	TEMPORARY AMPACT	PERMANENT IMPACT	MI IMPACT	COMMENTS			
EST-WETLANDO!	0.002	NO.	11 005	767.	WITHW WORK AREA			
HLF_WETLANDIS	0.095	766	6003	NAME.	FILL PLACEMENT			
KLF WETLANDIA	0.008	AW	0.000	N/A	FILL PLACEMENT			
KLF_WETLANDIAN	0.171	MM	4171	NA	WITHIN WORK AREA			
TOTALS	0.376	- 0	0.774	0				



PER SHEET 23707 STATE OF

> DATE: 2/3/2022 SCALE: AS SHOWN

> > SHEET: COOO

