



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, September 11, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for BURCH UNIT 1H
47-095-02893-00-00

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.

James A. Martin
Chief

Operator's Well Number: BURCH UNIT 1H
Farm Name: SHIRLEY J WELLS & SUSIE CUNNINGHAM
U.S. WELL NUMBER: 47-095-02893-00-00
Horizontal 6A New Drill
Date Modification Issued: 9/11/2024

Promoting a healthy environment.

09/13/2024

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 Meade Bens Run
Operator ID County District Quadrangle

2) Operator's Well Number: Burch Unit 1H MOD Well Pad Name: Wrigley Pad

3) Farm Name/Surface Owner: Shirley J. Wells & Susie Cunningham Public Road Access: Rock Run Road

4) Elevation, current ground: 937' 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- 2800#

8) Proposed Total Vertical Depth: 6500' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25000' MD

11) Proposed Horizontal Leg Length: 15988.5'

12) Approximate Fresh Water Strata Depths: 397'

13) Method to Determine Fresh Water Depths: 47-095-02593

14) Approximate Saltwater Depths: 1436', 1847'

15) Approximate Coal Seam Depths: None Identified

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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*ON#4034479
750000*

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directly overlying or adjacent to an active mine? Yes _____ No

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

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#	447'	447'	CTS, 466 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#	25000'	25000'	CTS, 5372 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	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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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

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 28.45 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.35 acres

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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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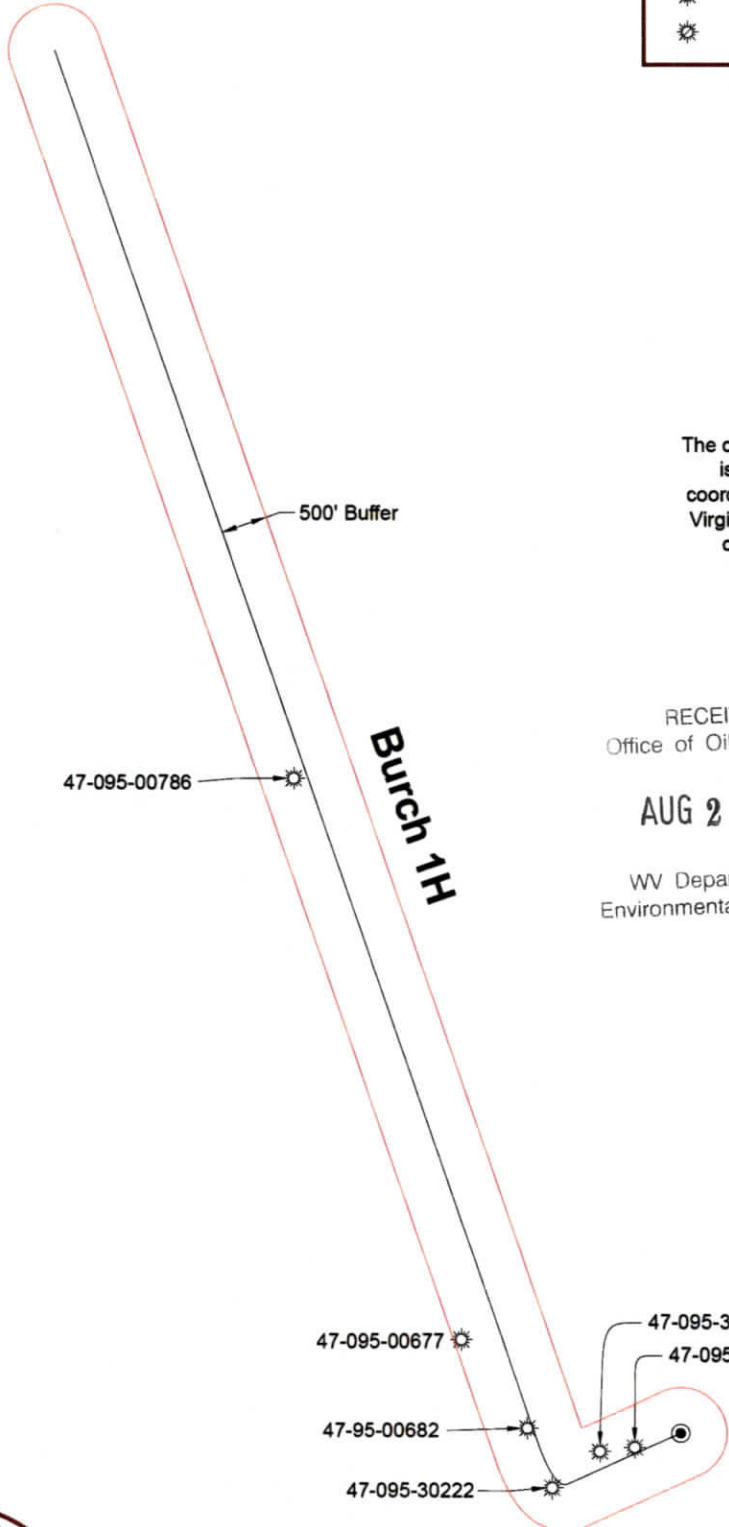
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09/13/24

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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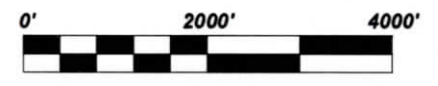
WV Department of
Environmental Protection



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: August 20, 2024
SURVEYED: Dec. 2016	PROJECT NO: 174-54-U-23
FIELD CREW: C.L., K.M.	DRAWING NO: Burch 1H BHL MOD AOR



Scale: 1 inch = 2000 feet
09/13/2024

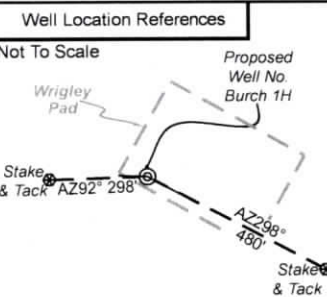
Antero Resources
Well No. Burch 1H
BHL MOD
 Antero Resources Corporation

Page
1 of 2

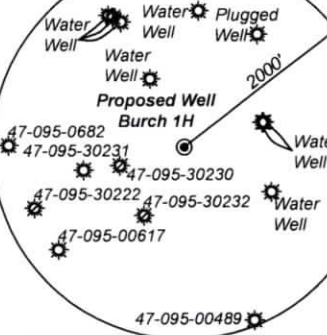


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Note: 8 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.



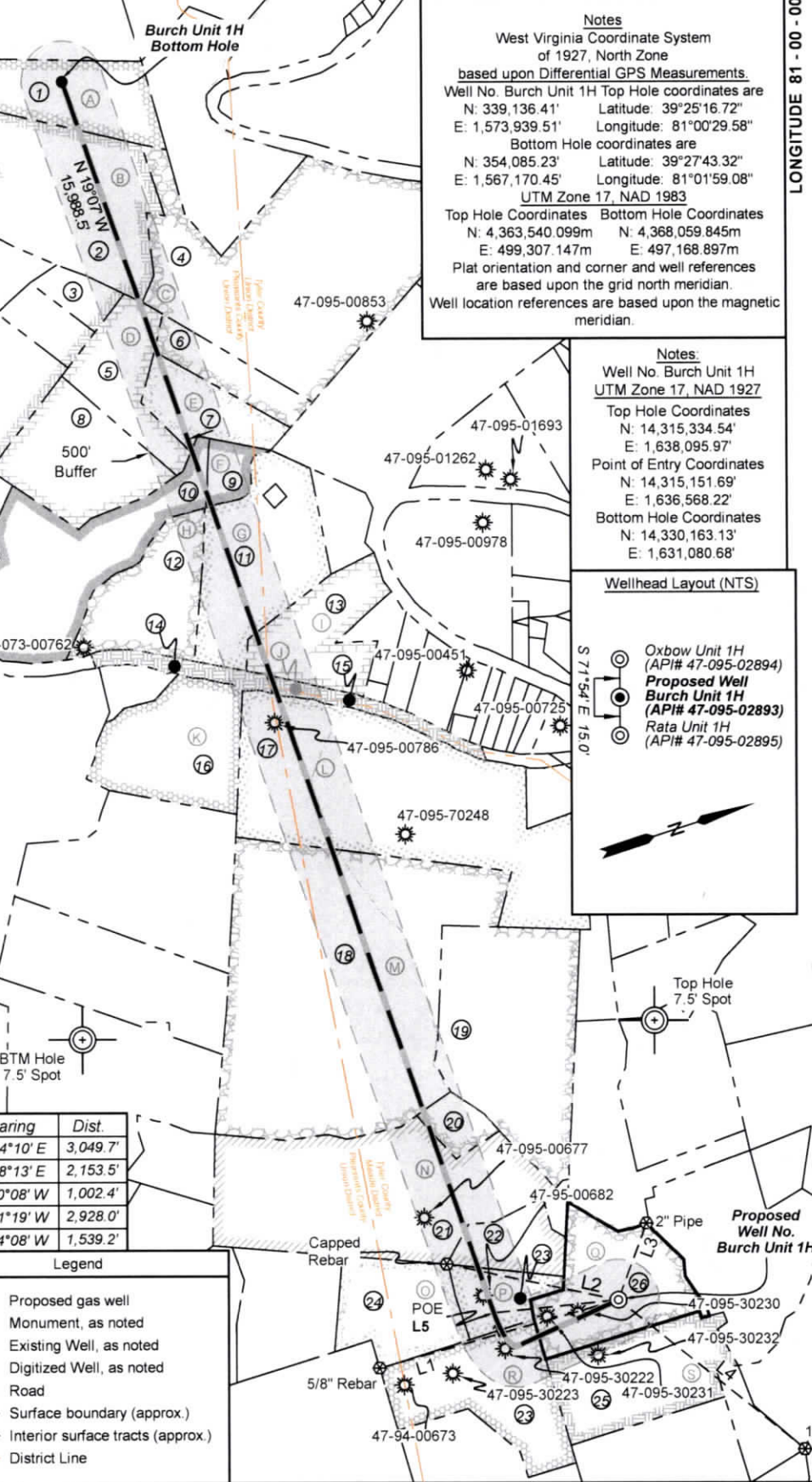
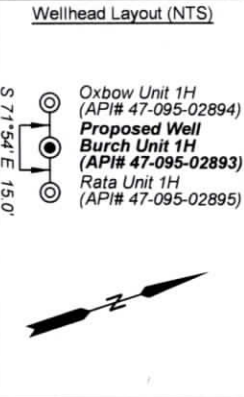
	Bearing	Dist.
L1	N 74°10' E	3,049.7'
L2	S 78°13' E	2,153.5'
L3	S 20°08' W	1,002.4'
L4	N 51°19' W	2,928.0'
L5	S 84°08' W	1,539.2'

- Legend
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Digitized Well, as noted
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - District Line

9,338' to Bottom Hole
 2,321' to Top Hole
 TOP HOLE LATITUDE 39 - 27 - 30
 BTM HOLE LATITUDE 39 - 30 - 00

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Burch Unit 1H Top Hole coordinates are
 N: 339,136.41' Latitude: 39°25'16.72"
 E: 1,573,939.51' Longitude: 81°00'29.58"
 Bottom Hole coordinates are
 N: 354,085.23' Latitude: 39°27'43.32"
 E: 1,567,170.45' Longitude: 81°01'59.08"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,363,540.099m N: 4,368,059.845m
 E: 499,307.147m E: 497,168.897m
 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. Burch Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,315,334.54'
 E: 1,638,095.97'
 Point of Entry Coordinates
 N: 14,315,151.69'
 E: 1,636,568.22'
 Bottom Hole Coordinates
 N: 14,330,163.13'
 E: 1,631,080.68'



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

FILE NO: 173-54-U-23
 DRAWING NO: Burch Unit 1H BHL MOD
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

DATE: June 27 20 24
 OPERATOR'S WELL NO. Burch Unit 1H
 API WELL NO
 47 - 095 - 02893
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 937' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Bens Run
 DISTRICT: THL: Meade, BHL: Union COUNTY: Tyler, Putnam, Putnam
 SURFACE OWNER: Shirley J. Wells & Suisse Cunningham ACREAGE: 53.85
 ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 365.445

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: 6,500' TVD 25,000' 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	Roy Emmett Huffman & Linda Gay Huffman
B	Michael Scott Bonner
C	Lisa Krynaich
D	Terry & Daphne Heinzman
E	Antero Minerals, LLC
F	Clifford Benjamin & Rebecca Louise Boone
G	Bobbin E. Pardine
H	Estate of Mary Jane Stewart
I	Greenbrier Royalty Fund II, LLC
J	WVDNR
K	A.P. Allen, et ux
L	Wells Cattle Farms, Inc.
M	Greenbrier Royalty Fund II, LLC
N	Vicki Bonner
O	Bradley William Poch
P	Janelle Sue Perkins
Q	Antero Minerals, LLC
R	Inex B. Fletcher, et vir
S	Mary C. Robinson Living Trust

ID	TM/Par	Owner	Bk/Pg	Acres
1	3-9	Roy Emmett & Linda Gay Huffman	126/341	55.00
2	3-23A	David L. Bonner	WB33/171	104.00
3	3-26	Glen E. Bonner	WB33/171	13.35
4	13-36	Lisa Krynaich	566/759	165.50
5	7-14	Terry & Daphne Heinzman	262/527	61.77
6	12-12	Lisa Krynaich	566/759	20.00
7	7-23B	Frederick M. Bonner	286/474	27.33
8	7-14.1	Terry & Daphne Heinzman	262/527	30.00
9	7-15	Rebecca Louise & Clifford Benjamin Boone	348/311	9.17
10	7-13.1	Rebecca Louise & Clifford Benjamin Boone	348/317	77.25
11	7-15.1	Bobbin E. Pardine	268/516	63.60
12	7-13.2	Terry & Daphne Heinzman	342/105	42.70
13	15-16	James E. & Anita Carr	349/742	58.12
14		Middle Island Creek		
15		Middle Island Creek		
16	7-22	Forty-Four Acres, Inc.	208/134	44.50
17	4-8	Wells Cattle Farms, Inc.	331/164	155.00
18	4-19	Wells Cattle Farms, Inc.	318/190	206.13
19	4-20	Cecil E. Sr. & Linda Jordan, James & Connie Hicks	318/190	206.13
20	4-32	Wells Cattle Farms, Inc.	318/190	206.13
21	7-1	Daniel Preston Bonner	416/11	142.72
22	7-1.1	Daniel Preston Bonner	416/11	20.19
23	7-7	Janelle S. Perkins	184/378	74.08
24	12-17	Cecil E. & Betty J. Hamilton	269/58	32.38
25	7-8	John Wells	428/412	52.39
26	7-2	Shirley J. Wells & Susie Cunningham	WB41/317	53.85

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OIL AND GAS DIVISION

DATE: June 27 20 24
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 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
Q: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8+	184/780
R: Inex B. Fletcher, et vir Lease Inex B. Fletcher, et vir Loren E. Bagley C. W. Riggs, Inc Halwell Limited Partnership Halwell Company, General Partner Halwell Company, Inc Triad Energy Corporation of WV, Inc Triad Hunter, LLC	Loren E. Bagley C. W. Riggs, Inc Halwell Limited Partnership Halwell Company, General Partner Halwell Company, Inc Triad Energy Corporation of WV, Inc Triad Hunter, LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment	216/313 216/664 249/383 297/595 297/597 324/430 371/605 626/653
P: Janelle Sue Perkins Lease Janelle Sue Perkins	Antero Resources Corporation	1/8+	155/530
N: Vicki Bonner Lease Vicki Bonner	Antero Resources Corporation	1/8+	297/160
M: Greenbrier Royalty Fund II, LLC Lease Greenbrier Royalty Fund II, LLC	Antero Resources Corporation	1/8+	296/93
L: Wells Cattle Farms, Inc Lease Wells Cattle Farms, Inc	Antero Resources Corporation	1/8+	410/647
J: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	307/127
I: Greenbrier Royalty Fund II, LLC Lease Greenbrier Royalty Fund II, LLC	Antero Resources Corporation	1/8+	296/93
G: Bobbin E. Pardine Lease Bobbin E. Pardine	Antero Resources Corporation	1/8+	349/170
F: Clifford Benjamin & Rebecca Louise Boone Lease Clifford Benjamin & Rebecca Louise Boone	Antero Resources Corporation	1/8+	349/173
D: Terry & Daphne Heinzman Lease Terry & Daphne Heinzman	Antero Resources Corporation	1/8+	349/180
E: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8+	348/685
C: Lisa Kmyaich Lease Lisa Kmyaich	Antero Resources Corporation	1/8+	189/373
D: Terry & Daphne Heinzman Lease Terry & Daphne Heinzman	Antero Resources Corporation	1/8+	349/180

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
C: Lisa Kmyaich Lease Lisa Kmyaich	Antero Resources Corporation	1/8+	189/373
B: Michael Scott Bonner Lease Michael Scott Bonner	Antero Resources Corporation	1/8+	358/640

*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
<u>A: Roy Emmett Huffman & Linda Gay Huffman Lease</u>	Roy Emmett Huffman & Linda Gay Huffman	Antero Resources Corporation	1/8+	349/177

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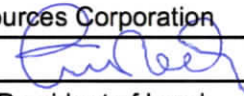
WV Department of
Environmental Protection

**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