



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, January 31, 2022
PERMIT MODIFICATION APPROVAL
New Drill / Modification

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET
DENVER, CO 80202

Re: Permit Modification Approval for EARL UNIT 2H
47-085-10415

Extending 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 blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: EARL UNIT 2H
Farm Name: ANTERO RESOURCES CORPORATION
U.S. WELL NUMBER: 47-085-10415
New Drill Modification
Date Modification Issued: 01/31/2022

Promoting a healthy environment.

03/04/2022

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

1) Well Operator: Antero Resources Corporation Operator ID: 494507062 County: 085-Ritchie District: Union Quadrangle: Pullman/Oxford7

2) Operator's Well Number: Earl Unit 2H Well Pad Name: Weekley West Pad

3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: Co Rd 22/3

4) Elevation, current ground: 1,138' Elevation, proposed post-construction: 1,125'

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, 7,000 TVD, Anticipated Thickness 55', Associated Pressure 2,850#

8) Proposed Total Vertical Depth: 7,000'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23,400'

11) Proposed Horizontal Leg Length: 14,007'

12) Approximate Fresh Water Strata Depths: 258', 330', 478'

13) Method to Determine Fresh Water Depths: Reference wells 08508569, 0850858, 08508582 Depths have been adjusted according to surface elevations

14) Approximate Saltwater Depths: 1,015' (reference well 08503139), 1,976' (reference well 08507618)

15) Approximate Coal Seam Depths: 734' (reference well 08507618), 1,495' (reference well 08503139)

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- 085 - 10415 MOD
 OPERATOR WELL NO. Earl Unit 2H
 Well Pad Name: Weekley West 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# | 80 | 80 | CTS, 77 Cu. Ft. |
| Fresh Water | 13-3/8 | New | J/K-55 | 54.5# | 528 | 528 | CTS, 550 Cu. Ft. |
| Coal | 9-5/8 | New | J/K-55 | 36# | 2500 | 2500 | CTS, 1018 Cu. Ft. |
| Intermediate | | | | | | | |
| Production | 5-1/2 | New | PY-110 | 23# | 23,400 | 23,400 | CTS, 4969 Cu. Ft. |
| Tubing | 2-3/8 | New | N-80 | 4.7# | | | |
| Liners | | | | | | | |

Bryan Harris 11/19/22

| 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 | ~1.18 |
| Fresh Water | 13-3/8 | 17-1/2" | 0.380" | 2730 | 1000 | Class A | ~1.18 |
| Coal | 9-5/8 | 12-1/4" | 0.352" | 3520 | 1500 | Class A | ~1.18 |
| Intermediate | | | | | | | |
| Production | 5-1/2 | 8-3/8" & 8-1/2" | 0.415" | 12,630 | 9300 | | |
| Tubing | 2-3/8 | 4.778" | 0.190" | 11,200 | | Lead-HFPOZ & Tail-H | H/POZ-1.44 & H-1.8 |
| Liners | | | | | | | |

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PACKERS

| | | | WV Department of Environmental Protection |
|-------------|-----|--|---|
| Kind: | N/A | | |
| Sizes: | N/A | | |
| Depths Set: | N/A | | |

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new horizontal 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): 58.63

22) Area to be disturbed for well pad only, less access road (acres): 8.23

23) Describe centralizer placement for each casing string:

Conductor: No centralizers.
Surface Casing: One centralizer 10' above the float shoe and one every 4th joint spaced up the hole to surface.
Intermediate Casing: One centralizer above float joint, one centralizer 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.

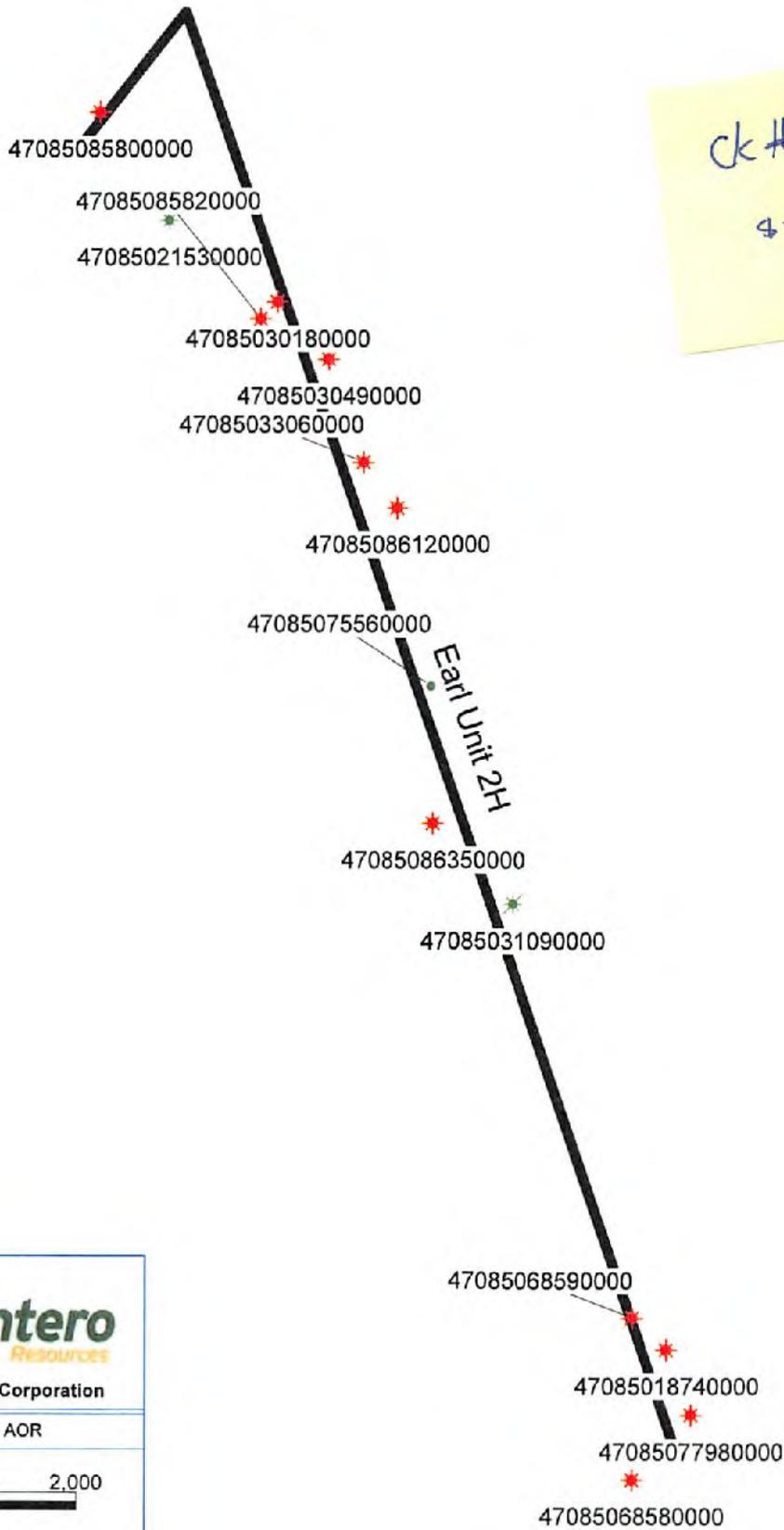
24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.
Surface Casing: Class A cement with 2-3% calcium chloride and 1/4 lb of flake.
Intermediate Casing: Class A cement with 1/4 lb of flake, 5 gallons of clay treat.
Production Casing 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 Casing Tail Cement: Class H + 45 PPS Calcium Carbonate + 1.0% Flake + 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.



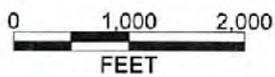
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\$5,000

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Antero Resources Corporation

Earl Unit 2H - AOR



- WELL SYMBOLS
- Abandoned Oil and Gas Well
 - Gas Well
 - Oil & Gas Well
 - Oil Well

December 20, 2021

03/04/2022

| UWI (APINum) | Well Name | Well Number | Operator | Historical Operator | TD | Perforated Interval (shallowest, deepest) | Perforated Formation(s) | Producible Formation(s) not perf'd |
|----------------|---------------------|-------------|----------------------|---------------------|-------|---|--|--|
| 47085018740000 | E MAXSON | 2 | AMERICAN ENR HOLDING | ALLEGHENY LAND&MNRL | 2,072 | | Big Injun | Gordon, Berea |
| 47085021530000 | EARL PIERCE | 1 | RITCHIE PET CORP | HEASTER PAUL ET AL | 1,960 | | Big Injun | Warren, Speechley, Baltown, Riley, Alexander, Benson |
| 47085030180000 | EDWIN PIERCE | 1 | R & R OIL & GAS LLC | OIL STATES SALES | 1,881 | | Big Injun | Gordon, Berea |
| 47085030490000 | EDWIN PIERCE | 2 | R & R OIL & GAS LLC | OIL STATES SALES | 2,065 | | Big Injun | Gordon, Berea |
| 47085031090000 | G M BRITTON | 1 | FERRELL WILLARD E | FERRELL WILLARD E | 1,888 | | Big Injun | Gordon, Berea |
| 47085033060000 | EDWIN PIERCE | 1 | R & R OIL & GAS LLC | HUNTER OIL CO | 2,217 | | Big Injun | Warren, Speechley, Baltown, Riley, Alexander, Benson |
| 47085068580000 | MAXSON ELVA HEIRS | A-1365 | MOUNTAIN V LLC | ALAMCO INC | 5,500 | 4379 - 5200 | Big Injun, Weir, Udev, Riley, Benson, Alexander | Warren, Speechley, Baltown, Riley |
| 47085068590000 | MAXSON ELVA HEIRS | A-1540 | MOUNTAIN V LLC | ALAMCO INC | 5,508 | 3376 - 5164 | Big Injun, Weir, Udev, Riley, Benson, Alexander | Warren, Speechley, Baltown, Riley, Alexander, Benson |
| 47085075560000 | BRITTON ROBERT J ET | 2 | HAUGHT ENERGY CORP | TERM ENERGY | 2,300 | 2052 - 2154 | Weir | Gordon, Berea |
| 47085077980000 | SHEPLER HARVEY | D-17 | R & R OIL & GAS LLC | SHELDON & ASSOC | 2,604 | 2113 - 2144 | Big Injun | Gordon, Berea |
| 47085085800000 | PIERCE | 1 | KEY OIL CO | KEY OIL INC | 5,438 | 3448 - 5250 | Warren, Speechley, Baltown, Riley, Benson, Alexander | Gordon, Berea |
| 47085085820000 | PIERCE | 3 | KEY OIL CO | KEY OIL INC | 5,068 | 3079 - 4890 | Warren, Speechley, Baltown, Riley, Benson, Alexander | Gordon, Berea |
| 47085086120000 | PIERCE E | 2 | KEY OIL CO | KEY OIL INC | 5,354 | 3366 - 5180 | Warren, Speechley, Baltown, Riley, Benson, Alexander | Gordon, Berea |
| 47085086350000 | MAXSON | 2 | KEY OIL CO | KEY OIL CO | 5,347 | 3233 - 5099 | Warren, Speechley, Baltown, Riley, Benson, Alexander | Gordon, Berea |

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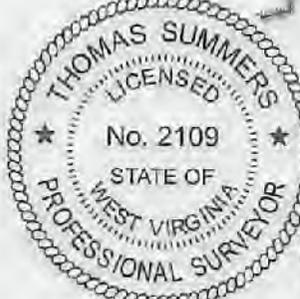
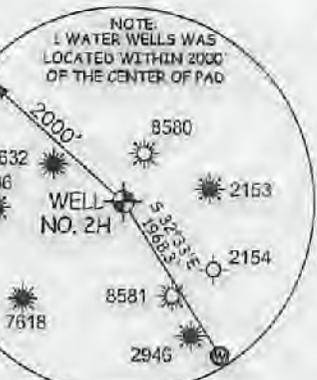
Antero Resources Corporation Well No. Earl Unit 2H

NOTES:
WELL 2H TOP HOLE INFORMATION:
 N: 246,931ft E: 1,610,058ft
 LAT: 39°10'11.20" LON: 80°52'31.39"
BOTTOM HOLE INFORMATION:
 N: 234,747ft E: 1,615,415ft
 LAT: 39°08'11.58" LON: 80°51'21.04"
 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: 4,335,634m E: 510,780m
BOTTOM HOLE INFORMATION:
 N: 4,331,949m E: 511,474m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
 N: 14,223,778ft E: 1,675,739ft
POINT OF ENTRY INFORMATION:
 N: 14,224,940ft E: 1,676,769ft
BOTTOM HOLE INFORMATION:
 N: 14,211,689ft E: 1,681,293ft

NOTE
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



| Union District - Ritchie County | |
|---------------------------------|---------------------------------|
| 14-19 | David W. Weekley |
| 20-3 | David W. Weekley |
| 20-4 | David W. Weekley |
| 20-7 | David W. Weekley |
| 20-8 | David W. Weekley |
| 20-9 | Albin Gesek |
| 20-10 | David W. Weekley |
| 20-11.1 | Antero Resources Corp. |
| 20-11.4 | Bryan England |
| 20-12 | Albin Gesek |
| 20-12.1 | Albin Gesek |
| 20-13 | David Pierce |
| 20-13.1 | Dallas Smith |
| 20-17 | Christopher Cross |
| 20-18 | Richard Pierce |
| 20-19 | Charles Adams |
| 20-20 | Mark Spiker |
| 20-21 | Charles Adams |
| 21-3 | Dallas Smith |
| 21-5 | James Beek |
| 26-6 | Mark Spiker |
| 26-6.1 | Earl Flasher |
| 26-7 | Donald Sheets |
| 26-8 | Mark Spiker |
| 26-9 | Donald Sheets |
| 26-14 | Mark Spiker |
| 26-14.1 | Mark Spiker |
| 26-15 | Mark Spiker |
| 26-16 | South Park Sportsman Assn, Inc. |
| 26-16.1 | South Park Sportsman Assn, Inc. |
| 26-17 | South Park Sportsman Assn, Inc. |
| 26-26 | Maren Brissey |
| 26-27 | South Park Sportsman Assn, Inc. |
| 26-30 | South Park Sportsman Assn, Inc. |
| 27-1 | Linda Jennings |
| 27-1.1 | Linda Jennings |
| 27-2 | Randall Hess |
| 27-3 | Steven Lusk |
| 27-3.4 | Kent Grafion |
| 27-3.5 | Justina Friedman |
| 27-3.6 | Lillian Martin |
| 27-11 | Miles Ball |
| 27-15 | Randall Pierce |
| 27-15.1 | Randall Pierce |
| 27-16 | Clarence Bush |
| 27-20 | South Park Sportsman Assn, Inc. |
| 27-21 | Maxson Land LLC |
| 27-22 | Clarence Bush |
| 32-1 | Stanley Echard |
| 32-1.3 | Stanley Echard |
| 32-2 | Harold Pierce |

WV NORTH ZONE GRID NORTH

10,970' TO BOTTOM HOLE

14,043'

LONGITUDE 80°50'00"

LONGITUDE 80°52'30"

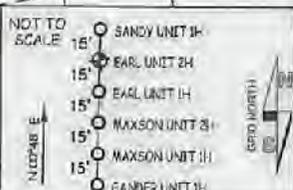
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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 # 16-044WA
 DRAWING # EARL2HR3
 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

LEGEND
 - - - Surface Owner Boundary Lines +/-
 - - - Adjoining Surface Tracts +/-
 ⊕ Found monument, as noted
 THOMAS SUMMERS P.S. 2109
 DATE 12/21/21
 OPERATOR'S WELL# EARL UNIT #2H



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 085 - 10415
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,138' - ORIGINAL 1,125' - PROPOSED ___ WATERSHED SOUTH FORK HUGHES RIVER
 QUADRANGLE TH - PULLMAN 7.5' BH - OXFORD 7.5' DISTRICT UNION COUNTY RITCHIE
 SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY ACREAGE 39.87 ACRES +/-
 OIL & GAS ROYALTY OWNER T.D. DOITSON ET UX; ALIX PRUNTY ET UX; ANTERO MINERALS LLC. LEASE ACREAGE 39.87 AC.±; 300AC.±; 25 AC.±;
 EARL PIERCE ET UX; EDWARD PIERCE; MARY J. BRITTON ET AL.; GLEN MAXSON; ELIZABETH E. BRITTON: 25 AC.±; 82 AC.±; 97 AC.±; 142.62 AC.±; 115.5 AC.±;
 DARLENE BOSTON; BERNICE HAUGHT ET AL.; ELVA MAXSON ET UX 100 AC.±; 66.75 AC.±; 66 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 7,000' TVD 23,400' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

03/04/2022

COUNTY NAME PERMIT

JAN 13 2022

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)

WV Department of
Environmental Protection

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>T.D. Dotson, et ux Lease</u> | | | |
| T.D. Dotson, et ux | J.T. Carter | 1/8 | 0011/0297 |
| J.T. Carter | Carter Oil Company | Assignment | 0011/0528 |
| Carter Oil Company | Hope Construction and Refining Company | Assignment | 0052/0194 |
| Hope Construction and Refining Company | Hope Natural Gas Company | Merger | 0111/0520 |
| Hope Natural Gas Company | Consolidation Gas Supply Corporation | Conveyance | 0151/0436 |
| Consolidation Gas Supply Corporation | Consolidation Gas Transmission Corporation | Assignment | 0169/0756 |
| Consolidation Gas Transmission Corporation | CNG Development Company | Assignment | 0176/0601 |
| CNG Development Company | CNG Producing Company | Name Change | WVSOS |
| CNG Producing Company | Dominion Exploration & Production, Inc. | Name Change | 0058/0366 |
| Dominion Exploration & Production, Inc. | Dominion Transmission, Inc. | Assignment | 0251/0621 |
| Dominion Transmission, Inc. | CONSOL Energy Holdings, LLC | Assignment | 0251/0648 |
| CONSOL Energy Holdings, LLC | Consol Gas Company | Merger | 0006/0576 |
| Consol Gas Company | CNX Gas Company, LLC | Merger | 0006/0634 |
| CNX Gas Company, LLC | Antero Resources Corporation | Assignment | 0269/0429 |
| <u>Alix Prunty et ux Lease</u> | | | |
| Alix Prunty et ux | M.G. Zinn | 1/8 | 0010/0422 |
| M.G. Zinn | Carter Oil Company | Assignment | 0012/0368 |
| Carter Oil Company | Hope Construction and Refining Company | Assignment | 0052/0194 |
| Hope Construction and Refining Company | Consolidation Gas Supply Corporation | Conveyance | 0151/0436 |
| Consolidation Gas Supply Corporation | Consolidation Gas Transmission Corporation | Assignment | 0169/0756 |
| Consolidation Gas Transmission Corporation | CNG Transmission Corporation | Merger | WVSOS |
| CNG Transmission Corporation | Antero Resources Appalachian Corporation | Assignment | 0227/0130 |
| Antero Resources Appalachian Corporation | Antero Resources Corporation | Name Change | 0015/0705 |
| <u>Antero Minerals LLC</u> | | | |
| Antero Minerals LLC | Antero Resources Corporation | 1/8+ | 0328/0096 |
| <u>Earl Pierce et ux Lease</u> | | | |
| Earl Pierce et ux | Harrold Haddox | 1/8 | 101/341 |
| Harrold Haddox | George L Yaste dba Oil State Sales Company | Assignment | 102/261 |
| George L Yaste dba Oil State Sales Company | DLY Inc | Assignment | 112/302 |
| DLY Inc | Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company | Assignment | 132/565 |
| Betty Jean Stalnaker & Rosalee Roberts dba R. & S. Gas Company | BET-RO Inc | Assignment | 147/554 |
| BET-RO Inc | Roberts Energy Corporation | Assignment | 240/36 |
| Roberts Energy Corporation | Antero Resources Corporation | Assignment | 329/138 |
| <u>James Beck et al Lease</u> | | | |
| James Beck et al | George L Yaste dba Oil State Sales Company | 1/8 | 100/516 |
| George L Yaste dba Oil State Sales Company | DLY Inc | Assignment | 112/302 |
| DLY Inc | Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company | Assignment | 132/565 |
| Betty Jean Stalnaker & Rosalee Roberts dba R. & S. Gas Company | BET-RO Inc | Assignment | 147/554 |
| BET-RO Inc | Roberts Energy Corporation | Assignment | 240/36 |
| Roberts Energy Corporation | Antero Resources Corporation | Assignment | 329/138 |

03/04/2022

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>Edward Pierce Lease</u> | | | |
| Edward Pierce | Harry Haddox and Harrold Haddox | 1/8 | 101/350 |
| Harry Haddox and Harrold Haddox | George L Yaste dba Oil State Sales Company | Assignment | 105/112 |
| George L Yaste dba Oil State Sales Company | DLY Inc | Assignment | 112/302 |
| DLY Inc | Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company | Assignment | 132/565 |
| Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company | R.&S. Gas Company a partnership | Assignment | 147/548 |
| R.&S. Gas Company a partnership | BET-RO | Assignment | 147/554 |
| BET-RO Inc | Key Oil Company | Assignment | 226/382 |
| Key Oil Company | Antero Resources Appalachian Corporation | Assignment | 255/547 |
| Antero Resources Appalachian Corporation | Antero Resources Corporation | Name Change | 15/705 |
| <u>Mary J Britton et al Lease</u> | | | |
| Mary J Britton et al | W.H Mossor | 1/8 | 88/291 |
| W.H Mossor | BDL a partnership comprised of William R Mossor | Will | 16/154 |
| BDL a partnership comprised of William R Mossor | Term Energy Corporation | Assignment | 256/391 |
| Term Energy Corporation | Kiedash & Summers Enterprises LLC | Assignment | 263/827 |
| Kiedash & Summers Enterprises LLC | Antero Resources Appalachian Corporation | Assignment | 263/827 |
| Antero Resources Appalachian Corporation | Antero Resources Corporation | Name Change | 15/705 |
| <u>Charles Maxson Lease</u> | | | |
| Charles Maxson | Key Oil Company | 1/8 | 228/397 |
| Key Oil Company | Antero Resources Appalachian Corporation | Assignment | 258/509 |
| Antero Resources Appalachian Corporation | Antero Resources Corporation | Name Change | 15/705 |
| <u>Elizabeth E Britton Lease</u> | | | |
| Elizabeth E Britton | Pittsburgh & West Virginia Gas Co | 1/8 | 51/501 |
| Pittsburgh & West Virginia Gas Co | Equitable Gas Company | Assignment | 126/473 |
| Equitable Gas Company | Equitrans Inc | Assignment | 201/253 |
| Equitrans Inc | Equitable Production Eastern State Inc | Assignment | 234/830 |
| Equitable Production Eastern State Inc | Equitable Production Company | Assignment | WVSOS |
| Equitable Production Company | EQT Production Company | Assignment | 6/443 |
| EQT Production Company | Antero Resources Corporation | Assignment | 282/175 |
| <u>Darlene Boston Lease</u> | | | |
| Darlene Boston | Antero Resources Corporation | 1/8+ | 295/891 |
| <u>Bernice Haught et al Lease</u> | | | |
| Bernice Haught et al | L.E Mossor | 1/8 | 108/521 |
| L.E Mossor | Christine Mossor | Will | 217/843 |
| Christine Mossor | William R Mossor | Assignment | 246/479 |
| William R Mossor | Antero Resources Corporation | Assignment | 295/972 |

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03/04/2022

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>Clarence E. Bush et al Lease</u> | | | |
| Clarence E Bush et al | L E Mossor | 1/8 | 107/447 |
| L.E Mossor | Francis Friestad | Assignment | 148/326 |
| Francis Friestad | W.H Thomson | Assignment | 198/705 |
| W.H Thomson | BET-RO | Assignment | 222/426 |
| BET-RO | William K Stalnaker | Assignment | 227/461 |
| William K Stalnaker | Key Oil | Assignment | 254/1086 |
| Key Oil | Antero Resources Appalachian Corporation | Assignment | 255/22 |
| Antero Resources Appalachian Corporation | Antero Resources Corporation | Name Change | 15/705 |

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WW-6A1
(5/13)

Operator's Well No. Earl Unit 2H MOD

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Lease Name or
Elva Maxson et ux Lease

| | | | |
|--------------------------------|--------------------------------|-------------|---------|
| Elva Maxson et ux | Hope Natural Gas Company | 1/8 | 81/249 |
| Hope Natural Gas Company | Allegheny Land and Mineral | Assignment | 84/597 |
| Allegheny Land and Mineral | Plymouth Oil Company | Merger | 86/39 |
| Plymouth Oil Company | Allegheny Land and Mineral | Merger | 87/183 |
| Allegheny Land and Mineral | Alamo Inc | Name Change | WV SOS |
| Alamo Inc | Columbia Natural Resources LLC | Merger | 269/668 |
| Columbia Natural Resources LLC | Chesapeake Appalachia LLC | Merger | 8/296 |
| Chesapeake Appalachia LLC | SWN Production Company LLC | Assignment | 280/707 |
| SWN Production Company LLC | Antero Exchange Properties LLC | Assignment | 301/114 |
| Antero Exchange Properties LLC | Antero Resources Corporation | Merger | 14/598 |

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*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.

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: VP of Land



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Expedited Horizontal H6A Well Work Permit API: 47-085-10414, 10415, 10417)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Feb 2, 2022 at 7:13 AM

To: Mallory Stanton <mstanton@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, Scott Lemley <slemley@wvassessor.com>, "Harris, Bryan O" <bryan.o.harris@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

- 47-085-10414 - EARL UNIT 1H**
- 47-085-10415 - EARL UNIT 2H**
- 47-085-10417 - SANDY UNIT 1H**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

3 attachments

-  **47-085-10414 - Copy.pdf**
945K
-  **47-085-10415 - Copy.pdf**
942K
-  **47-085-10417 - Copy.pdf**
953K

03/04/2022