

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

Friday, January 21, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for WABLE UNIT 2H 47-095-02781-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing easing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

ADIETMITCH

James A. Martin

Operator's Well Number: WABLE UNIT 2H
Farm Name: ROBERT D & VIRGINIA A Na

U.S. WELL NUMBER: 47-095-02781-00-00

Horizontal 6A New Drill Date Issued: 01/21/2022

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
 (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
 activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15) API NO. 47- 095 -- OPERATOR WELL NO. Wable Unit 2H Well Pad Name: Nalley Pad

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

| 1) Well Operator: Antero Resou | urces Corpora | 494507062 | 095 - Tyler | Lincoln | Paden City 7.5' |
|--|---------------------------------------|--|---------------------------------------|------------------------|-----------------------------------|
| 1) Well Operator. | | Operator ID | County | District | Quadrangle |
| 2) Operator's Well Number: Wat | ole Unit 2H | Well P | ad Name: Nalle | ey Pad 🗹 | |
| 3) Farm Name/Surface Owner: R | obert D. Nalley | et ux Public R | oad Access: W | /-18 Tyler | Highway |
| 4) Elevation, current ground: 9 | 72' EI | levation, propose | ed post-construct | ion: | |
| 5) Well Type (a) Gas X | Oil | Ur | nderground Stora | ige | |
| Other | | | | | |
| (b)If Gas Shall | - / | Deep | | | - |
| | zontal X | | | | |
| 6) Existing Pad: Yes or No Yes | - | | - | | |
| Proposed Target Formation(s), Marcellus Shale: 6600' TVD, An | Depth(s), Antic ticipated Thickne | cipated Thicknes ess- 55 feet, Asso | s and Expected : ociated Pressure- | Pressure(s): 2850#* | |
| 8) Proposed Total Vertical Depth | : 6600' TVD | • | | | |
| 9) Formation at Total Vertical De | * * * * * * * * * * * * * * * * * * * | | | | |
| 10) Proposed Total Measured De | pth: 24,600' | | | | |
| 11) Proposed Horizontal Leg Len | ngth: 15,018' | | | | |
| 12) Approximate Fresh Water Str | rata Depths: | 158' - | | | |
| 13) Method to Determine Fresh V | Water Depths: | 47-095-00912-0 | 0000 | | |
| 14) Approximate Saltwater Depth | | | | | |
| 15) Approximate Coal Seam Dep | oths: 483' · | | | | |
| 16) Approximate Depth to Possib | ole Void (coal m | nine, karst, other | None Anticip | ated | |
| 17) Does Proposed well location directly overlying or adjacent to | | nms Yes | N | lo X | |
| | | - | | | RECEIVED Office of Oil and Gas |
| (a) If Yes, provide Mine Info: | Name: | | | | DEC 2 0 2021 |
| | Seam: | | | | WV Department of |
| | Owner: | | | 15 | TVITORINSHIAL FACILITIES |

API NO. 47-095 . 0278

OPERATOR WELL NO. Weble Unit 2H
Well Pad Name: Nelley 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 | 79# | 80' | 80' - | CTS, 77 Cu. Ft. |
| Fresh Water | 13-3/8" | New | J/K-55 | 54.5# | 300' | 300' - | CTS, 313Cu. Ft. |
| Coal | 9-5/8" | New | J-/K55 | 36# | 2500' | 2500' - | CTS, 1018 Cu. Ft. |
| Intermediate | | | | | | | |
| Production | 5-1/2" | New | P-110CY | 20# | 24,600' | 24,600' ~ | CTS, 5271 Cu. Ft. |
| Tubing | 2-3/8" | New | N-80 | 4.7# | | | |
| Liners | | | | | | | |

Bryan Aari

| 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 | ~1.18 |
| Fresh Water | 13-3/8" | 17-1/2" | 0.38" | 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" | 8-3/4" & 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 | |

API NO. 47- 095 - 02781

OPERATOR WELL NO. Wable Unit 2H

Well Pad Name: Naley 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): 34.58 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 6.43 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 cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A 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.

| API Number | 47 | - | 095 | 2 | 0278 | |
|------------|----|-----|-----------|------|---------------------------|--|
| | | - 6 | *** ** ** | - 63 | The Party of the Party of | |

Operator's Well No. Wable Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name Antero Resources Corporation OI | P Code 494507062 |
|--|--|
| Watershed (HUC 10) Outlet Middle Island Creek Quadrangle Pad | |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed well v | |
| Will a pit be used? Yes No V | |
| If so, please describe anticipated pit waste: No pit was be used at this after (Onling and Flowback Flui | rids will be stored in tanks. Cuttings will be tanked and hauled off site.) |
| Will a synthetic liner be used in the pit? Yes No ✓ If so, v | what ml.? N/A |
| Proposed Disposal Method For Treated Pit Wastes: | |
| Land Application | |
| ■ Underground Injection (UIC Permit Number *UIC Permit # | will be provided on Form WR-34 |
| ■ Reuse (at API Number Future permitted well locations when applicable | e. API# will be provided on Form WR-34 |
| Off Site Disposal (Supply form WW-9 for disposal location Other (Explain | n) (Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025 |
| Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings r | removed offsite and taken to landfill. |
| Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, or | |
| -If oil based, what type? Synthetic, petroleum, etc. Synthetic | |
| Additives to be used in drilling medium? Please See Attachment | |
| Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings | s stored in tanks, removed offsite and taken to landfill. |
| -If left in pit and plan to solidify what medium will be used? (cement, lime, | |
| -Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), h | |
| | |
| Permittee shall provide written notice to the Office of Oil and Gas of any load of drill West Virginia solid waste facility. The notice shall be provided within 24 hours of rejewhere it was properly disposed. | |
| I certify that I understand and agree to the terms and conditions of the GENI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of E provisions of the permit are enforceable by law. Violations of any term or condition law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fa application form and all attachments thereto and that, based on my inquiry of tobtaining the information, I believe that the information is true, accurate, and compensatives for submitting false information, including the possibility of fine or imprison. Company Official Signature | Environmental Protection. I understand that the n of the general permit and/or other applicable uniliar with the information submitted on this those individuals immediately responsible for applete. I am aware that there are significant ament. |
| Company Official (Typed Name) Gretchen Kohler | RECEIVED Office of Oil and Gas |
| Company Official Title Director of Environmental & Regulatory Compliance | DEC 2 0 2021 |
| Company Official Title | |
| | WW Department of Environmental Protecti |
| Subscribed and sworn before me this 15th day of Que | , 2021 |
| Viane Blair | Notary Public DIANE BLAIR |
| My commission expires 27 Apr 2024 | NOTARY PUBLIC STATE OF COLORADO NOTARY ID 01/28/2022 MY COMMISSION EXPIRES 27-Apr-2024 |

| Proposed Revegetation Treatmen | t: Acres Disturbed 34.58 | Prevegetation pl | Н | |
|--|--|--|---------------------------------------|--|
| | Tons/acre or to correct to pH | 6.5 | | |
| Fertilizer type Hay or str | raw or Wood Fiber (will be used y | where needed) | | |
| Fertilizer amount 500 | lb | s/acre | | |
| Mulch 2-3 | Tons/a | | | |
| | | B (1.09) + Well Pad (6.43acres) + Spoil Pile 1 (3.) Acres | 33acres) + Topsoil (11.04acres) = 34, | |
| | Seed | Mixtures | | |
| Tempo | orary | Perm | anent | |
| Seed Type | lbs/acre | Seed Type | lbs/acre | |
| Annual Ryegrass | 40 | Crownvetch | 10-15 | |
| Field Bromegrass | 40 | Tall Fescue | 30 | |
| | | See attached Table IV-4A for additional seed type (Nallay Pad Design) | | |
| See attached Table IV-3 for additional s | seed type (Nalley Pad Design) | See attached Table IV-4A for addition | nal seed type (Nalley Pad Design | |
| *or type of grass seed reque Attach: Maps(s) of road, location, pit and provided). If water from the pit v acreage, of the land application a | d proposed area for land applicately be land applied, include discrea. | *or type of grass seed requation (unless engineered plans inclumensions (L x W x D) of the pit, an | nested by surface owner | |
| *or type of grass seed reque Attach: Maps(s) of road, location, pit and provided). If water from the pit w | d proposed area for land applic will be land applied, include di area. | *or type of grass seed requation (unless engineered plans inclu | nested by surface owner | |
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Form WW-9 Additives Attachment

SURFACE INTERVAL

- 1. Fresh Water
- 2. Soap -Foamer AC
- 3. Air

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Congor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets – LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose – Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

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Office of Oil and Gas

DEC 20 2021

WV Department of Environmental Protection

01/28/2022

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene – Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer – Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite – Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

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Office of Oil and Gas

DEC 20 2021

WV Department of Environmental Protection

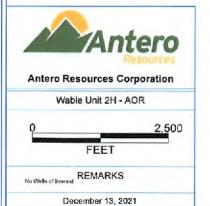


Wable Unit.

RECEIVED Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Protection



01/28/2022



911 Address 2983 Tyler Highway Sisterville, WV 26175

Well Site Safety Plan Antero Resources

Well Name:

Nalley Unit 5H

Began blum

Pad Location: NALLEY PAD

Tyler County/Lincoln District

GPS Coordinates:

Entrance - Lat 39.537176"/Long -80.956037" (NAD83) Pad Center - Lat 39.544550"/Long -80.954729" (NAD83)

Driving Directions: From Sistersville, WV Head south on WV-2/Chelsea street for 1 mile. Turn left onto WV-18 S/Tyler Highway and continue for 2.9 miles. Access road will be on left.

Alternate Route: From the Volunteer Fire Department in Middlebourne, WV-Head northeast on WV-18N/Mains St towards Sistersville, WV for 8.2 miles. The access road will be on your right.

EMERGENCY (24 HOUR) CONTACT 1-800-878-1373



Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

December 14, 2021

West Virginia Department of Environmental Protection Division of Water and Waste Management 601 57th Street SE Charleston, WV 25304

RE: Water Management Plan Updates

Nalley Pad (WMP #1840)

To Whom It May Concern:

Antero Resources (Antero) is submitting the enclosed updates to the Nalley Pad Water Management Plan (WMP) to the WV Department of Environmental Protection (DEP) Division of Water and Waste Management (DWWM). This WMP is being submitted for your review and approval in order to replace Antero's previously approved WMP.

Below are the changes made to the previous version of the Nalley WMP:

- · Updated Heaster Freshwater Impoundment to Heaster Centralized Waste Pit
- · Updated well pad sources for reused frac water.

Additionally, as part of Antero's recently completed stream profiling projects, the previously calculated passby thresholds have been updated at the following two (2) water withdrawals. Supporting documentation is provided in the enclosed WMPs.

- •Fishing Creek at Blair Revised passby threshold of 17.69 cfs at a stage height of 0.50 ft (on staff gauge)
- •Point Pleasant Creek at Reel Revised passby threshold of 1.95 cfs at a stage height of 1.47 ft (on staff gauge)

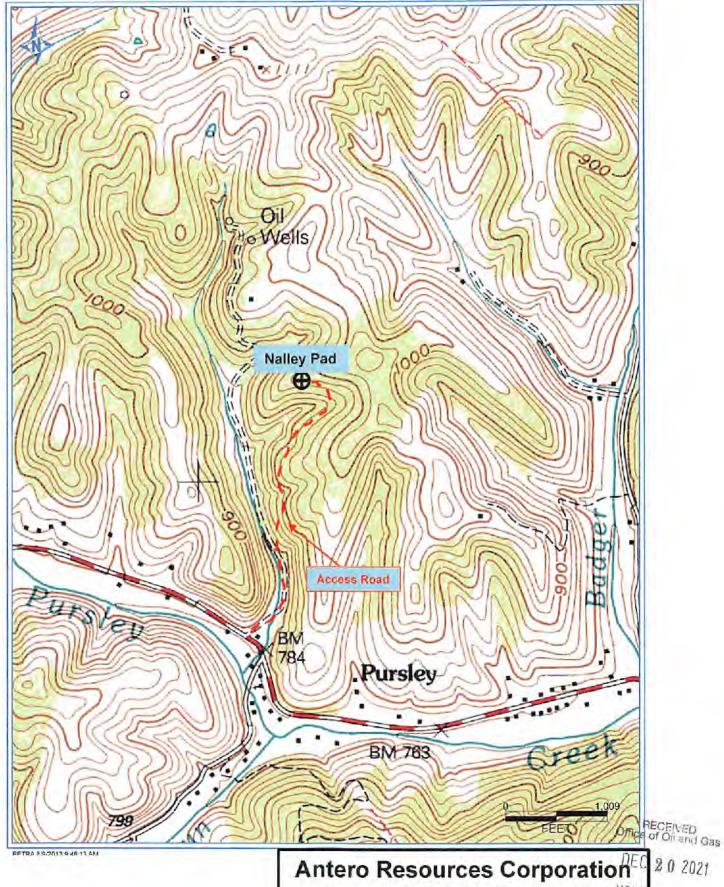
Should you have questions or require additional information, please contact me directly at (303) 357-6893 or via email at sdonovan@anteroresources.com. Your assistance in this matter is appreciated.

Respectfully,

Shawn Donovan

Environmental & Regulatory Manager

Enclosures



Appalachian Basin Nalley Pad Tyler County

Quadrangle: Paden City

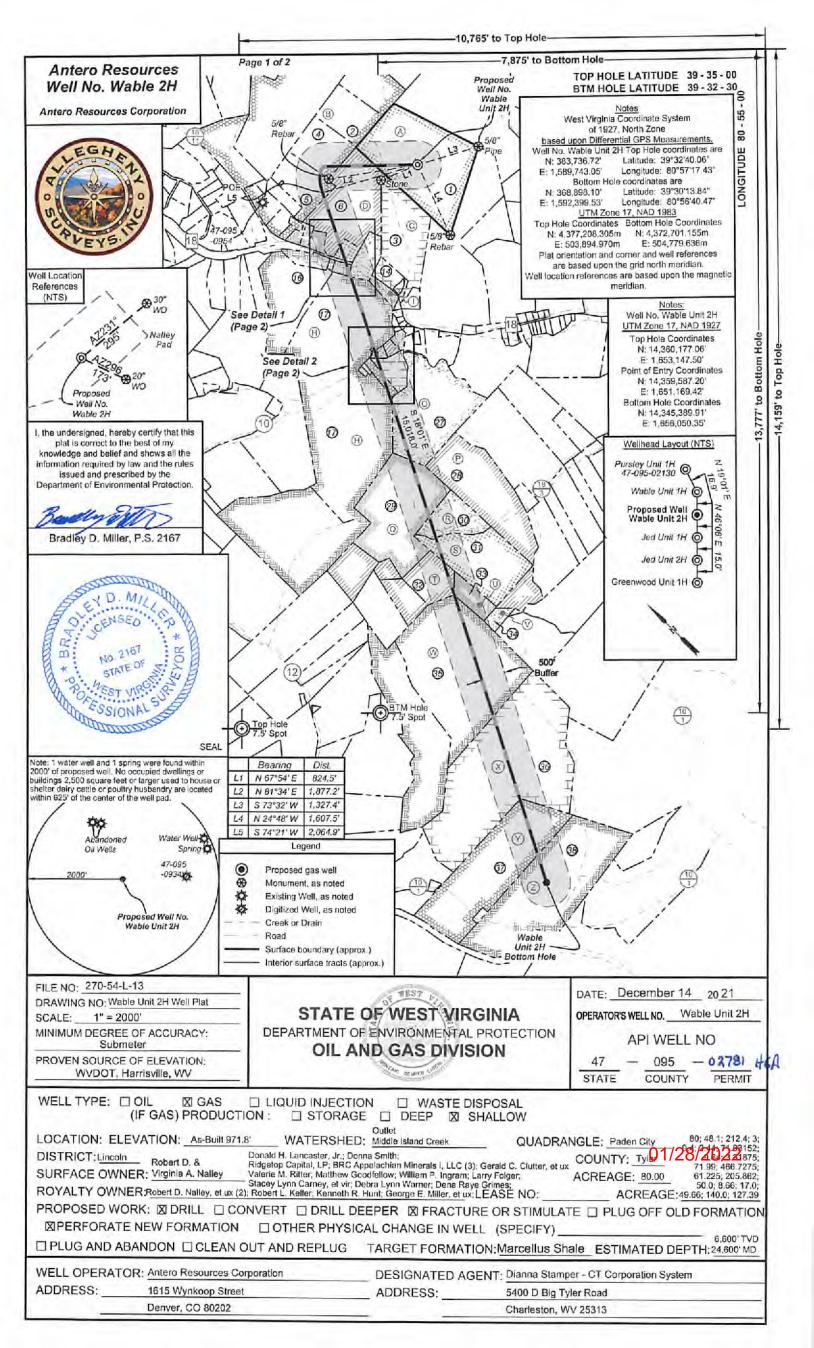
Watershed: Point Pleasant Creek

District: Lincoln Date: 6-22-2021

Environm

pariment of Intal Protection

01/28/2022



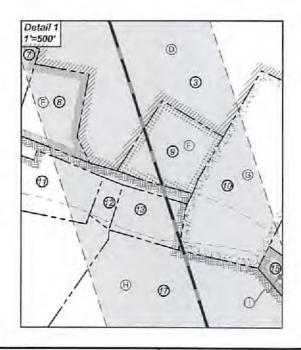
Antero Resources Well No. Wable 2H

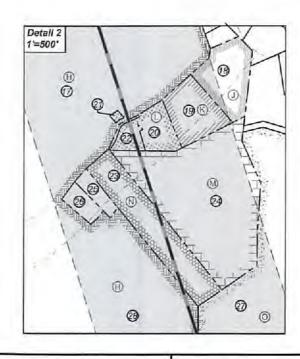
Antero Resources Corporation



| | Leases |
|---|---------------------------------|
| A | Robert D. Nalley, et ux |
| В | Robert L. Keller |
| C | Robert D. Nalley, et ux |
| D | Robert D. Nalley, et ux |
| Е | Robert D. Nalley, et ux |
| F | Kenneth R. Hunt |
| G | George E. Miller, et ux |
| Н | William P. Ingram |
| 1 | Warren C. Conklin, et ux |
| J | Lisa J. York |
| K | Donald L. Steward, et ux |
| L | Stacey Lynn Carney, et vir |
| M | Dena Raye Grimes |
| N | Valerie M. Ritter |
| 0 | Matthew Goodfellow |
| P | Leslie R. Tennant |
| Q | Larry Folger |
| R | BRC Appalachian Minerals I, LLC |
| S | BRC Appalachian Minerals I, LLC |
| T | Gerald C. Clutter, et ux |
| U | BRC Appalachian Minerals I, LLC |
| ٧ | Ridgetop Capital, LP |
| W | Ridgetop Capital, LP |
| X | Donald H. Lancaster, Jr. |
| Y | Debra Lynn Warner |
| Z | Donna Smith |

| ID | TM/Par | Owner | Bk/Pg | Acres |
|----|---------|---------------------------------|---------|--------|
| 1 | 8-54 | Robert D. & Virginia A. Nalley | 198/41 | 80.00 |
| 2 | 8-38.3 | Joann & Howard L. Schupbach Jr. | 467/383 | 21.17 |
| 3 | 12-13 | Robert D. & Virginia A. Nalley | 183/452 | 38.75 |
| 4 | 8-38.5 | Donald D. & Alice J. Haught | 300/583 | 21.17 |
| 5 | 8-38.6 | Joann & Howard L. Schupbach Jr. | 467/383 | 21.17 |
| 6 | 8-53 | Robert D. & Virginia A. Nalley | 200/53 | 48.10 |
| 7 | 12-7 | Robert D & Virginia Nalley | 285/385 | 2.04 |
| 8 | 12-8 | Robert D. & Virginia Nalley | 305/151 | 3.80 |
| 9 | 12-11 | Kenneth R. & Mary Joanne Hunt | 231/387 | 3.00 |
| 10 | 12-12 | George & Mary Jo Miller | 195/44 | 9.33 |
| 11 | 12-9.1 | WV DOT, Division of Highways | 332/271 | 6.00 |
| 12 | 12-10 | Joseph E. Miller | 373/702 | 0.88 |
| 13 | 12-9.2 | Joseph E. & Stephanie L. Miller | 422/765 | 2.12 |
| 14 | 12-14 | Robert D. Nalley | 393/662 | 7.35 |
| 15 | 12-28 | Warren C. & Erica N. Conklin | 400/261 | 3.75 |
| 16 | 12-9 | William P. & Joanne M. Ingram | 174/60 | 43.10 |
| 17 | 12-27 | William P. & Joanne Ingram | 156/175 | 183.16 |
| 18 | 12-32 | David R. & Nancy J. Goodfellow | 311/618 | 1.94 |
| 19 | 12-32.1 | Kay K. & Donald L. Steward | 311/676 | 1.66 |
| 20 | 12-31 | Stacey L. & Danny Carney | W53/701 | 0.98 |
| 21 | 12-29 | Pursley Curch of Christ | 510/662 | 0.06 |
| 22 | 12-30 | Pursley Curch of Christ | 510/662 | 0.50 |
| 23 | 12-37 | Valerie Marle Grimes | 379/35 | 3.32 |
| 24 | 12-38 | Dena Grimes | W35/150 | 9.64 |
| 25 | 12-36 | William A. & Tracy Fletcher | 227/51 | 0.46 |
| 26 | 12-27.1 | William & Tracy Fletcher | 379/501 | 0.50 |
| 27 | 12-39 | Stacey Carney, et al | W53/701 | 71.90 |
| 28 | 12-52 | Leslie Ray Tennant | 382/603 | 69.15 |
| 29 | 12-51 | Rickie Lee Littleton | 281/193 | 61.23 |
| 30 | 12-61 | Melinda A. King | 568/757 | 17.00 |
| 31 | 12-62 | Leslie Ray Tennant, et al | 282/305 | 50.00 |
| 32 | 12-60 | Gerald C. & Mary Lou Clutter | 286/350 | 17.50 |
| 33 | 12-63 | Melinda A. King | 568/757 | 8.56 |
| 34 | 12-64 | Ridgetop Capital, LP | 375/206 | 3.33 |
| 35 | 15-9 | Ridgetop Capital, LP | 375/206 | 120.00 |
| 36 | 15-13 | B. F., Ben H. & Ida M. Kile | 174/412 | 140.00 |
| 37 | 15-16 | Mary Ann Devine, et al | W36/282 | 81.67 |
| 38 | 15-17 | Earl & Donna Smith | 191/12 | 127.39 |





FILE NO: 270-54-L-13 DRAWING NO: Wable Unit 2H Well Plat SCALE: ____1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: December 14 20 21 OPERATOR'S WELL NO. Wable Unit 2H API WELL NO

47 - 095 - 0278/ HEA

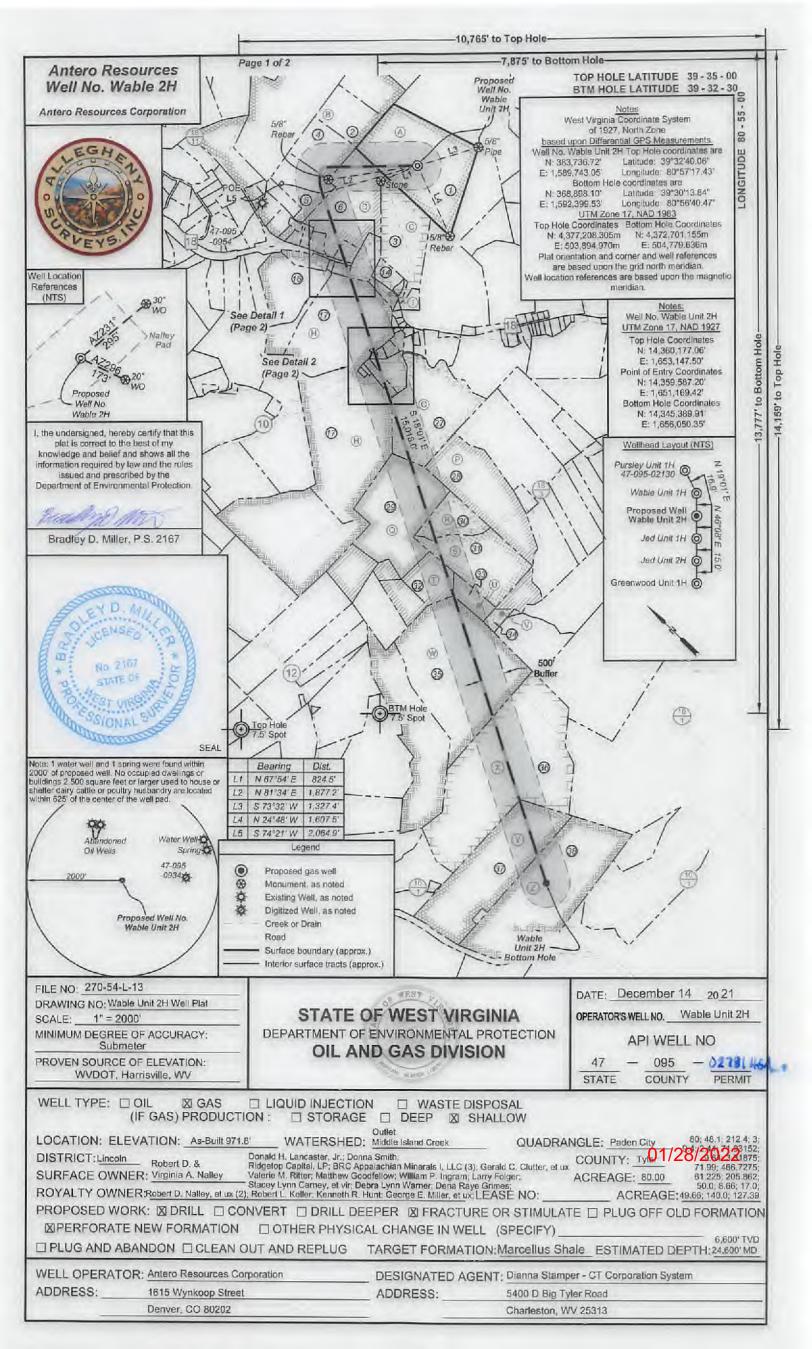
| WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAGE | |
|--|--|
| LOCATION: ELEVATION: As-Built 971.8' WATERSHED; | Outlet Middle Island Creek QUADRANGLE: Paden City 80; 48.1; 212.4; 3; 0.4 (24.7) 24; 24.73 23152; 0.4 (24.7) 24; 24.73 23152; |
| DISTRICT: Lincoln Robert D. & Donald H. Lancaster, Jr.; Donnald H. Lancaste | as Smith; palachian Minerals I, LLC (3); Gerald C. Clutter, et ux |
| | dfellow; William P. Ingram; Larry Folger; ACREAGE: 80.00 61.225; 205.862; bra Lynn Warner; Dena Raye Grimes; 50.0; 8.66; 17.0; 40.00 50.00 |
| | Hunt; George E. Miller, et ux; LEASÉ NO:ACREAGE: 49.66; 140.0; 127.39 EPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION |
| ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICA | AL CHANGE IN WELL (SPECIFY) |
| ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG | TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,600' MD |
| WELL OPERATOR: Antero Resources Corporation | DESIGNATED AGENT: Dianna Stamper - CT Corporation System |

ADDRESS: 1615 Wynkoop Street

Denver, CO 80202

_ ADDRESS: 5400 D Big Tyler Road

Charleston, WV 25313



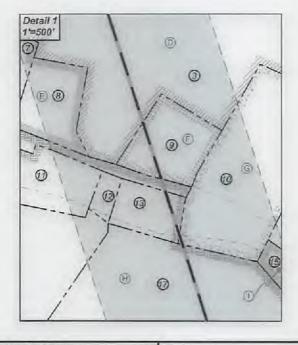
Antero Resources Well No. Wable 2H

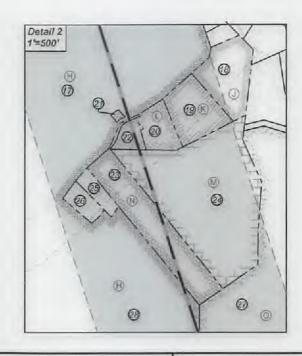
Antero Resources Corporation



| П | Leases |
|---|---------------------------------|
| A | Robert D. Nalley, et ux |
| В | Robert L. Keller |
| C | Robert D. Nalley, et ux |
| D | Robert D. Nalley, et ux |
| E | Robert D. Nalley, et ux |
| F | Kenneth R. Hunt |
| G | George E. Miller, et ux |
| H | William P. Ingram |
| 1 | Warren C. Conklin, et ux |
| J | Lisa J. York |
| K | Donald L. Steward, et ux |
| L | Stacey Lynn Carney, et vir |
| M | Dena Raye Grimes |
| N | Valerie M. Ritter |
| 0 | Matthew Goodfellow |
| P | Leslie R. Tennant |
| Q | Larry Folger |
| R | BRC Appalachian Minerals I, LLC |
| S | BRC Appalachian Minerals I, LLC |
| T | Gerald C. Clutter, et ux |
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| 6 | 8-53 | Robert D. & Virginia A. Nalley | 200/53 | 48.10 |
| 7 | 12-7 | Robert D & Virginia Nalley | 285/385 | 2.04 |
| 8 | 12-8 | Robert D. & Virginia Nalley | 305/151 | 3.80 |
| 9 | 12-11 | Kenneth R. & Mary Joanne Hunt | 231/387 | 3.00 |
| 10 | 12-12 | George & Mary Jo Miller | 195/44 | 9.33 |
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| 13 | 12-9.2 | Joseph E. & Stephanie L. Miller | 422/765 | 2.12 |
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| 15 | 12-28 | Warren C. & Erica N. Conklin | 400/261 | 3.75 |
| 16 | 12-9 | William P. & Joanne M. Ingram | 174/60 | 43.10 |
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| 18 | 12-32 | David R. & Nancy J. Goodfellow | 311/618 | 1.94 |
| 19 | 12-32.1 | Kay K. & Donald L. Steward | 311/676 | 1.66 |
| 20 | 12-31 | Stacey L. & Danny Carney | W53/701 | 0.98 |
| 21 | 12-29 | Pursley Curch of Christ | 510/662 | 0.06 |
| 22 | 12-30 | Pursley Curch of Christ | 510/662 | 0.50 |
| 23 | 12-37 | Valerie Marie Grimes | 379/35 | 3.32 |
| 24 | 12-38 | Dena Grimes | W35/150 | 9.64 |
| 25 | 12-36 | William A. & Tracy Fletcher | 227/51 | 0.46 |
| 26 | 12-27.1 | William & Tracy Fletcher | 379/501 | 0.50 |
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| 34 | 12-64 | Ridgetop Capital, LP | 375/206 | 3.33 |
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| 37 | 15-16 | Mary Ann Devine, et al | W36/282 | 81.67 |
| 38 | 15-17 | Earl & Donna Smith | 191/12 | 127.39 |





Charleston, WV 25313

FILE NO: 270-54-L-13

DRAWING NO: Wable Unit 2H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

WVDOT, Harrisville, WV

Denver, CO 80202

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

| WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTIO (IF GAS) PRODUCTION : ☐ STORAGE | | |
|--|--|--|
| DISTRICT: Lincoln Robert D. & Donald H. Lancaster, Jr.; Donrald H. Lancaste | palachian Minerals I, LLC (3); Gerall odfellow; William P. Ingram; Larry Fo bra Lynn Warner; Dena Raye Grime | olger: ACREAGE: 80.00 61.225; 205.862; es: 50.0; 8.66; 17.0; |
| PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DE ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSIC. ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG | | SPECIFY) 6.600' TVD |
| ET EGG / NIB / IE/ NIBON ET CELLIN GOT WIND WELL EGG | TARGET FORMATION. | VIGIOCIIGO OTIGIC LOTTIVIATED DEP TITI, 24,000 MIB |
| WELL OPERATOR: Antero Resources Corporation | DESIGNATED AGENT: | Dianna Stamper - CT Corporation System |
| ADDRESS: 1615 Wynkoop Street | ADDRESS: | 5400 D Big Tyler Road |

Operator's Well Number

Wable Unit 2H

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 |
|---|--|---|---|---|
| 4 | Robert D. Nalley et ux Lease Robert D. Nalley and Virginia A. Nalley husband and wife | Antero Resources Corporation | 1/8+ | 0134/0010 |
| P | Robert D. Nalley et ux Lease Robert D. Nalley and Virginia A. Nalley husband and wife | Antero Resources Corporation | 1/8+ | 0134/0010 |
| ъ | Robert L. Keller Lease Robert L. Keller single James T. Harkins Trustee in Bankruptcy of Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Antero Resources Appalachian Corporation | Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Antero Resources Appalachian Corporation Antero Resources Corporation | 1/8 Assignment Assignment Assignment Assignment | 0230/0379 0280/0521 0302/0109 0402/0303 0557/0430 |
| D | Robert D. Nalley et ux Lease Robert D. Nalley and Virginia A. Nalley husband and wife | Antero Resources Corporation | 1/8+ | 0134/0010 |
| ¥ | Kenneth R. Hunt Lease Kenneth R. Hunt | Antero Resources Corporation | 1/8+ | 0138/0010 |
| H | William P. Ingram Lease William P. Ingram | Antero Resources Corporation | 1/8+ | 0148/0145 |
| ß | George E. Miller, et ux Lease George E. Miller, et ux | Antero Resources Corporation | 1/8+ | 0639/0823 |
| H | William P. Ingram Lease William P. Ingram | Antero Resources Corporation | 1/8+ | 0148/0145 |
| L | Stacey Lynn Carney, et ux Lease Stacey Carney, et vir | Antero Resources Corporation | | EIVED Oil and Gate19/0651 |
| W | Dena Raye Grimes Lease Dena R. Grimes | Antero Resources Corporation | _ | 0 2021 octoologist of al Protection |
| Ŋ | Valerie M. Ritter Lease Valerie M. Ritter | Antero Resources Corporation | 1/8+ | 0133/0777 |
| H | William P. Ingram Lease William P. Ingram | Antero Resources Corporation | 1/8+ | 0148/0145 |

Wable Unit 2H

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| | Grantor, lessor, etc. | Grantee, lessee, etc. | Royalty | Book/Page |
|----|--|---|---|--------------|
| • | Matthew Condfellow Longo | | | |
| 0 | Matthew Goodfellow Lease Matthew Goodfellow | Antero Resources Corporation | 1/8+ | 0148/0167 |
| Q | <u>Larry Folger, et ux Lease</u> Larry Folger | Antero Resources Corporation | 1/8+ | 0122/0448 |
| | BRC Appalachian Mineral I, LLC Lease | | | |
| 0 | BRC Appalachian Mineral I, LLC | BRC Working Interest Company LLC | 1/8 | 0369/0300 |
| 60 | BRC Working Interest Company LLC | Chesapeake Appalachia LLC | Assignment | 0369/0784 |
| | Chesapeake Appalachia LLC | Statoil USA Onshore Properties Inc | Assignment | 0378/0764 |
| | Statoil USA Onshore Properties Inc | SWN Exchange Titleholder LLC | Assignment | 0470/0668 |
| | SWN Exchange Titleholder LLC | SWN Production Company LLC | Corp Book Merger | 0009/0404 |
| | SWN Production Company LLC | Antero Exchange Properties LLC | Assignment | 0544/0242 |
| | Antero Exchange Properties LLC | Antero Resources Corporation | Merger | 0552/0315 |
| | BRC Appalachian Mineral I, LLC Lease | | | |
| _ | BRC Appalachian Mineral I, LLC | BRC Working Interest Company LLC | 1/8 | 0369/0300 |
| 5 | BRC Working Interest Company LLC | Chesapeake Appalachia LLC | Assignment | 0369/0784 |
| | Chesapeake Appalachia LLC | Statoil USA Onshore Properties Inc | Assignment | 0378/0764 |
| | Statoil USA Onshore Properties Inc | SWN Exchange Titleholder LLC | Assignment | 0470/0668 |
| | SWN Exchange Titleholder LLC | SWN Production Company LLC | Corp Book Merger | 0009/0404 |
| | SWN Production Company LLC | Antero Exchange Properties LLC | Assignment | 0544/0242 |
| | Antero Exchange Properties LLC | Antero Resources Corporation | Merger | 0552/0315 |
| | - Gerald C. Clutter, et ux Lease | | | |
| 1 | Gerald C. Clutter, et ux | Antero Resources Corporation | 1/8+ | 0427/0632 |
| | BRC Appalachian Mineral I, LLC Lease | | | |
| v | BRC Appalachian Mineral I, LLC | BRC Working Interest Company LLC | 1/8 | 0369/0300 |
| v | BRC Working Interest Company LLC | Chesapeake Appalachia LLC | Assignment | 0369/0784 |
| | Chesapeake Appalachia LLC | Statoil USA Onshore Properties Inc | Assignment | 0378/0764 |
| | Statoil USA Onshore Properties Inc | SWN Exchange Titleholder LLC | Assignment | 0470/0668 |
| | SWN Exchange Titleholder LLC | SWN Production Company LLC | Corp Book Merger RECEIVED | 0009/0404 |
| | SWN Production Company LLC | Antero Exchange Properties LLC | Assignment Office of Oil and Gas | |
| | Antero Exchange Properties LLC | Antero Resources Corporation | Merger DEC 2 0 2021 | 0552/0315 |
| W | | Autora Boronara Comonation | | 0567/0332 |
| | Ridgetop Capital, LP | Antero Resources Corporation | WV Department of Environmental Protection | on 0337,0332 |
| Y | Donald H. Lancaster, Jr. Lease | | 410. | 0F0F /0617 |
| • | Donald H. Lancaster, Jr. | Antero Resources Corporation | 1/8+ | 0595/0617 |

Operator's Well Number

Wable Unit 2H

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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| | Grantor, lessor, etc. | Grantee, lessee, etc. | Royalty | Book/Page |
|----|---|------------------------------|---------|-----------|
| ١. | <u>Debra Lynn Warner Lease</u> Debra L. Warner | Antero Resources Corporation | 1/8+ | 0127/0334 |

*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.

RECEIVED
Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Protection

| Operator's Well No. | Wable Unit 2H |
|---------------------|---------------|
|---------------------|---------------|

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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| Lease Name or Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|----------------------|-----------------------|------------------------------|---------|-----------|
| 2 Donna Smith Lease | Donna Smith a widow | Antero Resources Corporation | 1/8+ | 0552/0608 |

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 Corpo | oration Office of Oil and Gas |
|----------------|------------------------|-------------------------------|
| By: | Tim Rady | DEC 20 2021 |
| Its: | VP of Land | W/ Department |
| | | Environmental Protection |

Page 1 of 1

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Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

December 15,2021

West Virginia Department of Environmental Protection Chief, Office of Oil and Gas Attn: Mr. James Martin 601 57th Street SE Charleston, WV 25304

RE: Wable Unit 1H & 2H-Nalley Pad

Quadrangle: Paden City 7.5'

Tyler County/Lincoln District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Wable Unit 1H & 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Wable Unit 1H & 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Adams Landman

Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Protection Date of Notice Certification: 12/14/2021

Notice has been given:

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

API No. 47- 095

Operator's Well No. Wable Unit 2H
Well Pad Name: Nalley Pad

| ••••• | tract of land as follows: | • | |
|---|---|---|--|
| State: | West Virginia | | 394.97m |
| County: | Tyler | Nortning: <u>4377</u> | 7208.31m |
| District: | Lincoln | | 18 Tyler Highway |
| Quadrangle: | Paden City 7.5' | Generally used farm name: Robe | ert D. Nalley et ux |
| Watershed: | Outlet Middle Island Creek | | |
| prescribed by it has provide information roof giving the requirements Virginia Code of this article | the secretary, shall be verified and sed the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall thave been completed by the applicant | | certification from the operator that (1) on (b), section ten of this article, the ement was deemed satisfied as a result of this article six-a; or (iii) the notice surface owner; and Pursuant to West the notice requirements of section ten |
| that the Ope | rator has properly served the require | perator has attached proof to this Notice Certified parties with the following: | OOG OFFICE USE |
| *PLEASE CH | ECK ALL THAT APPLY | | ONEY" |
| ☐ 1. NO | TICE OF SEISMIC ACTIVITY or | ■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED | |
| ☐ 2. NO | TICE OF ENTRY FOR PLAT SURV | VEY or <a> NO PLAT SURVEY WAS COND | DUCTED RECEIVED |
| ■ 3. NO | TICE OF INTENT TO DRILL or | ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or | NOT-REQUIRED |
| | | ☐ WRITTEN WAIVER BY SURFACE ((PLEASE ATTACH) | Office of Oil and Sa DEC 20 2021 |
| | TION OF BUANDIED OPERATION | | RECMAPEDARTMENT of Environmental Protect |
| ■ 4. NO | TICE OF PLANNED OPERATION | | |
| | BLIC NOTICE | | ☐ RECEIVED |

the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service,

the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Antero Resources Corporation Diana Diana Hoff By:

Sr. VP of Operations Its:

303-357-7310 Telephone:

1615 Wynkoop Street Address:

Denver, CO 80202

303-357-7315 Facsimile:

mstanton@anteroresources.com Email:

DIAMEABLAHAL NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 15th day of Que 2021.

27 Apr 7024 My Commission Expires

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory Oil and Gas Privacy Notice: duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Protection

WW-6A (9-13) API NO. 47 075 0 9 5 0 2 7 8 1

OPERATOR WELL NO. Wable Unit 2H

Well Pad Name: Nalley Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

| Noti | ice Time Requirem | ent: notice shall be provid | ed no later than | the filing date of permit application. | |
|---|--|--|--|--|--|
| | e of Notice: <u>12/1/5202</u> ice of: | Date Permit Applicati | on Filed: <u>12/15/</u> | 2021 | |
| V | PERMIT FOR AN | | | ROVAL FOR THE N IMPOUNDMENT OR PIT | |
| Deli | very method pursu | ıant to West Virginia Co | de § 22-6A-10(| b) | |
| | PERSONAL | ☐ REGISTERED | ✓ METHO | DD OF DELIVERY THAT REQUIRES A | |
| | SERVICE | MAIL | RECEI | PT OR SIGNATURE CONFIRMATION | |
| certi regis sedi: the s oil a desc oper mor well imp have prov prop sub: reco | ificate of approval for stered mail or by any ment control plan reconsurface of the tract or and gas leasehold being the cribed in the erosion arator or lessee, in the erosion state or lesses, if the surface oundment or pit as due a water well, spring wide water for consumptions of the sheriff reconsurface of | r the construction of an impresent the construction of an impresent of the method of delivery that required by section seven of the which the well is or is propaged and sediment control plan sure event the tract of land on we owners of record of the sure tract is to be used for the plescribed in section nine of the gor water supply source local mption by humans or domes wity is to take place. (c)(1) If the ction hold interests in the larguired to be maintained pursuo to the contrary, notice to a literature. | oundment or pit uires a receipt or a receipt | of the application, the applicant for a permit for any well as required by this article shall deliver, by personal server signature confirmation, copies of the application, the end well plat to each of the following persons: (1) The owners of record of the surface tract or tract the surface tract is to be used for roads or other land district to subsection (c), section seven of this article; (3) The opposed to be drilled is located [sic] is known to be underest overlying the oil and gas leasehold being developed action, enlargement, alteration, repair, removal or abandony surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well pad (6) The operator of any natural gas storage field within the tenants in common or other co-owners of interests design, article one, chapter eleven-a of this code. (2) Notwonotice to a landowner, unless the lien holder is the land to ovide the Well Site Safety Plan ("WSSP") to the surface as provided in section 15 of this rule. | erosion and vers of record of ets overlying the sturbance as e coal owner, erlain by one or by the proposed donment of any e applicant to which is used to which the cribed in scribed in the vithstanding any owner. W. Va. |
| | Application Notice | | S Plan Notice | ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE | |
| Na | me: Robert D. & Virgir | nia A. Nailey | _ | Name: NO DECLARATIONS ON RECORD WITH COUNTY | |
| Ad | dress: 2549 Tyler Highw Sistersville, WV 2 | | _ | Address: | |
| Na | me: | | - | COAL OPERATOR | |
| Ad | dress: | | _ | Name: NO DECLARATIONS ON RECORD WITH COUNTY | |
| _ | V D A OE OVAIED | R(s) (Road and/or Other Di | _ cturbance) | Address: | RECEIVED |
| | | | | WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, | Office of Oil and Gas |
| Ad | dress: | | - - | SPRING OR OTHER WATER SUPPLY SOURCE | DEC 20 2021 |
| | | | _ , | Name: NO WELLS WITHIN 1500' | |
| | | | | Address: | W Department of |
| Ad | urcss: | | - | OPERATOR OF ANY NATURAL GAS STORA | Invironmental Protection AGE FIELD |
| | SURFACE OWNER | R(s) (Impoundments or Pits | <u>s)</u> | Name: | |
| | | | | Address: | |
| Ad | Idress: | | _ _ | *Please attach additional forms if necessary | |

API NO. 47- 095 - 02781

OPERATOR WELL NO. Watile Unit 2H

Well Pad Name: Nalley Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a. the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Centre Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/obs-parad-gas/pages/default.aspx.

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Well Location Restrictions

Pursuant to W. Va, Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing of ection water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (c) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-095 - 02781

OPERATOR WELL NO. Wable Unit 2H

Well Pad Name: Nalley Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

OPERATOR WELL NO. Wable Unit 2H

Well Pad Name: Nalley Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Protection

API NO. 47- 095 OPERATOR WELL NO. Wable Unit 2H Well Pad Name: Nalley Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Diana Telephone: mstanton@anteroresources.com Email:

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 15th day of 10th 2021

Notary Public

My Commission Expires 27 Apr 2024

Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Protection

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ACTARY PUBLIC
STATE OF COLORADO
ADTARY ID 19394071871
MY COMMISSION EXPIRES 27-Apr-2024

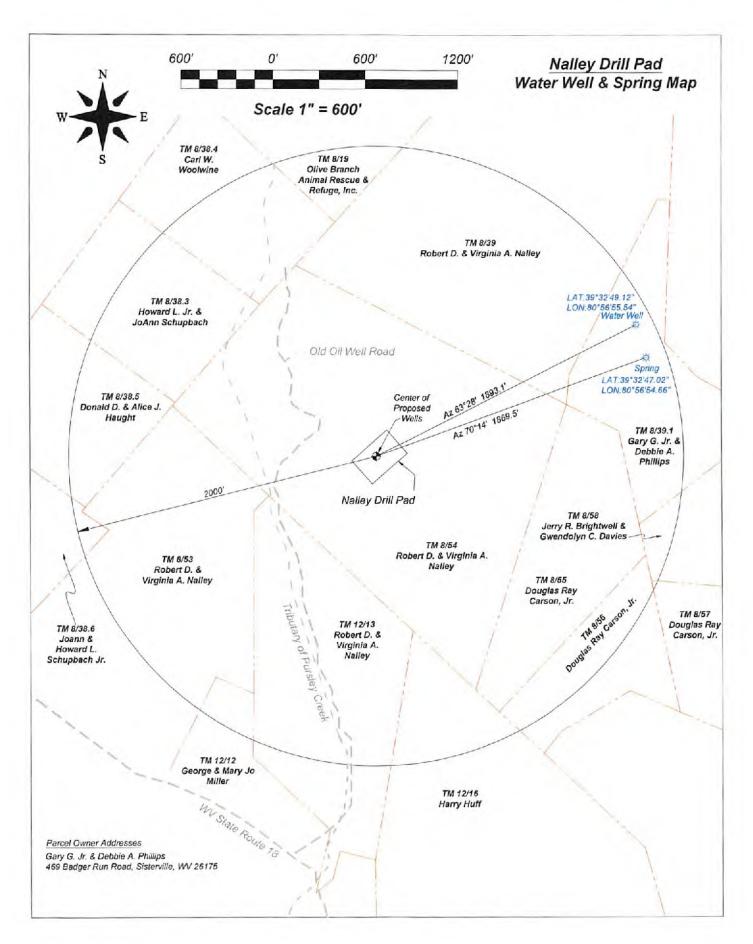
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WW-6A4 (1/12) Operator Well No. Wable Unit 2H
Nalley Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

| Date of Notice | 11/18/2021 | Date Permit Application Filed: 12/15/2021 | |
|---|---|--|--|
| Delivery meth | od pursuant to West Virg | inia Code § 22-6A-16(b) | |
| ☐ HAND | ■ CERTIFIED | мап | |
| DELIVE | | ECEIPT REQUESTED | |
| | | | |
| receipt request drilling a horiz of this subsect subsection ma | ed or hand delivery, give the contal well: <i>Provided</i> , That ion as of the date the notice by be waived in writing by the | It least ten days prior to filing a permit application, e surface owner notice of its intent to enter upon the notice given pursuant to subsection (a), section to was provided to the surface owner: <i>Provided</i> , how e surface owner. The notice, if required, shall include etronic mail address of the operator and the operator | ne surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number, |
| Notice is her | eby provided to the SU | REACE OWNER(s): | |
| | D. & Virginia A. Nalley | Name: | |
| Address: 2549 | | Address: | |
| | ville, WV 26175-9152 | | |
| State: County: District: Quadrangle: Watershed: | West Virginia Tyler Lincoln Paden City Outlet Middle Island Creek | UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: | 4377208.31m WV-18 (Tyler Hwy) Robert D. & Virginia A. Nalley |
| Pursuant to V facsimile num | ber and electronic mail ac | A-16(b), this notice shall include the name, add dress of the operator and the operator's authorization from the Secretary, at the WV Department of WV 25304 (304-926-0450) or by visiting www.d | of Environmental Protection headquarters, |
| Notice is her | reby given by: | | |
| | : Antero Resources Corporation | Authorized Representative | : Mallory Stanton |
| Address: | 1615 Wynkoop Street | Address: | 1615 Wynkoop Street |
| | Denver, CO 80202 | | Denver, CO 80202 Office of Ou and G |
| Telephone: | 303-357-7310 | Telephone: | 303-357-7310 |
| Email: | mstanton@anteroresources.co | m Email: | mstanton@anteroresources.com UEU 2 0 2021 |
| Facsimile: | 303-357-7315 | Facsimile: | 303-357-7315 |
| | | | Environmental Protect |
| Oil and Gas The Office of | Privacy Notice: Oil and Gas processes you | personal information, such as name, address and t | |

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

TM 8, PCL 54

WW-6A5 (1/12) Operator Well No. Wable Unit 2H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

| Date of Notic | Requirement: notice shall be proved: 12/15/2021 Date Pe | vided no later than the filing or rmit Application Filed: 12/15 | | application. |
|--|---|---|--|---|
| Delivery metl | nod pursuant to West Virginia (| Code § 22-6A-16(c) | | |
| ■ CERTIF | TED MAIL | ☐ HAND | | |
| | N RECEIPT REQUESTED | DELIVERY | | |
| return receipt the planned of required to be drilling of a had damages to the (d) The notice of notice. | requested or hand delivery, give to peration. The notice required by provided by subsection (b), section orizontal well; and (3) A propose e surface affected by oil and gas of s required by this section shall be | he surface owner whose land y this subsection shall includ on ten of this article to a surfa- sed surface use and compensa- perations to the extent the dar e given to the surface owner a | will be used for e: (1) A copy ce owner whose ation agreement mages are comp | eation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter, ted in the records of the sheriff at the time |
| (at the address | by provided to the SURFACE (listed in the records of the sherif tD. & Virginia A. Nalley | | | |
| Address: 2549 | | Address | | |
| | wille, WV 26175-9512 | Addiess | - | |
| operation on State: County: | the surface owner's land for the p West Virginia Tyler | urpose of drilling a horizontal UTM NAD 8: | Facting | ct of land as follows: 503894.97m 4377208.31m |
| District: | Lincoln | Public Road A | the second secon | WV-18 Tyler Highway |
| Quadrangle: | Paden City 7.5' | Generally use | | |
| | 7 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13 | | | Robert D, Nalley et ux |
| Watershed: | Outlet Middle Island Creek | | d fam fame. | Robert D. Nalley et ux |
| Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r | hall Include: Yest Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(t) Il; and (3) A proposed surface used by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE, | to a surface owner whose e and compensation agreement he extent the damages are co- be obtained from the Secret | A copy of this land will be a tontaining arompensable undary, at the WV | code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-double-code |
| Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def | chall Include: Vest Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(l) Il; and (3) A proposed surface use ed by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE, ault.aspx. | b) to a surface owner whose e and compensation agreement the extent the damages are con- be obtained from the Secret Charleston, WV 25304 (| A copy of this land will be not containing an ompensable undary, at the WV 304-926-0450) | code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a ar.d="" gaset"="" href="https://www.dep.wv.gov/oil-and-office-of-Oil ar.d Gas-office-of-Oil ar.d Gas-office-oil ar.d Gas-oil ar.d Gas-</td></tr><tr><td>Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def Well Operato</td><td>chall Include: Yest Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(l) ll; and (3) A proposed surface used by oil and gas operations to telated to horizontal drilling may located at 601 57<sup>th</sup> Street, SE, ault.aspx.</td><td> to a surface owner whose e and compensation agreement he extent the damages are co- be obtained from the Secret </td><td>A copy of this land will be a tontaining arompensable undary, at the WV 304-926-0450)</td><td>code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-office-of-Oil ar.d Gaset |
| Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def Well Operato Telephone: | chall Include: Yest Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(t) Il; and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE, ault.aspx. T: Antero Resources Corporation (303) 357-7310 | b) to a surface owner whose e and compensation agreement the extent the damages are con- be obtained from the Secret Charleston, WV 25304 (| A copy of this land will be not containing an ompensable undary, at the WV 304-926-0450) | code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a ar.d="" gaette="" href="https://www.dep.wv.gov/oil-and-office.of-Oil ar.d Gas-office.of-Oil ar.d Gas-office.</td></tr><tr><td>Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def Well Operato</td><td>chall Include: Yest Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(l) ll; and (3) A proposed surface used by oil and gas operations to telated to horizontal drilling may located at 601 57<sup>th</sup> Street, SE, ault.aspx.</td><td>n) to a surface owner whose e and compensation agreement he extent the damages are combe obtained from the Secret Charleston, WV 25304 (Address:</td><td>A copy of this land will be a structure to containing an ampensable undary, at the WV 304-926-0450) 1615 Wynkoop Stre Denver, CO 80202</td><td>code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href=" https:="" o<="" of="" oil="" oil-and-office-of-oil="" td="" www.dep.wv.gov=""> |

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

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|---------------------------|---------------|
| API NO. 47- 095 - | |
| OPERATOR WELL NO. | Wable Unit 2H |
| Well Pad Name: Nalley Pad | |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

| provisions lis WW-6A and | , hereby state that I have read the ted above, and that I have received copies of a No attachments consisting of pages one (1) through the well plat, all for proposed well work on the transport. | otice of Application, an, includict of land as follows: | Application for a Well Work Permit on Form ng the crosion and sediment control plan, if | | |
|---|--|---|--|--|--|
| State: | West Virginia | TM NAD 83 Easting | | | |
| County: | Tyler | Northi | ng: 4377208.31m | | |
| District: | | ublic Road Access: | WV-18 (Tyler Hwy) e: Robert D. Nalley et ux | | |
| Quadrangle: Watershed: | Paden City 7.5' Outlet Middle Island Creek | denerally used farm nam | e: Robert D. Nalley Brux | | |
| *Please check | k the box that applies | FOR EXEC | UTION BY A NATURAL PERSON | | |
| *Please check | k the box that applies | FOR EXEC | UTION BY A NATURAL PERSON | | |
| □ SURFA | CE OWNER | Signature: | | | |
| ☐ SURFACE OWNER (Road and/or Other Disturbance) | | Print Name: Date: | Print Name: Date: | | |
| □ SURFA | CE OWNER (Impoundments/Pits) | | CUTION BY A CORPORATION, ETC. | | |
| □ COAL C | OWNER OR LESSEE | Company:_ | | | |
| □ COAL C | OPERATOR | By: Its: | RECEIVED Office of O'll and Gas | | |
| □ WATER | R PURVEYOR | Signature: | DEC 2 0 2021 | | |
| □ OPERA | TOR OF ANY NATURAL GAS STORAGE | Datas | WV Department of | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

FRACTURING/STIMULATING INTERVAL

| | Additive | Chemical Abstract Service Number (CAS #) |
|-----|---|--|
| 1. | Fresh Water | 7732-18-5 |
| 2. | 2 Phosphobutane 1,2,4 tricarboxylic acid | 37971-36-1 |
| 3. | Ammonium Persulfate | 7727-54-0 |
| 4. | Anionic copolymer | Proprietary |
| 5. | Anionic polymer | Proprietary |
| 6. | BTEX Free Hydrotreated Heavy Naphtha | 64742-48-9 |
| 7. | Cellulase enzyme | (Proprietary) |
| 8. | Demulsifier Base | (Proprietary) |
| 9. | Ethoxylated alcohol blend | Mixture |
| 10 | Ethoxylated Nonylphenol | 68412-54-4 |
| 11. | Ethoxylated oleylamine | 26635-93-8 |
| 12. | Ethylene Glycol | 107-21-1 |
| 13. | Glycol Ethers | 111-76-2 |
| | Guar gum | 9000-30-0 |
| 15. | Hydrogen Chloride | 7647-01-0 |
| 16. | Hydrotreated light distillates, non-aromatic, BTEX free | 64742-47-8 |
| 17. | Isopropyl alcohol | 67-63-0 |
| 18. | Liquid, 2,2-dibromo-3- nitrilopropionamide | 10222-01-2 |
| 19 | Microparticle | Proprietary |
| 20. | Petroleum Distillates (BTEX Below Detect) | 64742-47-8 |
| 21. | Polyacrylamide | 57-55-6 |
| 22. | Propargyl Alcohol | 107-19-7 |
| | Propylene Glycol | 57-55-6 |
| | Quartz | 14808-60-7 |
| | Sillica crystalline quartz | 7631-86-9 |
| | Sodium Chloride | 7647-14-5 |
| - | Sodium Hydroxide | 1310-73-2 |
| | Sugar | 57-50-1 |
| | Surfactant | 68439-51-0 |
| | Suspending agent (solid) | 14808-60-7 |
| | Tar bases, quinolone derivs, benzyl chloride-quarternized | |
| | Solvent Naptha, petroleum, heavy aliph | 64742-96-7 |
| | Soybean Oil, Me ester | 67784-80-9 |
| | Copolymer of Maleic and Acrylic Acid | 52255-49-9 |
| | DETA Phosphonate | 15827-60-8 |
| | Hexamythylene Triamine Penta | 34690-00-1 |
| | • • | 71050-62-9 |
| | Phosphino Carboxylic acid polymer | |
| | Hexamethylene diamine penta | 23605-74-5 |
| | 2-Propenoic acid, polymer with 2 propenamide | 9003-06-9 |
| | Hexamethylene diamine penta (methylene phosphonic a | • |
| | Diethylene Glycol | 111-46-6 |
| | Methenamine | 100-97-0 |
| | Polyethylene polyamine | 68603-67-8 |
| | Coco amine | 61791-14-8 |
| 45. | 2-Propyn-1-olcompound with methyloxirane | 38172-91-7 |



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

D. Alan Reed, P.E. State Highway Engineer

December 13, 2021

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Nalley Pad, Tyler County Jed Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0438 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off WV 18 in Tyler County MP 26.86.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

There & Clayton

Regional Maintenance Engineer

Central Office O&G Coordinator

Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Proceedion

Cc: Mallory Stanton

Antero Resources Corporation

CH, OM, D-6

File

LOCATION COORDINATES
ACCUSS FROM "A" ENTRANCE
LITTURE 34 466660 LOWITTURE -00.953870 RAG UT)
LATTURE 34 456600 LOWITTURE -00.953870 RAG UT)
A 4377500 IN E SCOREZE (UTM MORRIT METERS)

ACTESS BOAD 'N' ENTRANCE LATITUDE 39 ABSTOS LONGITUDE -00.964646 (BAD 53) LATITUDE 39 ABSTOS LONGITUDE -00.964810 (BAD 57) A ATTESTS 64 E 807890AU (UTS ZUNE) METERS)

CENTER OF TANK
LATITUDE 29.49747 LONGITUDE -00.505070 (AMI 63)
ANTIQUE 29.499350 LONGITUDE -60.5060740 (AMI 67)
N 497(505.5E E 502777.40 (HTM 2008.17 MITTER)

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PROJECT CONTACTS:

OPERATOR:
ANTERO RESUDECES CORPORATION
035 WHITE OAKS BLVD.
BREGGEORE, BV 36000

FIL WAGONER - ENVIRONMENTAL ENGINEER & MILLULATURY MANAGER
OTTICK (204) 045-4000 CELL (204) 876-8770

FOR MEDIERS - DIRECTOR COMPLETIONS OFERFICING OFFICE (200) 207-5759 CELL (200) 808-2423

AMON SUNMAND CONSTRUCTION MANAGEM PHONE (304) 642-5191

POBERT WITHE - DESIGN MANAGEN DPPICE: (201) 842 AUG CELL (201) 827-7492

CHARLES E. COMPTON, IN - WITH-TY CHORUSEATES. CELL (2004) 719-0449

APPROVED

MODIFICATION

WYDEP DOG

2/11/2020

DAVID PATRY - LAND AGENT

ENGINEER SURVEYOR
NAVITOS ENGINEERING, DO
CORDS & KIMP, PF - PROJECT MANAGER/ENGINEER
OFFICE (SOA) (NEC-MINE CIELL (SAA) NEG-SYAT

ENVIRONMENTAL SINGLIFATE DEC RAN J MALDONADO - ENVIRONMENTAL ESFERALIST OFFICE (412) 838-1003 CELE (270) 778-8760

GEOTECHNICAL:

PENNSTEVANIA BOIL & POCK, INC.
CURSISTOPHIC W SAMOO - PROJECT ENGINEER
OFFICE (412) 372-4600 CELL (412) 580-0002

REPRODUCTION NOTE

THE WAR WAY DECEMBED AND THE PLATTED ON SELECTION AND THE

APPEAR OF THE PARTY OF THE PART

ELDON WELL PAD & WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

ELLSWORTH DISTRICT, TYLER COUNTY, WV BUFFALO RUN-MIDDLE ISLAND CREEK WATERSHED

USGS 7.5 MIDDLEBOURNE, & PADEN CITY QUAD MAPS



WEST VIRGINIA COUNTY MAP



THE TO SEALCH



WYDOH COUNTY ROAD MAP

DESIGN CERTIFICATION

BUT DEADWAY CONSTRUCTION MOTES, AND

SESTIMATED AND DESIGNATION THE SESTIMATED SESTIMATED THE SESTIMATED THE SESTIMATED THE SESTIMATED SESTIMATED SESTIMATED THE SESTIMATED SESSIMATED SESTIMATED SESSIMATED SESS

MISS Utility of West Virginia 1:800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!

COPER MEET

CONSERVATION AND LAW CONTROL HOTES

LIDSTON

HATERIAL QUANTITIES

STORE COMPUTATIONS & EAST COMPUTATIONS

STORED COMPUTATIONS & EAST COMPUTATIONS

STORED CONTROL THE THREE & VOLUMES

10 - ACCESS FOAD PLAN

12 - WELL PAR & GRADON PLAN

13 - WELL PAR EARD PROMISES

14 - ACCESS FOAD PLAN

15 - ACCESS FOAD PROMISES

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| Total Site | |
|---|-------|
| Actiess Road "A" (2.353") | 7.25 |
| Access Road "B" (1477) | 5.21 |
| Staging Area | 0.83 |
| Well Pard | 12.60 |
| is rose of Toppool (Astronal Stockprine | 9.97 |
| Total Affected Area | 35.0 |
| Total Vilroded Agree Disturced | 4.02 |
| hopachi le Elder J. Hidman TM 13 | -10 |
| Access Road "A" (1,635) | 5.00 |
| Access Road "B" (1 477") | 2.75 |
| Staging Area | 0.63 |
| Except Topsoi Mahasi Steaphra | 5.75 |
| Fetal Affected Area | 19.33 |
| Total Whodel Asses Disturbed | 1.75 |
| frapacts to Eldon A He man TM 5 | 45 |
| Access Road "B" | 1 96 |
| Total Affected Area | 1.98 |
| Yotal Wijoded Ages Dishated | 0.11 |
| Impacts to Effort J. Helman TM 4 | 2-1 |
| Attent Road "A" (718') | 225 |
| Access Road "B" | 0.48 |
| Wes Pnd | 12.60 |
| Excess/Topsoil Maintel Stoophin | 7.30 |
| Tetal Affected Area | 22.7 |
| Total Wooded Acres Disturbed | 2.13 |

| ELDON WETLAND IMPACT (SQUARE FEET) | | | | | |
|------------------------------------|---------|----------------------|----------------------|--|--|
| Wedland and Impact Cause | fm (SF) | Total Impact (SF) | Total Impact (AC) | | |
| Welland 7 (PEW) (Access Road) | 493 | 493 | 9.01 | | |
| Windows 2 (PSS) (Access Road) | 1.873 | 1,573 | 0.04 | | |
| Watered 4 (PEM) (Access Rand) | 1,900 | 1,990 | 0.04 | | |

| A STATE OF THE PARTY OF THE PAR | Permanent Especie | | Temp. Impacts | Ferma Distorts. | Total impact |
|--|-------------------|-----------------|---------------|-----------------|--------------|
| Eymme and Impact Cause | | Structures (LF) | Controls (LF) | LDD.(LF) | (LP) |
| Stream 12 (Access Road) | 56 | 11 | D | 0 | 37 |
| Steam 13 (Access Road) | 38 | 15 | 15 | 17 | 58 |
| Stream 14 (Access Road) | 45 | 14 | D | - 5 | 56 |

| I tream and impact Chara | | | Controls (I.F) | | (LF) |
|--|------------------------------|----|-------------------|----------------|---------------|
| Stream 10 (Acobes Road) | 275 | 15 | 25 | g | 315 |
| EUD | ON EPHEME | | PACTILINGANT | | |
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| Well Horse | HETET . | NAO IL TRIETONE | Dam II | MALE IS CIT & Long |
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| Extorado | N 340145.21 | AT 18-29-35 (754 | A 4371328 41 | NATIONAL PROPERTY. |
| Unit 1H | SI CHESTER DA | FFTTI #C TAY ON - CANCE | 6 SERVE 20 | 1,000 4047 37 4078 |
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PAD

ELDON WATER CONTAINMENT PARTER DISTRICT COVER SHEET

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