



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

Monday, February 3, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for VILLERS UNIT 1H
47-085-10538-00-00

Extended Lateral Length

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 blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: VILLERS UNIT 1H
Farm Name: RICHARD E. BLOUIR ET UX
U.S. WELL NUMBER: 47-085-10538-00-00
Horizontal 6A New Drill
Date Modification Issued: 2/3/2025

Promoting a healthy environment.

02/07/2025

WW-6B
(04/15)

API NO. 47-085 - 10538
OPERATOR WELL NO. Villers Unit 1H MOD
Well Pad Name: Husher Pad

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

1) Well Operator: Antero Resources Corporation 494507062 085 - Ritchie Clay Ellenboro 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Villers Unit 1H MOD Well Pad Name: Husher Pad

3) Farm Name/Surface Owner: Richard E. Blouir et ux Public Road Access: Lamberton Rd

4) Elevation, current ground: 1,007' Elevation, proposed post-construction: _____

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

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 21100' MD

11) Proposed Horizontal Leg Length: 9431' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 147', 406'

13) Method to Determine Fresh Water Depths: 47085015510000, 47085088820000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1654'

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

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

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(a) If Yes, provide Mine Info: Name: _____ FEB 03 2025

Depth: _____

Seam: _____

Owner: _____

WV Department of
Environmental Protection

1-30-25

WW-6B
(04/15)

API NO. 47-085 - 10538
 OPERATOR WELL NO. Villers Unit 1H MOD
 Well Pad Name: Husher 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	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	456'	456'	CTS, 475 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	6200'	6200'	CTS, 2524 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	21100'	21100'	CTS, 4389 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"	0.375"	2250	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"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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Kind:	N/A			FEB 03 2025
Sizes:	N/A			WV Department of Environmental Protection
Depths Set:	N/A			

Jeremy Platt
1-31-25

WW-6B
(10/14)

API NO. 47- 085 - 10538
OPERATOR WELL NO. Villers Unit 1H MOD
Well Pad Name: Husher 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): 20.13 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.66 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.

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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 G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

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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.

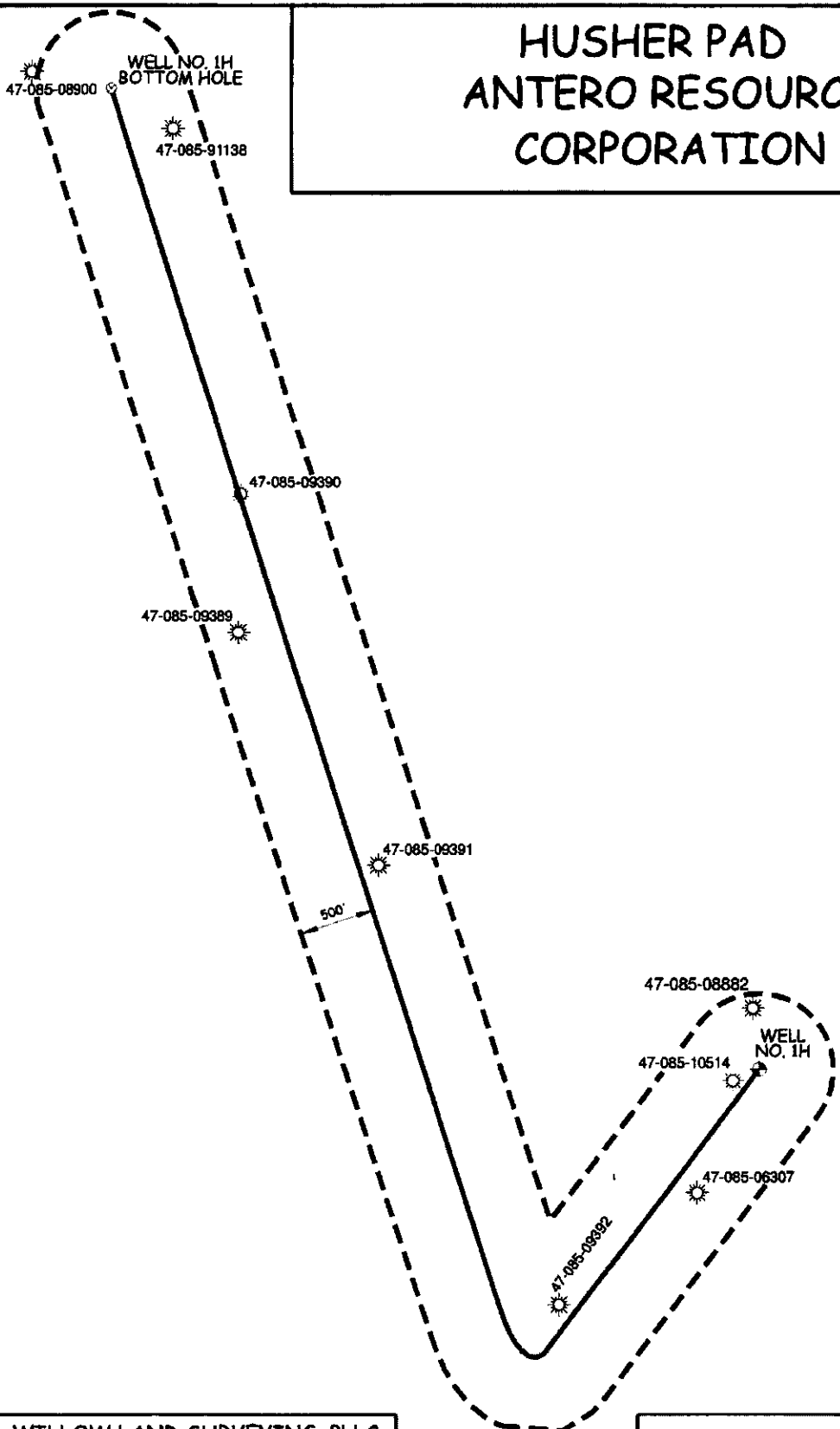
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls 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
1-31-25

02/07/2025

HUSHER PAD ANTERO RESOURCES CORPORATION



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

DATE: 11/12/24

DRAWN BY: D.L.P.

JOB #: 24-005WA

FILE: VILLERS1HAOR.DWG

SCALE: 1-INCH = 1000-FEET



02/07/2025

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085088820000	HAYHURST	1	ANJA RESOURCES	ANJA RESOURCES	3,072	1210 - 2879	Salt Sands, Big Injun, Tiona	Weir, Benson, Alexander
47085105140000								
47085063070000	BLOUIR R E & M L	3	MUTSCHELKNAUS CLARENCE W	JENKINS ENERGY	5,815	4632 - 5704	Big Injun, Riley, Benson, Rhinestreet	Weir, Alexander
47085093920000	STRICKLER	1	RITCHIE PETROLEUM CORP INC	JAY-BEE OIL & GAS	3,419	2180 - 3302	Gordon, Warren	Weir, Benson, Alexander
47085093910000	STRICKLER	2	RITCHIE PETROLEUM CORP INC	JAY-BEE OIL & GAS	3,353		Big Injun, Berea, Warren	Weir, Benson, Alexander
47085093890000	STRICKLER	4	JAY-BEE OIL & GAS	JAY-BEE OIL & GAS				
47085093900000	STRICKLER	3	JAY-BEE OIL & GAS	JAY-BEE OIL & GAS				
47085911380000								
47085089000000	PACKMAN MORRIS JR	3	MACFARLAN OIL & GAS	MACFARLAN OIL & GAS	2,770	1786 - 2696	Big Injun, Fifth	Weir, Benson, Alexander

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LATITUDE 39°17'30"

6,007'

10,431' TO BOTTOM HOLE

LATITUDE 39°20'00"

LONGITUDE 81°00'00"

10,489' TO BOTTOM HOLE

LONGITUDE 81°00'00"

COUNTY NAME PERMIT

Antero Resources Corporation
Well No. Villers Unit 1H

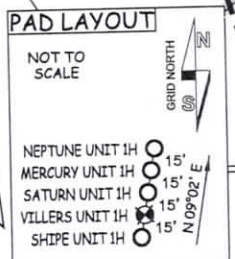
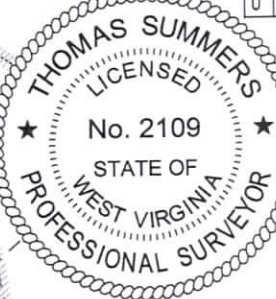
NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 290,249ft E: 1,569,438ft
LAT: 39°17'12.82" LON: 81°01'16.39"
BOTTOM HOLE INFORMATION:
1H TOP HOLE
N: 296,747ft E: 1,565,121ft
LAT: 39°18'16.32" LON: 81°02'12.70"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,348,623m E: 498,184m
BOTTOM HOLE INFORMATION:
N: 4,350,581m E: 496,836m

LEASES	
A	ROSE ALKIRE, ET AL
B1	M.B. LEASBURGE, ET UX
B2	M.B. LEASBURGE, ET UX
B3	M.B. LEASBURGE, ET UX
C	C.B. MORRIS AND S.A. SMITH IRREVOCABLE LIVING TRUST
D1	BLACK GOLD GROUP, LTD
D2	BLACK GOLD GROUP, LTD
E	FREDERICK R. HAYHURST, ET AL
F	ALFRED A. LAMBERT
G1	TOM G. STRICKLER, JR., ET UX
G2	TOM G. STRICKLER, JR., ET UX
G3	TOM G. STRICKLER, JR., ET UX
G4	TOM G. STRICKLER, JR., ET UX
G5	TOM G. STRICKLER, JR., ET UX
H1	F. ROBERT HAYHURST FAMILY TRUST
H2	F. ROBERT HAYHURST FAMILY TRUST
H3	F. ROBERT HAYHURST FAMILY TRUST
I	MICHAEL P. SHEARER & NELLIE H. SHEARER
J	WEST VIRGINIA DIVISION OF MULTIMODEL TRANSPORTATION FACILITIES
K	FRANKLIN OWENS AND ANNIE I. OWENS
L	L VIRGINIA L. CONNORS
M	AGNES L. ROGERS
N	AGNES L. ROGERS
P	CLARENCE J. MCCULLOUGH, ET UX
Q	F. ROBERT HAYHURST FAMILY TRUST
Q	CLARENCE J. MCCULLOUGH, ET UX
R	TOM G. STRICKLER, JR., ET UX
S	RICHARD BLOUIR, ET AL
T	KIMBERLY BARNES
U	NANCY LOUISE VAUGHN

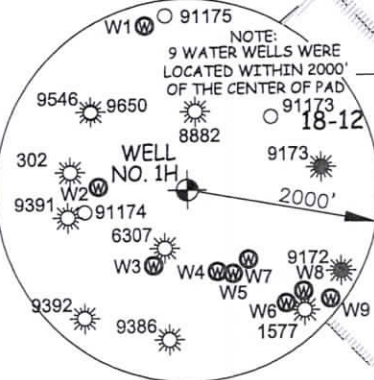
(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,266,396ft E: 1,634,412ft
POINT OF ENTRY INFORMATION:
N: 14,263,920ft E: 1,632,104ft
BOTTOM HOLE INFORMATION:
N: 14,272,819ft E: 1,629,990ft

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.

CLAY DISTRICT - RITCHIE COUNTY	
11-42.1	JUDITH PACKMAN
18-04	DAVID VILLERS
18-4.1	DAVID VILLERS
18-4.2	ALFRED LAMBERT
18-4.3	DAVID VILLERS
18-4.4	WESLEY EZELL
18-4.5	LEANDRA PARSONS
18-4.6	LEANDRA PARSONS
18-06	DANIEL MARTIN
18-12	ALFRED LAMBERT
18-12.1	ALFRED LAMBERT
18-12.2	NAOMI FREDERKEIL
18-14	RONALD HAYHURST
18-17	DELNO HAYHURST
18-17.1	CAROL SPANGLER
18-18	THOMAS SUMMERS
18-20.2	MICHAEL REED
18-20.3	REGINA WAAS
24-02	KEVIN MINOR
24-03	M P CHURCH HUSHERS RUN
24-3.1	HUSHERS RUN U.M. CHURCH
24-04	DAVID LAWRENCE
24-4.1	ROGER HART
24-05	RICHARD BLOUIR
24-5.2	FREDERICK WANSTREET
24-21	FRANKLIN OWENS
24-22	CHARLES THOMAS
24-22.1	TRIPLE B TRUCKING INC
24-23	CLARENCE MCCULLOUGH
24-23.1	CLARENCE MCCULLOUGH
24-24.1	MATTHEW BLOUIR



WATER WELLS		
W1	S 13°36' E	1772.1'
W2	N 87°26' W	929.2'
W3	S 24°40' W	864.4'
W4	S 19°28' E	906.8'
W5	S 27°55' E	993.1'
W6	S 40°30' E	1566.5'
W7	N 40°45' W	960.8'
W8	S 48°22' E	1604.4'
W9	S 52°09' E	1872.9'



JOB # 23-010WA
DRAWING # VILLERS1HR2
SCALE 1" = 1000'
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

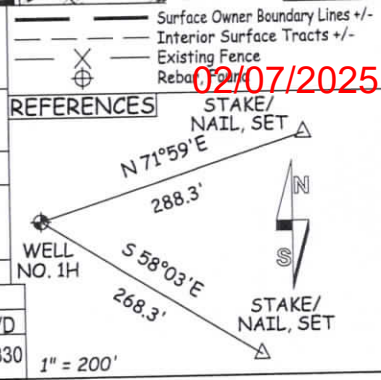
THOMAS SUMMERS P.S. 2109
DATE 01/07/25
OPERATOR'S WELL# VILLERS UNIT #1H
API WELL # 47 - 085 - 10538
STATE COUNTY PERMIT

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 AVENUE PENNSBORO WEST VIRGINIA 26415

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION PROPOSED - 1,007' WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE ELLENBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
SURFACE OWNER RICHARD E. BLOUIR ET UX ACREAGE 53.682 ACRES +/-
OIL & GAS ROYALTY OWNER AGNES L. ROGERS LEASE ACREAGE 57 ACRES +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER X REDRILL FRACTURE OR STIMULATE X
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BACKBUILD PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,600' TVD 21,100' MD
WELL OPERATOR ANTERO RESOURCES CORPORATION DESIGNATED AGENT KEVIN ELLIS
ADDRESS 1615 WYNKOOP STREET ADDRESS 535 WHITE OAKS BLVD
FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330



**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
A: Rose Alkire, Et Al Lease				
	Rose Alkire, Et Al Walter C. Alkire The Walter C. Alkire, Jr. Family Trust	Walter C. Alkire The Walter C. Alkire, Jr. Family Trust Antero Resources Corporation	1/8 Agreement	0143/0521 0313/0400 0289/0050

*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.

*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

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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
<u>M: Agnes L. Rogers Lease</u>			
Agnes L. Rogers	Jenkins Energy Corporation	1/8	0204/0778
Jenkins Energy Corporation	Clarence W. Mutschelknaus	Assignment	0273/0692
Clarence W. Mutschelknaus	Antero Resources Corporation	Assignment	0274/1002
<u>S: Richard Blouir Et Al Lease</u>			
Richard Blouir Et Al	Antero Resources Corporation	1/8+	0299/0762
<u>R: Tom G. Strickler, Jr., Et Ux Lease</u>			
Tom G. Strickler, Jr., Et Ux	Palmer Hill	1/8	0119/0405
Palmer Hill	Clyde Kelly	Assignment	0130/0048
Clyde Kelly	Ira M. Jones & Clyde Kelly	Assignment	0131/0224
Ira M. Jones & Clyde Kelly	R.L. Zickefoose & W.F. Zickefoose	Assignment	0201/0659
R.L. Zickefoose & W.F. Zickefoose	Antero Resources Corporation	Assignment	0294/0971
<u>J: West Virginia Division of Multimodal Transportation Facilities Lease</u>			
West Virginia Division of Multimodal Transportation Facilities	Antero Resources Corporation		0336/0335
<u>G2: Tom G. Strickler, Jr., Et Ux Lease</u>			
Tom G. Strickler, Jr., Et Ux	Palmer Hill	1/8	0119/0405
Palmer Hill	Clyde Kelly	Assignment	0130/0048
Clyde Kelly	Ira M. Jones & Clyde Kelly	Assignment	0131/0224
Ira M. Jones & Clyde Kelly	R.L. Zickefoose & W.F. Zickefoose	Assignment	0201/0659
R.L. Zickefoose & W.F. Zickefoose	Antero Resources Corporation	Assignment	0294/0971
<u>T: Kimberly Barnes Lease</u>			
Kimberly Barnes	Antero Resources Corporation	1/8+	0311/0290
<u>G2: Tom G. Strickler, Jr., Et Ux Lease</u>			
Tom G. Strickler, Jr., Et Ux	Palmer Hill	1/8	0119/0405
Palmer Hill	Clyde Kelly	Assignment	0130/0048
Clyde Kelly	Ira M. Jones & Clyde Kelly	Assignment	0131/0224
Ira M. Jones & Clyde Kelly	R.L. Zickefoose & W.F. Zickefoose	Assignment	0201/0659
R.L. Zickefoose & W.F. Zickefoose	Antero Resources Corporation	Assignment	0294/0971
<u>K: Franklin Owens and Annie I. Owens Lease</u>			
Franklin Owens and Annie I. Owens	Antero Resources Corporation	1/8	0336/0413
<u>G2: Tom G. Strickler, Jr., Et Ux Lease</u>			
Tom G. Strickler, Jr., Et Ux	Palmer Hill	1/8	0119/0405
Palmer Hill	Clyde Kelly	Assignment	0130/0048
Clyde Kelly	Ira M. Jones & Clyde Kelly	Assignment	0131/0224
Ira M. Jones & Clyde Kelly	R.L. Zickefoose & W.F. Zickefoose	Assignment	0201/0659
R.L. Zickefoose & W.F. Zickefoose	Antero Resources Corporation	Assignment	0294/0971
<u>J: West Virginia Division of Multimodal Transportation Facilities Lease</u>			
West Virginia Division of Multimodal Transportation Facilities	Antero Resources Corporation	1/8+	0336/0335

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Office of Oil and Gas

FEB 03 2025

WV Department of
Environmental Protection

02/07/2025 0336/0335

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>G1: Tom G. Strickler, Jr., Et Ux Lease</u>			
Tom G. Strickler, Jr., Et Ux	Palmer Hill	1/8	0119/0405
Palmer Hill	Clyde Kelly	Assignment	0130/0048
Clyde Kelly	Ira M. Jones & Clyde Kelly	Assignment	0131/0224
Ira M. Jones & Clyde Kelly	R.L. Zickefoose & W.F. Zickefoose	Assignment	0201/0659
R.L. Zickefoose & W.F. Zickefoose	Antero Resources Corporation	Assignment	0294/0971
<u>I: Michael P. Shearer & Nellie H. Shearer Lease</u>			
Michael P. Shearer & Nellie H. Shearer	Palmer Hill	1/8	0116/0606
Palmer Hill	William H. Snider	Assignment	0025/0709
William H. Snider	Ritchie Petroleum Corporation	Assignment	0220/0164
Ritchie Petroleum Corporation	Petroedge Resources (WV), LLC	Assignment	0245/0150
Petroedge Resources (WV), LLC	Quest Eastern Resource, LLC	Name Change	0008/0309
Quest Eastern Resource, LLC	Quest Cherokee LLC	Assignment	0248/0352
Quest Cherokee LLC	PostRock MidContinent Production, LLC	Merger	0006/0572
PostRock MidContinent Production, LLC	PostRock Eastern Production, LLC	Assignment	0254/0553
PostRock Eastern Production, LLC	Antero Resources Corporation	Assignment	0290/0932
<u>G1: Tom G. Strickler, Jr., Et Ux Lease</u>			
Tom G. Strickler, Jr., Et Ux	Palmer Hill	1/8	0119/0405
Palmer Hill	Clyde Kelly	Assignment	0130/0048
Clyde Kelly	Ira M. Jones & Clyde Kelly	Assignment	0131/0224
Ira M. Jones & Clyde Kelly	R.L. Zickefoose & W.F. Zickefoose	Assignment	0201/0659
R.L. Zickefoose & W.F. Zickefoose	Antero Resources Corporation	Assignment	0294/0971
<u>E: Frederick R. Hayhurst, Et Al Lease</u>			
Frederick R. Hayhurst, Et Al	Clarence W. Mutschelknaus	1/8	0232/0828
Clarence W. Mutschelknaus	Antero Resources Corporation	Assignment	0307/0486
<u>B1: M.B. Leasburge, Et Ux Lease</u>			
M.B. Leasburge, Et Ux	A.C. Mercer	1/8	0080/0261
A.C. Mercer	Florizel Woodford	Assignment	0080/0267
Florizel Woodford	Rich Oil & Gas Company	Assignment	0081/0236
Rich Oil & Gas Company	W.H. Mossor	Assignment	0098/0256
W.H. Mossor	J&J Enterprises, Inc.	Assignment	0133/0004
J&J Enterprises, Inc.	Term Energy Corporation	Assignment	0172/0336
Term Energy Corporation	Antero Resources Corporation	Assignment	0283/0595
<u>B3: M.B. Leasburge, Et Ux Lease</u>			
M.B. Leasburge, Et Ux	A.C. Mercer	1/8	0080/0261
A.C. Mercer	Florizel Woodford	Assignment	0080/0267
Florizel Woodford	Rich Oil & Gas Company	Assignment	0081/0236
Rich Oil & Gas Company	W.H. Mossor	Assignment	0098/0256
W.H. Mossor	J&J Enterprises, Inc.	Assignment	0133/0004
J&J Enterprises, Inc.	Term Energy Corporation	Assignment	0172/0336
Term Energy Corporation	Antero Resources Corporation	Assignment	0283/0595

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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 –

- (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
B1: M.B. Leasburge, Et Ux Lease			
M.B. Leasburge, Et Ux	A.C. Mercer	1/8	0080/0261
A.C. Mercer	Florizel Woodford	Assignment	0080/0267
Florizel Woodford	Rich Oil & Gas Company	Assignment	0081/0236
Rich Oil & Gas Company	W.H. Mossor	Assignment	0098/0256
W.H. Mossor	J&J Enterprises, Inc.	Assignment	0133/0004
J&J Enterprises, Inc.	Term Energy Corporation	Assignment	0172/0336
Term Energy Corporation	Antero Resources Corporation	Assignment	0283/0595

*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.

*Co-tenancy 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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