

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, July 15, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit Modification Approval for Harlan Unit 1H

47-103-03654-00-00

Lateral Extension/ Forced Pooling

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.

Operator's Well Number: Harlan Unit 1H

Farm Name: Dallison Lumber Inc.

U.S. WELL NUMBER: 47-103-03654-00-00

Horizontal 6A New Drill

Date Modification Issued: 7/15/2024

Promoting a healthy environment.

| API NO. 47- 103 | _ 03654 | / | |
|-------------------|------------|--------------------|---|
| OPERATOR W | ELL NO. | Harlan Unit 1H MOD | - |
| Well Pad Nan | ne: Galmis | sh Pad | |

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

| 1) Well Operator: Antero Resources Corporal 494507062 103 - Wetzel Green Pine Grove 7.5' |
|--|
| Operator ID County District Quadrangle |
| 2) Operator's Well Number: Harlan Unit 1H MOD Well Pad Name: Galmish Pad |
| 3) Farm Name/Surface Owner: Dallison Lumber Inc. Public Road Access: McKimmie Ridge Road |
| 4) Elevation, current ground: As-Built 1160.7 Elevation, proposed post-construction: |
| 5) Well Type (a) Gas X Oil Underground Storage |
| (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: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850# |
| 8) Proposed Total Vertical Depth: 7600' TVD / |
| 9) Formation at Total Vertical Depth: Marcellus |
| 10) Proposed Total Measured Depth: 25000' MD / |
| 11) Proposed Horizontal Leg Length: 15219' *Open to modification at a later date ' |
| 12) Approximate Fresh Water Strata Depths: 45', 130' |
| 13) Method to Determine Fresh Water Depths: 47103025550000 Offset well records. Depths have been adjusted according to surface elevation. 14) Approximate Saltwater Depths: 1961' |
| 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: RECEIVED |
| CK# 4032648 Seam: |
| \$ 7500° Owner: |
| WV Department of Environmental Protection |

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| API | NO. | 47- | 103 | - | 03654 |
|-----|-----|-----|-----|---|-------|

OPERATOR WELL NO. Harlan Unit 1H MOD Well Pad Name: Galmish Pad

18)

CASING AND TUBING PROGRAM

| ТҮРЕ | 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 | J-55 | 94# | 100' | 100' | CTS, 96 Cu. Ft. |
| Fresh Water | 13-3/8" | New | J-55 | 54.5# | 300' | 300' | CTS, 313 Cu. Ft. |
| Coal | 9-5/8" | New | J-55 | 36# | 3200' | 3200' | CTS, 1303 Cu. Ft. |
| Intermediate | | | | | | | |
| Production | 5-1/2" | New | P110-ICY | 23# | 25000' | 25000' | CTS, 5372 Cu. Ft. |
| Tubing | 2-3/8" | New | N-80 | 4.7# | | | |
| Liners | | | | | | | |

| ТҮРЕ | 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 | | | | | | | 52 - 2011 1 - 2000 |

PACKERS

| Kind: | N/A | |
|-------------|-----|-----------------------------------|
| Sizes: | N/A | |
| Depths Set: | N/A | RECEIVED Office of Oil and Gas |

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WV Department of Environmental Protection

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API NO. 47- 103 - 03654

OPERATOR WELL NO. Harlan Unit 1H MOD Well Pad Name: Galmish Pad

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): 64.40 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.53 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

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.

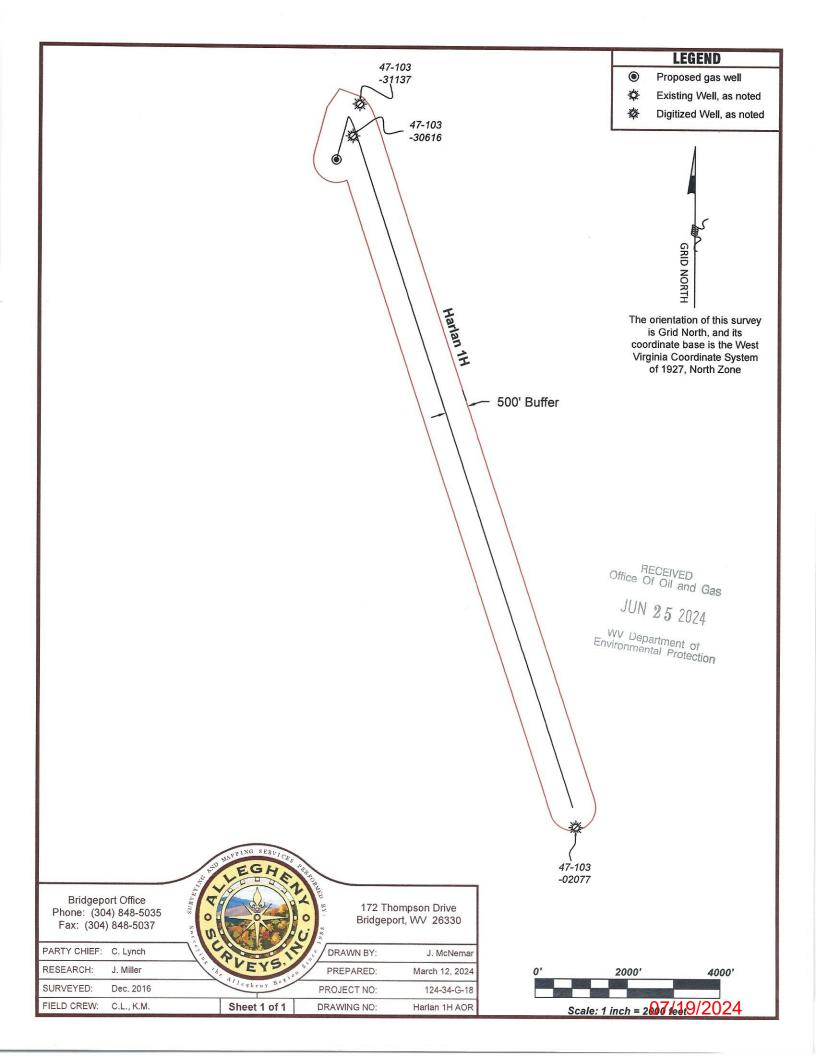
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

RECEIVED Office of Oil and Gas Page 3 of 3

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WV Department of **Environmental Protection**

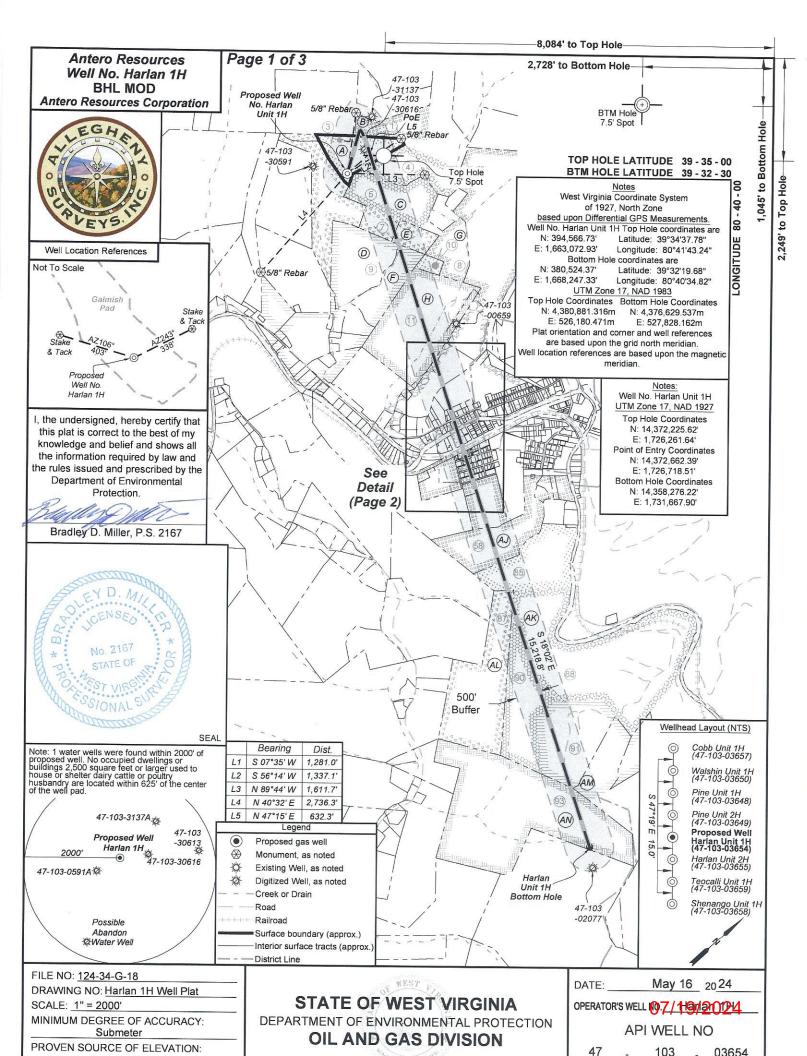


| // (APINum) | Well Name | Well Number | Operator | Historical Operator | ΩL | Perforated Interval (shallowest, deepest) | Perforated Formation(s) | Producible Formation(s) not nerf'd |
|-------------|--------------|-------------|----------|---------------------|-------|---|-------------------------|------------------------------------|
| 3306160000 | J W HAINES 1 | 4850 | UNKNOWN | UNKNOWN | 2,891 | | no | levander |
| 03311370000 | ISAAC SMITH | 6520 | UNKNOWN | UNKNOWN | | | 100 100 (45 | |
| 3020770000 | | | | | | | | |

RECEIVED
Office Of Oil and Gas

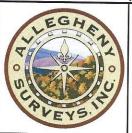
JUN 25 2024

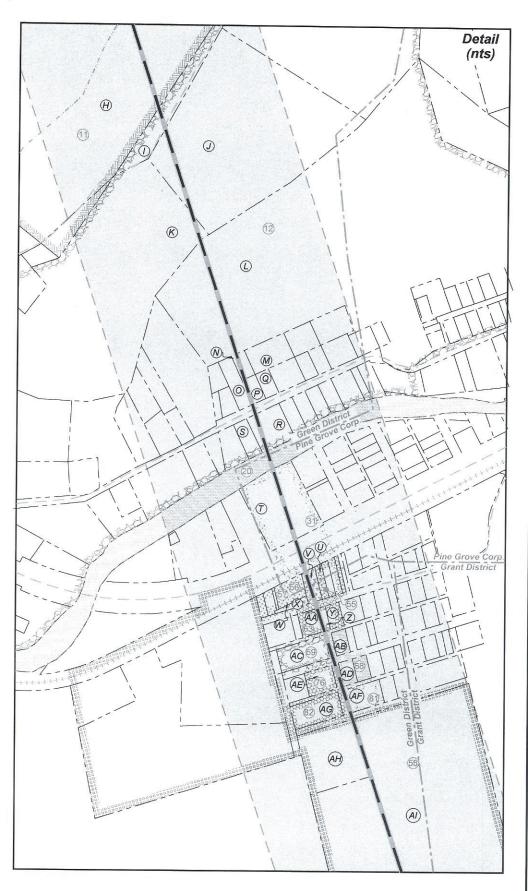
WV Department of Environmental Protection



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







FILE NO: 124-34-G-18

DRAWING NO: Harlan 1H Well Plat

SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:

Submeter
PROVEN SOURCE OF ELEVATION:

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

WEST P

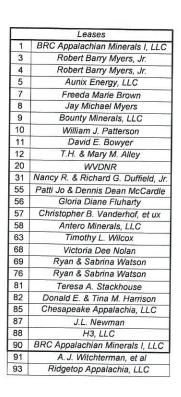
DATE: May 16 2024

OPERATOR'S WELL NO.7/19/19/19/19/19

103 - 03654

47





| ID | TM-Par | O WITCH | Bk/Pg | Acres |
|----|----------|--|----------|--------|
| Α | 14-9 | Dallison Lumber, Inc. | 474/290 | 25.00 |
| В | 14-10 | Sandra Jane Fortney | 446/700 | 61.78 |
| С | 14-12 | Freeda M. Brown | WB79/104 | 70.06 |
| D | 14-30.1 | Richard D. & Josielie V. Chapple | 310/327 | 44.75 |
| E | 14-11 | Freeda M. Brown | WB79/104 | 8.00 |
| F | 14-30.10 | Cynthia L. & Terry L. Adams | 347/706 | 20.67 |
| G | 14-15 | Freda M. Brown | WB79/104 | 33.00 |
| Н | 14-32 | Community Sportsman Club | 176/370 | 79.52 |
| 1 | 14-33.2 | Community Sportsman Club | 268/56 | 1.06 |
| J | 14-33.5 | Ronnie Lee & Debra Lee Robinson | 315/134 | 8.10 |
| K | 14-33.3 | Carlton G. & Barbara P. Norris | 285/193 | 12.32 |
| L | 14-40 | Larry D. & Melinda J. Kinkade | 285/577 | 25.63 |
| М | 4-3 | Rodney L. & Brenda K. Lasure | 403/20 | 0.43 |
| N | 4-2 | Lisa A. & Calvin R. Stackpole, Jr. | 344/34 | 0.43 |
| 0 | 4-12 | Rhonda Kay Spencer | 471/51 | 0.29 |
| Р | 4-13 | Lisa A. & Calvin R. Stackpole, Jr. | 344/34 | 0.14 |
| Q | 4-14 | Rodney L. & Brenda K. Lasure | 403/20 | 0.14 |
| R | 4-22 | John E. & Debra K. Hall | 285/736 | 0.55 |
| S | 4-21 | Carol J. McDougal | 291/136 | 0.23 |
| Т | 4-86 | Nancy R. & Richard G. Duffield, Jr. | 359/37 | 1.63 |
| U | 4-34 | Dennis D. & Patti McCardle | 426/766 | 0.10 |
| V | 4-33 | Phillip E. & Ralph Gainer | 392/593 | 0.19 |
| W | 4-32 | Christopher B. & Melinda S. Vanderhoff | 443/201 | 0.34 |
| X | 4-41 | Phillip E. & Ralph Gainer | 392/593 | 0.08 |
| Υ | 4-47 | Timothy L. Wilcox | 437/835 | 0.14 |
| Z | 4-90 | Timothy L. Wilcox | 437/835 | 0.07 |
| AA | 4-46 | Timothy L. Wilcox | 437/835 | 0.21 |
| AB | 4-56 | Robert D. Nolan | A104/64 | 0.14 |
| AC | 4-55 | Ryan & Sabrina Watson | 475/619 | 0.48 |
| AD | 4-65 | Robert D. Nolan | A104/64 | 0.14 |
| AE | 4-64 | Ryan & Sabrina Watson | 471/201 | 0.28 |
| AF | 4-76 | Teresa A. Stackhouse | 396/377 | 0.34 |
| AG | 4-75 | Donald Eugene & Tina Marie Harrison | 325/164 | 0.48 |
| AH | 18-11 | Donald E. & Tina M. Harrison | 320/404 | 1.50 |
| Al | 16-1 | Brian E. & Goldie M. Higgins | 398/578 | 23.50 |
| AJ | 16-2 | Robert D. & Nancy L. Streets | 219/100 | 33.70 |
| AK | 16-8 | Dominion Gathering & Processing, Inc. | 460/781 | 572.05 |
| AL | 18-3.1 | Dominion Gathering & Processing, Inc. | 460/781 | 150.00 |
| AM | 16-41 | Consolidated Gas Transmission Corp. | 302/113 | 25.00 |
| AN | 18-10 | Paul U. & Betty A. Garber Revocable Living Trust | 474/722 | 150.00 |

FILE NO: 124-34-G-18

DRAWING NO: Harlan 1H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:

Submeter

PROVEN SOURCE OF ELEVATION:

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

WEST P

May 16 20 24 DATE: ____

OPERATOR'S WELL 10.7/119/12/02/14

103 03654

API WELL NO

47

07/19/2024

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 |
|---|--|---|--|
| 3: Robert Barry Myers, Jr. Lease Robert Barry Myers, Jr. | Antero Resources Corporation | 1/8+ | 300A/0634 |
| 1: BRC Appalachian Minerals I, LLC Lease BRC Appalachian I, LLC BRC Working Interest Company Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties LLC | BRC Working Interest Company Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation | 1/8 Assignment Assignment Assignment Merge | 102A/0505 103A/0470 157A/0540 177A/0533 0013/0311 |
| 3: Robert Barry Myers, Jr. Lease Robert Barry Myers, Jr. | Antero Resources Corporation | 1/8+ | 300A/0634 |
| 4: Robert Barry Myers, Jr. Lease Robert Barry Myers, Jr. | Antero Resources Corporation | 1/8+ | 304A/0413 |
| 5: Aunix Energy, LLC Lease Aunix Energy, LLC | Antero Resources Corporation | 1/8+ | 305A/0014 |
| 7: Freeda Marie Brown Lease Freeda Marie Brown | Antero Resources Corporation | 1/8+ | 308A/0508 |
| 9: Bounty Minerals, LLC Lease Bounty Minerals, LLC | Antero Resources Corporation RECEIVED Office Of Oil and Gas | 1/8+ | 296A/0314 |
| 11: David E. Bowyer Lease David E. Bowyer | Antero Resources Corporation JUN 25 2024 | 1/8+ | 336A/0777 |
| T.H. & Mary M. Alley Lease T.H. & Mary M. Alley L.G. Robinson Tri-State Gas Company South Penn Oil Company Hope Natural Gas Company Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc. Equitable Production — Eastern States Inc. Equitable Production Company EQT Production Company | L.G. Robinson Tri-State Gas Company South Penn Oil Company Hope Natural Gas Company Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc. Equitable Production — Eastern States Inc. Equitable Production Company EQT Production Company Antero Resources Corporation | 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Name Change Name Change Name Change Name Change Assignment | 0048/0572 0059/0415 0073/0185 138A/0641 066A/0069 0013/0151 076A/0232 0013/0014 0013/0014 0013/0014 |
| ✓ 20: WVDNR Lease WVDNR | Antero Resources Corporation | 1/8+ | 323A/0541 |
| / 31: Nancy R. & Richard G. Duffield, Jr. Lease Nancy R. & Richard G. Duffield, Jr. | Antero Resources Corporation | 1/8+ | 330A/0499 |
| <u>56: Gloria Diane Fluharty Lease</u> Gloria Diane Fluharty | Antero Resources Corporation | 1/8+ | 352A/0821 |

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|---|--|---|---|
| 63: Timothy L. Wilcox Lease Timothy L. Wilcox | Antero Resources Corporation | 1/8+ | 327A/0188 |
| / <u>69: Ryan & Sabrina Watson Lease</u> Ryan & Sabrina Watson | Antero Resources Corporation | 1/8+ | 334A/0608 |
| / <u>68: Victoria Dee Nolan Lease</u> Victoria Dee Nolan | Antero Resources Corporation | 1/8+ | 345A/0156 |
| 76: Ryan & Sabrina Watson Lease Ryan & Sabrina Watson | Antero Resources Corporation | 1/8+ | 334A/0611 |
| / 82: Donald E. & Tina M. Harrison Lease Donald E. & Tina M. Harrison | Antero Resources Corporation | 1/8+ | 340A/0805 |
| / 81: Teresa A. Stackhouse Lease Teresa A. Stackhouse | Antero Resources Corporation | 1/8+ | 341A/0558 |
| 58: Antero Minerals, LLC Lease Antero Minerals, LLC | Antero Resources Corporation Office Of C | EIVED Oil and Gas 1/8+ | 292A/0795 |
| ✓ 85: Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC SWN Production Company LLC Antero Exchange Properties LLC | Antero Exchange Properties LLC Antero Resources Cornoration WV Department | 25 2024 1/8 Assignment artment of Merger | 157A/0634 177A/0533 0013/0311 |
| 87: J.L. Newman Lease J.L. Newman South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc Equitable Production - Eastern States Inc Equitable Production Company EQT Production Company | South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc Equitable Production - Eastern States Inc Equitable Production Company EQT Production Company Antero Resources Corporation | 1/8 Assignment Assignment Assignment Name Change Assignment Name Change Name Change Name Change | 0073/0459 002A/0299 0233/0387 066A/0069 0013/0151 076A/0232 0013/0014 0013/0014 230A/0801 |
| / 88: H3, LLC Lease H3, LLC | Antero Resources Corporation | 1/8+ | 347A/0174 |
| 90: BRC Appalachian Minerals I, LLC Lease BRC Appalachian Minerals I LLC BRC Working Interest Company Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties LLC | BRC Working Interest Company Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation | 1/8 Assignment Assignment Assignment Merge | 102A/0505 103A/0470 157A/0540 177A/0533 0013/0311 |

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| Grantor, lessor, etc. | Grantee, lessee, etc. | Royalty | Book/Page |
|---|---|---|--|
| A.J. Witcherman, et al Lease A.J. Wichterman et al Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc Equitable Production - Eastern States Inc Equitable Production Company EQT Production Company | Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc Equitable Production - Eastern States Inc Equitable Production Company EQT Production Company Antero Resources Corporation | 1/8 Assignment Assignment Merge Assignment Name Change Name Change Name Change Assignment | 0107/0420 0233/0387 066A/0069 0013/0151 076A/0232 0013/0014 0013/0014 230A/0801 |



^{*}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 – 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

/ 93: Ridgetop Appalachia, LLC Lease

Ridgetop Appalachia, LLC Antero Resources Corporation 1/8+ 304A/0061

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**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.

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: Its:

Max Green

Office Of Oil and Gas

Vice President of Land

JUN 25 2024

WV Department of Environmental Protection Page 4 of 4