

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

Re: Permit approval for ATWOOD UNIT 1H

47-095-02798-00-00

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: ATWOOD UNIT H

Farm Name: A

ANTERO MIDSTREAM LLC

rm Name: ANTEN

U.S. WELL NUMBER: 47-095-02 Horizontal 6A New Drill

47-095-02798-00-00

Date Issued: 7/26/2022

Promoting a healthy environment.

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 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.
- 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:	

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 13:53:28-04000

JAMES A. MARTIN, CHIEF

WW-6B (04/15)

API NO. 47- 095 -			
OPERATOR WELL	NO.	Atwood 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	
1) Well Opera	tor: Antero	Resources	Corpora	494507062	095-Tyler		Porter Falls 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's	Well Numbe	er: Atwood U	nit 1H	Well F	Pad Name: Be	ech Run Pac	
3) Farm Name	/Surface Ov	vner: Antero	Midstrear	m LLC Public R	oad Access: B	eech Run R	d.
4) Elevation, c	current groun	nd: 1247'	E	levation, propose	ed post-constru	ction: ~1222	2'
5) Well Type	(a) Gas Other	X	Oil _	Ur	nderground Sto	rage	
	(b)If Gas	Shallow	Х	Deep			
		Horizontal	X				
6) Existing Pa	d: Yes or No	Yes					
				cipated Thicknes ess- 55 feet, Asso			
8) Proposed T	otal Vertical	Depth: 750	0' TVD	1			
9) Formation			Marcellu	s			
10) Proposed			9100' MI) /			
11) Proposed			1459.4'	1			
12) Approxim		Top Longen.		880'			
				470953085300	00 /		
13) Method to			opuis.	470933003300	00		
14) Approxim		_	289' /				
15) Approxim					77.00		
16) Approxim	ate Depth to	Possible Voi	d (coal m	nine, karst, other): None Antici	ipated	
17) Does Prop directly overly				Yes		No X	
(a) If Yes, p	rovide Mine	Info: Name	:				
		Depth	1:	DEGE	MED		
		Seam		THE WELL	U L		
		Owne	-	JUL 18	2022		
		Owne	4.				
				By Office of (Jila Gas		

Page 1 of 3

May 7/13/22

WW-6B (04/15) API NO. 47- 095

OPERATOR WELL NO. Atwood 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	23#	9100	9100 /	1376 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							
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					11 - 1 - 1		

PACKERS

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

Page 2 of 3

meg 7/13/22

WW-6B (10/14) API NO. 47- 095

OPERATOR WELL NO. Atwood Unit 1H

Well Pad Name: Beach 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 to surface.

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

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

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.

meg 7/8/22

WW-9 (4/16)

API Number 47 - 095

Operator's Well No. Atwood 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? Yes V
Will a pit be used? Yes 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 off site.)
Will a synthetic liner be used in the pit? Yes No ✓ If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34 Proved (ct. A PL Number Statement and WR-34)
Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34 Off Site Disposal (Supply form WW-9 for disposal location) Meadowfill Landfill Permit #SWF-1032-98
Other (Explain Northwestern Landfill Permit #SWF-1025/ WV0109410 Wetzel Co Landfill Permit #SWF-1021
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill. Surface - Alt/Freshwater, Intermediate-
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, 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 stored in tanks, removed offsite and taken to landfill.
-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 Landfill (Permit #SWF-1025/WV0109410)
Wetzel Co I.andfill (Permit #SWF-1021)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issue on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on the application form and all attachments thereto 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 or imprisonment. Company Official Signature Gretchen Kohler Company Official Title Director of Environmental & Regulatory Compliance
Subscribed and sworn before me this 22 day of June , 20 2.2. DIANE BLAIR
Notary Public NOTARY PUBLIC STATE OF COLURADO
My commission expires 27 Apr 2024 NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr

ME 7/15/22

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

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

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

Office of the and Gas

JUN 2 3 2022

WV Department of 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

RECEIVED
Office of Oil and Gas

JUN 2 3 2022

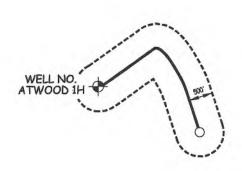
WV Department of Environmental Protection

Operator's Well No. Atwood Unit 1H

Proposed Revegetation Treatment: Acres Disturbe	ed 24.47 ac	res Prevegetation p	он
Lime 2-4 Tons/acre or to	correct to pH	6.5	
Fertilizer type Hay or straw or Wood Fiber	(will be used w	here needed)	
Fertilizer amount 500	lbs	:/acre	
Mulch 2-3	Tons/ac	ere	
Access Road (5.69 acres) + Well Pad (12.89 acre			Stockpile (1.24acres) = 24.47 Acres
	Seed	Mixtures	
Temporary		Perm	nanent
Seed Type lbs/acre		Seed Type	lbs/acre
Annual Ryegrass 40		Crownvetch	10-15
Field Bromegrass 40		Tall Fescue	30
See attached Table IV-3 for additional seed type (Beech Run Pad	d Design)	See attached Table IV-4A for additional	seed type (Beech Run Pad Design
*or type of grass seed requested by surface	e owner	*or type of grass seed requ	uested by surface owne
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic sections.	ed, include dir	ation (unless engineered plans incl mensions (L x W x D) of the pit, an	uding this info have been nd dimensions (L x W), and
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Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic section.	ed, include dir	Date: 7/13/22	uding this info have been and dimensions (L x W), and
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic section. Plan Approved by: Comments:	ed, include dir	nensions (L x W x D) of the pit, and	nd dimensions (L x W), and

4709502798

BEECH RUN PAD ANTERO RESOURCES CORPORATION





6000'

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

(304) 659-1717

DATE: 06/13/22

DRAWN BY: D.L.P.

JOB #: 22-005WA

FILE: ATWOOD1HAORs.DWG

0'

SCALE : 1-IN	CH = 2000-FEET
2000'	4000'



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:

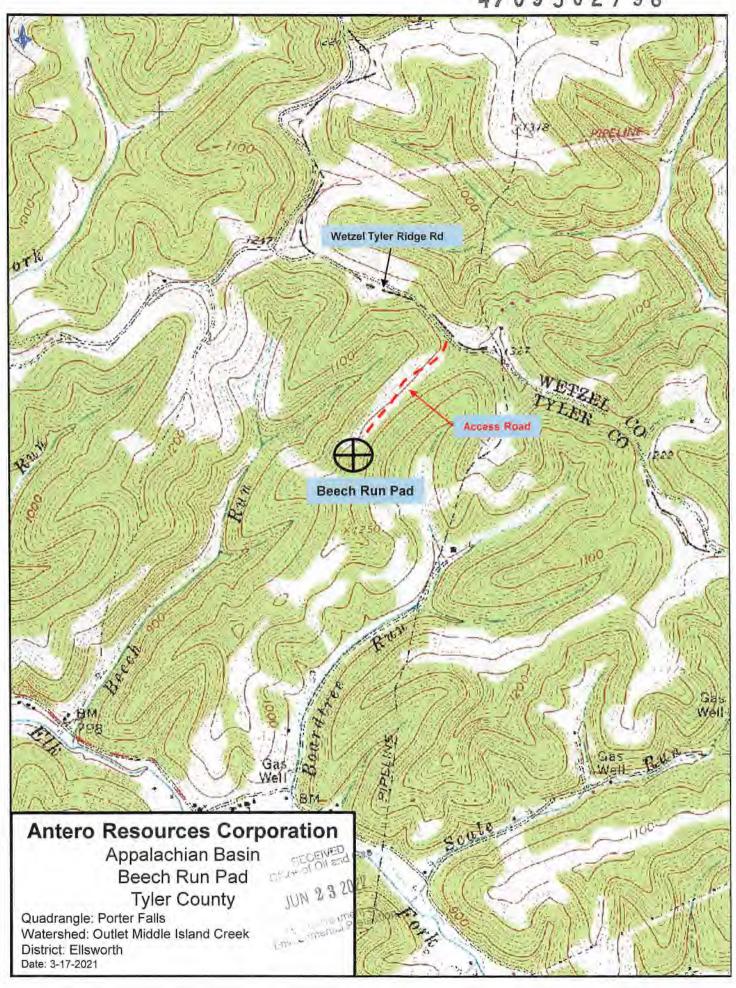
From Reader: Head northwest on Border Lane toward Old Mexico Rd. for 16 ft. - sharp left onto CO Rd. 40/2 for 0.3 miles - continue onto 8 Mile Rd. for 4.0 miles - slight right onto Wetzel Tyler Ridge Rd. for 2.0 miles - turn left onto Right Hand Middle Fork for 0.2 miles - lease road will be on your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

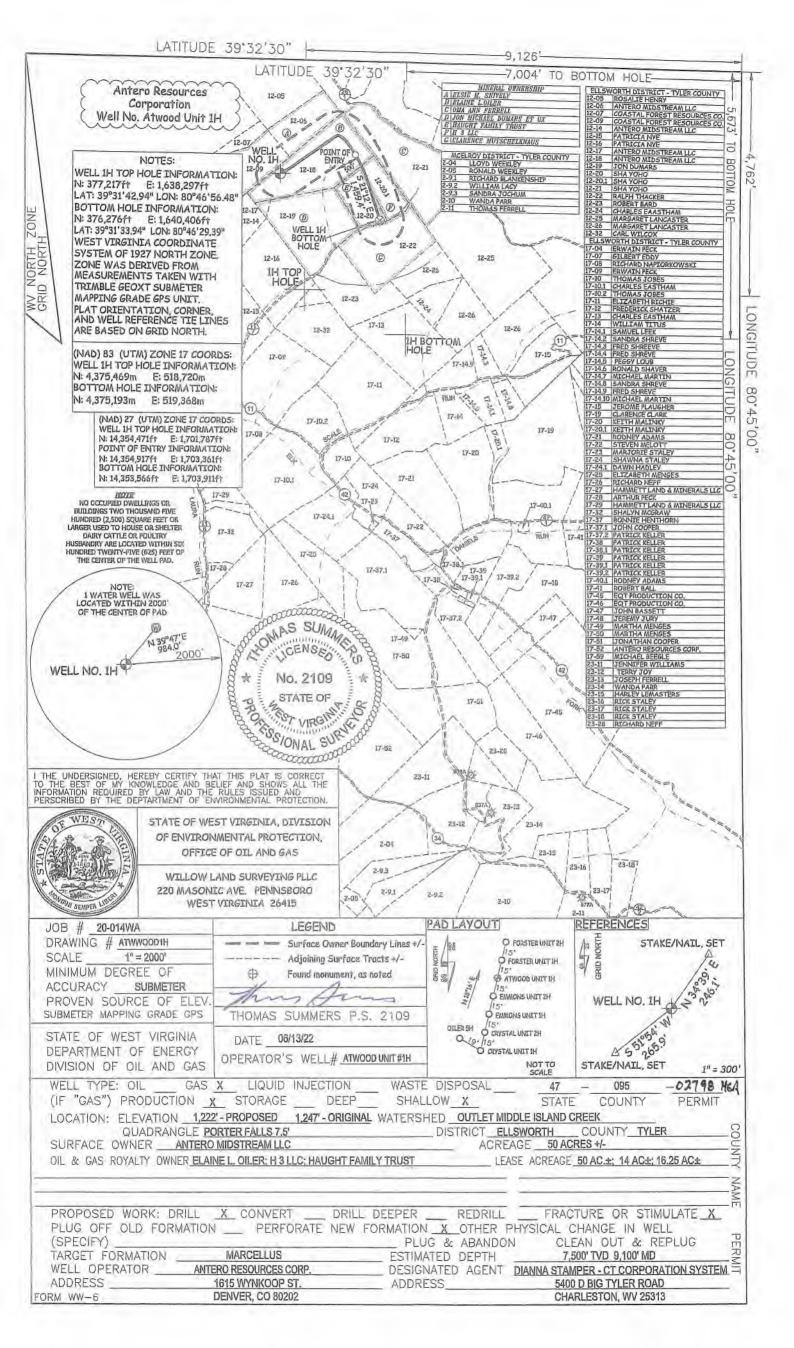
Alternate Route:

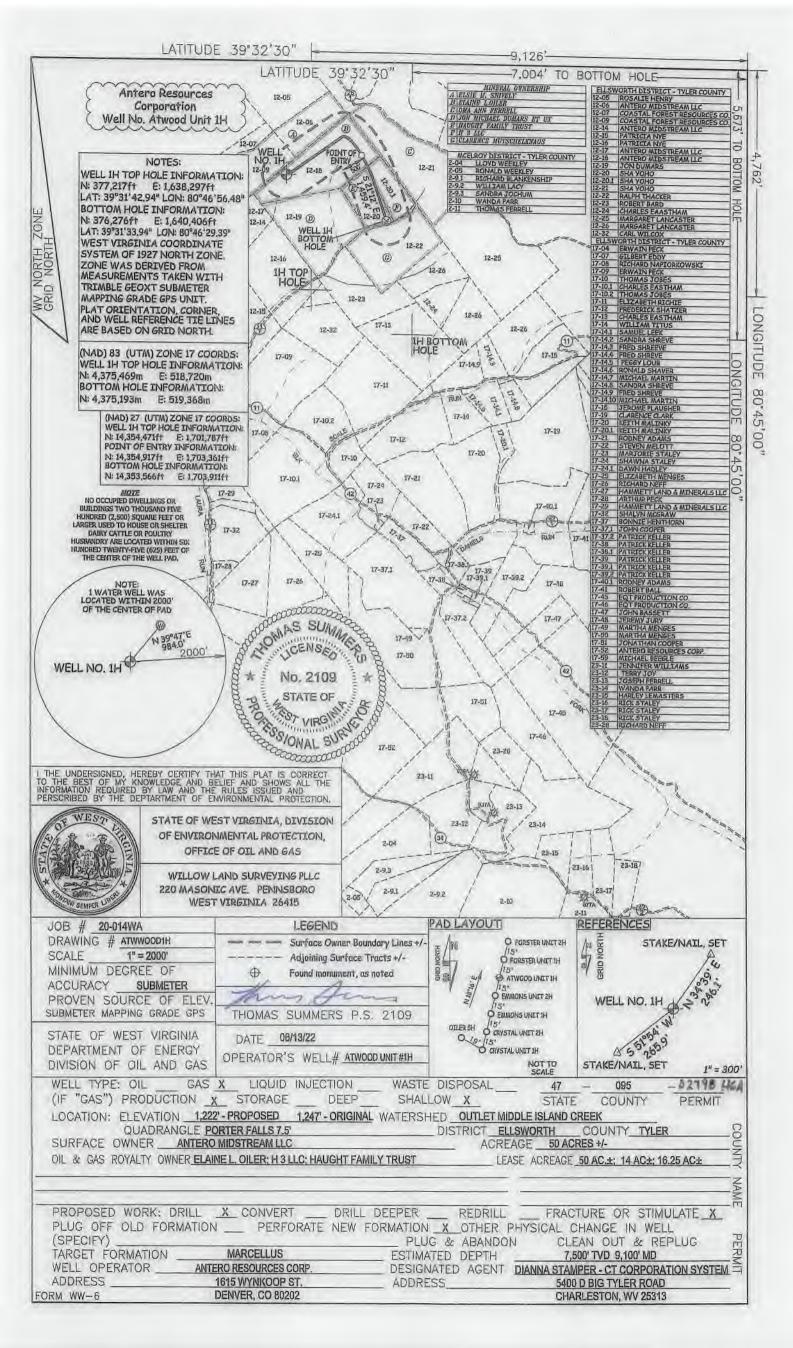
From Middlebourne: Head northeast onto WV-18 N/Main St. toward Court St./Dodd St/ for 4.3 miles - turn right onto WV-180 N for 0.2 miles - turn right onto CO Rd. 11/6 for 0.4 miles - continue onto Elk Fork Rd. for 5.3 miles - slight left onto Mudlick Rd. for 0.1 miles - continue onto Left Hand Middle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

5m 7/13/22







Operator's Well Number

Atwood Unit 1H

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

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

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

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
/	B: Elaine L. Oiler Lease			
·	Elaine L. Oiler	Petroedge Energy LLC	1/8	0399/0725
	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
/	F: H 3 LLC Lease			
•	H 3 LLC	Antero Resources Appalachian Corporation	1/8+	0417/0257
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430

Office Charles of Gas

JUN 2 3 2022

Wiv Department of Environmental Protection

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

WW-6A1	
(5/13)	

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

Under the oath required to make the verification on page 1 of this Notice and Application, 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
1	E: Haught Family Trust Lease				
		Haught Family Trust dated 4/17/1989 Montani Energy LLC	Montani Energy LLC Antero Resources Corporation	1/8+ Assignment	0392/0069 0396/0759

*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

VP of Land

Page 1 of 1

Office of Grand Gas

JUN 2 3 2022

NV Department of Environmental Protection



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:

Atwood Unit 1H

Quadrangle: Porter Falls 7.5'

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Atwood Unit 1H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Atwood Unit 1H horizontal lateral 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

INV 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

Operator's Well No. Atwood Unit 1H

		Well Pad I	Name: Beech R	Run Pad
Notice has b				
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provided the red	quired parties v	vith the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	——— UTM NAD 83 Easting:	518720m	
County:	Tyler	Nortning:	4375469m	
District:	Elisworth	Public Road Access:	Beech Run Rd.	
Quadrangle:	Porter Falls 7.5'	Generally used farm name:	Antero Midstream	1LLC
Watershed:	Outlet Middle Island Creek			
prescribed by it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shed the owners of the surface describ equired by subsections (b) and (c), see surface owner notice of entry to sur of subsection (b), section sixteen of	every permit application filed under the stall contain the following information: (1 ed in subdivisions (1), (2) and (4), subtion sixteen of this article; (ii) that the revey pursuant to subsection (a), section this article were waived in writing by ender proof of and certify to the secretary to	4) A certification (b), section (b), section (c), section	on from the operator that (in ction ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice when it was a result to West when it was a result to West when it was a result when it was a
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required	erator has attached proof to this Notice Of parties with the following:	Certification	OOG OFFICE USE ONLY
		NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDUC	CTED	☐ RECEIVED/ NOT REQUIRED
□ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY WAS C	CONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECANOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	ACE OWNER	
 ■ 4. NO	TICE OF PLANNED OPERATION	4		☐ RECEIVED
= 4. NO				
	BLIC NOTICE	JIN 9.3 INST		RECEIVED

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

ROANE/ESEAIR 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.

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 depprivacyofficer@wv.gov.

JUN 23 Land Protection

WW-6A (9-13)

, +	
API NO. 47- 095 -	
OPERATOR WELL NO	Atwood Unit 1H
Well Pad Name: Beech Ru	n Pad

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

Notice Time Requirement: notice shall be provided no later that	an the filing date of permit application.
Date of Notice: 06/22/2022 Date Permit Application Filed: 06/22 Notice of:	2/2022
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	O(b)
	OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be local oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well pursual operator or lessee, in the event the tract of land on which the well pursual work, if the surface tract is to be used for the placement, constrict impoundment or pit as described in section nine of this article; (5) A have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than threse subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not Code R. § 35-8-5.7.a requires, in part, that the operator shall also pursuary purveyor or surface owner subject to notice and water testing	the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the f the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to d (6) The operator of any natural gas storage field within which the see tenants in common or other co-owners of interests described in the neight, article one, chapter eleven-a of this code. (2) Notwithstanding any anotice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ SURFACE OWNER(s) Name: Antero Midstream LLC Address: PO Box 1826	COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: RECEIVED GRAD
Cockeysville, MD 21030-7826 Name: Address:	Address: COAL OPERATOR Name: No DECLARATIONS ON RECORD WITH COUNTY Address: CONTROL OF WATER WELL Control Office of One Water Well Contr
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Address: Name: Address:	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Antero Midstream LLC Address: 1615 Wynkoop Street Denver, CO 80202 OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits) Name: Address:	Name:Address: *Please attach additional forms if necessary

API NO. 47-095 - 0 9 5 0 2 7 9 8

OPERATOR WELL NO, Atwood 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

WV Department of Environmental Protection

WW-6A (8-13)

API NO. 47- 095

OPERATOR WELL NO. Atwood 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

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)

API NO. 47- 095 OPERATOR WELL NO. Atwood 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.



WW-6A (8-13) API NO. 47- 095 OPERATOR WELL NO. Atwood Unit 1H
Well Pad Name: Beech Run Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation Robert S. Odunthal
Telephone: (303) 357-7310
Email: 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 deepprivacyofficer@wv.gov.

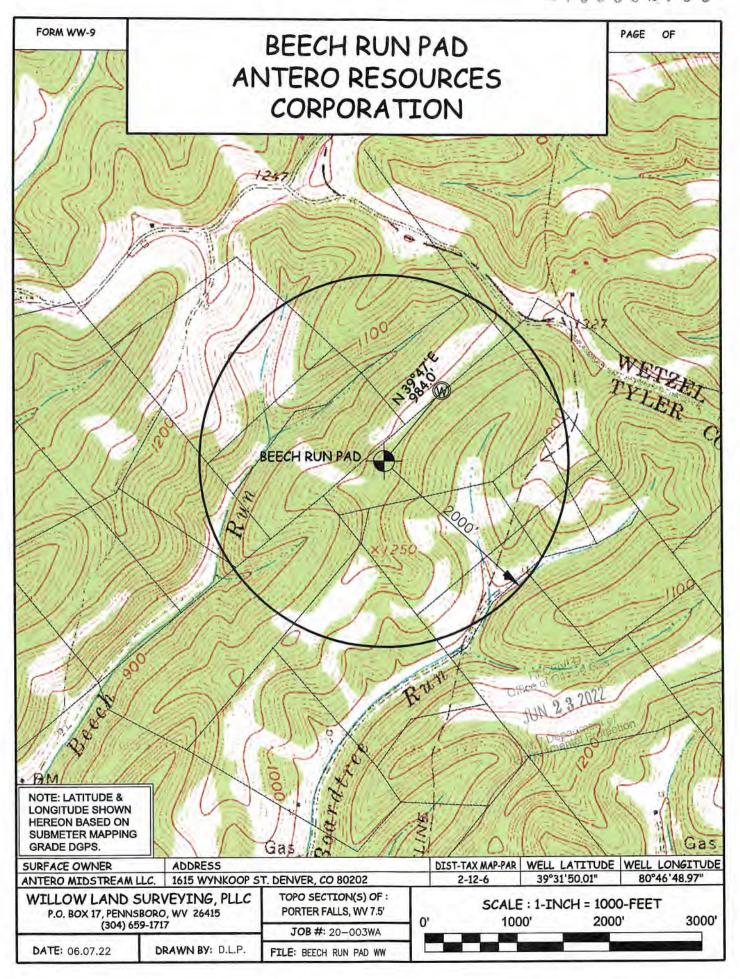
DIANE BLAIR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 19994011871
MY COMMISSION EXPIRES 27-Apr-2024

Subscribed and sworn before me this 22 day of duna 2022.

Notary Public

My Commission Expires 27 Apr. 2024





Operator Well No. Atwood 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.

Notice Time I Date of Notice	e: 05/06/2022		Date Permit	Application Filed: 06/22/2022	<u> </u>
Delivery metl	nod pursuant	to West Virgin	a Code § 22-6	A-16(b)	
☐ HAND		CERTIFIED N	TAIT		
DELIVE			EIPT REQUES	STED	
receipt request drilling a horize of this subsect subsection ma and if availabl	ted or hand de zontal well: It ion as of the d y be waived it e, facsimile n	livery, give the errovided, That in late the notice we writing by the	surface owner notice given purs as provided to the surface owner. onic mail address	otice of its intent to enter upon uant to subsection (a), section he surface owner: <i>Provided</i> , he The notice, if required, shall in so of the operator and the operator	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements owever, That the notice requirements of this clude the name, address, telephone number, tor's authorized representative.
THE THE PARTY OF T	Midstream, LLC			Name:	
Address: POB				Address:	
Cocks	eysville, MD 21030-				
Notice is her	eby given: est Virginia (Code § 22-6A-16	(b), notice is he	ereby given that the undersignental well on the tract of land as	d well operator has an intent to enter upon follows:
Notice is her Pursuant to W the surface ow State: County: District:	eby given: est Virginia (Code § 22-6A-16	(b), notice is he rilling a horizor	ereby given that the undersigneratal well on the tract of land as UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	follows: 518720m
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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.



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

Notice Time I Date of Notic	Requirement: notice shall be provided in e: 06/22/2022 Date Permit A	no later than the filing opplication Filed: 06/22		application.
Delivery met	nod pursuant to West Virginia Code §	22-6A-16(c)		
CERTIF	TED MAIL	HAND		
	N RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a h damages to th (d) The notice of notice. Notice is here	requested or hand delivery, give the surperation. The notice required by this sprovided by subsection (b), section tendorizontal well; and (3) A proposed surge surface affected by oil and gas operations required by this section shall be given by provided to the SURFACE OWNER.	face owner whose land subsection shall include of this article to a surfa- face use and compens ons to the extent the da- to the surface owner a	will be used for le: (1) A copy ace owner whos 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 e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Consider a latitude of the	s listed in the records of the sheriff at the	time of notice): Name:		
Name: Ante Address: 1615		Address		
Carry Lawrence Control	ver. CO 80202	Address		
Notice is here Pursuant to W operation on State: County: District:	est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Tyler Ellsworth	is hereby given that the of drilling a horizonta UTM NAD 8 Public Road	well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 518720m 4375469m Beech Run Rd.
Quadrangle:	Porter Falls 7.5'		d farm name:	Antero Midstream LLC
Watershed:	Outlet Middle Island Creek	Generally use	d fariii name.	Autora Middinatin EES
Pursuant to W to be provide horizontal we surface affect information r	d by W. Va. Code § 22-6A-10(b) to a ll; and (3) A proposed surface use and ced by oil and gas operations to the exterior to horizontal drilling may be obtained at 601 57th Street, SE, Cha	surface owner whose compensation agreement the damages are contained from the Secret	land will be un nt containing ar ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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WW-6AW (1-12)

API NO. 47-095 -	13.77.77.27.27.7
OPERATOR WELL NO.	Atwood Unit 1H

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

State:	West Virginia	UTM NAD 83 Easting:	518720m
County:	Tyler	Northing:	4375469m
District:	Ellsworth	Public Road Access:	Beach Run Rd.
Quadrangle: Watershed:	Porter Falls 7.5' Outlet Middle Island Creek	Generally used farm name:	Antero Midstream, LLC
*Please chec	k the box that applies	FOR EXECUT	TION BY A NATURAL PERSON
	CE OWNER	25.50	IIIN 2 3
□ SURFA	CE OWNER (Road and/or Other Disturban	Drint Nome:	
□ SURFA	CE OWNER (Impoundments/Pits)	100000	TION BY A CORPORATION, ETC.
□ COAL (OWNER OR LESSEE	Company: Antero	Midstream LLC
	PERATOR	By: Robert Odenthal Its: VP of Drilling	
□ COAL C			
	RPURVEYOR	Signature:	Robert S. Odenthal

Oil and Gas Privacy Notice:

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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
Atwood 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.

Tany K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc:

Diane Blair Antero Resources CH, OM, D-6

File

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

FRACTURING/STIMULATING INTERVAL

Additive	Chemical Abstract Service Number (CAS #)
1. Fresh Water	7732-18-5
2. 2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3. Ammonium Persulfate	7727-54-0
4. Anionic copolymer	Proprietary
5. Anionic polymer	Proprietary
6. BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7. Cellulase enzyme	(Proprietary)
8. Demulsifier Base	(Proprietary)
9. Ethoxylated alcohol blend	Mixture
10. Ethoxylated Nonylphenol	68412-54-4
11. Ethoxylated oleylamine	26635-93-8
12. Ethylene Glycol	107-21-1
13. Glycol Ethers	111-76-2
14. 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
23. Propylene Glycol	57-55-6
24. Quartz	14808-60-7
25. Sillica crystalline quartz	7631-86-9
26. Sodium Chloride	7647-14-5
27. Sodium Hydroxide	1310-73-2
28. Sugar	57-50-1
29. Surfactant	68439-51-0
30. Suspending agent (solid)	14808-60-7
31. Tar bases, quinolone derivs, benzyl chloride-quarternize	
32. Solvent Naptha, petroleum, heavy aliph	64742-96-7
33. Soybean Oil, Me ester	67784-80-9
34. Copolymer of Maleic and Acrylic Acid	52255-49-9
35. DETA Phosphonate	15827-60-8
36. Hexamythylene Triamine Penta	15827-60-8 34690-00-1 71050-62-9 33605-74.5
37. Phosphino Carboxylic acid polymer	71050-62-9 Office of Only
38. Hexamethylene diamine penta	
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9 23605-74-5 111-46-6 Environmental Protes
40. Hexamethylene diamine penta (methylene phosphonic	c acid) 23605-74-5 con Department
41. Diethylene Glycol	111-46-6 Environmental
42. Methenamine	100-97-0
43. Polyethylene polyamine	68603-67-8
44. Coco amine	61791-14-8
45. 2-Propyn-1-olcompound with methyloxirane	38172-91-7

GENERAL DESCRIPTION:

THE ACCESS ROAD(S), WELL HAD AND/OR WRITER CONTAMINENT PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS:

FLOODPLAIN HOTES

THE PROPOSED SITE LOCATION IS NOT WITHIN ANY IDENTIFIED FLOOD ZONES, PER FEMA MAP. NUMBER(S) #54098000750.

MISS UTILITY STATEMENT:

ANTERO RESOURCES CORPORATION MILL NOTIFY MISS LITLITY OF WEST VIRGINIA FOR THE LOCATION OF UTILITIES PRIOR TO THIS PROJECT DESIGN, TIGGET RESOURNESS, IN ADDITION, MISS LITLITY WAIL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION POR THIS PROJECT.

FUTDAMOF DETINA

ANTERO RESOURCES CORPORATION WILL DETAIN AN ENCROACHMENT PERMIT (FORM MIN-109) FROM THE WEST VIRIBINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTITUCTION ACTURITIES

ENVIRONMENTAL NOTES:

STREAM AND NETTAND DELIVERTIONS WERE PERCONNER ON COTOSET TIP. 200 BY EVYPONMENTAL SOLLITIONS SHOWNCHOOLS. FOR REVIEW THE SET FOR METERS AND NETTANDE. THAT ARE MOST LIKELY WITHIN THE RESULTATION SHOWNCHOOLS. FOR EACH ADDRESS OF THE LIS. ARMY COURT OF ENDERS SHOWN OF THE LIS. ARMY COURT OF ENDERS SHOWNCHOOLS. FOR EXAMPLED FOR THE SET OF THE

GEOTECHNICAL NOTES

THE PROPOSED 31 SLOPES SHALL BE VERHELD BY A CENTRED GROTECHNICAL ENGINEER TO ENSURE THE PROPOSED SLOPES ARE ADDIQUATE PROPICT D CONSTRUCTION CONSERVATION OF THE ADDIQUATE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OR PROJECT DESIGN ENGINEER DURING CONSTRUCTION

RESTRICTIONS NOTES:

- I THERE ARE NO LAKES OF RESERVOIRS WITHIN 100 FEET OF THE WELL PAD.
- 2 THERE ARE METLANDS THAT WILL BE REPRICTED WITHIN 100 FEET OF THE WELL PAD IOD AND A METLAND WHYOR REQUEST WILL BE SUBMITTED FOR THE APPROPRIATE METLANDS ADDITIONALLY, SEVERAL WETLANDS ARE TO BE PERMANENTLY MAPACTED AND WILL BE PERMATED THROUGHT HE APPROPRIATE ACCORDISE.
- 2 THERE ARE NO EPHEMERAL INTERMITTENT, OR PEREMINAL STREAM IMPACES WITHIN THE LOD.
- II, THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 2010 FEET OF THE WELL PAID AND LOD:
- 6 THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1,000 FEET OF THE WELL PAD AND LOD.
- IL THERE ARE NO APPARENT EXISTING WATER MELLS OR DEVELOPED SPRINGS WITHIN 280 FEET OF THE WELLISI TO BE DRALED.
- THERE MRE NO OCCUPIED DWELLINGS OR AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD

SURVEYOR.
CIVIL IL ENVIRONMENTAL CONSULTANTS, INC.
150 GENESS BOULEVARD
BRIDGEPORT, IVY 2839
PHONE: (160) 433-4119
EMAIL: INFO@CECING COM

ENVIRONMENTAL SOLUTIONS & INNOVATIONS, INC.

1341 OLD FREEDOM ROAD, SUITE 202 GRANBERRY TOWNSHIP, PA 16066

APPROVED

WVDEP OOG

7/26/2022

WEST WHELPING ST

MISS UTILITY OF WEST VIRGINIA 1-300-745-4848

1-000-25-45-88
WEST VARGINIA STATE LAW
ISECTION XIV: CHAPTER 24-C)
REQUINES THAT YOU CALL TWO
SISIESS DAYS BEFORE YOU DIG I
THE STATE OF WEST VIRGINIA
IT'S THE LAWI!

CIVIL 4 ENVIRONMENTAL CONSULTANTS, INC.

PHONE (814) #17-2035

PROJECT CONTACTS:

OPERATOR
ANTERO RESOURCES CORPORATION
SIS WHITE CAR'S BLVD.
BRIDGEPORT, WY 26130PHONE: (204) 142-4100
FAX: (304) 247-4102

ELI WAGONER - ENVIRONMENTAL & REGULATORY MANAGER OFFICE (204) 842-4068 CELL (204) 478-9770

AARON KUNZLER - CONSTRUCTION MANAGER OFFICE (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER OFFICE, (304) 842-4401 | GELL (304) 827-7405

9COTT HOFFER - UTILITY SUPERVISOR OFFICE (740) 750-1012 CELL (101) 815-8885

JM WILSON - LAND AGENT OFFICE: (304) 842-4419 CELL: (304) 871-2709

DIANA HOPF - SVP OPERATIONS OFFICE: (302) 357-6904

DESIGN CERTIFICATION:

THE DRAWNGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED. IN ACCOMPANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND BAS CRS 258.

PLAN REPRODUCTION NOTE:

THESE PLANS (WERE CREATED TO BE PLOTTED ON 22" X 34" (ANS) D) PAPER. HALF SCALE DRAWNIGS ARE ON 11" X 17" (ANS) B).

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

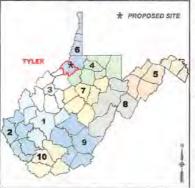
INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING

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

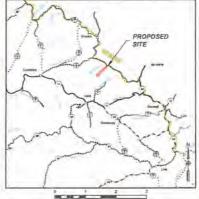


WEST VIRGINIA COUNTY MAP WV DOH C



(NOT TO SCALE)

WV DOH COUNTY ROAD MAP



SCALE: I'= I MILE

CORD - COVEN SHEET

CORT - CONSTRUCTION/EAS NOTES

CORD - LEGEND

CORD - EXISTING CONDITIONS

CORD - ISONACH MAP

C369 - GVERALL SITE PLAN C360 - SITE PLAN C361 - SITE PLAN C362 - SITE PLAN

SHEET INDEX

C800 - PROFILET & CHOSS SECTIONS C801 - PROFILES & CHOSS SECTIONS C602 - PROFILES & CHOSS SECTIONS C603 - PROFILES & CHOSS SECTIONS C804 - PROFILES & CHOSS SECTIONS C804 - PROFILES & CHOSS SECTIONS

C805 - PROFILES & CROSS SECTIONS G800 - CONSTRUCTION DETAILS C801 - CONSTRUCTION DETAILS

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CROS - RECLAMATION PLANS CROS - RECLAMATION PLANS CROS - RECLAMATION PLANS

SITE LOCATION COORDINATES							
SITE LOCATION -	WYRS-AF (NORTH ZONE)		1/78183-17		1,778183-17		
	LATITUDE	LONGITUDE	HORTHING	EASTING			
ADDESS ROAD	30.5376941	-80.1773196	4372516.81	519139.60			
WELL PAD	29.5288581	-R17872212	4375479 A.S	518718.61			

WELLHEAD LEGEND						
WELL	WV NORTH NAD27	HAD 27 LAT & LONG	UTM (WEITING) ZONE 17	MADES LAT & LONG		
74402			to marries	To the same and the states		
CRYSTAL.	N: 377158 50	LAT 39" 31" 42.3593"	M 4375851.11	LAT: 30" 31" 42.6457"		
WALL THE	E 1638282.86	LONG - NO 40' 56.6484"	E 510716.20	LONG: -80" 45" 50,0176		
CRYSTAL UNIT 2H	N. 377112.17	LAT 38" 31" 42.5038"	N. 4375455.37	IAT 35' 31' 42.7902"		
	E: 1030206.43	LONG - #5" 48" 50,8058"	£ 518717.26	LONG. 48' 48' 55,9760		
EMIKONS LIMT 1H	N: 377187,74	LAT # 31'42.6433"	N 4375480 42	LAT 29" 21" 42,3047"		
	E' 1638209.30	LONG WITH SESSION	E 31931127	LONG80" 6ff 58,9273		
EMMONS LINETZH	N: 377202.31	CAT: 38*31*42.7828*	N. 4375464.88	LAT 39" 31"43.0792"		
	E-1838203.53	LONG -80" 45" 56.0200"	E 018719.28	LONG -811" 48" 65,6694		
ATWOOD H	1e 377218.8E	CAT: 39" 31" 42.9373"	N: 4375469.34	LAT. 29" J1" 43.2237"		
	E: 1638297.00	LONG -80 48 58,4778*	(E. 518720:20	LONG BY 45 M. 8470		
FORTER LINE IN	№ 377231.40	LAT 38"37"43.7818"	N: 4375472 80	LAT: 38" 21" ALMSE"		
	E: 1626300 63	LONG -80" 48" 50, 4352"	E 918121.79	LONG 407 45 55 8043		
HORRITER LATT 2H	fe: 377246.03	(AT: 39" 31"41 2264"	N: 4375478.26	LAT 29" 21" 43.8128"		
	E' 1638304.18	LONG -80" 48" 56.3926"	E 818722 30	LOWE - BOT 48 SE THEY		
CHERSH	M: 377168.35	LAT 39" 31" 42 453"	Nº 4375454 30	CAT 201 311 42,740		
(PERMITTED)	E. 1838286.09	LDMG: -80"-46" 56.845"	£ 318711.09	LONG 20" 45 SE 334"		
PROPOSED WE	LE PAD ELEVATION	1222.4"				

DESCRIPTION	ACRES
ACCERS ROAD	5.00
WELL PADYALKILIARY PAD	12.89
TOPSOILSTREPFING PILE 'A	2.78
TOPSOIL/STREEPING PILE TO	1,87
STOOKPILE TO	1,24
TOTAL	24,47
TREE CLEARING	15.20

LIMITEO	F DISTUR	BANCEP	ARGEL BREAKDOWN	
PROPERTY	TAX MAP PARCEL	MARCEL	TYPE OF DISTURBANCE	ACREAGE
AHTERO MIDSTREAM LLC	02-12-de	31.72	WELL PAD, ACESS ROAD, TOPSON/STREPPING PILE, STOCKPILE & THEE CLEANING	12.12
ANTERO MESTREAM LLC	02-12-18	±0.00	WELL PAU ACESS ROAD TOPSOLUSTRIPPING PILE STOCKPILE & TREE CLEARING	10, fe
MARY ADALME LEWIS ET. AL	02-12-21	£7.00	ACCESS HOAD A TREE CLEARING	2.18
	-	_	DISTURBED ACREAGE TOTAL	14.47

WETLAND IMPACTS WITHIN LOD							
10	TOTAL ACREAGE	TEMPORARY MEACT	PERMANENT SUPACT	NO MPACE	COMMENTS		
ESH-WEILANDOT	0.002	APR	0.002	tex.	THO THIN WORK AREA		
ALF IVETLANDIS	11 088	AWA	0.095	NA	FILL PLACEMENT		
KLF WETLANDIA	0.008	N/A	800.0	NA	FILL PLACEMENT		
UF WETLANDIA 82	9.171	N/A	0.171	NA	WITHIN WORK AVE A		
TOTALS	0.276	0	0.276				

DATE REVISION



HIN TO SET THE PAD TO

En 105

DATE: 2/3/2022 SCALE: AS SHOWN SHEET: COOR

