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

Thursday, May 21, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Joran Unit 1H
47-017-07008-00-00

Extended Lateral

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.

H. Jason Harmon
Chief

Operator's Well Number:	Joran Unit 1H
Farm Name:	Todd Devericks ET al
U.S. WELL NUMBER:	47-017-07008-00-00
Horizontal 6A	New Drill
Date Modification Issued:	5-21-2026

05/22/2026

WW-6B
(04/15)

API NO. 47- 017 - 07008
OPERATOR WELL NO. Joran Unit 1H MOD
Well Pad Name: Wagner B Pad

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

1) Well Operator: Antero Resources Corporat | 494507062 | 017-Doddrid | Greenbri | Big Isaac
Operator ID | County | District | Quadrangle

2) Operator's Well Number: Joran Unit 1H MOD Well Pad Name: Wagner B Pad

3) Farm Name/Surface Owner: Todd Devericks, et al Public Road Access: Hunters Fork

4) Elevation, current ground: 1311' Elevation, proposed post-construction: 1311'

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: 7800' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7800' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 27500' MD

11) Proposed Horizontal Leg Length: 16447.4'

12) Approximate Fresh Water Strata Depths: 49'

13) Method to Determine Fresh Water Depths: 47-017-06422

14) Approximate Saltwater Depths: 1692'

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 X

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

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05/22/2026

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#	300'	300'	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3200'	3200'	CTS, 1303 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	27500'	27500'	6002 Cu. Ft
Tubing	2-3/8"	New	P-110	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							

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PACKERS

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

05/22/2026

WW-6B
(10/14)

API NO. 47- 017 - 07008
OPERATOR WELL NO. Joran Unit 1H MOD
Well Pad Name: Wagner B Pad

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): 17.49 acres

22) Area to be disturbed for well pad only, less access road (acres): 11.27 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.

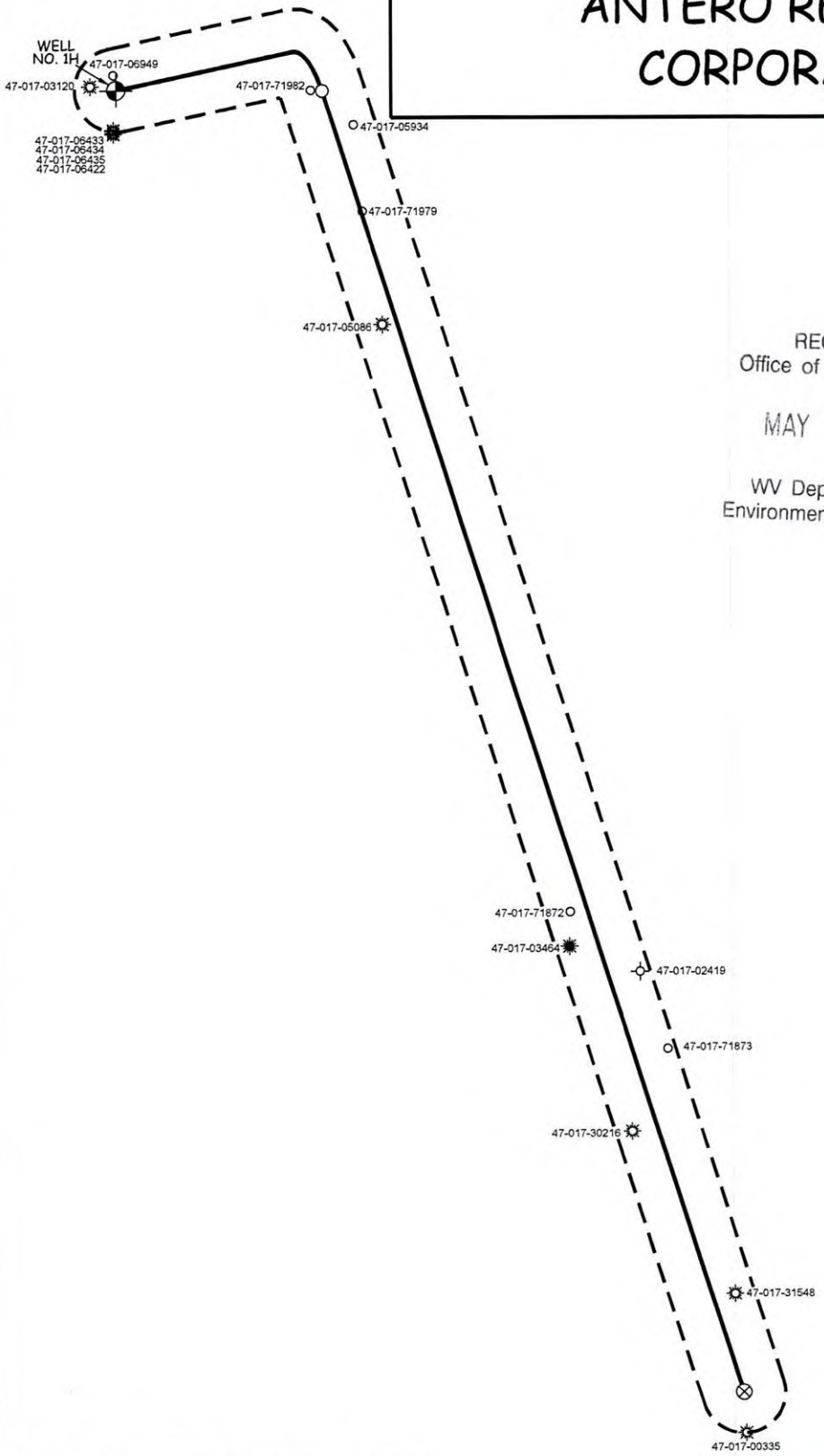
05/22/2026
Sherman King

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4701706949	WAGNER B	5V	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
4701706433	DOWNS UNIT	1H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	16,983	7472 - 16893	Marcellus	
4701706434	DOWNS UNIT	2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	17,820	7692 - 17728	Marcellus	
4701706435	LETTIE UNIT	2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	17,792	7579 - 17668	Marcellus	
4701706422	LETTIE UNIT	1H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	18,308	7750 - 18181	Marcellus	
4701703120	MCCLAIN FRANKIE R	1	DIVERSIFIED PRODUCTION LLC	STONEWALL GAS	5,740	5232 - 5579	Benson	Weir, Alexander
4701703564	MASON T	1	STONEWALL GAS	STONEWALL GAS				
4701703608	HICKMAN L E	1	DIVERSIFIED PRODUCTION LLC	SCOTT OIL CO	5,391	4872 - 5250	Benson	Weir, Alexander
4701770982								
4701705934	HERRON DANIEL L	32287	DOMINION EXPL&PROD	DOMINION EXPL&PROD				
4701771979	W W FREEMAN	3144	HOPE NATURAL GAS	HOPE NATURAL GAS				
4701705086	SWISHER	1	JAY-BEE OIL & GAS INC	JAY-BEE OIL & GAS INC	5,473	5348 - 5356	Benson	Weir, Alexander
4701771872	GUM & MAXWELL	5136	HOPE NATURAL GAS	HOPE NATURAL GAS				
4701703464	BURNSIDE FRANK	1	HYDROCRBEX	HYDROCARBON EXPL INC	5,710	3450 - 5612	Speechley, Balltown, Benson, Elk	Weir, Benson, Alexander
4701702419	BURNSIDE C A	3149	UNKNOWN	UNKNOWN				
4701771873	DON NUTTER	3934	HOPE NATURAL GAS	HOPE NATURAL GAS				
4701730216	ARZA DOAK	1268	HOPE CONSTR & REFG	HOPE CONSTR & REFG	2,155		Big Injun	Weir, Benson, Alexander
4701731548								
4701700335	LOTTIE OSBOURNE	1	DRILLING APPALACHIAN	OSBOURN OIL & GAS	1,866		Big Injun	Weir, Benson, Alexander

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4051225 4/28/26 $7,500.00

WAGNER B PAD
ANTERO RESOURCES CORPORATION



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MAY 7 2026
WV Department of
Environmental Protection

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

JOB #: 25-023WA

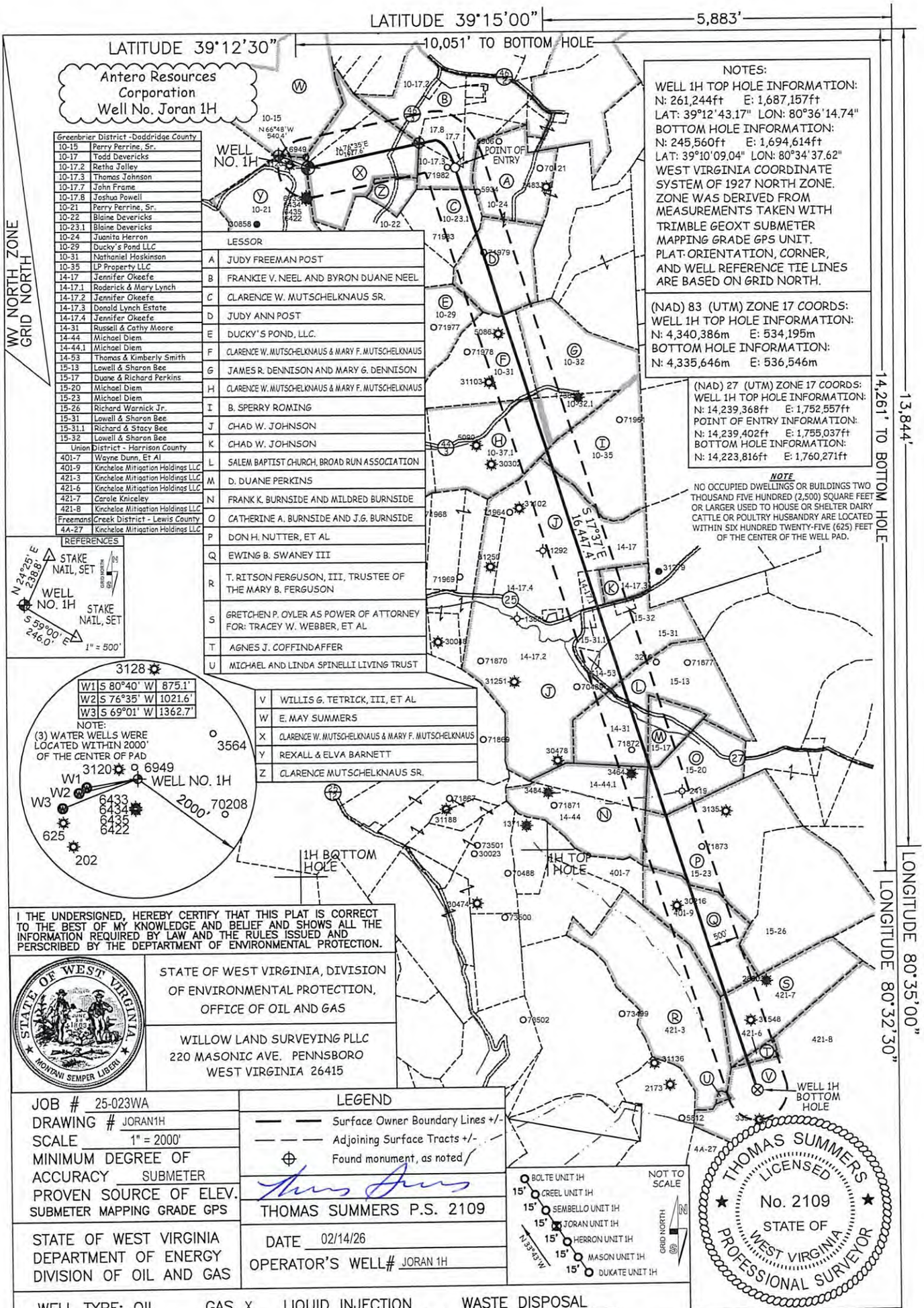
DATE: 03/05/26 | DRAWN BY: T.B.S.

FILE: JORAN1HAOR.DWG

SCALE : 1-INCH = 2000-FEET

0' 2000' 4000' 6000'

05/22/2026



Greenbrier District - Doddridge County	
10-15	Perry Perrine, Sr.
10-17	Todd Devericks
10-17.2	Retha Jolley
10-17.3	Thomas Johnson
10-17.7	John Frame
10-17.8	Joshua Powell
10-21	Perry Perrine, Sr.
10-22	Blaine Devericks
10-23.1	Blaine Devericks
10-24	Juanita Herron
10-29	Ducky's Pond LLC
10-31	Nathaniel Hoskinson
10-35	LP Property LLC
14-17	Jennifer Okeefe
14-17.1	Roderick & Mary Lynch
14-17.2	Jennifer Okeefe
14-17.3	Donald Lynch Estate
14-17.4	Jennifer Okeefe
14-31	Russell & Cathy Moore
14-44	Michael Diem
14-44.1	Michael Diem
14-53	Thomas & Kimberly Smith
15-13	Lowell & Sharon Bee
15-17	Duane & Richard Perkins
15-20	Michael Diem
15-23	Michael Diem
15-26	Richard Warnick Jr.
15-31	Lowell & Sharon Bee
15-31.1	Richard & Stacy Bee
15-32	Lowell & Sharon Bee
Union	District - Harrison County
401-7	Wayne Dunn, Et Al
401-9	Kincheloe Mitigation Holdings LLC
421-3	Kincheloe Mitigation Holdings LLC
421-6	Kincheloe Mitigation Holdings LLC
421-7	Carole Kniceley
421-8	Kincheloe Mitigation Holdings LLC
Freemans	Creek District - Lewis County
4A-27	Kincheloe Mitigation Holdings LLC

	LESSOR
A	JUDY FREEMAN POST
B	FRANKIE V. NEEL AND BYRON DUANE NEEL
C	CLARENCE W. MUTSCHELKNAUS SR.
D	JUDY ANN POST
E	DUCKY'S POND, LLC.
F	CLARENCE W. MUTSCHELKNAUS & MARY F. MUTSCHELKNAUS
G	JAMES R. DENNISON AND MARY G. DENNISON
H	CLARENCE W. MUTSCHELKNAUS & MARY F. MUTSCHELKNAUS
I	B. SPERRY ROMING
J	CHAD W. JOHNSON
K	CHAD W. JOHNSON
L	SALEM BAPTIST CHURCH, BROAD RUN ASSOCIATION
M	D. DUANE PERKINS
N	FRANK K. BURNSIDE AND MILDRED BURNSIDE
O	CATHERINE A. BURNSIDE AND J.G. BURNSIDE
P	DON H. NUTTER, ET AL
Q	EWING B. SWANEY III
R	T. RITSON FERGUSON, III, TRUSTEE OF THE MARY B. FERGUSON
S	GRETCHEN P. OYLER AS POWER OF ATTORNEY FOR: TRACEY W. WEBBER, ET AL
T	AGNES J. COFFINDAFFER
U	MICHAEL AND LINDA SPINELLI LIVING TRUST
V	WILLIS G. TETRICK, III, ET AL
W	E. MAY SUMMERS
X	CLARENCE W. MUTSCHELKNAUS & MARY F. MUTSCHELKNAUS
Y	REXALL & ELVA BARNETT
Z	CLARENCE MUTSCHELKNAUS SR.

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 261,244ft E: 1,687,157ft
LAT: 39°12'43.17" LON: 80°36'14.74"
BOTTOM HOLE INFORMATION:
N: 245,560ft E: 1,694,614ft
LAT: 39°10'09.04" LON: 80°34'37.62"
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: 4,340,386m E: 534,195m
BOTTOM HOLE INFORMATION:
N: 4,335,646m E: 536,546m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,239,368ft E: 1,752,557ft
POINT OF ENTRY INFORMATION:
N: 14,239,402ft E: 1,755,037ft
BOTTOM HOLE INFORMATION:
N: 14,223,816ft E: 1,760,271ft

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.

REFERENCES
STAKE NAIL, SET
WELL NO. 1H
STAKE NAIL, SET

W1	S 80°40' W	875.1'
W2	S 76°35' W	1021.6'
W3	S 69°01' W	1362.7'

NOTE:
(3) WATER WELLS WERE 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 DEPTARTMENT 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

JOB # 25-023WA
DRAWING # JORAN1H
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

THOMAS SUMMERS P.S. 2109

DATE 02/14/26
OPERATOR'S WELL# JORAN 1H

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

BOLTE UNIT 1H
CREEL UNIT 1H
SEMBELLO UNIT 1H
JORAN UNIT 1H
HERRON UNIT 1H
MASON UNIT 1H
DUKATE UNIT 1H
N 33°43' W

THOMAS SUMMERS LICENSED No. 2109 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,311' AS-BUILT WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE BIG ISAAC 7.5' DISTRICT GREENBRIER COUNTY DODDRIDGE
SURFACE OWNER TODD DEVERICKS ET AL ACREAGE 63.75 ACRES +/-
OIL & GAS ROYALTY OWNER CLARENCE W. MUTSCHELKNAUS & MARY F. MUTSCHELKNAUS LEASE ACREAGE 59.84 AC.±

47 — 017 — 07008
STATE COUNTY PERMIT

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-BHL PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,800' TVD 27,500' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CONRAD BASTON
ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAK BLVD.
DENVER, CO 80202 BRIDGEPORT, WV 26330

FORM WW-6

05/22/2026

COUNTY NAME PERMIT

WW-6A1

Operator's Well Number Joran Unit 1H MOD

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
X: Clarence W. Mutschelknaus and Mary F. Mutschelknaus Lease			
Clarence W. Mutschelknaus and Mary F. Mutschelknaus	Antero Resources Appalachian Corporation	1/8+	341/702
Antero Resources Appalachian Corporation	**Antero Resources Corporation**	**Name Change**	**46/523**
B: Frankie V. Neel & Byron Duane Neel Lease			
Frankie V. Neel & Byron Duane Neel	Clarence W. Mutschelknaus	1/8	149/759
Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	233/645
Bluestone Energy Partners	BEP Merger Sub LP	Merger	288/1
BEP Merger Sub LP	Antero Resources Bluestone, LLC	Merger	288/1
Antero Resources Bluestone, LLC	Antero Resources Appalachian Corporation	Merger	WVSOS
Antero Resources Appalachian Corporation	**Antero Resources Corporation**	**Name Change**	**46/523**
C: Clarence W. Mutschelknaus Sr. Lease			
Clarence W. Mutschelknaus Sr.	**Antero Resources Corporation**	**1/8+**	**530/273**
D: Judy Ann Post Lease			
Judy Ann Post	**Antero Resources Corporation**	**1/8+**	**540/457**
F: Clarence W. Mutschelknaus & Mary F. Mutschelknaus Lease			
Clarence W. Mutschelknaus & Mary F. Mutschelknaus	Clarence W. Mutschelknaus	1/8	205/487
Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	233/645
Bluestone Energy Partners	BEP Merger Sub LP	Merger	288/1
BEP Merger Sub LP	Antero Resources Bluestone LLC	Merger	288/1
Antero Resources Bluestone LLC	**Antero Resources Corporation**	**Merger**	**WVSOS**
H: Clarence W. Mutschelknaus & Mary F. Mutschelknaus Lease			
Clarence W. Mutschelknaus & Mary F. Mutschelknaus	Clarence W. Mutschelknaus	1/8	200/336
Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	250/651
Bluestone Energy Partners	BEP Merger Sub LP	Merger	288/1
BEP Merger Sub LP	Antero Resources Bluestone LLC	Merger	288/1
Antero Resources Bluestone LLC	**Antero Resources Corporation**	**Merger**	**WVSOS**
I: B. Sperry Roming Lease			
B. Sperry Roming	**Antero Resources Corporation**	**1/8+**	**512/251**
J: Chad W. Johnson Lease			
Chad W. Johnson	**Antero Resources Corporation**	**1/8+**	**513/337**
L: Salem Baptist Church, Broad Run Association Lease			
Salem Baptist Church, Broad Run Association	**Antero Resources Corporation**	**1/8+**	**541/466**
M: D. Duane Perkins Lease			
D. Duane Perkins	**Antero Resources Corporation**	**1/8+**	**541/480**

RECEIVED
Office of Oil and Gas
MAY 7 2026
WV Department of
Environmental Protection

05/22/2026
Docket/Cause 460-597

WW-6A1

Operator's Well Number Joran Unit 1H MOD

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
N: Frank K. Burnside and Mildred Burnside Lease			
Frank K. Burnside and Mildred Burnside	James F. Scott	1/8	114/189
James F. Scott	Scott Oil and Gas Company Inc	Assignment	128/599
Scott Oil and Gas Company Inc	James F. Scott	Assignment	133/97
James F. Scott	Hydrocarbon Energies Inc	Assignment	133/380
Hydrocarbon Energies Inc	William L. Waytena	Assignment	146/139
William L. Waytena	Big Sand Drilling Company	Assignment	187/676
Big Sand Drilling Company	**Antero Resources Corporation**	**Assignment**	**555/263**
O: Catherine A. Burnside and J. G. Burnside Lease			
Catherine A. Burnside and J. G. Burnside	Hope Natural Gas Company	1/8	28/238
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	143/345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	135/583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	WVSOS
CNG Transmission Corporation	Dominion Transmission Inc	Merger	WVSOS
Dominion Transmission Inc	CONSOL Energy Holdings LLC, XVI	Assignment	245/1
CONSOL Energy Holdings LLC, XVI	CONSOL Gas Company	Merger	292/469
CONSOL Gas Company	CNX Gas Company LLC	Merger	293/252
CNX Gas Company LLC	Noble Energy, Inc	Assignment	377/212
Noble Energy, Inc	HG Energy II Appalachia, LLC	Assignment	388/34
HG Energy II Appalachia, LLC	**Antero Resources Corporation**	**Assignment**	**548/683**
P: Don H. Nutter, et al Lease			
Don H. Nutter, et al	Consolidated Gas Supply Corporation	1/8	103/107
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	135/583
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	139/41
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc	Name Change	58/366
Dominion Exploration & Production, Inc	Antero Resources Appalachian Corporation	Assignment	230/113
Antero Resources Appalachian Corporation	**Antero Resources Corporation**	**Name Change**	**46/523**
Q: Ewing B. Swaney III Lease			
Ewing B. Swaney III	**Antero Resources Corporation**	**1/8+**	**1756/471**
S: Gretchen P. Oyler as Power of Attorney for: Tracey W. Webber, et al Lease			
Gretchen P. Oyler as Power of Attorney for:	Clarence W Mutschelknaus	1/8	1122/201
Tracey W. Webber, et al			
Clarence W Mutschelknaus	Watkins and Watkins Incorporated	Assignment	1125/1001
Watkins and Watkins Incorporated	Kepco Inc	Assignment	122/350
Kepco Inc	Eastern Kentucky Production Company	Name Change	WVSOS
Eastern Kentucky Production Company	Equitable Resources Energy Company	Assignment	1159/443
Equitable Resources Energy Company	Lone Pine Operating Company Inc	Assignment	1254/406
Lone Pine Operating Company Inc	R & K Oil and Gas Inc	Assignment	1350/1187
R & K Oil and Gas Inc	Antero Resources Appalachian Corporation	Assignment	1484/14
Antero Resources Appalachian Corporation	**Antero Resources Corporation**	**Name Change**	**46/523**

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Office of Oil and Gas
MAY 7 2026
WV Department of
Environmental Protection

WW-6A1

Operator's Well Number Joran Unit 1H MOD

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
T: Agnes J. Coffindaffer Lease Agnes J. Coffindaffer HG Energy II Appalachia, LLC	HG Energy II Appalachia, LLC Antero Resources Corporation	1/8+ Assignment	1711/1056 1797/1183

Docket/Cause 460-597

***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 Conservatic Commission that seeks to pool certain owners in this tract

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05/22/2026

WW-6A1
(5/13)

Operator's Well No. Joran Unit 1H MOD

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
V: Willis G. Tetrick, III, et al Lease				
	Willis G. Tetrick, III, et al	Clarence W. Mutschelknaus	1/8	1122/207
	Clarence W. Mutschelknaus	Watkins & Watkins Incorporated	Assignment	1125/1022
	Watkins & Watkins Incorporated	Kepco, Inc	Assignment	1128/774
	Kepco, Inc	Equitable Energy Company	Assignment	1159/443
	Equitable Energy Company	Lone Pine Operating Company, Inc	Assignment	1254/406
	Lone Pine Operating Company, Inc	R&K Oil and Gas Inc	Assignment	1350/1187
	R&K Oil and Gas Inc	Mark Huston	Assignment	1363/735
	Mark Huston	HG Energy II Appalachia LLC	Assignment	178/971
	HG Energy II Appalachia LLC	**Antero Resources Corporation**	**Assignment**	**1797/1183**

Docket/Cause 460-597

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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:

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- 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

05/22/2026