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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, November 5, 2025  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for ZAMPERINI UNIT 2H  
47-095-02952-00-00

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.

A handwritten signature in black ink, appearing to read "Jason Harmon".

H. Jason Harmon  
Acting Chief

Operator's Well Number: ZAMPERINI UNIT 2H  
Farm Name: ANTERO RESOURCES CORPORATION  
U.S. WELL NUMBER: 47-095-02952-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 11/5/2025

Promoting a healthy environment.

11/07/2025

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

- 1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Lincoln Paden City  
Operator ID County District Quadrangle
- 2) Operator's Well Number: Zamperini Unit 2H MOD Well Pad Name: Shinn Pad
- 3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: Badger Run Road
- 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 Yes
- 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: 21300' MD
- 11) Proposed Horizontal Leg Length: 12405.7'
- 12) Approximate Fresh Water Strata Depths: 328
- 13) Method to Determine Fresh Water Depths: 47-095-02781
- 14) Approximate Saltwater Depths: 1440
- 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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WW-6B  
(04/15)

API NO. 47- 095 - 02952  
OPERATOR WELL NO. Zamperini Unit 2H MOD  
Well Pad Name: Shinn 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#	378	378	CTS, 394 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#	21300	21300	4439 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 2  
Signed by Stephen Mccoy  
Date: 2025.09.10 08:06:01 -04'00'

Stephen  
Mccoy

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): 38.32 acres

22) Area to be disturbed for well pad only, less access road (acres): 16.29 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.

# LEGEND

- Proposed gas well
- Existing Well, as noted
- Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone

500' Buffer

Zamperini 2H

47-095-00683

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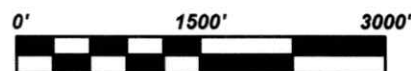
WV Department of  
Environmental Protection



Bridgeport Office  
Phone: (304) 848-5035  
Fax: (304) 848-5037

172 Thompson Drive  
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: D. Rader
RESEARCH: J. Miller	PREPARED: October 17, 2025
SURVEYED: Dec. 2016	PROJECT NO: 104-54-L-25
FIELD CREW: C.L., K.M.	SHEET 1 of 1 DRAWING NO: Zamperini 2H BHL-MOD AOR



Scale: 1 inch = 1500 feet

11/07/2025

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4709500683	STARKEY CLAIR	1	LIPPIZAN PETROLEUM INC	EMES JIM PET	3,059	2792 - 2813	Gordon, Fifth	Berea, Weir, Alexander

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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
<b><u>R: Raymond B. &amp; Eva J. Heintzman Lease</u></b>			
Raymond B. & Eva J. Heintzman	McCombs Conrad & Barrett	1/8	207/136
McCombs Conrad & Barrett	Appalachian Exploration & Development, Inc	Assignment	207/487
Appalachian Exploration & Development, Inc	The Carter-Jones Lumber Company	Assignment	233/563
The Carter-Jones Lumber Company	Applied Mechanics Corporation	Assignment	258/132
Applied Mechanics Corporation	Triad Hunter, LLC	Assignment	385/566
Triad Hunter, LLC	Antero Resources Corporation	Assignment	496/776
<b><u>Q: Virginia A. Nalley Lease</u></b>			
Virginia A. Nalley	SEP Appalachia, LLC	1/8+	315/758
SEP Appalachia, LLC	Antero Resources Corporation	Agreement	328/598
<b><u>O: Nevin Porter, et al Lease</u></b>			
Nevin Porter, et al	Antero Resources Corporation	1/8+	464/467
<b><u>L: Waco Oil &amp; Gas Co., Inc. Lease</u></b>			
Waco Oil & Gas Co., Inc.	Antero Resources Corporation	1/8+	317/312
<b><u>I: Jeffery A. &amp; Karen Jo Gaiser Lease</u></b>			
Jeffrey A. & Karen Jo Gaiser	Antero Resources Corporation	1/8+	227/207
<b><u>G: Happy Endings, LLC Lease</u></b>			
Happy Endings, LLC	Antero Resources Corporation	1/8+	147/756
<b><u>E: Greenbrier Royalty Fund II, LLC Lease</u></b>			
Greenbrier Royalty Fund II, LLC	SEP Appalachia LLC	1/8+	326/40
SEP Appalachia LLC	SEP Mountaineer, LLC	Merger	WVSOS
SEP Mountaineer, LLC	Antero Resources Corporation	Agreement	375/110
<b><u>C: Sara Anetsberger Lease</u></b>			
Sara Anetsberger	Antero Resources Corporation	1/8+	622/666

**\*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

\*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.

11/07/2025

**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
<u>A: David E. Bowyer Lease</u>	David E. Bowyer	Antero Resources Corporation	1/8+	622/327

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OCT 20 2025  
WV Department of  
Environmental Protection

**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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Ohio State Line  
West Virginia State Line  
Ohio River

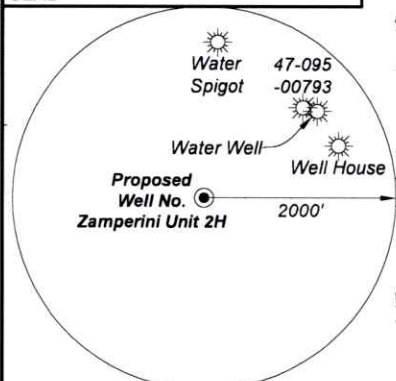


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



SEAL



Note: Three water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

FILE NO: 104-54-L-25

DRAWING NO: Zamperini Unit 2H Well Plat

SCALE: 1" = 1500'

MINIMUM DEGREE OF ACCURACY:  
Submeter

PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: September 17 20 25

OPERATOR'S WELL NO. Zamperini Unit 2H

API WELL NO

47 - 095 - 02952  
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL  
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: As-Built 1,036' WATERSHED: Outlet Middle Island Creek

DISTRICT: Lincoln

**SURFACE OWNER:** Antero Resources Corp

QUADRANGLE: Paden City

COUNTY: Tyler

ACREAGE: 52.51

ROYALTY OWNER: Raymond B. Heintzman & Eva J. Heintzman

LEASE NO:                      ACREAGE:                      52.51

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

☐ PERFORATE NEW FORMATION      ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)      BHL-MOD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,300' MD

**WELL OPERATOR:** Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston


ADDRESS: 1615 Wynkoop Street

ADDRESS: 535 White Oaks Blvd.

Denver, CO 80202

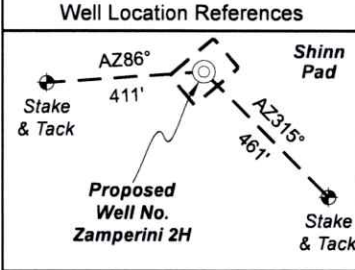


Antero Resources  
Well No. Zamperini 2H  
BHL-MOD  
Antero Resources Corporation

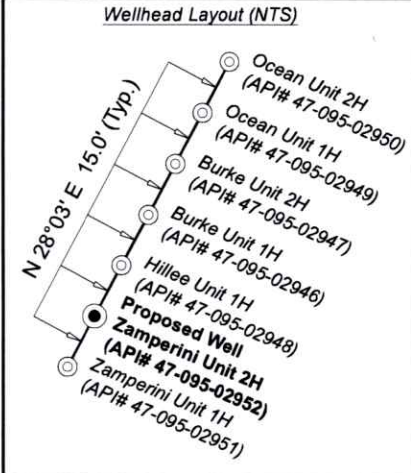


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Well Location References



Wellhead Layout (NTS)



Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Existing road
- Surface boundary (approx.)
- State line (approx.)

Lease

ID	Lease
A	David E. Bowyer
B	Betty Jean Reed
C	Sara Anetsberger
D	William J. Patterson, et al
E	Greenbrier Royalty Fund II, LLC
G	Happy Endings, LLC
I	Jeffrey A. & Karen Jo Gaiser
J	Jeffrey A. & Karen Jo Gaiser
K	James F. Lucas
L	Waco Oil & Gas Co., Inc.
M	William K. Johnson & Janet N. Johnson, his wife
N	BRC Appalachian Minerals I, LLC
O	Nevin Porter, et al
Q	Virginia A. Nalley
R	Raymond B. & Eva J. Heintzman

Tyler County

No.	TM / Par	Owner	Bk / Pg	Ac.
1	4 / 52	Ronald A. & Betty J. Reed	W39 / 384	35.20
2	4 / 53.1	Ronald A. Reed	327 / 506	1.00
3	4 / 50	Betty J. Reed	W39 / 498	5.13
4	4 / 39	Matthew C. & Kelly Stewart	631 / 298	205.17
5	4 / 51	Jack Folger, et al	W37 / 622	1.25
6	4 / 44	William H. McCoy	OR 65 / 450	221.66
7	4 / 37	Dorothy Stewart	563 / 318	64.56
8	4 / 23	Karen A. Pachuta & Karl J. Varone	340 / 269	47.50
9	4 / 22	The Jack G. Gaiser Revocable Trust, dated December 30, 2015, et al	OR 312 / 451	49.70
10	4 / 93	Jeffrey A. Gaiser, et ux, et al	258 / 450	41.55
11	4 / 93.1	Jeffrey A. & Karen J. Gaiser	281 / 444	4.20
12	4 / 94	James F. Lucas	OR 120 / 463	4.09
13	8 / 7.2	The Jack G. Gaiser Revocable Trust, dated December 30, 2015, et al	295 / 545	18.23
14	8 / 7.3	Michael P. Wells	OR 291 / 170	63.00
15	8 / 8	Michael P. Wells	OR 291 / 170	0.88
16	8 / 7.1	Jeffrey S. Moore	230 / 764	2.00
17	8 / 10	Camille Mace	418 / 774	32.47
18	8 / 18	William K. & Janet N. Johnson	196 / 60	164.60
19	8 / 19	Olive Branch Animal Rescue & Refuge, Inc.	OR 312 / 564	173.48
20	8 / 21	Clay W. & Delphine E. Shinn	OR 61 / 786	35.51
21	8 / 39	Antero Midstream, LLC	OR 218 / 520	70.65
22	8 / 21.2	Antero Resources Corp.	OR 296 / 494	52.51

Notes:


Well No. Zamperini Unit 2H  
UTM Zone 17, NAD 1927  
Top Hole Coordinates  
N: 14,363,570.09'  
E: 1,654,934.38'  
Point of Entry Coordinates  
N: 14,363,293.78'  
E: 1,653,670.32'  
Bottom Hole Coordinates  
N: 14,374,984.31'  
E: 1,649,531.75'

Notes

West Virginia Coordinate System  
of 1927, North Zone  
based upon Differential GPS Measurements.  
Well No. Zamperini Unit 2H Top Hole coordinates are  
N: 387,100.60' Latitude: 39°33'13.60"  
E: 1,591,586.96' Longitude: 80°56'54.58"  
Bottom Hole coordinates are  
N: 398,607.35' Latitude: 39°35'06.48"  
E: 1,586,373.87' Longitude: 80°58'03.53"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,378,242.529m N: 4,381,721.581m  
E: 504,439.641m E: 502,793.002m  
Plat orientation and corner and well references  
are based upon the grid north meridian.  
Well location references are based upon the magnetic  
meridian.

FILE NO: 104-54-L-25  
DRAWING NO: Zamperini Unit 2H Well Plat  
SCALE: 1" = 1500'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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



DATE: September 17 20 25  
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API WELL NO  
47 - 095 - 02952  
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL  
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW  
LOCATION: ELEVATION: As-Built 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City  
DISTRICT: Lincoln COUNTY: Tyler  
SURFACE OWNER: Antero Resources Corp ACREAGE: 52.51

ROYALTY OWNER: Raymond B. Heintzman & Eva J. Heintzman LEASE NO: ACREAGE: 52.51  
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION  
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD 6,700' TVD  
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,300' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330



October 17<sup>th</sup>, 2025

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

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

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved wells on the Shinn Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Burke Unit 1H, Hillee Unit 1H & Zamperini Unit 2H wells.

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

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 blue ink, appearing to read "CW".

Carly Wren  
Permitting Agent  
Antero Resources Corporation

# 4045717  
9/30/25  
\$7,500.00

Enclosures

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Office Of Oil and Gas

OCT 20 2025

WV Department of  
Environmental Protection

11/07/2025