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, September 11, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Childers Unit 2H
47-095-02979-00-00

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:	Childers Unit 2H
Farm Name:	Gregory & Brenda G Westbrook
U.S. WELL NUMBER:	47-095-02979-00-00
Horizontal 6A	New Drill
Date Modification Issued:	9/11/2026

09/11/2026

WW-6B
(04/15)

API NO. 47- 095 - 02979
OPERATOR WELL NO. Childers Unit 2H MOD
Well Pad Name: Barnhart 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	095 - Tyler	Meade	Bens Run
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: Childers Unit 2H MOD Well Pad Name: Barnhart Pad

3) Farm Name/Surface Owner: Gregory & Brenda G. Westbrook Public Road Access: McKim Creek Rd

4) Elevation, current ground: 1036' Elevation, proposed post-construction: 1036'

5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow X Deep _____
Horizontal X

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20600' MD

11) Proposed Horizontal Leg Length: 10433.3'

12) Approximate Fresh Water Strata Depths: 198', 370'

13) Method to Determine Fresh Water Depths: From 47-073-01867, 47-095-0084

14) Approximate Saltwater Depths: 1,820'

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: _____

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Ck# 4054918
$ 7500.00

Page 1 of 3

Stephen Mccoy Digitally signed by Stephen Mccoy Date: 2026.06.30 12:19:54 -04'00'

09/11/2026

API NO. 47- 095 - 02979
OPERATOR WELL NO. Childers Unit 2H MOD
Well Pad Name: Barnhart 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#	3000'	3000'	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	20600'	20600'	4263 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							

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PACKERS

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

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Stephen Mccoy Digitally signed by Stephen Mccoy Date: 2026.06.30 12:19:44 -04'00'

API NO. 47- 095 - 02979
OPERATOR WELL NO. Childers Unit 2H MOD
Well Pad Name: Barnhart 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): 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

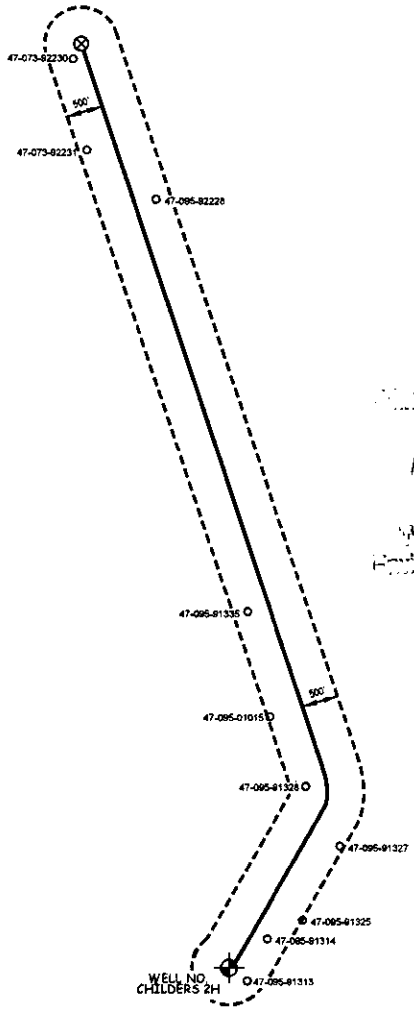
25) Proposed borehole conditioning procedures:

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.

Stephen Mccoy 09/11/2026
Digitally signed by Stephen Mccoy
Date: 2026.06.30 12:19:27 -04'00'

BARNHART PAD
ANTERO RESOURCES CORPORATION



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AUG 26 2026
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Environmental Protection

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

DATE: 07/20/26 | DRAWN BY: T.B.S.

JOB #: 26-007WA
FILE: CHILDERS2HAOR.DWG

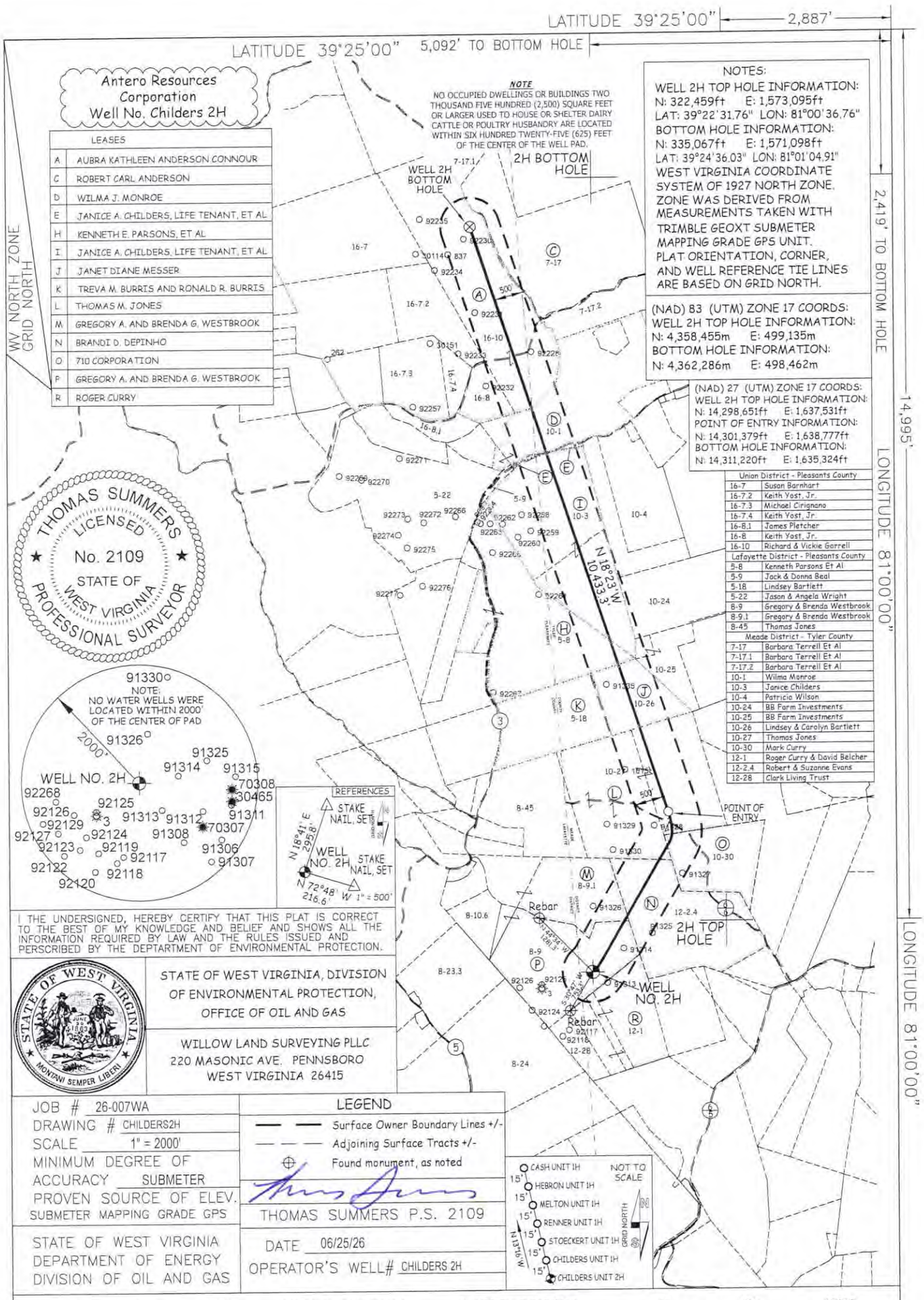
SCALE : 1-INCH = 2000-FEET

0' 2000' 4000' 6000'

09/11/2026

UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4707391313								
4707391314								
4707391325								
4707391327								
4707391328								
4709501015	JONES HARRY A	2	GRIM GRANT	GRIM GRANT	1024			
4709591335								
4709592228								
4707392231								
4707392230								

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LEASES	
A	AUBRA KATHLEEN ANDERSON CONNOUR
C	ROBERT CARL ANDERSON
D	WILMA J. MONROE
E	JANICE A. CHILDERS, LIFE TENANT, ET AL
H	KENNETH E. PARSONS, ET AL
I	JANICE A. CHILDERS, LIFE TENANT, ET AL
J	JANET DIANE MESSER
K	TREVA M. BURRIS AND RONALD R. BURRIS
L	THOMAS M. JONES
M	GREGORY A. AND BRENDA G. WESTBROOK
N	BRANDI D. DEPINHO
O	710 CORPORATION
P	GREGORY A. AND BRENDA G. WESTBROOK
R	ROGER CURRY

NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 322,459ft E: 1,573,095ft
LAT: 39°22'31.76" LON: 81°00'36.76"
BOTTOM HOLE INFORMATION:
N: 335,067ft E: 1,571,098ft
LAT: 39°24'36.03" LON: 81°01'04.91"
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 2H TOP HOLE INFORMATION:
N: 4,358,455m E: 499,135m
BOTTOM HOLE INFORMATION:
N: 4,362,286m E: 498,462m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 14,298,651ft E: 1,637,531ft
POINT OF ENTRY INFORMATION:
N: 14,301,379ft E: 1,638,777ft
BOTTOM HOLE INFORMATION:
N: 14,311,220ft E: 1,635,324ft

Union District - Pleasants County	
16-7	Susan Barnhart
16-7.2	Keith Yost, Jr.
16-7.3	Michael Cirignano
16-7.4	Keith Yost, Jr.
16-8.1	James Pletcher
16-8	Keith Yost, Jr.
16-10	Richard & Vickie Garrell
Lafayette District - Pleasants County	
5-8	Kenneth Parsons Et Al
5-9	Jack & Donna Beal
5-18	Lindsey Bartlett
5-22	Jason & Angela Wright
8-9	Gregory & Brenda Westbrook
8-9.1	Gregory & Brenda Westbrook
8-45	Thomas Jones
Meade District - Tyler County	
7-17	Barbara Terrell Et Al
7-17.1	Barbara Terrell Et Al
7-17.2	Barbara Terrell Et Al
10-1	Wilma Monroe
10-3	Janice Childers
10-4	Patricia Wilson
10-24	BB Farm Investments
10-25	BB Farm Investments
10-26	Lindsey & Carolyn Bartlett
10-27	Thomas Jones
10-30	Mark Curry
12-1	Roger Curry & David Belcher
12-2.4	Robert & Suzanne Evans
12-28	Clark Living Trust

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

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 # 26-007WA
DRAWING # CHILDERS2H
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 06/25/26
OPERATOR'S WELL# CHILDERS 2H

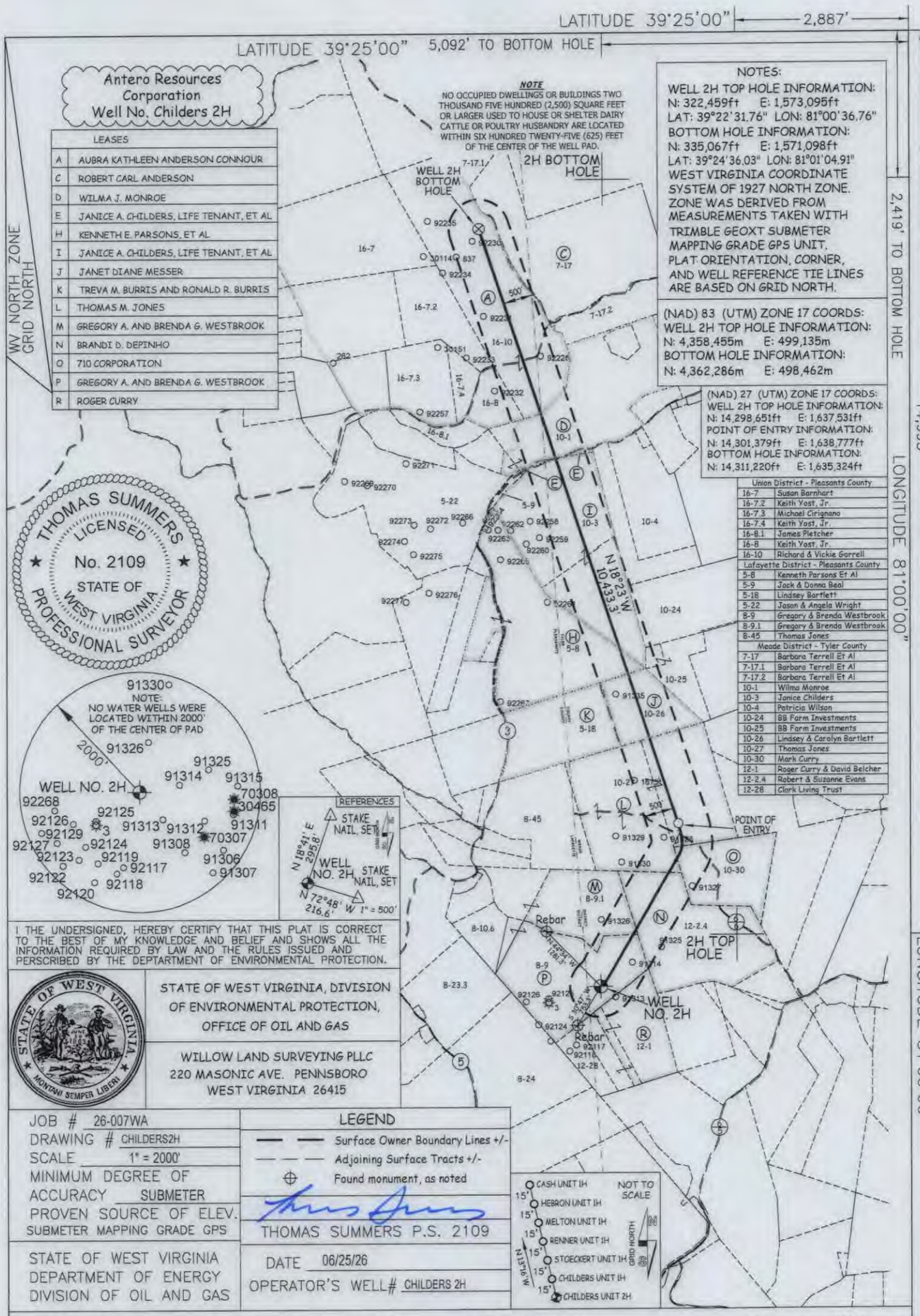
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
47 – 095 – 02979
STATE COUNTY PERMIT
LOCATION: ELEVATION 1,036' PROPOSED WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE BENS RUN 7.5' DISTRICT MEADE COUNTY TYLER
SURFACE OWNER GREGORY & BRENDA G. WESTBROOK ACREAGE 68 ACRES +/-
OIL & GAS ROYALTY OWNER GREGORY & BRENDA G. WESTBROOK LEASE ACREAGE 68 AC.±
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 6,700' TVD 20,600' 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

09/11/2026

COUNTY NAME PERMIT

FORM WW-6



JOB # 26-007WA
DRAWING # CHILDERS2H
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

DATE 06/25/26
OPERATOR'S WELL# CHILDERS 2H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,036' PROPOSED WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE BENS RUN 7.5' DISTRICT MEADE COUNTY TYLER
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47 — 095 — 02979
STATE COUNTY PERMIT

09/11/2026

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 6,700' TVD 20,600' 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

COUNTY NAME PERMIT

FORM WW-6

WW-6A1

Operator's Well Number Childers Unit 2H 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
P: Gregory A. and Brenda G. Westbrook			
Gregory A. and Brenda G. Westbrook	Antero Resources Corporation	1/8+	380/9
M: Gregory A. and Brenda G. Westbrook			
Gregory A. and Brenda G. Westbrook	Antero Resources Corporation	1/8+	380/9
N: Brandi D. Depinho Lease			
Brandi D. Depinho	Antero Resources Corporation	1/8+	441/544
L: Thomas M. Jones Lease			
Thomas M. Jones	Antero Resources Corporation	1/8+	154/655
O: 710 Corporation			
710 Corporation	Whittle Corporation	1/8	387/699
Whittle Corporation	Antero Resources Appalachian Corporation	Assignment	389/222
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	557/430
L: Thomas M. Jones Lease			
Thomas M. Jones	Antero Resources Corporation	1/8+	154/655
J: Janet Diane Messer Lease			
Janet Diane Messer	Antero Resources Corporation	1/8+	336/296
H: Kenneth E. Parsons, et al Lease			
Kenneth E. Parsons, et al	Antero Resources Corporation	1/8+	375/527
I: Janice A. Childers, Life Tenant, et al Lease			
Janice A. Childers, Life Tenant, et al	Antero Resources Corporation	1/8+	248/682
D: Wilma J. Monroe Lease			
Wilma J. Monroe	Antero Resources Corporation	1/8+	196/735

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Docket/Cause 486-652

***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

09/11/2026

WW-6A1
(5/13)

Operator's Well No. Childers Unit 2H MOD

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
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IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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(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: Aubra Kathleen Anderson Connour Lease				
	Aubra Kathleen Anderson Connour	**Antero Resources Corporation**	**1/8+**	**369/691**

Docket/Cause 486-652

*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

09/11/2026