

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Friday, December 12, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for Barnhart Unit 5V

47-095-02955-00-00

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.

H. Jason Harmon Acting Chief

Operator's Well Number: Barnhart Unit 5V

Farm Name: Gregory A & Brenda G Westbrook

U.S. WELL NUMBER: 47-095-02955-00-00

Horizontal 6A New Drill Date Issued: 12/12/2025

API Number: <u>47</u>-095-02955

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47-095 -		
OPERATOR WELL	NO.	Barnhart Unit 5V
Well Pad Name:	Bamha	art Pad

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

) Well Operat	or: Antero	Resources	Corporat	494507062	095 - Tyler	Meade	Bens Run 7.5'
, F	1			Operator ID	County	District	Quadrangle
2) Operator's V	Well Numbe	er: Barnhart l	Jnit 5V	Well Pac	l Name: Barn	nart Pad	
) Farm Name	/Surface Ov	vner: Gregory A.	& Brenda G. W	Public Roa	d Access: Mc	Kim Creek	Rd
l) Elevation, c	urrent grour	nd: 1043'	Ele	evation, proposed	post-constructi	on: 1025'	
i) Well Type	(a) Gas Other	X	_ Oil	Unde	erground Stora	ge	
	(b)If Gas	Shallow Horizontal	X	Deep			
6) Existing Pac	d: Yes or No	No					
				ipated Thickness a ss- 55 feet, Associa			
3) Proposed To	otal Vertical	Depth: 670	0' TVD				
) Formation a	t Total Vert	ical Depth:	Marcellus				
0) Proposed T	Гotal Measu	red Depth:	6700' MD				
1) Proposed I	Horizontal L	eg Length:	0' *Open	to modification at	a later date		
2) Approxima	ate Fresh W	ater Strata De	pths:	198', 370'			
3) Method to 4) Approxima			Depths: F	From 4707301867	70000, 47095	00840000)
5) Approxima			I/A				
,				ne, karst, other):	N/A		
7) Does Propolirectly overly	osed well lo	cation contain	oal sear			X	
(a) If Yes, pro	ovide Mine	Info: Name	:				
.,		Depth	:				
		Seam:					
		Owne	r:				

API NO. 47095	
OPERATOR WELL NO.	Bamhart Unit 5V
Well Pad Name: Barnh	art 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	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	420'	420'	CTS, 438 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	6700'	6700'	761 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

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

OPERATOR WELL NO. Barnhart Unit 5V

Well Pad Name: Bamhart Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new vertical shallow well and complete Marcellus Shale.

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): 30.88 acres

22) Area to be disturbed for well pad only, less access road (acres): 11.07 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/L cement.

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

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

Page 3 of 3
Digitally signed by Stephen
Stephen Mdd 29/2025,11,19 09:11:41
-05:00'

BARNHART PAD ANTERO RESOURCES CORPORATION





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

DATE: 10/14/25 DRAWN BY: T.B.S.

JOB #: 25-050WA
FILE: BARNHARTAOR.DWG

SCALE: 1-INCH = 500-FEET 0' 500' 1000'

1500'

November 4, 2025

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

RE: Request for Variance – Class L Cement Barnhart Unit 5V Tyler County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal wells (Barnhart Unit 5V) on the Barnhart Pad.

Antero only plans to use this method if Class A cement is not available to be use due to supply issues. Please see Order No 2022-14 attached.

If you have any questions or need further information, please feel free to contact Mallory Turco, Permitting Manager, at (303) 357-7182 or email at mturco@anteroresources.com.

Sincerely,

Stefan Gaspar Permitting Agent

Antero Resources Corporation





west virginia department of environmental protection

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

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

IN THE MATTER OF A VARIANCE FROM)			
LEGISLATIVE RULE 35CSR4)	ORDER NO.	2022-1	4
SECTION 11.5 AND LEGISLATIVE RULE)		000	TEMEN.
35CSR8 SECTION 9.2.h.8.,)		Office Of	Oli and Gas
RELATING TO THE CEMENTING)		MOV	
OF OIL AND GAS WELLS)		MUA	6 2025
		•	W/V Depa	atment of fal Protection

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

Promoting a healthy environment.

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

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

Office Of Oil and Gas

NOV 6 2025

WV Department of Environmental Protection

API Number 47 - 095

Operator's Well No. Barnhart Unit 5V

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

6 2025

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DIS	SPOSAL & RECLAMATION PLAN	V Department of connental Protocolo
Operator Name_ Antero Resources Corporation	OP Code 494507062	unmental Protectio
Watershed (HUC 10) Outlet Middle Island Creek	Quadrangle Bens Run 7.5'	
Do you anticipate using more than 5,000 bbls of water to com Will a pit be used? Yes No	nplete the proposed well work? Yes No	_
If so, please describe anticipated pit waste: No pit will be	be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hau	led 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:		
Reuse (at API Number Future permit	mit Number *UIC Permit # will be provided on Form WR-34 itted well locations when applicable. API# will be provided on Form WR-34 /W-9 for disposal location(Meadowfill Landfill Permit #SWF Northwestern Landfill Permit #SWF WV0109410	<u>(F-1023)</u>
Voc fluido	Wetzel Co Landfill Permit #SWF-	<u>1021</u> fill.
Will closed loop system be used? If so, describe: Yes, fluids		flate - er Based Mud
Drilling medium anticipated for this well (vertical and horizo	ontal)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc	Synthetic	
Additives to be used in drilling medium? Please See Attachme	nent	
Drill cuttings disposal method? Leave in pit, landfill, removed	red offsite, etcDrill cuttings stored in tanks, removed offsite and take	en to landfill.
-If left in pit and plan to solidity what medium will	Il Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/A	WV0109410)
WelzerCo	Landini (i Citili #544) 1022/	
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provid where it was properly disposed.	d Gas of any load of drill cuttings or associated waste rejuded within 24 hours of rejection and the permittee shall al	so disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action. I certify under penalty of law that I have persona application form and all attachments thereto and that, be obtaining the information, I believe that the information penalties for submitting false information, including the post Company Official Signature Gretchen Kohler Company Official Title Director of Environmental & Regulator Company Official Compan	ally examined and am familiar with the information subjected on my inquiry of those individuals immediately is true, accurate, and complete. I am aware that there existingly of fine or imprisonment.	other applicable abmitted on this responsible for
Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and sworn before me this 5th day of Subscribed and Subscrib	November, 2025	
Stetan Gaspar	Notary Public	
My commission expires November 15	5 , 2026 STE	FAN GASPAR OTARY PUBLIC E OF COLORADO

Operator's Well No. Barnhart Unit 5V

Proposed Revegetation Treatment: Acres Disturbed	30.88 acres	Prevegetation p	Н
Lime 2-4 Tons/acre or to co	orrect to pH 6.5		
Fertilizer type Hay or straw or Wood Fiber (y	•		
Fertilizer amount 500	lbs/acre		
Mulch 2-3	Tons/acre		
Access Road "A" (14.44 acres) + W	Vell Pad (11.07 acres) + Exces	ss/Topsoil Material Sto	ockpiles (5.37 acres)
	= 30.88 Acres		
Temporary		Perm	anent
Seed Type lbs/acre		Seed Type	lbs/acre
Annual Ryegrass 40	Crown	vetch	10-15
Field Bromegrass 40	Tall Fescu	e / Rygrass	30 / 20
See attached Table IV-3 for additional seed type (Barnhart Pad D	Design) See attached	Table IV-4A for additiona	I seed type (Barnhart Pad Design
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, acreage, of the land application area.	land application (unless en include dimensions (L x V	gineered plans inclu	iding this info have been
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic should be acreaded.	land application (unless en , include dimensions (L x V	gineered plans inclu V x D) of the pit, an	ested by surface owner ding this info have been d dimensions (L x W), and
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Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb 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



NOV 6 2025

WV Department of

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

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

NOV 6 2025

WV Department of Environmental Protection



911 Address 639 McKim Creek Rd, Ellenboro, WV 24642

Well Site Safety Plan Antero Resources

Well Name: Barnhart Unit 5V

Location: Barnhart Pad

Tyler County/Meade District

GPS Coordinates:

Entrance - Lat 39.370924 /Long -81.001703 (NAD83)

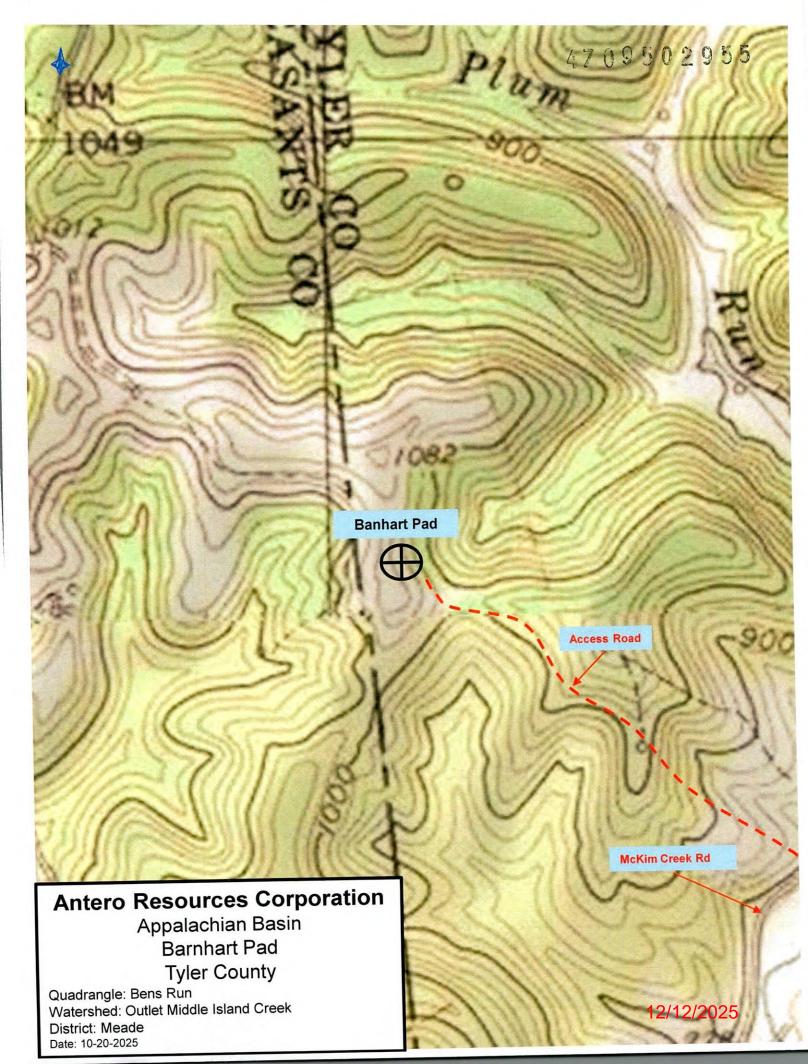
Pad Center - Lat 39.375558 /Long -81.010047 (NAD83)

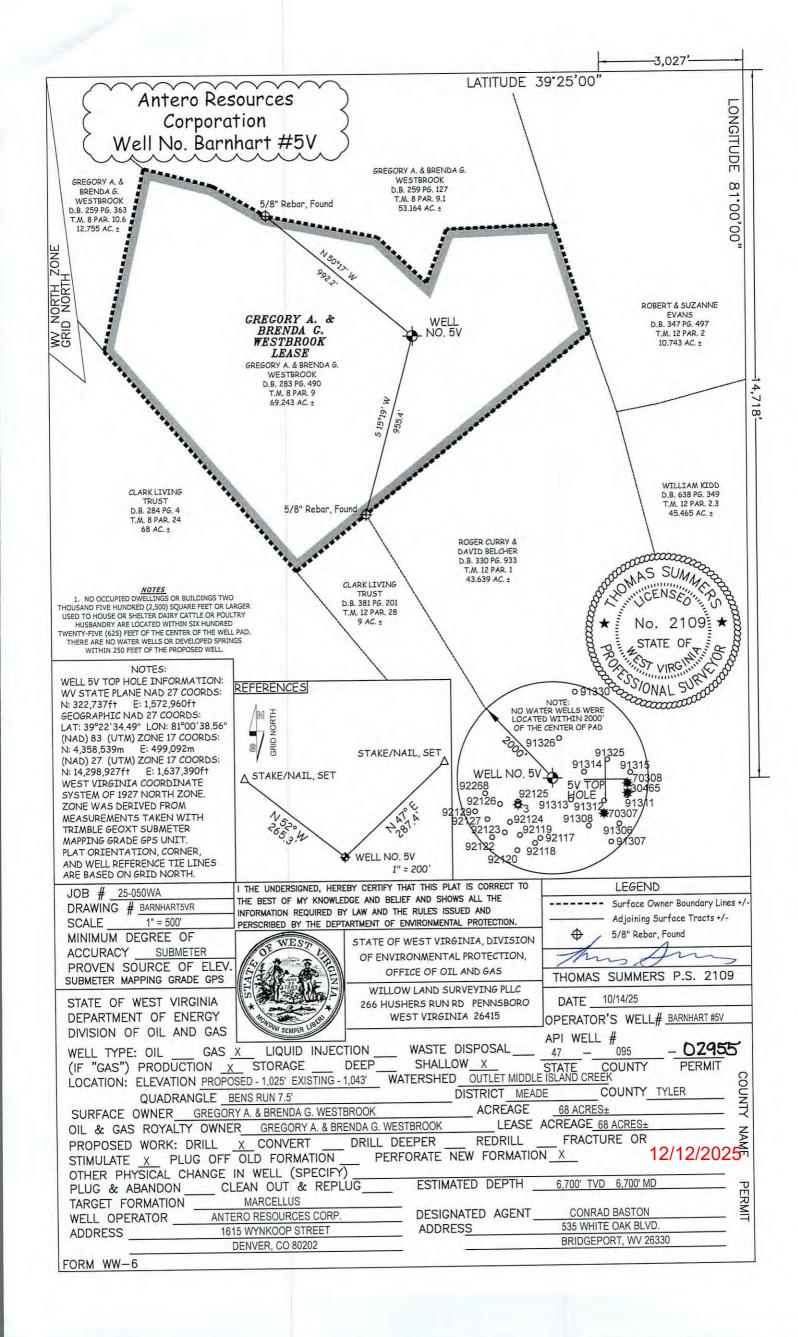
Permitted Driving Directions:

- 1. From US50, turn south onto Smithburg Road (CO-50/22) and travel 0.2 miles.
- 2. Turn right onto Smithton Road (Old RT-50) and continue 3.8 miles.
- 3. Turn right onto WV-18 N and continue 11.4 miles.
- 4. Turn left onto WV-74 and and travel for 6.4 miles.
- 5. Turn right onto Haddox Run Rd (CO-4 & 20/1) and travel for 3.8 miles.
- 6. Turn left onto McKim Creek Rd/Plum Run Rd (CO-20 & 6/5) and travel 2.0 miles. The Barnhart Lease Road is on the right.

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

Stephen Mccoy Date: 2025.11,19 09:13:03-05'00'





WW-6A1 (5/13)

Operator's Well No. Barnhart Unit 5V

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
Gregory A. & Brenda G. Westb	orook Lease			
	Gregory A. & Brenda G. Westbrook	Antero Resources Corporation	1/8+	0380/0009
Partial Assignments to Antero Res	ources Corporation include 100% rights to extract, parts and any other formations completed with this well.	produce and market		

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

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

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:	Tim Rady (Ledy
RECEIVED Office Of Oil and Gas	Its:	Senior Vice President of Land
onioo or on ana oas		

NOV 6 2025

Page 1 of _____

October 30, 2025

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

RE:

Barnhart Unit 5V

Quadrangle: Bens Run 7.5'

tome Book

Tyler County/Meade District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Barnhart Unit 5V horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Barnhart Unit 5V horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Antonia Booth Landman

RECEIVED
Office Of Oil and Gas

9 2025

WV Department of Environmental Protection

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

Date of Notic	e Certification: 11/04/2025	API No. 47-	095 -	
		Operator's V	Well No. Bamha	art Unit 5V
		Well Pad Na	ame: Barnhart I	Pad
Notice has b	een given:			
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provided the requ	ired parties wi	ith the Notice Forms listed
below for the	tract of land as follows:			
State:	West Virginia	LITMANAD 92 Editing	499092m	
County:	Tyler	Nortning:	4358539m	
District:	Meade	Tublic Road Treeess.	McKim Creek Rd	V & Market
Quadrangle:	Bens Run 7.5'	Generally used farm name:	Gregory A. & Bren	da G. Westbrook
Watershed:	Outlet Middle Island Creek			
it has provide information reof giving the requirements Virginia Cod	ed the owners of the surface describe equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of	nall contain the following information: (14) and in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the requivey pursuant to subsection (a), section to find this article were waived in writing by the tender proof of and certify to the secretary to t	ection (b), section (b), section was en of this article ow the surface ow	deemed satisfied as a result ele six-a; or (iii) the notice ener; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	erator has attached proof to this Notice Ce d parties with the following:	ertification	OOG OFFICE USE ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT	ISE NO TED	RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	/EY or <a> NO PLAT SURVEY WAS CO	ONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	Office Of Oil and Gas		RECEIVED
■ 5. PU	BLIC NOTICE	NOV 6 2025		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			d the notice requirements within West Virginia Code § 22-
6A. I certify tha	at as required under West Vi	rginia Code § 22-6A, I have	served the attached copies of the Notice Forms, identified
above, to the re	quired parties through perso	nal service, by registered ma	il or by any method of delivery that requires a receipt or
signature confirm	mation. I certify under penalt	ty of law that I have personally	y examined and am familiar with the information submitted
in this Notice (Certification and all attachn	nents, and that based on my	inquiry of those individuals immediately responsible for
obtaining the in:	formation, I believe that the i	information is true, accurate a	nd complete. I am aware that there are significant penalties
		e possibility of fine and impris	
Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street
By:	Jon McEvers JOW	Movers	Denver, CO 80202
Its:	SVP of Operations	Facsimile	: 303-357-7315
Telephone:	303-357-7310	Email:	sgaspar@anteroresources.com
C. Contraction of the Contractio			
		0.1.7.1.1	worn before me this 5th day of November, 2025
	NOTARY SEAL	Subscribed and sv	vom before me tills day of November e
	STEFAN GASPAR	SLOL	-an GasparNotary Public
8	NO TART PUBLIC	3161	Notary 1 done
8		6 8	Expires November 15th, 2026
MY COM	MISSION EXPIRES NOVEMBER 15, 2020	My Commission	Expires / Ost 5 : 05
10000000	A PART OF A PART		

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.

NOV 6 2025

WV Department of Environmental Protection

WW-6A (9-13) 4709502955

OPERATOR WELL NO. Barnhart Unit 5V

Well Pad Name: Barnhart Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE OF APPLICATION}}{\text{NOTICE OF APPLICATION}}$

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 11/5/2025 Date Permit Application Filed: 11/5/2025 Office Of Oil and Gas Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE ✓ PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK WV Department of Environmental Protection Delivery method pursuant to West Virginia Code § 22-6A-10(b) ✓ METHOD OF DELIVERY THAT REQUIRES A REGISTERED PERSONAL RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Roger Curry & David Belcher Address: Address: PO Box 63 Whitman, WV 25652 COAL OPERATOR Name: Gregory A. & Brenda G. Westbrook Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: 338 Coyote Rd Address: Ellenboro, WV 26346 □ SURFACE OWNER(s) (Road and/or Other Disturbance) ☐ SURFACE OWNER OF WATER WELL Name: AND/OR WATER PURVEYOR(s) Address: Name: NONE WITHIN 1500' Address: Name: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

WW-6A (8-13)

API NO. 47-095

OPERATOR WELL NO. Barnhart Unit 5V

Well Pad Name: Bamhart 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/oiland-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. Barnhart Unit 5V

Well Pad Name: Bamhart 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

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

WW-6A (8-13)

OPERATOR WELL NO. Barnhart Unit 5V

Well Pad Name: Bamhart 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

- (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 API NO. 47-095 OPERATOR WELL NO. Barnhart Unit 5V (8-13)Well Pad Name: Barnhart Pad 4709502955 Notice is hereby given by: 1615 Wynkoop Street Well Operator: Antero Resources Corporation Denver, CO 80202 (303) 357-7310 Telephone: Facsimile: 303-357-7315

Oil and Gas Privacy Notice;

Email:

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

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

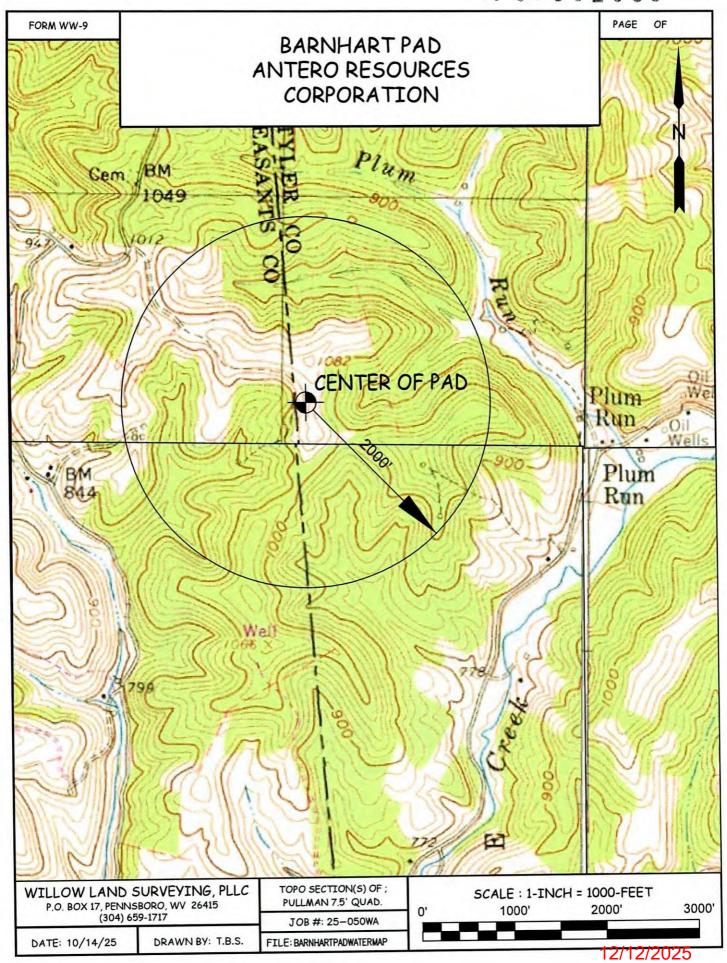
sgaspar@anteroresources.com

Subscribed and sworn before me this 5th day of November 2025.

Stefan Gaspar November 15th, 2026

6 2025

WV Department of Environmental Protection



4709502955

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:	10/16/2025	provided at least TEN (10) days prior to filing a pate Permit Application Filed: 11/05/2025	CEVISOER See the (10 10 coil)
Deliver	y metho	od pursuant to West Virgin	ia Code § 22-6A-16(b)	NOV 6 2025
□ HA	AND	■ CERTIFIED N	MAIL	WV Department of
	ELIVER		CEIPT REQUESTED	Environmental Protection
receipt in drilling of this subsection and if an Notice	requeste a horizo subsection ion may vailable is here	ed or hand delivery, give the contal well: <i>Provided</i> , That is on as of the date the notice we be waived in writing by the interest of the facsimile number and elect the provided to the SUR	least ten days prior to filing a permit application, surface owner notice of its intent to enter upon the notice given pursuant to subsection (a), section tervas provided to the surface owner: <i>Provided</i> , how surface owner. The notice, if required, shall inclured mail address of the operator and the operator	ne surface owner's land for the purpose of on of this article satisfies the requirements of this article satisfies the requirements of this ude the name, address, telephone number r's authorized representative.
Name:	Roger Curr	y & David Belcher	Name: Gregory A. & Brenda	G. Westbrook
	S: PO Box		Address: 338 Coyote Road Ellenboro, WV 26346	
Whitman	, WV 2565	2	Elicitorio, 111 Eco 15	
Pursuar the surf	nt to We	ner's land for the purpose of	6(b), notice is hereby given that the undersigned drilling a horizontal well on the tract of land as fo	well operator has an intent to enter upor llows: 499092m
Pursuar the surf State: County District	nt to We	est Virginia Code § 22-6A-1 ner's land for the purpose of West Virginia Tyler Meade	drilling a horizontal well on the tract of land as to UTM NAD 83 Easting: Northing: Public Road Access:	llows:
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

4709502955

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

	ne Requirement: notice shall be providice: 11/05/2025 Date Per	mit Application Filed: 11/05/2025	application. RECEIVED Office Of Oil and Gas
Delivery n	nethod pursuant to West Virginia C	ode § 22-6A-16(c)	NOV 6 2025
	TIFIED MAIL URN RECEIPT REQUESTED	☐ HAND DELIVERY	WV Department of Environmental Protection
return rece the planne required to drilling of damages to (d) The no of notice.	ipt requested or hand delivery, give the doperation. The notice required by be provided by subsection (b), section a horizontal well; and (3) A propose of the surface affected by oil and gas of	er than the date for filing the permit applicate surface owner whose land will be used for this subsection shall include: (1) A copy in ten of this article to a surface owner whose distribution surface use and compensation agreement perations to the extent the damages are comparison to the surface owner at the address list the time of notice):	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 transport compensation for containing an offer of compensation for consable under article six-b of this chapter. Sted in the records of the sheriff at the time
Name: Rog Address: Mitman, Will Notice is I	er Curry & David Belcher PO Box 63 V 25652 Thereby given: Do West Virginia Code & 22-6A-16(c).	Name: Gregory A. & Brenda G Address: 338 Coyote Road Ellenboro, WV 26346 notice is hereby given that the undersigned surpose of drilling a horizontal well on the tra	well operator has developed a planned
Name: Rog Address: I Whitman, W Notice is I Pursuant t operation	er Curry & David Belcher PO Box 63 V 25652 Thereby given: Do West Virginia Code & 22-6A-16(c).	Name: Gregory A. & Brenda G Address: 338 Coyote Road Ellenboro, WV 26346 notice is hereby given that the undersigned surpose of drilling a horizontal well on the tra	well operator has developed a planned act of land as follows:
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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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Michael J. DeMers

Michael J. DeMers

Charleston, West Virginia 25305-0440 • (304) 558-0444

Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E. Secretary of Transportation Commissioner of Highways

November 3, 2025

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 Barnhart Well Pad, Tyler County Barnhart Unit 5V Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2025-9231 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Tyler County Route 6/5 SLS MP 0.663.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

Lacy D. Prott

Ce: Stefan Gaspar

Antero Resources Corporation

OM, D-6 File to the ment of

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 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
4. Anionic copolymer	Proprietary
5. Anionic polymer	Proprietary
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
	14808-60-7
30. Suspending agent (solid)31. Tar bases, quinolone derivs, benzyl chloride-quarternize	
	64742-96-7
32. Solvent Naptha, petroleum, heavy aliph	67784-80-9
33. Soybean Oil, Me ester	52255-49-9
34. Copolymer of Maleic and Acrylic Acid	15827-60-8
35. DETA Phosphonate	
36. Hexamythylene Triamine Penta	34690-00-1 71050-62-9
37. Phosphino Carboxylic acid polymer	
38. Hexamethylene diamine penta	23605-74-5
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9
40. Hexamethylene diamine penta (methylene phosphonic	
41. Diethylene Glycol	111-46-6
42. Methenamine	100-97-0
43. Polyethylene polyamine	68603-67-8
44. Coco amine	61791-14-8
	ECEIVED 38172-91-7 Of Oil and Gas

NOV 6 2025

WW-6A7 (6-12)

OPERATOR:	Antero Resources Corporation	WELL NO: Barr	nhart Unit 5V
PAD NAME:	Barnhart Pad		
REVIEWED I	BY: Stefan Gaspar	_ SIGNATURE: _	S Geyn
	WELL RESTRICTION	ONS CHECKLIS	RECEIVED
	HORIZONTAL	L 6A WELL	Office Of Oil and Gas NOV 6 2025
Well Restri	ctions		WV Department of Environmental Protection
✓	At Least 100 Feet from Pad and LOD (in Perennial Stream, Lake, Pond, Reservoir DEP Waiver and Permit Condition At Least 300 Feet from Pad and LOD (in Pad and LOD)	r or Wetland; OR	
✓	Naturally Producing Trout Stream; OR DEP Waiver and Permit Condition At Least 1000 Feet from Pad and LOD Groundwater Intake or Public Water Su	(including any E&S	Control Feature) to any
\checkmark	DEP Waiver and Permit Condition At Least 250 Feet from an Existing Wat Drilled; OR		ed Spring to Well Being
	Surface Owner Waiver and Reco		Clerk, OR
\checkmark	At Least 625 Feet from an Occupied Dy	welling Structure to	Center of the Pad; OR
	Surface Owner Waiver and Reco	orded with County C	Clerk, OR
	DEP Variance and Permit Cond	itions	
\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR		
	Surface Owner Waiver and Rec	orded with County C	Clerk, OR
	DEP Variance and Permit Cond	itions	