



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

Wednesday, July 1, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for NICE UNIT 1H
47-103-03841-00-00

Lateral Extension

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in black ink, reading 'H. Jason Harmon'.

H. Jason Harmon
Chief

Operator's Well Number: NICE UNIT 1H
Farm Name: RAYMOND J & LINDA S HEILMAN
U.S. WELL NUMBER: 47-103-03841-00-00
Horizontal 6A New Drill
Date Modification Issued: 7-1-2026

Promoting a healthy environment.

07/03/2026

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

1) Well Operator: Antero Resources Corporation 494507062 103 - Wetzel Green Pine Grove
Operator ID County District Quadrangle

2) Operator's Well Number: Nice Unit 1H MOD Well Pad Name: Heilman Pad

3) Farm Name/Surface Owner: Raymond J. and Linda S. Heilman Public Road Access: Ashland Ridge Road

4) Elevation, current ground: 1442' Elevation, proposed post-construction: 1442'

5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7900' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7900' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 30300' MD

11) Proposed Horizontal Leg Length: 18475.5'

12) Approximate Fresh Water Strata Depths: 388'

13) Method to Determine Fresh Water Depths: 47-103-00537

14) Approximate Saltwater Depths: 2071'

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams
directly overlying or adjacent to an active mine? Yes _____ No X

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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#	438'	438'	CTS, 456 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#	30300'	30300'	6707 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			

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Page 2 of 3
Steph Mccoy
Date: 2026.04.21
18:05:17 -04'00'

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

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

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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): 19.62 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.29 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.

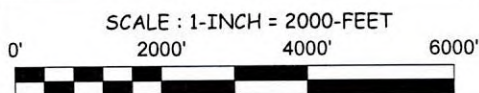
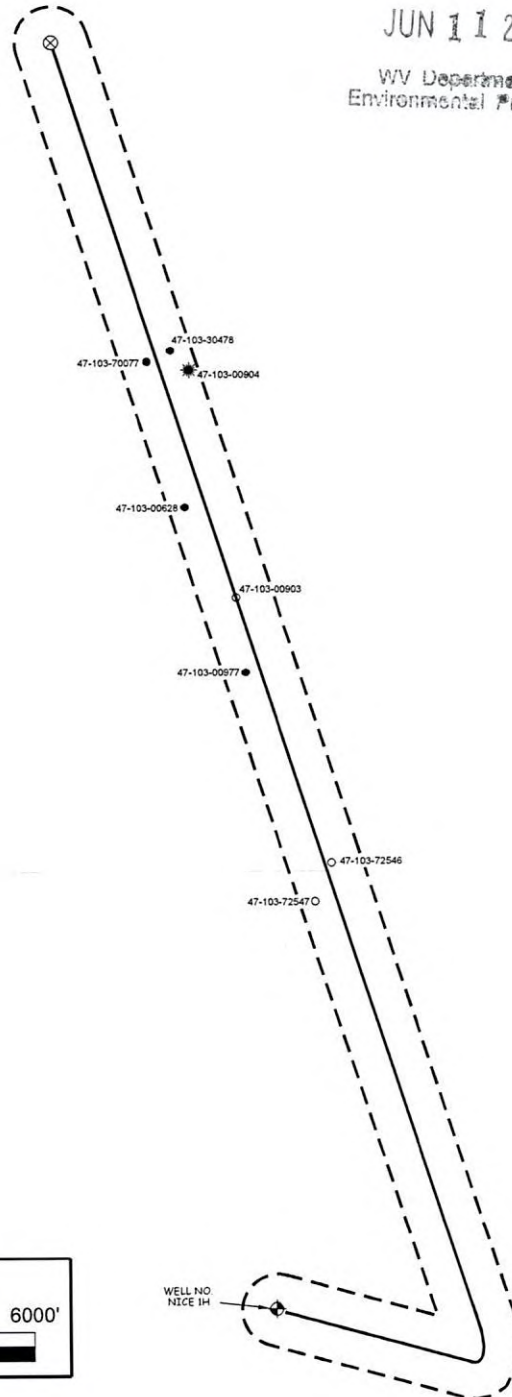
*Note: Attach additional sheets as needed.

HEILMAN PAD
ANTERO RESOURCES
CORPORATION

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Office of Oil and Gas

JUN 11 2026

WV Department of
Environmental Protection



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

JOB #: 25-034WA

DATE: 04/24/26

DRAWN BY: T.B.S.

FILE: NICE1HAOR.DWG

07/03/2026

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4710330478	SAMUEL FURBEE 9	665	UNKNOWN	UNKNOWN	3,197		Gordon	Weir, Benson, Alexander
4710370077	SAMUEL & M A FURBEE	2721	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT			Gordon	Weir, Benson, Alexander
4710300904	A R MCHENRY	6	PNNZL COMP	PENNZOIL CO INC	3,092		Gordon	Weir, Benson, Alexander
4710300628	A R MCHENRY ET AL	7	PNNZL COMP	PENNZOIL CO INC	3,150		Gordon	Weir, Benson, Alexander
4710300903	A R MCHENRY	3	PNNZL COMP	PENNZOIL CO INC				
4710300977	J H GAINER	1	PNNZL COMP	PENNZOIL CO INC				
4710372546	D CARPENTER HEIRS	2	UNKNOWN	UNKNOWN				
4710372547	D CARPENTER HEIRS	3	UNKNOWN	UNKNOWN				

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LATITUDE 39°37'30"

5,714'

8,939' TO BOTTOM HOLE

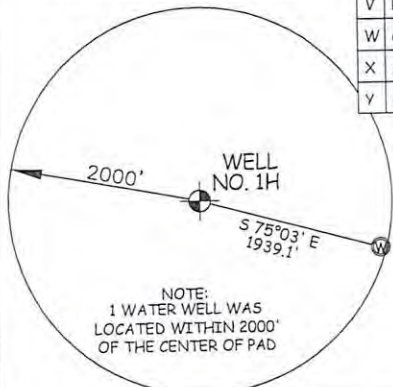
LATITUDE 39°40'00"

Antero Resources
Corporation
Well No. Nice #1H

GRANT DISTRICT - WETZEL COUNTY	
6-1	Dallison Lumber Inc.
CENTER DISTRICT - WETZEL COUNTY	
13-35	Michael Romans
GREEN DISTRICT - WETZEL COUNTY	
4-09	Francina Kinnard
4-52	Raymond & Linda Heilman
4-53	McKimmie Cemetery
4-54	Raymond & Linda Heilman
4-57	David & Jami Morrison
5-1	Harry Palmer Et Al
5-2	Harry Palmer Et Al
5-3	Kevin Warco
5-6	Danny Briggs
5-7	Danny Briggs
5-8	Dallison Lumber Inc.
5-13	Dallison Lumber Inc.
5-14	Dallison Lumber Inc.
5-15	Doris Carpenter
5-15.1	Douglas Anderson
5-16	Terry Long
9-4	Raymond & Linda Heilman
10-1	Dallison Lumber Inc.
10-2	Judy Fryzel, Et Al
10-5	Colerain & Amanda McCordle
PROCTOR DISTRICT - WETZEL COUNTY	
17-26	Harry McAbee Et Al
17-27	WSD Properties
17-28	WSD Properties
17-36	Coastal Forest Resources Co.
18-8	Coastal Forest Resources Co.
18-13	Patrick Norris
18-14	George Furbie Et Al
18-15	Jolene Henderson
18-21	Clark Ingram
18-22	George Furbie Et Al
18-25	Dallison Lumber Inc.
18-26	Paul Barcus III
18-26.1	Susan White
18-27	Donald Postlethwait
20-12	Susan White
20-24	Deloris Longwell
20-25	Deloris Longwell
20-36	Allegheny Forestlands Inc.
20-36.1	Matthew Rice
20-36.4	John Anderson
20-36.9	Allegheny Forestlands Inc.

NOTE

NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



NOTE:
1 WATER WELL WAS
LOCATED WITHIN 2000'
OF THE CENTER OF PAD

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO
WEST VIRGINIA 26415

PAD LAYOUT

- CHEDDAR UNIT 1H
- 15' CHEDDAR UNIT 2H
- 15' RANDY UNIT 1H
- 15' HAGGARD UNIT 1H
- 15' SOLIS UNIT 1H
- 15' NICE UNIT 1H

NOT TO SCALE

LEGEND

- Surface Owner Boundary Lines +/-
- Adjoining Surface Tracts +/-
- Found monument, as noted

Thomas Summers
THOMAS SUMMERS P.S. 2109

DATE 04/20/26

OPERATOR'S WELL# NICE UNIT #1H

47 - 103 - 03841

STATE COUNTY PERMIT

JOB # 25-034WA
DRAWING # NICE1H
SCALE 1" = 2000'
MINIMUM DEGREE OF
ACCURACY SUBMETER
PROVEN SOURCE OF ELEV.
SUBMETER MAPPING GRADE GPS

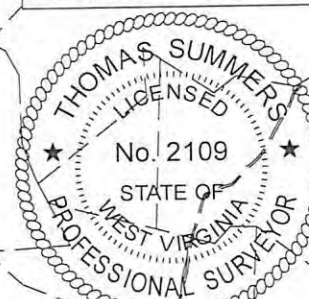
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION PROPOSED - 1,442' WATERSHED FISHING CREEK
QUADRANGLE PINE GROVE 7.5' DISTRICT GREEN COUNTY WETZEL
SURFACE OWNER RAYMOND J. & LINDA S. HEILMAN ACREAGE 96 ACRES +/-
OIL & GAS ROYALTY OWNER RAYMOND J. HEILMAN LEASE ACREAGE 96 ACRES +/-
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___
FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,900' TVD 30,300' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CONRAD BASTON
ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
DENVER, CO 80202 BRIDGEPORT, WV 26330

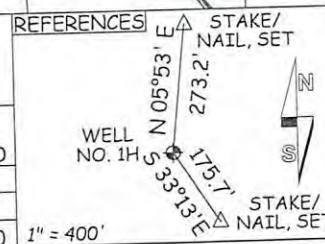
NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 404,952ft E: 1,665,578ft
LAT: 39°36'20.75" LON: 80°41'13.01"
BOTTOM HOLE INFORMATION:
N: 422,339ft E: 1,662,579ft
LAT: 39°39'12.19" LON: 80°41'54.29"
WEST VIRGINIA COORDINATE
SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM
MEASUREMENTS TAKEN WITH
TRIMBLE GEOXT SUBMETER
MAPPING GRADE GPS UNIT.
PLAT ORIENTATION, CORNER,
AND WELL REFERENCE TIE LINES
ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,384,058m E: 526,891m
BOTTOM HOLE INFORMATION:
N: 4,389,340m E: 525,889m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,382,648ft E: 1,728,592ft
POINT OF ENTRY INFORMATION:
N: 14,382,517ft E: 1,731,326ft
BOTTOM HOLE INFORMATION:
N: 14,399,977ft E: 1,725,304ft



07/03/2026



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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
C: Elizabeth P. Orner Lease	Elizabeth P. Orner Pikewood Energy Corporation SWN Production Company, LLC	Pikewood Energy Corporation SWN Production Company, LLC Antero Resources Corporation	1/8+ Assignment Assignment	261A/801 264A/703 399A/222

RECEIVED Docket/Cause 472-621
Office of Oil and Gas

JUN 11 2026

WV Department of
Environmental Protection

*Cotenancy Utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with 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
Its: Senior Vice President of Land

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
T: Martha Clark Revocable Trust Lease Martha Clark Revocable Trust	Antero Resources Corporation	1/8+	307A/574
U: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC SWN Productions Company, LLC Antero Exchange Properties LLC	SWN Productions Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merge	157A/640 177A/533 13/311
R: BRC Appalachian Minerals I, LLC Lease BRC Appalachian Minerals I, LLC BRC Working Interest Company LLC Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC	BRC Working Interest Company LLC Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8+ Assignment Assignment Assignment Merge	102A/505 103A/470 157A/540 177A/533 9/404
S: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC SWN Productions Company LLC Antero Exchange Properties LLC	SWN Productions Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merge	157A/640 177A/533 13/311
R: BRC Appalachian Minerals I, LLC Lease BRC Appalachian Minerals I, LLC BRC Working Interest Company LLC Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC	BRC Working Interest Company LLC Chesapeake Appalachia, LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8+ Assignment Assignment Assignment Merge	102A/505 103A/470 157A/540 177A/533 9/404
Q: Wilma M. Morris Lease Wilma M. Morris	Antero Resources Corporation	1/8+	301A/826
P: Clay D.C. Dallison and Cody Duane Dallison Lease Clay D.C. Dallison and Cody Duane Dallison	Antero Resources Corporation	1/8+	309A/429
O: Terry L. Long Lease Terry L. Long	Antero Resources Corporation	1/8+	296A/361
L: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC SWN Production Company LLC Antero Exchange Properties LLC	SWN Production Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merge	157A/640 177A/533 13/311
J: John Brent Gamble Lease John Brent Gamble	Antero Resources Corporation	1/8+	312A/521

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
H: A.R. and F.A. McHenry Lease			
A.R. and F.A. McHenry	J.L. Newman	1/8	8A/271
J.L. Newman	Hope Natural Gas	Assignment	8A/346
Hope Natural Gas	Consolidated Gas Supply Corporation	Assignment	233/387
Consolidated Gas Supply Corporation	CNG Development Company	Assignment	67A/453
CNG Development Company	CNG Producing Company	Merge	WVSOS
CNG Producing Company	Dominion Exploration & Production	Merge	WVSOS
Dominion Exploration & Production	Antero Resources Appalachian	Assignment	95A/937
Antero Resources Appalachian	Antero Resources Corporation	Merge	121/8
G: Barbara Wojcik Lease			
Barbara Wojcik	SWN Production Company, LLC	1/8+	281A/501
SWN Production Company, LLC	Antero Resources Corporation	Assignment	399A/222
F: John Aaron Lusk Lease			
John Aaron Lusk	SWN Production Company LLC	1/8+	344A/934
SWN Production Company LLC	Antero Resources Corporation	Assignment	399A/222

Docket/Cause 472-621

*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.

***Cotenancy Utilization** - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with 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

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WV Department of
Environmental Protection



June 10th, 2026

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Mr. Taylor Brewer
601 57th Street
Charleston, WV 25304

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

4051843
5/28/26
\$ 7500.00 JTB

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modification for an approved well on the Heilman Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Nice Unit 1H well.

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the revised MD and Production Casing/Cement program
- REVISED Form WW-6A1, which shows the leases we will be drilling into
- REVISED Mylar Plat, which shows the new bottom hole location
 - **Please note:** Nice Unit 1H modification Mylar Plat has previously been mailed to the Office of Oil and Gas on May 28th, 2026.

If you have any questions please feel free to contact me at (303) 357-7373.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to be "CW" or "Carly Wren", written in a cursive style.

Carly Wren
Permitting Agent
Antero Resources Corporation

Enclosures

07/03/2026