

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, August 23, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for GRIBBEN UNIT 2H

47-103-03427-00-00

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 casing. 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.

James A. Martin

Chief

Operator's Well Number: GRIBBEN UNIT 2H

Farm Name: DALLISON LUMBER, INC.

U.S. WELL NUMBER: 47-103-03427-00-00

Horizontal 6A New Drill Date Issued: 8/23/2021

| API Number: |
|-------------|
| API Number: |

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

- 1. 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.

| API Number: | |
|-------------|--|
| | |

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.

API NO. 47-103

OPERATOR WELL NO. Gribben Unit 2H

Well Pad Name: Dogwood Pad

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

| Well Operator: Antero Resources Corporal 494507062 103-Wetzel Green Pine Grove 7. | 5'/ |
|--|-----|
| Operator ID County District Quadrangle | |
| Operator's Well Number: Gribben Unit 2H / Well Pad Name: Dogwood Pad / | |
| Farm Name/Surface Owner: Dallison Lumber Inc. Public Road Access: CO. Route 50 | |
| Elevation, current ground: 1308' Elevation, proposed post-construction: | |
| Other Oil Oil Underground Storage | |
| (b)If Gas Shallow X Deep | |
| Horizontal X Existing Pad: Yes or No Yes RECEIVED Office of Oil and Gas | |
| Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s).21 Marcellus Shale: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure 2800# | |
|) Proposed Total Vertical Depth: 7600' TVD 7 | |
|) Formation at Total Vertical Depth: Marcellus | |
| 0) Proposed Total Measured Depth: 20800' MD - | |
| 1) Proposed Horizontal Leg Length: 11463' | |
| 2) Approximate Fresh Water Strata Depths: 539' | |
| 3) Method to Determine Fresh Water Depths: 47-095-30941 | |
| 4) Approximate Saltwater Depths: 2341' | |
| 5) Approximate Coal Seam Depths: 815' | |
| 6) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated | |
| 7) Does Proposed well location contain coal seams irectly overlying or adjacent to an active mine? Yes No _X | |
| (a) If Yes, provide Mine Info: Name: | |
| Depth: | |
| Seam: | |
| Owner: | |

WW-6B (04/15) API NO. 47- 103 - 03427

OPERATOR WELL NO. Gribben Unit 2H

Well Pad Name: Dogwood Pad

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|--------------|-------------------|-------|---------------------------|-------------------------------|------------------------------------|-------------------------------------|
| Conductor | 20" | New | H-40 | 94# | 80 | 80 | CTS, 77 Cu. Ft. |
| Fresh Water | 13-3/8" | New | J-55 | 54.5# | 590 *see #19 | 590 *see #19 | CTS, 818 Cu. Ft. |
| Coal | 9-5/8" | New | J-55 | 36# | 2500 | 2500 | CTS, 1018 Cu. Ft. |
| Intermediate | | | | | | | |
| Production | 5-1/2" | New | P-110 | 23# | 20800 | 20800 | 5312 Cu. Ft |
| Tubing | 2-3/8" | New | N-80 | 4.7# | | | |
| Liners | | | | | | | |

Buy turn 7-20-21

| ТҮРЕ | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|---------------------------|---------------------------|-------------------------|--|---------------------|--------------------------|
| Conductor | 20" | 24" | 0.438" | 1530 | 50 | Class A | |
| 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 | |
| Intermediate | | | · · · · · · | | | | |
| Production | 5-1/2" | 8-3/4" & 8-1/2" | 0.415" | 12,630 | 2500 | Lood-HPQZ & Ta9 - H | H/POZ-1.44 & 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 | | |

Office of Oil and Gas

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Environmental Protection 08/27/2021

WW-6B (10/14)

API NO. 47712 0303427

OPERATOR WELL NO. Gribben Unit 2H

Well Pad Name: Dogwood Pad

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

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

*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): 35.96

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

Office of Oil and Gas

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 Protection

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 - 103 - 0342

Operator's Well No. Gribben 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 | OP Code 494507062 |
|--|--|
| Watershed (HUC 10) Fishing Creek | Quadrangle Pine Grove 7.5' |
| Do you anticipate using more than 5,000 bbls of water to comp | elete the proposed well work? Yes V No No |
| Will a pit be used? Yes No V | |
| If so, please describe anticipated pit waste: No pit will be u | used at this site (Drilling and Flowback Fluids 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, what ml.? N/A |
| Proposed Disposal Method For Treated Pit Wastes: | |
| Land Application | |
| | it Number_*UIC Permit # will be provided on Form WR-34 |
| | ad well locations when applicable. API# will be provided on Form WR-34 V-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) |
| Other (Explain_ | Northwestern Landfill Permit #SWF-1032-961 WV0109410 |
| Will closed loop system be used? If so, describe: Yes, fluids s | stored in tanks, cuttings removed offsite and taken to landfill. |
| Drilling medium anticipated for this well (vertical and horizont | Surface - Air/Freshwater, Intermediate - |
| -If oil based, what type? Synthetic, petroleum, etc. S | Offer Piece |
| | JIII and o |
| Additives to be used in drilling medium? Please See Attachmen | 2 200 |
| Drill cuttings disposal method? Leave in pit, landfill, removed | offsite, etc. Drill cuttings stored in tanken embled offsite and taken to landfill. |
| | Clery |
| -Landfill or offsite name/permit number?Meadowfill La | andfill (Permit #SWF-1032-98), Northwestern Lendfill (Permit # SWF-1025/WVD109410) |
| | Gas of any load of drill cuttings or associated waste rejected at any distribution within 24 hours of rejection and the permittee shall also disclose |
| on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, base obtaining the information, I believe that the information is penalties for submitting false information, including the possible penalties. | conditions of the GENERAL WATER POLLUTION PERMIT issued firginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this and on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant polity of fine or imprisonment. |
| Company Official Signature Gretchen Kohler | |
| Company Official (Typed Name) Gretchen Kohler | |
| Company Official Title Director, Environmental and Regulatory | Compliance |
| Subscribed and sworn before me this St day of day of | July , 20 21 Notary Public |
| My commission expires July 23, 202 | ALEXANDRIA CASTILLO NOTARY PUBLIC STATE OF SOLUPIADO NOTARIO OLIVINATION OF SOLUPIADO NOTARIO OLIVINATION OLIVINATIONA OLIVI |

| Form WW-9 | | Operator's V | Well No. Gribben Unit 2H |
|--|---|---|----------------------------------|
| Antero Resources Cor | poration | | |
| Proposed Revegetation Treatmen | | | н |
| Lime <u>2-4</u> | Tons/acre or to correct to pH | 6.5 | |
| Fertilizer type Hay or s | raw or Wood Fiber (will be used y | vhere needed) | |
| Fertilizer amount 500 | lb: | s/acre | |
| Mulch 2-3 | Tons/a | cre | |
| Well Pad Construction | on (15.40acres) + Access Road Construction Total D | (9.89 seres) + Topsoil Stockpile (5.97 seres) + A sturbed Area 35.96 Acres | additional Clearing (4.7 acres) |
| | Seed | Mixtures | |
| Temp | 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-3 for additional se | eed type (Dogwood Pad Design) | See attached Table IV-4A for additional | seed type (Dogwood Pad Design) |
| *or type of grass seed requ | ested by surface owner | *or type of grass seed requ | ested by surface owner |
| acreage, of the land application a Photocopied section of involved | area. | nensions (L x W x D) of the pit, an | d unicipions (E x w), and alou i |
| Plan Approved by: Bug | a Kum | | |
| Comments: | | 74 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | Date: 7-20-21 | |
| Field Reviewed? (|) Yes |) No | Dr. |

Office of Oil and Gas

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WV Departmental Protection

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 Conqor 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



WV Department of Environmental Protection 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

RECEIVED
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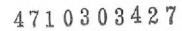
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WV Department of Environmental Protection

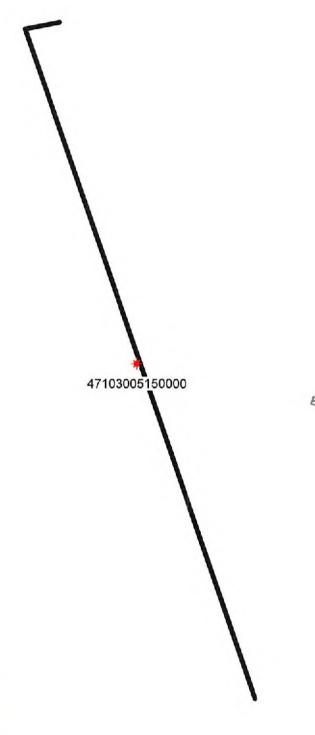
Planned Disposal Method-UIC

| Office CEIVED |
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| | | JIII 0 - | | Coordinates |
|------------|-------------------------------------|---|-------|-----------------|
| API | Operator | Well Name JUL 0 2 2021 | State | Lat/Long NAD 83 |
| | | Environment (SWIN #8) or K&H Partners LLC #1 (SWIN #8) or | | 39.226075, - |
| 3400923821 | Central Environmental Services, LLC | K&H Partners LLC #1 (SWHW #8) | ОН | 81.761403 |
| | | | | 39.234815, - |
| 3400923823 | Central Environmental Services, LLC | K&H Partners LLC #2 (SWIW #10) | ОН | 81.757166 |
| | | | | 39.235082, - |
| 3400923824 | Central Environmental Services, LLC | K&H Partners LLC #3 (SWIW #11) | ОН | 81.748312 |
| | | | | 39.337326, - |
| 3416729731 | Redbird Development, LLC | Redbird #2 (SWIW #18) | ОН | 81.674314 |
| | | | | 38.964640, - |
| 3410523651 | GreenHunter Water, LLC | Murphy Hunter #3 (SWIW #23) | ОН | 81.785835 |
| | | | | 38.969738, - |
| 3410523637 | GreenHunter Water, LLC | Mills Hunter #3 (SWIW #22) | ОН | 81.786124 |
| | | | | 38.932919, - |
| 3410523652 | GreenHunter Water, LLC | Mills Hunter #2 (SWIW #21) | ОН | 81.788641 |
| | | Mills Hunter #1 (SWIW #19) | | 38.940522, - |
| 3410523619 | GreenHunter Water, LLC | Willis Huller #1 (300100 #13) | ОН | 81.787707 |
| 3412123995 | | Warren Drilling Co. (SWIW #6) | | 39.653808, - |
| 3412123993 | GreenHunter Water, LLC | Warren Drining Co. (Swiw #0) | ОН | 81.475312 |
| | | | | 39.656785, - |
| 3412124086 | GreenHunter Water, LLC | Travis Unit (SWIW #7) | ОН | 81.480809 |
| | | | | 40.027300, - |
| 3405923986 | Clearwater Solutions, LLC | Clearwater III #1 (SWIW #15) | OH | 81.511168 |
| | | | ĺ | 40.027878, - |
| 3405924473 | Clearwater Solutions, LLC | Bo #1 (SWIW #20) | OH | 81.509974 |
| | | | | 40.027364, - |
| 3405924445 | Clearwater Solutions, LLC | Effie #1 (SWIW#17) | OH | 81.449869 |
| | | Ritchie Hunter #2 (2W-1652) | | 39.256623, - |
| 4708510142 | GreenHunter Water, LLC | (UIC2D08510142) | wv | 81.097484 |







Office of Oil and Gas

JUL 0 2 2021

Environmental Protection



| UWI (APINum) | Well Name | Well Number | Operator | Historical Operator | TD | Perforated Interval (shallowest, deepest) | Perforated Formation(s) | Producible Formation(s) not perf'd |
|----------------|---------------|-------------|------------------|---------------------|-------|---|-------------------------|------------------------------------|
| 47103005150000 | SMITH MCHENRY | 5401 | HOPE NATURAL GAS | HOPE NATURAL GAS | 3,059 | 2998 - 3004 | Berea, Gordon | Weir, Benson, Alexander |

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas



911 Address 3501 Furbee Ridge Rd, Reader, WV 26167

Well Site Safety Plan Antero Resources

Well Name: Daags Unit 1H, Gribben Unit 1H & 2H and Orner

Unit 1H & 2H

Duyan Harn' 7-20-21

Pad Location: Dogwood PAD Wetzel County/Green District

GPS Coordinates:

Entrance - Lat 39.525128' Long -80.733219 '(NAD 83) Pad Center - Lat 39.526388' Long -80.724039' (NAD 83)

Driving Directions:

From the intersection of Broad St and Main St in Middlebourne: Head north east on WV - 18 N/Main St toward Wetzel Ave for 3.7 miles. Turn right toward Elk Fork for 302 feet. Continue onto Elk Fork for 0.4 miles. Turn right onto Elk Fork Rd for 9.6 miles. Turn right onto Wetzel Tyler Ridge Rd for 1.0 mile. Sharp left onto Ross Run for 0.1 miles. Ross Run turns slightly right and becomes Furbee Ridge Rd for 1.2 miles. Access road will be on your right.

Alternate Route:

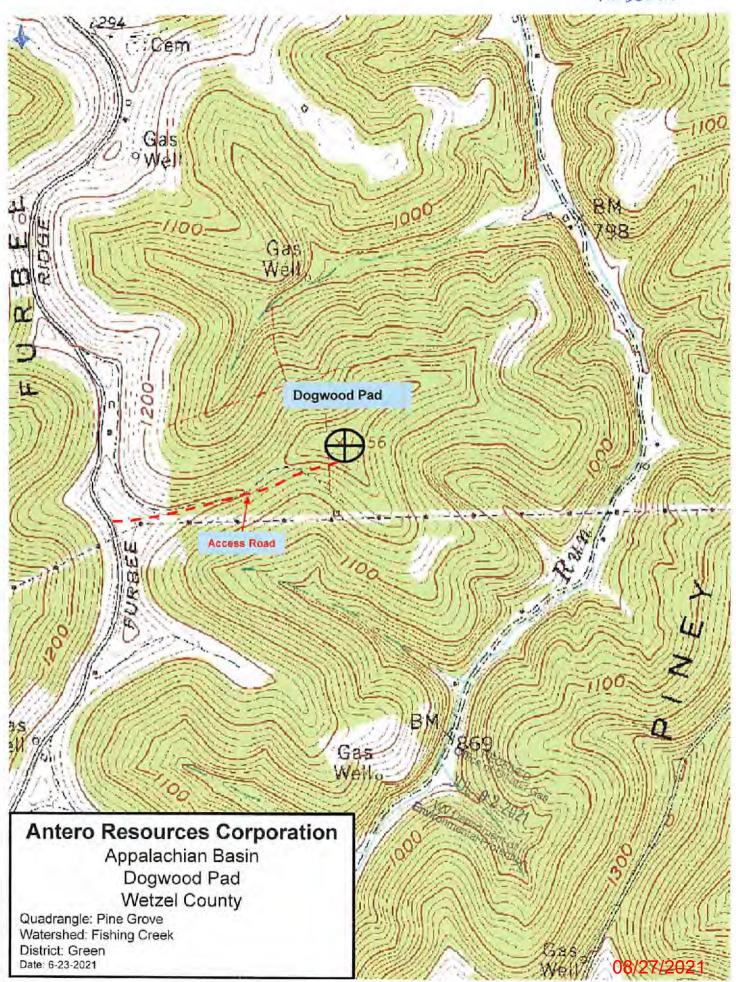
From the volunteer fire department in Reader WV: Head north on WV-20 N toward Spice Lane for 0.5 miles. Turn left onto Co Rd 40/2 for 0.4 miles. Turn left onto Brush Run Rd for 466 feet. Turn left onto Furbee Ridge Rd for 3.3 miles. Access road will be on your left.

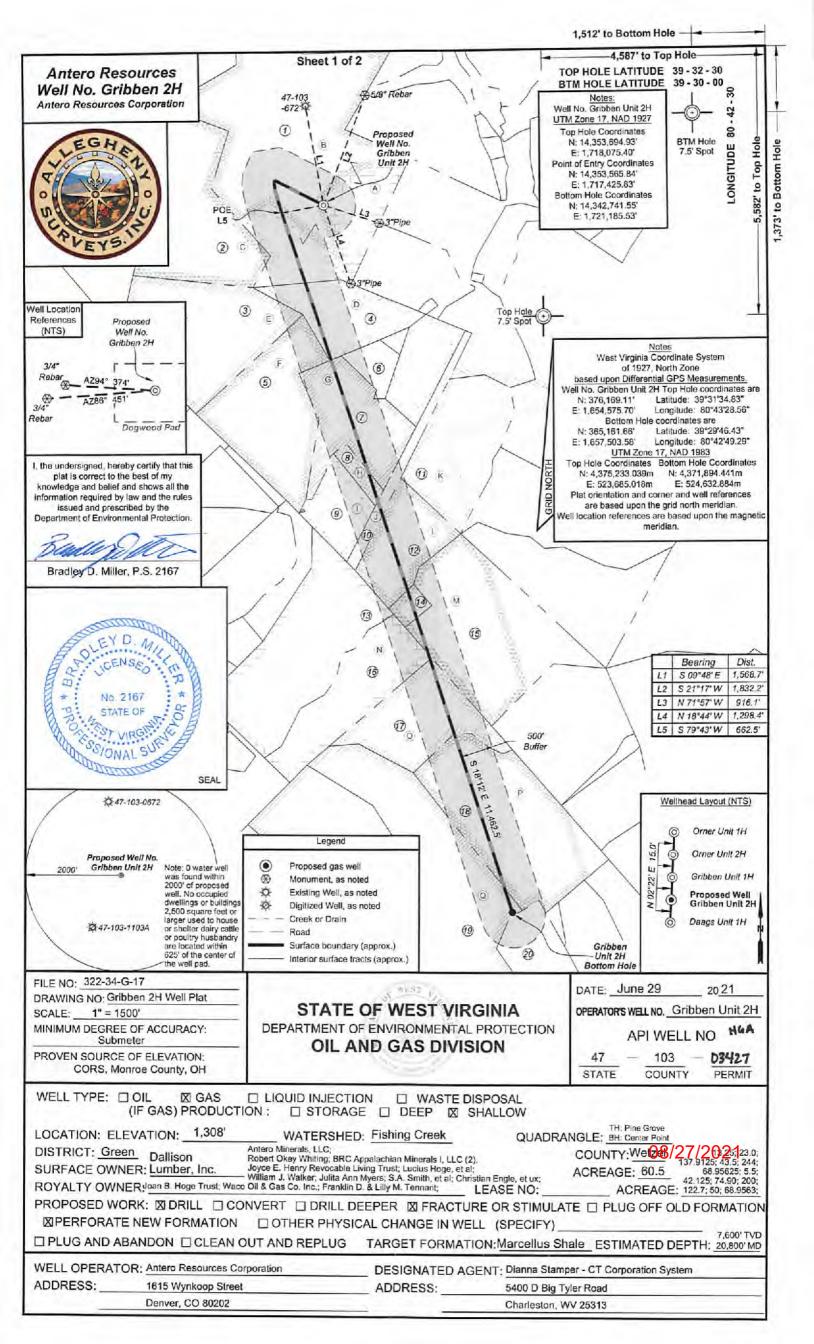
EMERGENCY (24 HOUR) CONTACT 1-800 Grand Gas

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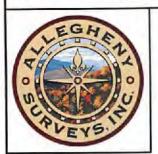
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SSP Page 1





Antero Resources Well No. Gribben 2H Antero Resources Corporation



| | Leases |
|---|---------------------------------|
| Α | Joan B. Hoge Trust |
| В | Waco Oil & Gas Company Inc. |
| C | Terry Bartrug |
| D | BRC Appalachian Minerals I, LLC |
| E | BRC Appalachian Minerals I, LLC |
| F | William J. Walker |
| G | Franklin D. & Lilly M. Tennant |
| Н | Julita Ann Myers |
| 1 | Lisla Damoulos |
| J | Antero Minerals, LLC |
| K | Shiben Estates, Inc. |
| L | S.A. Smith, et al |
| M | Joyce E. Henry |
| | Revocable Living Trust |
| N | Christian Engle, et ux |
| 0 | Robert Okey Whiting |
| P | Lucius Hoge, et al |
| Q | BRC Appelachian Minerals I, LLC |

| ID | TM/Par | Owner | Bk/Pg | Acres |
|----|---------|-------------------------------------|---------|--------|
| 1 | 20-13 | Dallison Lumber Inc. | 440/243 | 208.00 |
| 2 | 20-12 | Terry Bartrug | 361/465 | 92.90 |
| 3 | 20-24 | Lloyd Conley | 355/553 | 89.00 |
| 4 | 20-25 | Unknown Owner | / | 42.00 |
| 5 | 20-31 | Tony E. & Marion L. Crabtree | 365/337 | 68.95 |
| 6 | 20-35 | Louisa Bassett & Mrs. Irvin Bassett | 168/157 | 72.00 |
| 7 | 20-32 | Tony E. & Marion L. Crabtree | 365/337 | 43.50 |
| 8 | 20-45 | Tony E. & Marion L. Crabtree | 365/337 | 5.50 |
| 9 | 22-7 | Lisla W. Damoulos | 399/428 | 29.40 |
| 10 | 20-34 | Columbia Gas Transmission Corp. | 263/164 | 12.00 |
| 11 | 20-35 | Louisa Bassett & Mrs. Irvin Bassett | 168/157 | 62.00 |
| 12 | 22-8 | Robert P. & Carolyn J. Kocher | 291/332 | 42.12 |
| 13 | 22-19 | Coastal Forest Resources Co. | 444/105 | 155.30 |
| 14 | 22-16.1 | Edith Olive McHenry | 364/90 | 5.92 |
| 15 | 22-16 | Dallison Lumber Inc. | 353/112 | 95.10 |
| 16 | 22-20 | Lawrence J. Bish, et al | 420/736 | 63.23 |
| 17 | 22-29 | Timothy L. Yoho | 377/411 | 50.00 |
| 18 | 22-34.1 | Coastal Forest Resources Co. | 444/105 | 129.00 |
| 19 | 22-34 | Coastal Forest Resources Co. | 444/105 | 172.91 |
| 20 | 25-2 | Coastal Forest Resources Co. | 444/105 | 61.93 |

FILE NO: 322-34-G-17

DRAWING NO: Gribben 2H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Monroe County, OH

Denver, CO 80202

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

DATE: June 29 20 21

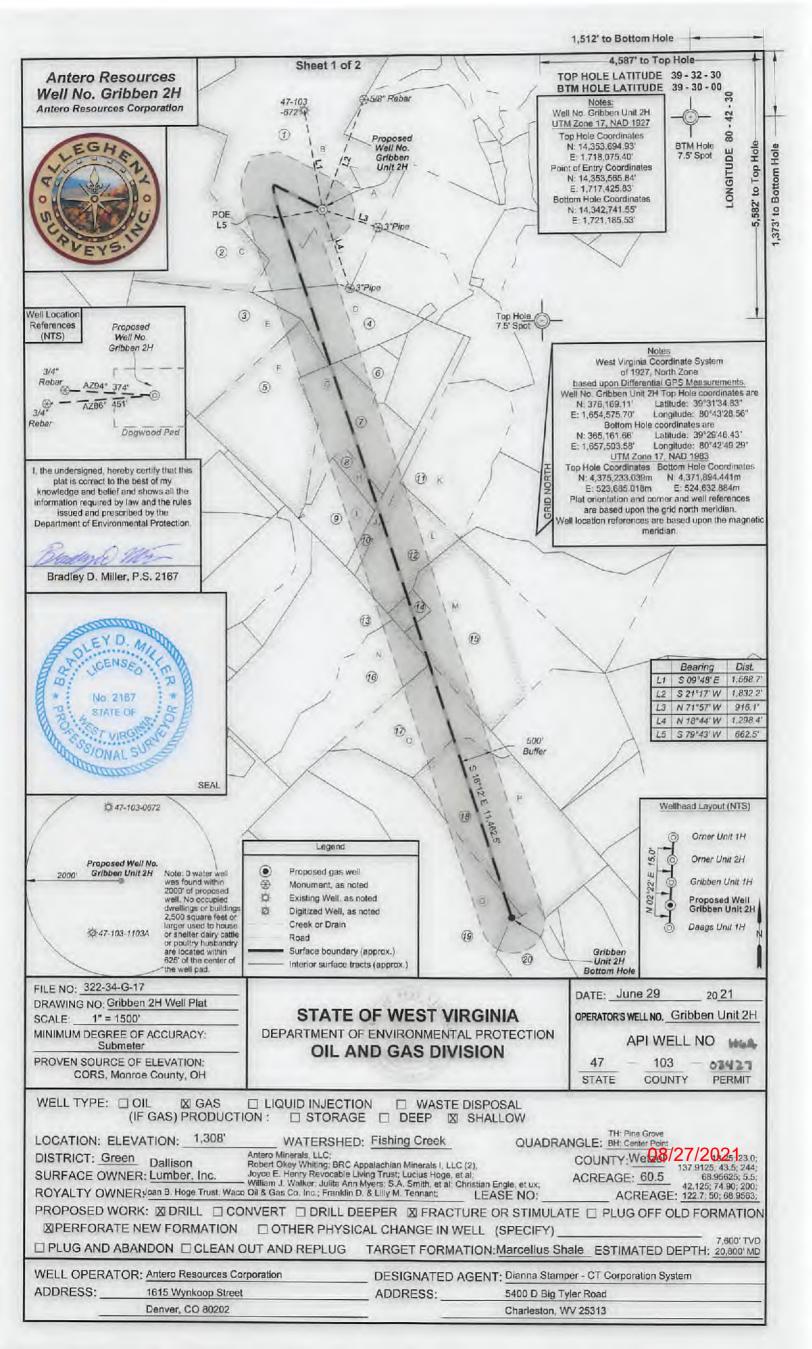
OPERATOR'S WELL NO. Gribben Unit 2H

API WELL NO NGA

47 - 103 - **03427**STATE COUNTY PERMIT

Charleston, WV 25313

| WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAGE | | |
|--|---|--|
| DISTRICT: Green Dallison Antero Minerals, LLC; Robert Okey Whiting; BRC Al Joyce E. Henry Revocable Lir | oppalachian Minerals I, LLC (2), iving Trust; Lucius Hoge, et al; Myers; S.A. Smith, et al; Christian Engle, et ux; | TH: Pine Grove BH: Center Point COUNTY: W 27/2021; 23.0; 137.9125; 43.5; 244; ACREAGE: 60.5 ACREAGE: 122.7; 50; 68.9563; |
| PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DE ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSIC ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG | | 7.600'TVD |
| WELL OPERATOR: Antero Resources Corporation ADDRESS: 1615 Wynkoop Street | DESIGNATED AGENT: Dianna Stamp | |



Antero Resources Well No. Gribben 2H Antero Resources Corporation



| | Leases |
|---|---------------------------------|
| A | Joan B. Hoge Trust |
| В | Waco Oil & Gas Company Inc. |
| C | Terry Bartrug |
| D | BRC Appalachian Minerals I, LLC |
| E | BRC Appalachian Minerals I, LLC |
| F | William J. Walker |
| G | Frenklin D. & Lilly M. Tennant |
| H | Julita Ann Myers |
| 1 | Lisla Damoulos |
| J | Antero Minerals, LLC |
| K | Shiben Estates, Inc. |
| L | S.A. Smith, et al |
| M | Joyce E. Henry |
| | Revocable Living Trust |
| N | Christian Engle, et ux |
| 0 | Robert Okey Whiting |
| P | Lucius Hoge, et al |
| Q | BRC Appalachian Minerals I, LLC |

| ID | TM/Par | Owner | Bk/Pg | Acres |
|----|---------|-------------------------------------|---------|--------|
| 1 | 20-13 | Dallison Lumber Inc. | 440/243 | 208.00 |
| 2 | 20-12 | Terry Bartrug | 361/465 | 92.90 |
| 3 | 20-24 | Lloyd Conley | 355/553 | 89.00 |
| 4 | 20-25 | Unknown Owner | / | 42.00 |
| 5 | 20-31 | Tony E. & Marion L. Crabtree | 365/337 | 68.95 |
| 6 | 20-35 | Louisa Bassett & Mrs. Irvin Bassett | 168/157 | 72.00 |
| 7 | 20-32 | Tony E. & Marion L. Crabtree | 365/337 | 43.50 |
| 8 | 20-45 | Tony E. & Marion L. Crabtree | 365/337 | 5.50 |
| 9 | 22-7 | Lisla W. Damoulos | 399/428 | 29.40 |
| 10 | 20-34 | Columbia Gas Transmission Corp. | 263/164 | 12.00 |
| 11 | 20-35 | Louisa Bassett & Mrs. Irvin Bassett | 168/157 | 62.00 |
| 12 | 22-8 | Robert P. & Carolyn J. Kocher | 291/332 | 42.12 |
| 13 | 22-19 | Coastal Forest Resources Co. | 444/105 | 155.30 |
| 14 | 22-16.1 | Edith Olive McHenry | 364/90 | 5.92 |
| 15 | 22-16 | Dallison Lumber Inc. | 353/112 | 95.10 |
| 16 | 22-20 | Lawrence J. Bish, et al | 420/736 | 63.23 |
| 17 | 22-29 | Timothy L. Yoho | 377/411 | 50.00 |
| 18 | 22-34.1 | Coastal Forest Resources Co. | 444/105 | 129.00 |
| 19 | 22-34 | Coastal Forest Resources Co. | 444/105 | 172.91 |
| 20 | 25-2 | Coastal Forest Resources Co. | 444/105 | 61.93 |

| FILE NO: 322-34-G-17 |
|---|
| DRAWING NO: Gribben 2H Well Plat |
| SCALE: 1" = 2000' |
| MINIMUM DEGREE OF ACCURACY: Submeter |
| PROVEN SOURCE OF ELEVATION: |

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

DATE: June 29 20 21

OPERATOR'S WELL NO. Gribben Unit 2H

API WELL NO.

47 - 103 - 68427 STATE COUNTY PERMIT

| CORS, Monroe County, OH | 10.00 | STATE | COUNTY | PERMIT |
|--|--|--|---|--|
| WELL TYPE: ☐ OIL ☑ GAS (IF GAS) PRODUCTION | QUID INJECTION WASTE DISPOSAL STORAGE DEEP SHALLOW | | NAME OF TAXABLE PARTY. | |
| SURFACE OWNER: Lumber, Inc. ROYALTY OWNER! OR B. Hoge Trust; Waco PROPOSED WORK: DRILL CO | Minerals, LLC; Okey Whiting; BRC Appalachian Minerals I, LLC (2), E. Henry Revocable Living Trust; Lucius Hoge, et al; J. Walker; Julita Ann Myers; S.A. Smith, et al; Christian Engle, et a | COUNTY ACREAG COUNTY ACREAG MULATE PLU | E: 60.5 ACREAGE: 122 JG OFF OLD F | 68.95625; 5.5; 125; 74.90; 200; 2.7; 50; 68.9563; FORMATION |
| WELL OPERATOR: Antero Resources Cor ADDRESS: 1615 Wynkoop Street | DESIGNATED AGENT: Diann ADDRESS: 5400 | a Stamper - CT Corp D Big Tyler Road | | 11. <u>20,000 mb</u> |
| | ADDRESS: 5400 | | poration Syste | m |

Operator's Well Number

Gribben 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 |
|----|---|--|--------------------------|--|
| 0 | Waco Oil & Gas Company Inc. Lease | | | |
| P | Waco Oil & Gas Company Inc. | Antero Resources Corporation | 1/8+ | 184A/0741 |
| | BRC Appalachian Minerals I LLC Lease | | | |
| | BRC Appalachian Minerals I LLC | BRC Working Interest Company LLC | 1/8+ | 102A/0505 |
| | BRC Working Interest Company LLC | Chesapeake Appalachia LLC | Assignment | 103A/0470 |
| D | Chesapeake Appalachia LLC | Statoil USA Onshore Properties Inc. | Assignment | 120A/0109 |
| -6 | Statoil USA Onshore Properties | SWN Exchange Title Holder LLC | Assignment | 158A/0801 |
| | SWN Exchange Title Holder LLC | SWN Production Company | Merger | 0013/0296 |
| | SWN Production Company | Antero Exchange Properties LLC | Assignment | The second secon |
| | Antero Exchange Properties LLC | Antero Resources Corporation | Merger | 0013/0311 |
| | | | | |
| P | William J Walker Lease William J Walker | Antero Resources Corporation | 1/8+ | 197A/361 |
| | | | | |
| G | Franklin D & Lily M Tennant Lease | Stand Facous Comments | 1/0: | 139A/305 |
| G | Franklin D & Lily M Tennant Stone Energy Corporation | Stone Energy Corporation EQT Production Company | 1/8+ Assignment | 0.025001160 |
| | EQT Production Company | Antero Resources Corporation | Assignment | 230A/883 |
| | za, rodania campany | The state of the s | 0, | 183A/305 230A/883 Tice PECENED (1 0 2 2021 Danment of Protection |
| a. | Julita Ann Myers Lease | | // | VII CO |
| # | Julita Ann Myers | Antero Resources Corporation | 1/8+ | 02 20 Gas 230A/423 |
| | | | -nviron De | (02) |
| 1 | Antero Minerals LLC Lease | | me | Mal Pant |
| | | | | Otection |
| - | SA Smith et al Lease | ps product | a In | 44/242 |
| V | SA Smith et al RS Douglas | RS Douglas Hope Natural Gas Company | 1/8 | 4A/243 |
| | Hope Natural Gas Company | AM Snider and Duane M Snider and Kathleen Rhinehart Partners dba Hundred Gas Company | Assignment Assignment | |
| | AM Snider and Duane M Snider and Kathleen Rhinehart partners dba Hundred Gas Company | Carl D Perkins | Assignment | 256/189 |
| | Carl D Perkins | Perkins Oil and Gas Inc | Assignment | 55A/62 |
| | Perkins Oil and Gas Inc | Stone Energy Corporation | Assignment | |
| | Stone Energy Corporation | EQT Production Company | Assignment | |
| | EQT Production Company | Antero Resources Corporation | Assignment | |
| m | Joyce E Henry Lease Joyce E Henry | Antero Resources Corporation | 1/8+ | 7794/554 |
| | salan a Helli i | Aurein vesonices en holanou | 1/07 | 228A/654 |
| 0 | Robert Okey Whiting Lease | | . 10 | |
| | Robert Okey Whiting | Antero Resources Corporation | 1/8+ | 198A/537 |

08/27/2021

Gribben 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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- (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 |
|---|--|--|--|-----------|
| | Revocable Living Trust Christian Engle et ux | | | |
| | <u>Lease</u> | | | |
| J | Revocable Living Trust Christian Engle et ux | BCB Shaffer | 1/8 | 55/82 |
| | CB Shaffer | South Penn Oil Company | Assignment | Unknown |
| | South Penn Oil Company | Tri State Gas Company | Assignment | 59/429 |
| | Tri State Gas Company | Manufacturers Light and Heat Company | Assignment | 9A/141 |
| | Manufactures Light and Heat Company | AM Snider and Duane M Snider and Kathleen | Assignment | 48A/109 |
| | | Rhinehart partners dba Hundred Gas Company | Assignment | 256/189 |
| | AM Snider and Duane M Snider and Kathleen | Hundred Gas Company | Assignment | |
| | Rhinehart partners dba Hundred gas Company | | | 55A/62 |
| | Hundred Gas Company | Carl D Perkins | Assignment | |
| | Carl D Perkins | Perkins Oil and Gas Inc | Assignment | 75A/621 |
| | Perkins Oil and Gas Inc | Stone Energy Corporation | Assignment | 126/958 |
| | Stone Energy Corporation | EQT Production Company | Assignment | 183A/305 |
| | EQT Production Company | Antero Resources Corporation | Assignment | 203A/783 |
| | | | | |
| | Lucius Hoge et ux Lease | | | |
| _ | Lucius Hoge et ux | South Penn Oil Company | 1/8 | 48/259 |
| T | South Penn Oil Company | Tri State Gas Company | Assignment | 59/429 |
| • | Tri State Gas Company | Manufactures Light and Heat Company | Assignment | 9A/141 |
| | Manufactures Light and Heat Company | AM Snider and Duane M Snider and Kathleen | Assignment | 48A/109 |
| | | Rhinehart partners dba Hundred Gas Company | Assignment | 256/189 |
| | AM Snider and Duane M Snider and Kathleen | Hundred Gas Company | | 55A/62 |
| | Rhinehart partners dba Hundred Gas Company | | Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment | |
| | Hundred Gas Company | Carl D Perkins | Assignment Offic Pico | |
| | Carl D Perkins | Perkins Oil and Gas Inc | Assignment | 75A/621 |
| | Perkins Oil and Gas Inc | Stone Energy Corporation | Assignment /// | 126A/958 |
| | Stone Energy Corporation | EQT Production Company | Assignment Assignment | 183A/305 |
| | EQT Production Company | Antero Resources Corporation | Assignation 2021 | 203A/783 |
| | | | Nu abantus | |
| | | | Assignment 2 2021 Assignment 2 2021 Assignment 2 2021 | |
| | | | oction | |

^{*}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.

CONTINUED ON NEXT PAGE

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:

Lease Name or BRC Appalachian Mineral I, LLC ease

0

BRC Appalachian Mineral I, LLC BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties Inc SWN Exchange Title Holder LLC SWN Production Company LLC Antero Exchange Properties LLC BRC Working Interest Company LLC
Chesapeake Appalachia LLC
Statoil USA Onshore Properties Inc
SWN Exchange Title Holder LLC
SWN Prduction Company LLC
Antero Exchange Properties LLC
Antero Resources Corporation

1/8+
Assignment
Assignment
Assignment
Merged
Assignment
Merged

102A/505 103A/470 120A/109 158A/801 13/296 177A/533 13/311

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

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

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 iniffated.

Well Operator: Antero Resources Corporation

By:

Brian Kuhn

Its:

SR VP of Land

Page 1 of 1



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

June 30, 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: Gribben Unit 2H

Quadrangle: Pine Grove 7.5'

Wetzel County/Green District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Gribben Unit 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 Gribben Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Brett Kuhn Senior Landman

Singles Policy of the State of

Date of Notice Certification: 06/30/2021

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE CERTIFICATION}}{\text{NOTICE CERTIFICATION}}$

API No. 47- 103

| | | | | Operator's | Well No. Gribb | en Unit 2H |
|--|--|---|--|---|--|--|
| | | | | | Name: Dogwoo | |
| Notice has | oeen given: ne provisions in West Virginia Coo | le δ 22-6A, the Ot | perator has pro | vided the re | quired parties w | vith the Notice Forms listed |
| below for the | tract of land as follows: | | | 100000000000000000000000000000000000000 | | / |
| State: | West Virginia | 11 | TM NAD 83 | Easting: | 523685.018m | |
| County: | Wetzel | | | Northing: | 4375233.039m < | |
| District: | Green | | iblic Road Acc | | CO. Route 50 | |
| Quadrangle: | Pine Grove 7.5' | G | enerally used f | arm name: | Dallison Lumber | nc./ |
| Watershed: | Fishing Creek / | | | | | |
| prescribed by it has provid information r of giving the requirements Virginia Cod | West Virginia Code § 22-6A-7(lethe secretary, shall be verified an ed the owners of the surface desequired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixtee e § 22-6A-11(b), the applicant shall have been completed by the applicant | d shall contain the cribed in subdivis , section sixteen o survey pursuant 1 of this article w Ill tender proof of | e following inf sions (1), (2) of this article; (to subsection were waived in | formation: (1) and (4), sub ii) that the re (a), section writing by | 4) A certification (b), section (b), section (c), section (d), section | empfrom the operator that (i) difference of this article, the deemed satisfied as a result of the notice of the call |
| that the Ope | West Virginia Code § 22-6A, the rator has properly served the requect ALL THAT APPLY | | | this Notice (| Certification | OOG OFFICE USE |
| 15,3000 (0000, 7.00 | | | | | | ONLY |
| | TICE OF SEISMIC ACTIVITY | | NOT REQUI | | | 100.20 100.12 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| ☐ 1, NO | | SEISMIC AC | CTIVITY WAS | S CONDUC | TED | ONLY □ RECEIVED/ |
| ☐ 1, NO☐ 2. NO☐ | TICE OF SEISMIC ACTIVITY | SEISMIC AC RVEY or NOTICE | PLAT SURVENOT REQUIRENTRY FOR | S CONDUC YEY WAS C RED BECA | TED ONDUCTED USE | ONLY RECEIVED/ NOT REQUIRED |
| ☐ 1, NO☐ 2. NO☐ | TICE OF SEISMIC ACTIVITY | SEISMIC AC RVEY or NOTICE NOTICE OF WAS COND | PLAT SURVENOT REQUIRENTRY FOR | S CONDUC YEY WAS C RED BECA PLAT SUR BY SURFA | ONDUCTED USE VEY | ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/ |
| ☐ 1. NO☐ 2. NO☐ 3. NO☐ | TICE OF SEISMIC ACTIVITY | SEISMIC AC RVEY or NOTICE NOTICE OF WAS COND WRITTI (PLEA | PLAT SURVENOT REQUIRENTRY FOR UCTED or | S CONDUC YEY WAS C RED BECA PLAT SUR BY SURFA | ONDUCTED USE VEY | ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/ |
| □ 1. NO □ 2. NO ■ 3. NO ■ 4. NO | TICE OF SEISMIC ACTIVITY TICE OF ENTRY FOR PLAT SU | SEISMIC AC RVEY or NOTICE NOTICE OF WAS COND WRITTI (PLEA | PLAT SURVENOT REQUIRENTRY FOR UCTED or | S CONDUC YEY WAS C RED BECA PLAT SUR BY SURFA | ONDUCTED USE VEY | ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/ NOT REQUIRED |

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to 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.

By:

Certification of Notice is hereby given:

have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I Diana Hoff 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 Hoff Diana

Its: Senior VP of Operations

Telephone: 303-357-7310 Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mstanton@anteroresources.com

EXANDRIA CASTILLO NOTARY PUBLIC STATE OF COLORADO ARY ID 20184029703 SION EXPIRES JULY 23, 2022 Subscribed and sworn before me this

My Commission Expires

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.

RECEIVED Office of Oil and Gas

St day of Jul

JUL 0 2 2021

WV Department of Environmental Protection

WW-6A (9-13) 471 0 3 0 3 4 2 7
API NO. 47- 103
OPERATOR WELL NO. Gribben Unit 2H
Well Pad Name: Dogwood Pad

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

| Notice Time Requirement: notice shall be provide | ed no later than the filing date of permit application. |
|---|---|
| Date of Notice: 7/1/2021 Date Permit Application Notice of: | on Filed: 7/1/2021 |
| | ATE OF APPROVAL FOR THE JCTION OF AN IMPOUNDMENT OR PIT |
| Delivery method pursuant to West Virginia Cod | le § 22-6A-10(b) |
| ☐ PERSONAL ☐ REGISTERED | ✓ METHOD OF DELIVERY THAT REQUIRES A |
| SERVICE MAIL | RECEIPT OR SIGNATURE CONFIRMATION |
| sediment control plan required by section seven of this the surface of the tract on which the well is or is proposed and gas leasehold being developed by the proposed described in the erosion and sediment control plan sult operator or lessee, in the event the tract of land on whomore coal seams; (4) The owners of record of the surf well work, if the surface tract is to be used for the platimpoundment or pit as described in section nine of the have a water well, spring or water supply source located provide water for consumption by humans or domestic proposed well work activity is to take place. (c)(1) If a subsection (b) of this section hold interests in the land records of the sheriff required to be maintained pursual provision of this article to the contrary, notice to a liet Code R. § 35-8-5.7.a requires, in part, that the operate water purveyor or surface owner subject to notice and | of Oil and Gas |
| | Plan Notice Well Plat Notice is hereby provided to JUL 0 2 2021 |
| ☐ SURFACE OWNER(s) | COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COVERNMENTAL PROPERTY OF |
| Name: Dallison Lumber Inc. | - Olection |
| Address: PO Box 21 | Address: |
| Jacksonburg, WV 26377 | |
| Name: Dallison Lumber Inc. | □ COAL OPERATOR |
| Address: PO Box 159 | Name: NO DECLARATIONS ON RECORD WITH COUNTY |
| Jacksonburg, WV 26377 | Address: |
| ☑ SURFACE OWNER(s) (Road and/or Other Distr | urbance) |
| Name: Dallison Lumber Inc. | ■ WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, |
| Address: PO Box 21 | SPRING OR OTHER WATER SUPPLY SOURCE |
| Jacksonburg, WV 26377 | Name: NONE IDENTIFIED WITHIN 1500' |
| Name: Dallison Lumber Inc. | Address: |
| Address: PO Box 159 | |
| Jacksonburg, WV 26377 | ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| SURFACE OWNER(s) (Impoundments or Pits) | 사용하다 보고 있는데 그런데 그런데 그런데 그런데 그런데 그런데 그런데 그런데 그런데 그런 |
| | Name: |
| Name:Address: | Addices. |
| | *Please attach additional forms if necessary |
| | a rease arrater additional forms it necessary |

OPERATOR WELL NO. Gribben Unit 2H Well Pad Name: Dogwood 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 Office of Oil and Gas 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 Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-WV Department (1)
Environmental Protection and-gas/pages/default.aspx.

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 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) Notwithslanding 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. (e) 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

WW-6A (8-13) API NO. 47-103 - 83427
OPERATOR WELL NO. Gribben Unit 2H

Well Pad Name: Dogwood 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) Papall resourced by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggregated under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the depict of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination distribution for the damage to the real property owner's water supply, the operator may not discontinue providing the veguired 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.

API NO. 47- 103 OPERATOR WELL NO. Gribben Unit 2H Well Pad Name: Dogwood 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.

WV Department of Environmental Protection

WW-6A (8-13) API NO. 47- 103 - 03427
OPERATOR WELL NO. Gribben Unit 2H
Well Pad Name: Dogwood Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana O.

Email: mstanton@antercresources.com

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

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 deprivacyofficer@wv.gov.

ALEXANDRIA CASTILLO
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20184029703
MY COMMISSION EXPIRES JULY 23, 2022

Subscribed and sworn before me this 1st day of July, 2

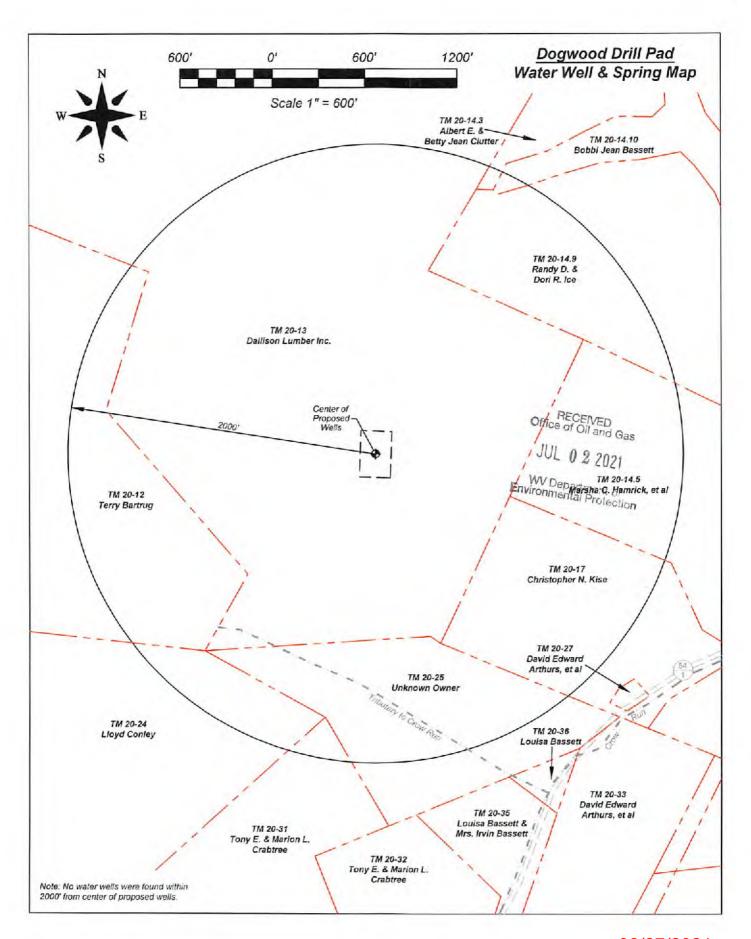
Notary Public

My Commission Expires_

Office of Oil and Gas

JUL 0 2 2021

WV Department of Environmental Protection



WW-6A4 (1/12)

| Operator Well | No |
|-------------------|-------------|
| Multiple Wells on | Dogwood 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 Date of Notic | | | ded at least TEN (10) days prior to filing a te Permit Application Filed: 7/2/262 | permit application. |
|---|--|--|--|---|
| Delivery met | hod pursuant to |) West Virginia Co | de § 22-6A-16(b) | |
| ☐ HAND | • | CERTIFIED MAIL | | |
| DELIVE | | RETURN RECEIP | REQUESTED | |
| receipt reques drilling a hori of this subsec subsection ma and if availab | ated or hand delizontal well: Pration as of the darky be waived in the factorial of the fac | very, give the surface ovided, That notice te the notice was prowriting by the surface and electronic in the surface of the su | en days prior to filing a permit application, to owner notice of its intent to enter upon the given pursuant to subsection (a), section to ovided to the surface owner: <i>Provided</i> , how the owner. The notice, if required, shall inclinate address of the operator and the operator. | the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this ude the name, address, telephone number, |
| | | to the SURFACI | | (2nd address) |
| Name: Dallison | | | Name: Dallison Lumber Inc (| Zilu address) |
| Addresse POP | | | Adduson: BO Boy 150 | |
| Notice is he Pursuant to W | reby given: Vest Virginia Co | | Address: PO Box 159 Jacksonburg, WV 26377 notice is hereby given that the undersigned | |
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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 deprivacyofficer@wv.gov.

Operator Well No. enbeen unit 22 7

WW-6A5 (1/12)

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

| Notice Time l Date of Notic | Requirement: notice e: 07/01/2021 | shall be provided no Date Permit A | o later than the filing pplication Filed: 07/0 | date of permit | application. |
|---|--|---|--|--|--|
| Delivery met | hod pursuant to Wes | t Virginia Code § | 22-6A-16(c) | | |
| ■ CERTIF | FIED MAIL | | HAND | | |
| | N RECEIPT REQUE | STED | DELIVERY | | |
| return receipt the planned of required to be drilling of a li- damages to the (d) The notice of notice. | requested or hand del peration. The notice provided by subsecti- torizontal well; and (, e surface affected by es required by this sec | ivery, give the surfa- required by this son (b), section ten of 3) A proposed surfail and gas operation tion shall be given to | ace owner whose land ubsection shall incluse if this article to a surf- ace use and compens are to the extent the date to the surface owner a | I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp | cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time |
| | eby provided to the S s listed in the records | | | | |
| | | of the sheriff at the | Name: | Dallison Lumber Inc (| 2nd Address) |
| Name: Dallison | dinoer me. | | | | |
| Name: Dallison I | | | | s: PO Box 159 | |
| Address: POB Jacksonburg, WV | ox 21 26377 Pby given: | 2-6A-16(c), notice | Addres | s: PO Box 159 acksonburg, WV 26377 | |
| Address: POB Jacksonburg, WV Notice is here Pursuant to W operation on State: | eby given: est Virginia Code § 2 the surface owner's la | | Addres J is hereby given that the | he undersigned valued on the tra | well operator has developed a planned act of land as follows: 523685.018m |
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| Address: POB Jacksonburg, WV Notice is here Pursuant to W operation on State: County: | eby given: est Virginia Code § 2 the surface owner's la West Virginia Wetzel Green | | Addres J is hereby given that the definition of drilling a horizonta UTM NAD 8 Public Road | he undersigned valued on the tra Easting: Northing: | well operator has developed a planned act of land as follows: 523685.018m 4376233.039m CO. Route 50 |
| Address: POB Jacksonburg, WV Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters, gas/pages/defi | eby given: Yest Virginia Code § 2 the surface owner's la West Virginia Wetzel Green Pine Grove 7.5' Fishing Greek Chall Include: Yest Virginia Code § 2 d by W. Va. Code § dl; and (3) A proposed elated to horizontal d located at 601 57th ault.aspx. | 22-6A-16(c), this not a surface use and coerations to the exter rilling may be obtastreet, SE, Char. | is hereby given that the of drilling a horizontal UTM NAD 8 Public Road Generally use of the shall include: (1 surface owner whose ompensation agreement the damages are contined from the Secret leston, WV 25304 | he undersigned of well on the tra Basting: Northing: Access: ed farm name: Acopy of this e land will be undersigned and will be undersigned and tary, at the WV (304-926-0450) | well operator has developed a planned act of land as follows: 523685.018m 4376233.039m CO. Route 50 Antero Resources Corporation 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 www.dep.wv.gov/oil-and- Office of Oil and Gas |
| Address: POB Jacksonburg, WV Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters, gas/pages/defi | eby given: lest Virginia Code § 2 the surface owner's la West Virginia Wetzel Green Pine Grove 7.5' Fishing Creek Chall Include: lest Virginia Code § 2 d by W. Va. Code § ll; and (3) A proposed ed by oil and gas opedated to horizontal d located at 601 57th ault.aspx. Chall Antero Resources Corpore | 22-6A-16(c), this not a surface use and coerations to the exter rilling may be obtastreet, SE, Char. | is hereby given that the of drilling a horizontal UTM NAD 8 Public Road Generally use of the shall include: (1 surface owner whose ompensation agreement the damages are called from the Secretal Public Road Compensation agreement the damages are called from the Secretal Road Road Road Road Road Road Road Road | he undersigned of well on the transport of the well on the well of the well | well operator has developed a planned act of land as follows: 523685.018m 4375233.039m CO. Route 50 Antero Resources Corporation code section; (2) The information required ased 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 and Gas |
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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.

471 0303427
API NO. 47-103
OPERATOR WELL NO. Gribben Unit 2H
Well Pad Name: Dogwood 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

| State: County: | the well plat, all for proposed well work on the tra | | 523665.018m RECEIVED 4375233.039m Office of Oil and Gas | | |
|---|--|---|--|--|--|
| | Wetzel | Northing: | | | |
| District: Quadrangle: | Green Fine Grove 7.5' | Public Road Access: | Dallison Lumber InUL 0 2 2021 | | |
| Waterched: | Fishing Creek that I have no objection to the planned work descr | | | | |
| | | FOR EXECUT | ION BY A NATURAL PERSON | | |
| *Please checl | k the box that applies | FOR EXECUT | ION BY A NATURAL PERSON | | |
| CI CLIDEL | | | | | |
| LI SURFA | CE OWNER | Signature: | | | |
| | | Print Name: | | | |
| □ SURFA | CE OWNER (Road and/or Other Disturbance) | Print Name: | | | |
| □ SURFA | CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) | Print Name: Date: | | | |
| □ SURFAC | CE OWNER (Road and/or Other Disturbance) | Print Name: Date: FOR EXECUT Company: | ION BY A CORPORATION, ETC. | | |
| □ SURFAC □ SURFAC □ COAL C | CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) | Print Name: Date: FOR EXECUT Company: By: | ION BY A CORPORATION, ETC. | | |
| □ SURFAG □ SURFAG □ COAL C □ COAL C | CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) DWNER OR LESSEE DPERATOR | Print Name: | ION BY A CORPORATION, ETC. | | |
| □ SURFACE □ SURFACE □ COAL CE □ COAL CE □ WATER | CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) DWNER OR LESSEE | Print Name: Date: FOR EXECUT Company: By: Its: Signature: | ION BY A CORPORATION, ETC. | | |

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 deprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

June 15, 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 Dogwood Pad, Wetzel County Gribben Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0075 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 50 SLS MP 3.58.

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.

Office of Oil and Gas

Very Truly Yours,

JUL 0 2 2021

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Mallory Stanton Antero Resources CH, OM, D-6

File

List of Anticipated Additives Used for Fracturing or Stimulating Well

| Additives | Chemical Abstract Service Number (CAS #) |
|--|--|
| Fresh Water | 7732-18-5 |
| 2 Phosphobutane 1,2,4 tricarboxylic acid | 37971-36-1 |
| Ammonium Persulfate | 7727-54-0 |
| Anionic copolymer | Proprietary |
| Anionic polymer | Proprietary |
| BTEX Free Hydrotreated Heavy Naphtha | 64742-48-9 |
| Cellulase enzyme | Proprietary |
| Demulsifier Base | Proprietary |
| Ethoxylated alcohol blend | Mixture |
| Ethoxylated Nonylphenol | 68412-54-4 |
| Ethoxylated oleylamine | 26635-93-8 |
| Ethylene Glycol | 107-21-1 |
| Glycol Ethers | 111-76-2 |
| Guar gum | 9000-30-0 |
| Hydrogen Chloride | 7647-01-0 |
| Hydrotreated light distillates, non-aromatic, BTEX free | 64742-47-8 |
| Isopropyi alcohol | 67-63-0 |
| liquid, 2,2-dibromo-3-nitrilopropionamide | 10222-01-2 |
| Microparticle | Proprietary |
| Petroleum Distillates (BTEX Below Detect) | 64742-47-8 |
| Polyacrylamide | 57-55-6 |
| 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, quinoline derivs, benzyl chloride-quaternized | 72480-70-7 |
| Solvent Naphtha, 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 |
| Hexamthylene Triamine Penta | 34690-00-1 Office of Oil and Gas |
| Phosphino Carboxylic acid polymer | |
| Hexamethylene Diamine Tetra | 23605-75-5 JUL 0 2 21 21 |
| 2-Propenoic acid, polymer with 2 propenamide | |
| Hexamethylene diamine penta (methylene phosphonic acid) | 9003-06-9 WV Department of 23605-74-5 Environmental Projection |
| Diethylene Glycol | 111-46-6 |
| Methenamine | 100-97-0 |
| Polyethylene polyamine | 68603-67-8 |
| Coco amine | 61791-14-8 |
| 2-Propyn-1-olcompound with methyloxirane | 38172-91-7 |

DOGWOOD WELL PAD & WATER CONTAINMENT PAD

AS-BUILT AND EROSION & SEDIMENT CONTROL IMPROVEMENT PLAN

GREEN DISTRICT, WETZEL COUNTY, WEST VIRGINIA LITTLE MUSKINGUM-MIDDLE ISLAND WATERSHED

PORTERS FALLS & PINE CROVE USGS 7.5 QUAD MAP(S)

LOCATION COORDINATES:
ACCESS ROAD EXPERIMENT
LATTINGS PROMISED LONGITUDE -60,730049 (MAD 63)
LATTINGS DOSESORS LOXGITUDE -60,730049 (MAD 73)
H 4370697.21 E 50,8004.32 (UM 20)0.17 METERS)

CENTER OF TANX
LATFIUDE 39.528916 LONGITUDE -82.724036 (MAD 80)
LATFIUDE 39.528849 LONGITUDE -82.724036 (MAD 80)
H 437289.37 E 523717 71 (UTM ZONE 17 METERS)

CENTROLU OF PAD
LANTITUE 26.580580 LONGITUDE -60.724419 (NAD 83)
LANTITUE 29.580507 LONGITUDE -60.724408 (NAD 87)
N ASTRESS 33 E 523886.25 (UTM 2008 17 METERS)

GENERAL DESCRIPTION.
THE ACCESS ROAD(S) NOTE: CONTAINENT PAD, AND WELL PAD HAVE HERE CONSTRUCTED TO AID IN THE DIVIDIDANT OF DESCRIPTION MARKELING STALE GAS WALLS.

FLOODPLAIN NOTES:

PROPOSED SITE IS LOCATED WITHIN FEMA PLOOD ZONE 'N' PER FEMA PLOOD MAP #54190COLPGG.

MISS UTILITY STATEMENT:
ANTHOR DESCRIPTION TO THE HOTOPHIC WISE INTLIFY OF FIRST VERDINA FOR THE LOCATION OF UTILITY PROPERTY DESCRIPTIONS. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE PROPERTY DESCRIPTION FOR THE PROPERTY OF THE STATE OF CONSTRUCTION FOR THESE PROPERTY.

ENTRANCE PERMIT:

ENVIRONMENTAL MITTES:

SPERMA MO WETHAND DOMENATIONS, WERE PERFORMED ON SEPTEMBER 6, SOME BY SC. HARVEY

SPERMA MO WETHAND DOMENATIONS, WERE PERFORMED ON SEPTEMBER THAT MER MOUT LINES WITHIN

THE REGULATORY PERFORMS OF THE U.S. ARMY COURS OF SECURE (MEMORISE (MANOR) THE FIRST

VERBERA DEFENDATION OF ENVIRONMENTAL PROTECTION SEVERE) THE SEPTEMBER 7, 2017 AQUARTE

PRATILIEST MAY HAVE PERFORMED BY CO. RAWYYE OF ENVIRONMENTAL L.C. ARM STOCKARITES THE SECURITY OF THE LANDWARD MAINTS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE UMANCE ON THE

WYDER.

PROJECT CONTACTS:

OPERATOR: ANYERO RESOURCES CORPORATION DIS WHITE OAKS BLVD DRIDGEFORT, WV 20200

PHONE (304) 842-4100 FAX (304) 842-4102 | PAC | (304) | 042-4102 | ENGINEER & ENGINEER & ENGINEER | ENGINE

DMNA HOFF - SVP OPERATIONS OFFICE (2001) 367-6984

AANON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 542-4191

POBERT WERKS - DESIGN MANAGER OFFICE (804) 842-4100 CTEL (304) 827-7405 CHARLES E. COMPTON, IN - WILLITY COORDINATOR CELL (304) 739-6449

WVDEP OOG

ACCEPTED AS-BUILT

8/10/2021

MARK HUTSON - LAND AGENT CELL: (304) 669-6315

ENVIRONMENTAL KC HARVEY ENVIRONMENTAL LLC SHANNON THOMPSON - STAPP SCIENTIST OFFICE (240) NYS-1870 CELL (370) 396-8280

NOTES

MANAGER'S MINT REMAIN IN PLACE AND PUNCTIONAL INTEL ALL SEES WITHIN THE JUST OF SETTIFISHING AND COMPARTS AND PERMANENTY GRADILEZED MANTENANCE MUST INCLUDE INSPECTION OF ALL EXPERTED MAIN PERMANENT CONTROLS AFTER EACH HUMOFF EVENT IS EXCESS OF SAY AND NO 4 EXTERNING MAIN PROPERTY.

- 2 THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION VILST BE INITIATED NO LATER TIAN 7 DAYS AFTER. ESTREMENHENCY OF TRAKE STABLEZATION WIGHT HE SHITAKED NO LATER THAN IT DAYS AFTER REACKING PRINC LOUDGE AND THAT ETHER A PERMANENT VOCESHITY OF THAT ALL TORS. POWERING ACTIVITIES ARE COUNTED, AND THAT ETHER A PERMANENT VOCESHITY OF OVER THAT ALL TORS. POWERING ACTIVITIES ARE SUCH AND PRINCIPLES OF THAT THE SUPERACE LINE BEEN STABLEDED BY LAND COVER SUCH AS PAYMENT OF UNLESSMENT STABLED BY LAND COVER TO THE TOTAL AREA VOCESHED AND NOT STATE OFFICERY OF THE SIZE.
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PROMANENTLY STABILIZED AND APPRIONAL IS RECEIVED FROM THE WYDER.
- ANY AREAS DESTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED AND
- THE AS-BUILT INFORMATION SHOWN HEREON REPLECTS DATA COLLECTED BY OTHERS, PROVIDED BY ANYHOR RESOURCES, RELATING BY THE FINAL GRAZING OF THE BESTUREED AREA. THE RESOURCESING VERTICAL THE FINAL CRAIMS OF THE SHOW AREA AS OF THE CASE AREA AS OF THE CASE ANY OTHER DATA OF THE CASE AND AS OF THE CASE AND AS OF THE SHOWN AND AS OF THE CASE AND AS OF THE CASE ANY OTHER DATA OF THE CASE AND AS OF T
- THE EXECUTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO DESIGN TO DESIGN OPERATIONS
- THE EXISTING EXPENSES TO THE WELL PAD SHALL HAVE THE NOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE LOOK CONTABRMENT OF ALL FLUIDS PRIOR TO DELLUNG OPERATIONS

((SITE ENTRANCE . 0 (11)

WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

AS BUILT CERTIFICATIONS:
THE DEARINGS, CONSTRUCTION NOTES, AND
REPUBLINGE DIAGRAMS ATMICISED HIGHER HAVE
BEEN PREPARED IN ACCOMMANCE WITH THE
FIRST MIRITIAN CODE OF STATE RULLES, DIVISION
OF ENVIRONMENTAL PROFESSION, OFFICE OF DIL
MS GAS CES 33-6.



MISS Utility of West Virginia 1-800-245-4848 West Virginio 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!!

SHEET INDEX

- I POYER SHOP
- R LEGEND
- 8 OVERALL PLAN SHIELT DURCE
- A ACCESS BOAD AS-BIOLE PLAN
- 5-6 ACCESS ROAD & WILL PAD AS-BUILT PLAN
- 7 ADDESS BOAD AS-BUILD PROPERTY
- 9 CONSTRUCTION DETAILS.
- 10 ACCESS BOAD PROLAMATION MANS
- IN-IN ACCESS ROAD & WELL PAD RECLAMATION PLAN

| DOCUMED LIMITS OF DISTURBANCE | AREX (AC) |
|---------------------------------------|-----------|
| Total Site | Total |
| Access Road | 9.89 |
| Well Pad | 15.40 |
| Siockpile Area | 5.97 |
| Additional Limits of Disturbance | 4.70 |
| Total Affecting Area | 35,56 |
| Total Wooded Acres Distribed | 2474 |
| Impacts to Bartrup, Terry APNR 05 | 5-20-12 |
| Access Road | 5.41 |
| Apdreprial Limits of Disturbunce | 3.30 |
| Total Affected Area | 9.71 |
| Total Wooded Acres Dishirbed | 2.23 |
| linguets to Califson Lumber, inc. APR | 06-20-53 |
| Access Road | 3.45 |
| Well Fac | 15.40 |
| Stockpile Area | 5.97 |
| Additional Limits of Disturbance | 1.40 |
| Total Affected Area | 20.26 |
| Total Wooded Acres Diskuted | 22.51 |

| Watim | 15/40 (Gunt) 15/40 19 | NAC STLAND LONG | MIN INCTEMA | NORTH ALL | |
|---------------------|-------------------------------|---|--------------------------------|---|--|
| | Hamiled Lengton | | | | |
| Direct TH | 4 97921-4.07 E 9654577 NO | LAT 39-31 35 2717 LONG 40-41-21 2781 | 74 4375346,75 IT 523466.36 | LAT 35-01-00 5020 | |
| Unit 2H | 4 370189/09 C 5054575.54 | LONG 40-43-20 5444 | *(43/1242 18 5 525665 24 | LONG-10-41-17 9/05 | |
| Onlisted Unit 1H | 6 300164 10 E 18545/6 22 | LONG 40-43 JR 3467 | | AT 19-11-34 2654 LDHG 40-42-27 5118 | |
| Orlabin Deltah | 4 976169 11 0.1054675.70 | LAT 39-31 34 0273 LONG-89-43-24 5584 | F 4375239 DA E 523686 02 | LONG BOARD BYON | |
| Deags Unit 1H | 14 378154.12 C \$604575.04 | LAT 39-31-3416199 LONG 80-1-20-500A | 11 \$275228 47 5 \$23684 91 | LAT 39-31-34 9692 LOVG 40-43-27 6224 | |
| Topowed Well I | Rad Pleustice | 1,309.0 | | | |

REPRODUCTION NOTE

PAPER HALF SCALE PRAYINGS AND ON STREET (AND D) PAPER.

HIERE PLANS WIRE EMENTED PUR COLOR PLOTTING ANY ANY REPRODUCTIONS IN USEY SYARE OR COLOR MAY RESPUE BY A LOSE OF INSTRUMENTA AND SHOULD NOT USE INCOME SOCIETATION PROPRIES



| REVISION | NETSED FED WELL! | | |
|----------|------------------|--|--|
| DATE | 1202/11/20 | | |



PAD & WATER CONTAINMENT GREEN DISTRICT ETZEL COUNTY, WEST VIRGINIA DOGWOOD

WELL

DATE: 06/25/202 SCALE: AS SHOWN SHEET 1 OF 12

