



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, April 24, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for LOKI UNIT 1H
47-095-02849-00-00

Lateral Extension

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: LOKI UNIT 1H
Farm Name: ANTERO RESOURCES CORPORATION
U.S. WELL NUMBER: 47-095-02849-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/24/2023

Promoting a healthy environment.

04/28/2023

CK #4018525
#2500
4/4/23

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	Union	Middlebourne 7.5'
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Operator ID County District Quadrangle
- 2) Operator's Well Number: Loki Unit 1H MOD Well Pad Name: Roma Lou Pad
- 3) Farm Name/Surface Owner: Antero Resources Corp. Public Road Access: Sellers Road
- 4) Elevation, current ground: As-built 883' 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: 6500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#
- 8) Proposed Total Vertical Depth: 6500' TVD
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 24600' MD
- 11) Proposed Horizontal Leg Length: 16049' *Open to modification at a later date
- 12) Approximate Fresh Water Strata Depths: 168'
- 13) Method to Determine Fresh Water Depths: 47095001110000 Offset well records. Depths have been adjusted according to surface elevations.
- 14) Approximate Saltwater Depths: 1678'
- 15) Approximate Coal Seam Depths: None Anticipated
- 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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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	79#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	300'	300'	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2990'	2990'	CTS, 1217 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	24600'	24600'	CTS, 5271 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

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

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SMG
4/21/23

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): 21.24 acres

22) Area to be disturbed for well pad only, less access road (acres): 12.19 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 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.

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*Note: Attach additional sheets as needed.

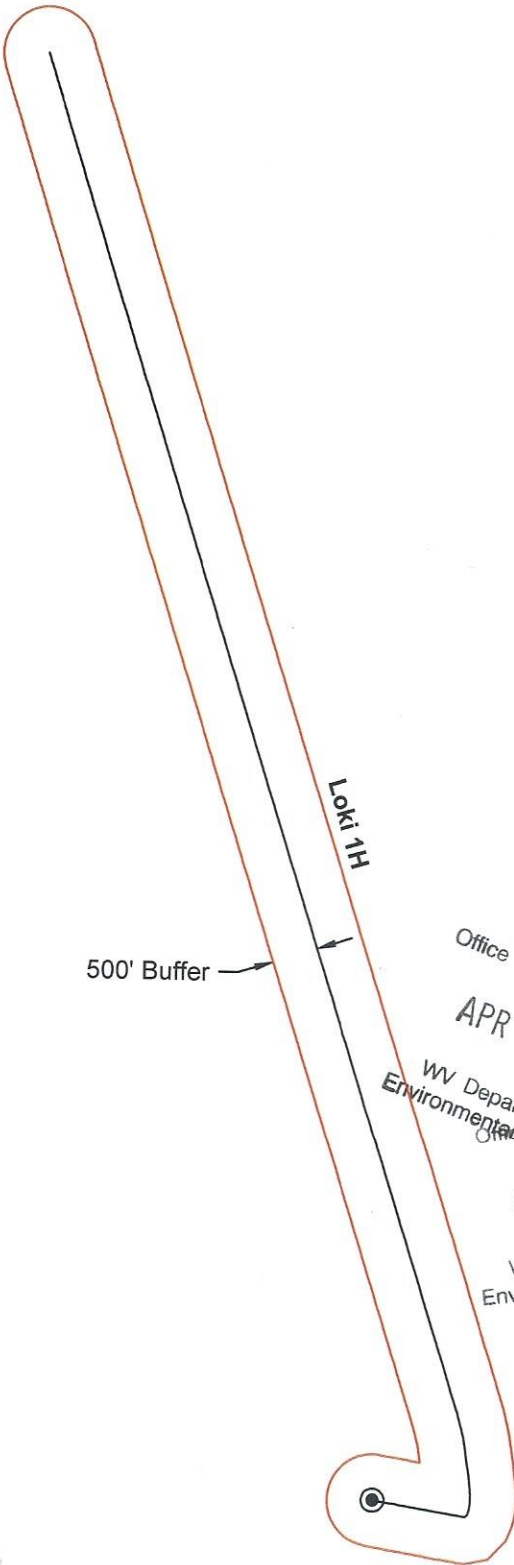
04/28/2023

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

Loki 1H

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WV Department of
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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. Smith
RESEARCH: J. Miller	PREPARED: February 16, 2023
SURVEYED: Dec. 2016	PROJECT NO: 259-54-U-22
FIELD CREW: C.L., K.M.	DRAWING NO: Loki 1H BHL MOD AOR

Sheet 1 of 1



Scale: 1 inch = 2000 feet

04/28/2023

8,562' to Bottom Hole

4,473' to Top Hole
TOP HOLE LATITUDE 39 - 30 - 00
BTM HOLE LATITUDE 39 - 32 - 30

LONGITUDE 80 - 57 - 30

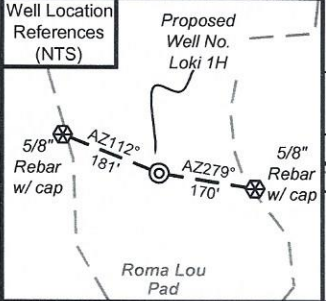
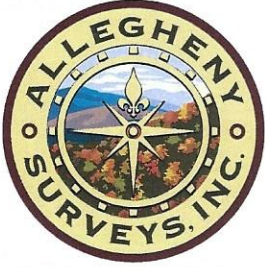
5,106' to Bottom Hole

5,493' to Top Hole

Antero Resources
Well No. Loki 1H
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.

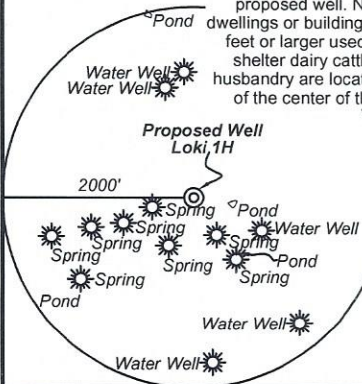
Bradley D. Miller

Bradley D. Miller, P.S. 2167



SEAL

Note: 5 water wells 8 springs and 4 ponds 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.



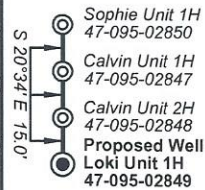
Legend

- 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.)
- District Line

Notes
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Loki Unit 1H Top Hole coordinates are
N: 362,142.43' Latitude: 39°29'05.71"
E: 1,583,933.91' Longitude: 80°58'27.05"
Bottom Hole coordinates are
N: 377,770.65' Latitude: 39°31'39.54"
E: 1,580,097.72' Longitude: 80°59'19.28"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,370,599.878m N: 4,375,341.559m
E: 502,234.916m E: 500,986.783m
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. Loki Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,338,496.22'
E: 1,647,701.57'
Point of Entry Coordinates
N: 14,338,847.32'
E: 1,648,724.77'
Bottom Hole Coordinates
N: 14,354,052.88'
E: 1,643,606.38'

Wellhead Layout (NTS)



	Bearing	Dist.
L1	S 74°18' W	1,729.0'
L2	N 81°48' W	1,396.6'
L3	N 08°52' W	1,557.9'
L4	N 72°44' E	2,152.6'
L5	N 72°01' E	1,082.2'

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

FILE NO: 259-54-U-22
DRAWING NO: Loki Unit 1H BHL MOD
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

DATE: April 3 2023
OPERATOR'S WELL NO. Loki 1H
API WELL NO
47 - 095 - 02849
STATE COUNTY PERMIT

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

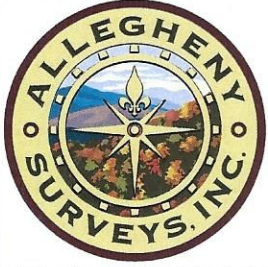
LOCATION: ELEVATION: As-Built 883' WATERSHED: Outlet Middle Island Creek QUADRANGLE: BH: Paden City
DISTRICT: Union/Lincoln COUNTY: Tyler

SURFACE OWNER: Antero Resources Corp. Colleen Marie Anderson; Warren V. Bowen; Linda Pryor Henriksen, et vir; Margaret Conaway-Torok; Haught Family Trust; Greenbrier Royalty Fund III, LLC; Julia Marie May; ROYALTY OWNER: Berna J. Hammel; WVDNR; Steven D. Zechman & Linda M. Jensen; Jay Edward Smith; LEASE NO: ACREAGE: 60.38
ACREAGE: 60.38

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: 24,600' MD 6,500' TVD

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

APR 07 2023
Department of Environmental Protection
60.38; 57.23;
59.5; 72.88;
339.71; 156.786;
65.462; 8.0; 83.61;
158.79175; 119.75



ID	TM-Par	Owner	Bk/Pg	Acres
1	10-4.1	Antero Resources Corporation	OR12/739	60.38
2	9-9.1	Jennifer K. & Diane M. Thomas	AR46/754	40.00
3	10-4	Kevin L. & Tammy J. Thomas	OR7/290	32.22
4	10-5.3	Richard Daniel Bowen	344/814	25.92
5	10-5.5	Bowen Family Irrevocable Trust	372/303	22.89
6	10-5	Timothy Brian Bowen, et al	652/440	48.36
7	9-4	Steven D. Zechman & Linda M. Jensen	348/422	250.00
8	6-3	Eldon J. & Ruth A. Helman	383/761	72.80
9	6-1	Eldon J. & Ruth A. Helman	383/761	169.00
10	5-16	Charity Gas Inc.	358/516	393.00
11	6-4	Darren E. Thacker	616/762	67.00
12	6-5.2	Julia Fetty Carolus	323/585	5.50
13	6-5.3	Julia Fetty Carolus	323/587	2.50
14	5-26	Paul R. Fetty	288/126	82.22
15	14-1	Edward E. & Connie Howell	361/829	158.74
16	11-11	Thomas E. Bowen	374/636	119.75
17	11-14	Calvin Lee & Irene M. Stewart	251/635	4.99
18	11-15	Thomas E. Bowen	374/636	6.00
19	11-14.2	Gerald Eugene & Sonya Stewart	374/843	1.75
20	11-14.1	Gerald Eugene Stewart	279/572	3.00
21	11-16	John Mark Campbell	326/365	8.85
22	11-16.1	John Lincoln & Autumn Rose Campbell	OR 43/11	3.09
23	11-17	Thomas E. Neff	341/213	10.00
24	11-18	William L. & Lynn A. Hinkle	366/387	72.50
25	11-19.1	Sheila & Rex Ervin	409/542	34.55
26	11-24	Ryan Chambers & Nancy Marie Chaplin	348/763	77.00

Leases	
A	Berna J. Hammel
B	Mary Faye Grove
C	Sally & Mitchell Dunn
D	J&N Management Enterprises, LLC
E	WVDNR
F	Steven D. Zechman & Linda M. Jensen
G	Jay Edward Smith
H	Norma R. Spencer
I	Haught Family Trust
J	Greenbrier Royalty Fund III, LLC
K	Julia Marie May
L	Warren T Stewart
M	Linda Pryor Henriksen, et vir
N	Margaret Conaway-Torok
O	Warren V. Bowen
P	Colleen Marie Anderson

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 WV Department of
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FILE NO: 259-54-U-22
 DRAWING NO: Loki Unit 1H 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: April 3 2023
 OPERATOR'S WELL NO. Loki 1H
 API WELL NO
 47 - 095 - 02849
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 883' WATERSHED: Outlet Middle Island Creek QUADRANGLE: BH: Paden City TH: Middlebourne

DISTRICT: Union/Lincoln COUNTY: Tyler
 SURFACE OWNER: Antero Resources Corp. Colleen Marie Anderson; Warren V. Bowen; 60.38; 57.23;
 Linda Pryor Henriksen, et vir; Margaret Conaway-Torok; 250.00; 72.88;
 ROYALTY OWNER: Berna J. Hammel; WVDNR; Steven D. Zechman & Linda M. Jensen; Jay Edward Smith; Haught Family Trust; Greenbrier Royalty Fund III, LLC; Julia Marie May; 344.814; 156.786;
 LEASE NO: ACREAGE: 60.36 65.462; 8.0; 83.61; 158.79175; 119.75

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6,500' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,600' 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

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
<u>A: Berna J. Hammel Lease</u> Berna J. Hammel	Antero Resources Corporation	1/8+	0587/0076
<u>E: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	0121/0242
<u>F: Steven D. Zechman & Linda M. Jensen Lease</u> Steven D. Zechman & Linda M. Jensen	Antero Resources Corporation	1/8+	0105/0308
<u>E: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	0121/0242
<u>G: Jay Edward Smith Lease</u> Jay Edward Smith Montani Energy LLC Antero Resources Appalachian Corporation	Montani Energy LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Name Change	0404/0001 0404/0754 0557/0430
<u>E: WVDNR Lease</u> WVDNR	Antero Resources Corporation	1/8+	0121/0242
<u>I: Haught Family Trust Lease</u> Haught Family Trust Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+	0404/0244 0557/0430
<u>J: Greenbrier Royalty Fund III, LLC Lease</u> Greenbrier Royalty Fund III, LLC	Antero Resources Corporation	1/8+	0108/0295
<u>K: Julia Marie May Lease</u> Julia Marie May	Antero Resources Corporation		0233/0464
<u>M: Linda Pryor Henriksen, et vir Lease</u> Linda Pryor Henriksen, et vir	Antero Resources Corporation	1/8+	0671/0593
<u>N: Margaret Conaway-Torok Lease</u> Margaret Conaway-Torok	Antero Resources Corporation	1/8+	0595/0622
<u>O: Warren V. Bowen Lease</u> Warren V. Bowen Triad Energy Corporation Triad Hunter LLC Blue Ridge Mountain Resources Inc. Eclipse Resources I LP SWN Production LLC	Triad Energy Corporation Triad Hunter LLC Blue Ridge Mountain Resources Inc. Eclipse Resources I LP SWN Production LLC Antero Resources Corporation	1/8 Assignment Merger Merger Name Change Assignment	0349/0650 0371/0605 0104/0354 0104/0357 WV SOS 0235/0291

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WV Department of Environmental Protection

*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 – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act

04/28/2023

**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)**

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- (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
Colleen Marie Anderson Lease	Colleen Marie Anderson	Antero Resources Corporation	1/8+	0201/0597

*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.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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Office of Oil and Gas
APR 07 2023

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



April 6, 2023

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

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Office of Oil and Gas

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WV Department of
Environmental Protection

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 well on the existing Roma Lou Pad: Loki Unit 1H (47-095-02849), and on the existing Ingold Pad: Chiselfinger Unit 1H (47-103-03556), Chiselfinger Unit 2H (47-103-03557), Skinner Hollow Unit 1H (47-103-03558), and Skinner Hollow Unit 2H (47-103-03559) Expedited.

Attached you will find the following:

- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat
- AOR

If you have any questions please feel free to contact me at (303) 357-7182.

Thank you in advance for your consideration.

Sincerely,

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

Enclosures

04/28/2023