



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, December 18, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Acadia Unit 2H
47-095-02898-00-00

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 handwritten signature in blue ink, appearing to read "James A. Martin", is written over a light blue circular stamp.

James A. Martin
Chief

Operator's Well Number: Acadia Unit 2H
Farm Name: Antero Resources Corporation
U.S. WELL NUMBER: 47-095-02898-00-00
Horizontal 6A New Drill
Date Modification Issued: 12/18/2024

Promoting a healthy environment.

12/20/2024

WW-6B
(04/15)

API NO. 47-095 - 02898
OPERATOR WELL NO. Acadia Unit 2H MOD
Well Pad Name: Shinn 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 Lincoln Paden City
Operator ID County District Quadrangle

2) Operator's Well Number: Acadia 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: 1043' Elevation, proposed post-construction: 1036'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

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: 23800' MD

11) Proposed Horizontal Leg Length: 15217.7'

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

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

Depth: _____

Seam: _____

Owner: _____

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12/20/2024

WW-6B
(04/15)

API NO. 47-095 - 02898
OPERATOR WELL NO. Acadia 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#	23800	23800	5069 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-4/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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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.

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): 38.08 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.

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

CK# 4636824

Depth: _____

\$ 7500

Seam: _____

11/12/2024

Owner: _____

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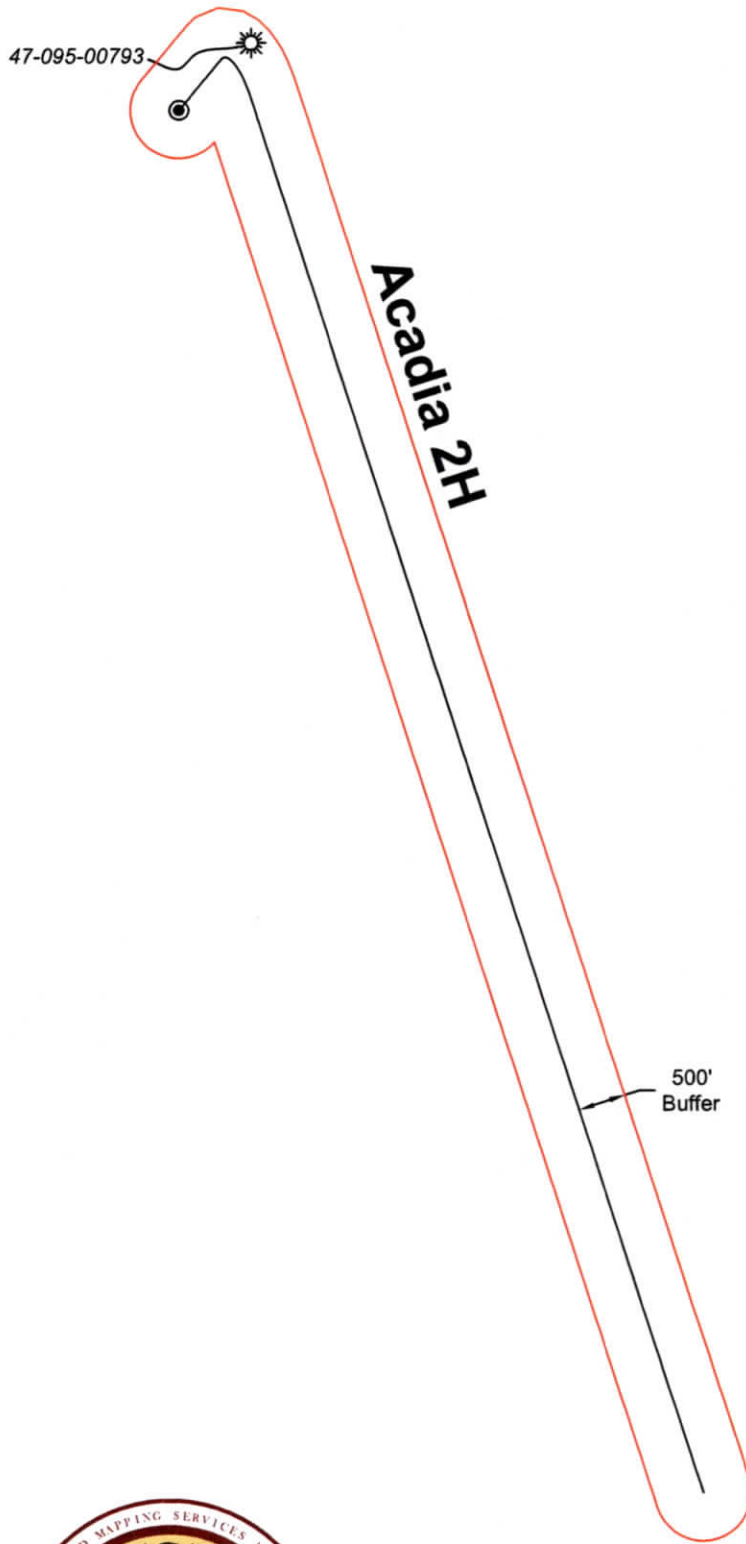
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LEGEND

- 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



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

172 Thompson Drive
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch

DRAWN BY: J. McNemar

RESEARCH: J. Miller

PREPARED: November 25, 2024

SURVEYED: Dec. 2016

PROJECT NO: 164-54-L-23

FIELD CREW: C.L., K.M.

Sheet 1 of 1

DRAWING NO: Acadia 2H BHL MOD AOR

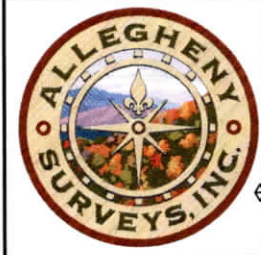


Scale: 1 inch = 2000 feet

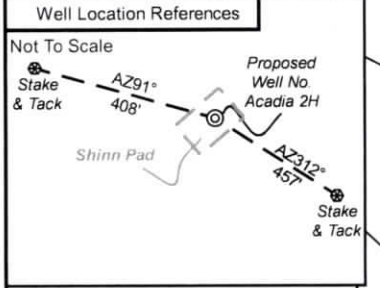
UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095007930000	HEINTZMAN RAYMOND B	1	PIN OAK OPERATING LLC	CARTER JONES LUMBER	3,407	2641 - 3256	Fifth, Warren First	Alexander, Weir, Berea, Warren

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Antero Resources
Well No. Acadia 2H
BHL MOD
Antero Resources Corporation



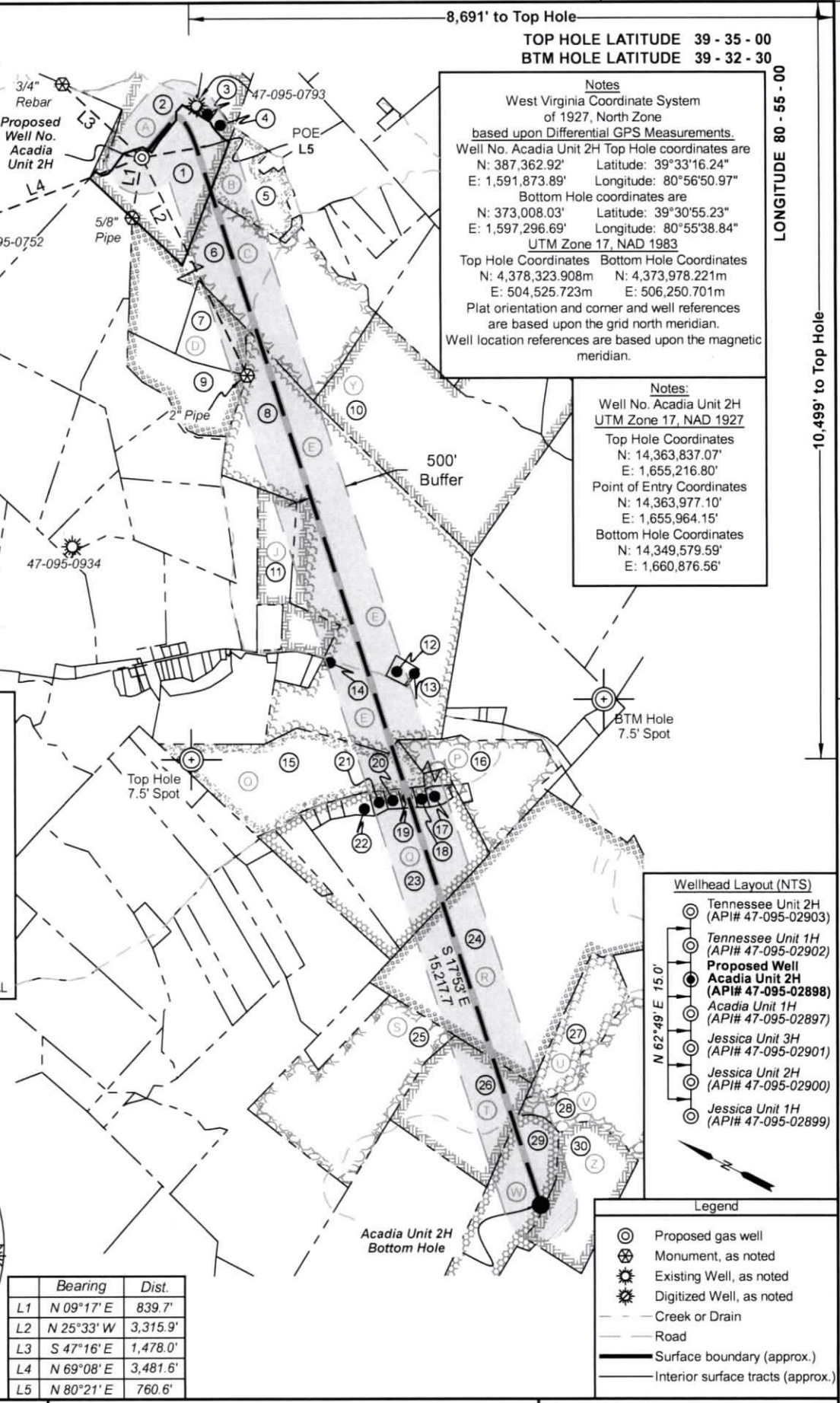
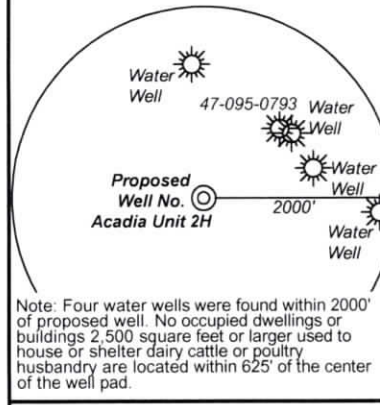
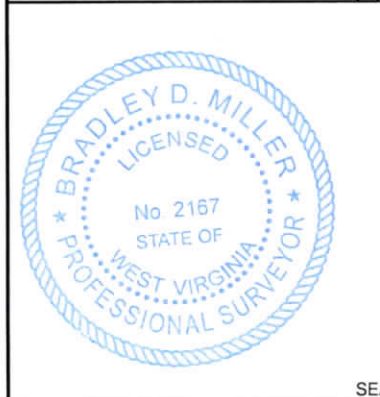
Page
1 of 2



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

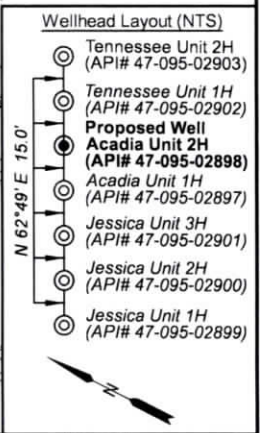
Bradley D. Miller, P.S. 2167



8,691' to Top Hole
 TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Acadia Unit 2H Top Hole coordinates are
 N: 387,362.92' Latitude: 39°33'16.24"
 E: 1,591,873.89' Longitude: 80°56'50.97"
 Bottom Hole coordinates are
 N: 373,008.03' Latitude: 39°30'55.23"
 E: 1,597,296.69' Longitude: 80°55'38.84"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,378,323.908m N: 4,373,978.221m
 E: 504,525.723m E: 506,250.701m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Notes:
 Well No. Acadia Unit 2H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,363,837.07'
 E: 1,655,216.80'
 Point of Entry Coordinates
 N: 14,363,977.10'
 E: 1,655,964.15'
 Bottom Hole Coordinates
 N: 14,349,579.59'
 E: 1,660,876.56'



- Legend**
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Digitized Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

FILE NO: 164-54-L-23
 DRAWING NO: Acadia Unit 2H BHL MOD
 SCALE: 1" = 2000'
 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: November 6 2024
 OPERATOR'S WELL NO. Acadia Unit 2H
 API WELL NO
 47 - 095 - 02898
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Existing Grade 1,043' Proposed Grade 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
 DISTRICT: Lincoln COUNTY: Tyler 12/20/2024
 SURFACE OWNER: Antero Resources Corporation ACREAGE: 52.51
 ROYALTY OWNER: Raymond B. Heintzman, et ux LEASE NO: ACREAGE: 100
 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: 23,800' MD

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



Leases	
A	Raymond B. Heintzman, et ux
B	Bounty Minerals, LLC
C	Bounty Minerals, LLC
D	John L. Hess
E	Lois M. & Billy J. Stern, JTWROS
J	Rose Ann Craig Lambert
O	James P. & Melissa B. Flesher, JTWROS
P	Teresa Starcher Burgey
Q	BRC Appalachian Minerals I, LLC
R	Cathy Jane Meredith, acting Trustee for the Cathy Jane Meredith Trust
S	Carolina Mineral Partners, LLC
T	James Andrew Winland
U	James W. Thomas, et ux
V	Susan Townshend, Executor of the Last Will and Testament of Ruth B. Thomas
W	James Andrew Winland
Y	Arlen Glen Wells, Jr.
Z	Mildred A. Reed

ID	TM-Par	Owner	Bk/Pg	Acres
1	8-21.2	Antero Resources Corporation	296/494	35.52
2	8-21	Antero Resources Corporation	296/490	52.51
3	8-21.3	Adam Nathaniel Wayne	236/556	0.79
4	8-21.4	Jodie E. Michael	373/544	1.78
5	8-22	David E. & Ila Grace Kyle	270/206	24.63
6	8-41	David E. & Ila Grace Kyle	272/189	118.10
7	8-40	Cleatus T. Still	AR46/356	16.94
8	12-71	Shaun M. & Carrie A. Meckley	393/423	266.33
9	8-59	Burl A. & Colleen Folger	199/135	24.00
10	8-61	G.R. Meckley Family Trust	OR50/28	106.51
11	12-20.2	Shawn M. & Carrie A. Meckley	601/789	30.21
12	12-72	Billy J. & Lois M. Stern	214/439	2.15
13	12-71.2	Billy J. & Lois M. Stern	393/434	0.22
14	12-20.1	Shaun M. & Carrie A. Meckley	393/423	1.38
15	12-71.1	James Perry & Melissa Flesher	316/137	63.45
16	13-9.3	James Perry & Melissa Flesher	284/78	16.03
17	12-54.7	Jeffrey L. & Nicola S. Stewart	458/662	1.91
18	12-54.10	Justin L. & Suzanne L. Nichols	591/22	1.06
19	12-54.11	Justin L. & Suzanne L. Nichols	591/22	1.27
20	12-54.8	Justin L. & Suzanne L. Nichols	531/592	1.22
21	12-54.9	Justin L. & Suzanne L. Nichols	531/592	1.37
22	12-54.3	Teresa Jean Starcher	316/146	2.62
23	12-54	David A. Starcher	591/22	60.95
24	13-15	Cathy J. Meredith Trust	634/684	200.86
25	12-70	Starkey Farm 95, LLC	387/530	76.01
26	13-20	Jim Winland	304/421	50.75
27	13-17	Rene Hickman, et al	WB45/145	24.00
28	9-32	Janet L. Cline	331/921	61.25
29	14-1	James A. & Carol Winland	WB31/209	47.48
30	14-2	Robert L. & Donald E. Reed	188/726	42.00

FILE NO: 164-54-L-23
 DRAWING NO: Acadia Unit 2H BHL MOD
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Submeter
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WVDOT, Harrisville, WV


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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
A: Raymond B. Heintzman, et ux Lease			
Raymond B. Heintzman, et ux	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: Bounty Minerals, LLC Lease			
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	301/448
C: Bounty Minerals, LLC Lease			
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	301/448
E: Lois M. & Billy J. Stern, JTWROS Lease			
Lois M. & Billy J. Stern, JTWROS	Antero Resources Corporation	1/8+	324/268
J: Rose Ann Craig Lambert Lease			
Rose Ann Craig Lambert	Triad Hunter, LLC	1/8+	24/763
Triad Hunter, LLC	Blue Ridge Mountain Resources, Inc	Merger	104/354
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Merger	104/357
Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS
SWN Production, LLC	Antero Resources Corporation	Assignment	235/291
E: Lois M. & Billy J. Stern, JTWROS Lease			
Lois M. & Billy J. Stern, JTWROS	Antero Resources Corporation	1/8+	324/268
O: James P. & Melissa B. Flesher, JTWROS Lease			
James P. & Melissa B. Flesher, JTWROS	Antero Resources Corporation	1/8+	324/271
Q: BRC Appalachian Minerals I, LLC Lease			
BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	1/8+	369/300
BRC Working Interest Company, LLC	Chesapeake Appalachia, LLC	Assignment	369/784
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc	Assignment	378/764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	470/668
SWN Exchange Titleholder LLC	SWN Production Company LLC	Merger	9/404
SWN Production Company LLC	Antero Exchange Properties	Assignment	544/242
Antero Exchange Properties	Antero Resources Corporation	Merger	525/315
R: Cathy Jane Meredith, acting Trustee for the Cathy Jane Meredith Trust Lease			
Cathy Jane Meredith, acting Trustee for the Cathy Jane Meredith Trust	SEP Appalachia, LLC	1/8+	324/233
SEP Appalachia, LLC	Antero Resources Corporation	Agreement	JOA

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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
T: James Andrew Winland Lease			
James Andrew Winland	Triad Hunter LLC	1/8+	630/26
Triad Hunter LLC	Blue Ridge Mountain Resources, Inc	Merger	104/354
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Merger	104/357
Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS
SWN Production, LLC	Antero Resources Corporation	Assignment	235/291

***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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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
W: James Andrew Winland Lease	James Andrew Winland	Triad Hunter LLC	1/8+	630/26
	Triad Hunter LLC	Blue Ridge Mountain Resources, Inc.	Merger	104/354
	Blue Ridge Mountain Resources, Inc.	Eclipse Resources I, LP	Merger	104/357
	Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS
	SWN Production, LLC	Antero Resources Corporation	Assignment	235/291

*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 Utilization - 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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WV Department of
Environmental Protection

12/20/2024