

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

Tuesday, February 2, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re:

Permit approval for WHITMORE I H

47-095-02726-00-00

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: WHITMORE

Farm Name: ROGER D. BLIZZARD & RUT

U.S. WELL NUMBER: 47-095-02726-00-00

Horizontal 6A New Drill

Date Issued: 2/2/2021

Promoting a healthy environment.

| 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.
- 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.

WW-6B (04/15)

| API NO. 47-095 - | | |
|---------------------|---------|------------------|
| OPERATOR WEL | L NO. | Whitmore Unit 1H |
| Well Pad Name | Blizzar | d Pad |

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

| l) Well Operator: | Antero R | esources | Corporat | 494507062 | 095 - Tyler | Ellsworth | Porters Falls 7.5' |
|--|---------------|---------------|-----------------|--|-------------------|-----------|--|
| | | | | Operator ID | County | District | Quadrangle |
| 2) Operator's We | ll Number: | Whitmore | Unit 1H | Well Pad | Name: Blizza | rd Pad | |
| 3) Farm Name/Su | ırface Owne | Roger D. Bliz | zzard & Ruth E. | Spencer Public Road | d Access: US | Route 34 | |
| 4) Elevation, curr | ent ground: | 1004' | Ele | evation, proposed p | post-construction | on: | |
| 5) Well Type (a | a) Gas X | | | Unde | | | |
| C | Other | | | | | | |
| (1) | b)If Gas | Shallow | X | Deep | | | |
| | | Horizontal | X | | | | |
| 6) Existing Pad: Y | _ | | | | | | |
| | | | | pated Thickness ar ss- 55 feet, Associa | - | | |
| 8) Proposed Total | l Vertical De | epth: 750 | 0' TVD | | | | |
| 9) Formation at T | otal Vertica | l Depth: | Marcellus | | | | |
| 10) Proposed Total | al Measured | Depth: | 12100' | | | | |
| 11) Proposed Hor | rizontal Leg | Length: | 3805' | | | | |
| 12) Approximate | Fresh Water | r Strata De | pths: | 16' | | | |
| 13) Method to De | etermine Fre | sh Water D | Depths: 4 | 7-095-02274 | | | * |
| 14) Approximate | Saltwater D | epths: 14 | 30', 1813' | | | | |
| 15) Approximate | Coal Seam | Depths: N | one Iden | tified | | | |
| 16) Approximate | Depth to Po | ssible Voi | d (coal mi | ne, karst, other): | None Anticipat | ed | |
| 17) Does Propose directly overlying | | | | ns Yes | No | X | |
| (a) If Yes, provi | de Mine Inf | o: Name: | | | | | |
| (a) 11 1 ob, pro 11 | | Depth | - | | | | Office of Oil and Gas |
| | | Seam: | | | | | FFB 0 1 2021 |
| | | Owner | - | | | | TED V 1 ZUZI |
| | | | - | | | E | WV Department of Environmental Protection |

John Cragin Blevins Digitally signed by John Cragin Blevins Date: 2021.01.27 09:04:41-05'00' Page 1 of 3

(ST/tO) MM-6B

Well Pad Name: Blizzard Pad API NO. 47- 096 - POPELL NO. Whitmore Unit 11H

CASING AND TUBING PROGRAM

18)

| | | | | | | | Liners |
|-------------------------------------|------------------------------------|----------------------------|------------------------|-------|-------------|-----------------------|--------------|
| | | 1 | # <i>L</i> . <i>A</i> | 08-N | wəN | "8\£-S | gniduT |
| 2912 Cu. Ft | 12070' | 12070' | 53# | D-110 | wəN | 17/L-G | Production |
| | | | | | | | Intermediate |
| CTS, 1018 Cu. Ft. | 2200 | 2200, | #98 | 99-r | wəN | . 8/9-6 | Coal |
| CTS, 417 Cu. Ft. | 300 | 300, | #9"19 | 29-r | wəN | 13-3/8" | Fresh Water |
| CTS, 77 Cu. Ft. | '08 | '08 | #76 | 07-H | wəN | 20,, | Conductor |
| CEMENT: Fill-up (Cu. Ft.)/CTS | INTERVALS: Left in Well (ft) | FOOTAGE: For Drilling (ft) | Weight per ft. (lb/ft) | Grade | New Or Used | Size (<u>mi</u>) | ТХРЕ |

1101/11/18/

| | | | | | | | Liners |
|---------------------------------------|-----------------------|--|----------------------|---------------------------|---------------------------|-----------|--------------|
| | | | 11,200 | "61.0 | "877.4 | "8\£-Z | gniduT |
| 8.1-H & 44.1-ZO9\H | H - IleT & ZOR\H-beeJ | S200 | 12,630 | "314.0 | 8-3/4" & 8-1/2" | .Z/L-G | Production |
| | | | | | | | Intermediate |
| 81.1~ | A sasiD | 1200 | 3250 | "S3E.0 | 12-1/4" | 8/9-6 | Coal |
| 81.1~ | A sasiO | 1000 | 2730 | "8£.0 | "Z/I-71 | 13-3/8" | Fresh Water |
| 81.1~ | A sasiD | 09 | 1230 | "854.0 | 24" | 20″ | Conductor |
| Cement <u>Yield</u> (cu. ft./k) | Cement | Anticipated Max. Internal Pressure (psi) | Burst Pressure (psi) | Wall Thickness (in) | Wellbore Diameter (in) | Size (in) | LXbE |

BYCKEKS

| Depths Set: | A\N | LEB 0 |
|-------------|-----|---------------|
| Sizes: | A\N | Office of Oil |
| Kind: | A\N | ABCE |

Environmental Protection WV Department of

WW-6B (10/14)

API NO. 47- 095

OPERATOR WELL NO. Whitmore Unit 1H

Well Pad Name: Blizzard Pad

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

Drill a new vertical shallow well into the Marcellus Shale.

JCB 1/27/2021

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): Existing 26.80 acres
- 22) Area to be disturbed for well pad only, less access road (acres): Existing 9.52 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:

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Office of Oil and Gas

FEB 0 1 2021

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

WW-9 (4/16)

| API Number 47 - | 095 | |
|-----------------|----------|------------------|
| Operator's | Well No. | Whitmore Unit 1H |

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) Outlet Middle Island Creek Quadrangle Shirley 7.5' |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No |
| Will a pit be used? Yes No V |
| If so, please describe anticipated pit waste: No pit will be 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: OCB 1/27/2021 |
| 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. API# will be provided on Form WR-34 |
| Reuse (at API Number_Future permitted well locations when applicable. API# will be provided on Form WR-34 Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) |
| Other (Explain Northwestern Landfill Permit #SWF-1025 |
| |
| Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill. |
| Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Surface-Alr/Freshwater, Intermediate-Dust/Stiff Foam, Production-Water Based Mud |
| -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 stored in tanks, removed offsite and taken to landfill. |
| -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A |
| -Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit #SWF-1025/WV0109410) |
| Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. |
| I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment. Company Official Signature Gretchen Kohler Company Official Title Senior Environmental & Regulatory Manager FEB 0 1 2021 |
| |
| Subscribed and sworn before me this day of PUMPH, 20 Department of Environmental Protection Notary Public MEGAN-GRIFFITH |
| My commission expires NOTARY PUBLIC STATE OF COLORADO |
| NOTARY ID 20184011666 MY COMMISSION EXPIRES MARCH 13, 2022 |

Operator's Well No. Whitmore Unit 1H

| 0 | A Disc. 11 26.8 | RO | Description: | .TT | |
|---|--|---------------------------------------|--|---|------------------|
| Proposed Revegetation Treatmen | | | Prevegetation p | Н | |
| | Tons/acre or to correct to | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | |
| Fertilizer type Hay or st | raw or Wood Fiber (will be 1 | ised where heeded | 1 | | |
| Fertilizer amount 500 | | lbs/acre | | | |
| Mulch 2-3 | T | ons/acre | | | |
| Existing Access Road | (3.76 acres) + Access Road "A" (1.47 acres) + Excess/Topso | | "B" (1.84 acres) + Staging Area (19 acres) = 26.80 Acres | (1.02 acres) + Well Pad (9.52 | |
| | | Seed Mixtures | | | |
| Tempo | orary | | Perm | anent | |
| Seed Type | lbs/acre | | Seed Type | lbs/acre | |
| Annual Ryegrass | 40 | Crov | /nvetch | 10-15 | |
| Field Bromegrass | 40 | Tall | Fescue | 30 | |
| See attached Table IV-3 for additional se | eed type (Blizzard Pad Design) | See atta | ched Table IV-4A for addition | al seed type (Blizzard Pad Design) | |
| or type of grass seed reque | ested by surface owner | *or typ | e of grass seed requ | ested by surface owner | |
| Taps(s) of road, location, pit and rovided). If water from the pit we be age, of the land application a | vill be land applied, includ area | pplication (unles de dimensions (L | s engineered plans inclux W x D) of the pit, an | uding this info have been ad dimensions (L x W), and are | ea in |
| Maps(s) of road, location, pit and rovided). If water from the pit water grange, of the land application a | vill be land applied, includ area | pplication (unles de dimensions (L | s engineered plans inclux W x D) of the pit, an | uding this info have been ad dimensions (L x W), and are | ea in |
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| Attach: Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application a Photocopied section of involved Plan Approved by: Comments: Citle: Oil & Gas Inspecto | vill be land applied, includurea. 7.5' topographic sheet. agin Blavins | de dimensions (L | s engineered plans inch x W x D) of the pit, an | ad dimensions (L x W), and are | EIVED Dil and |

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

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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

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WV Department of Environmental Protection



911 Address 2993 Gorrells Run Road Middlebourne, WV 26149

Well Site Safety Plan Antero Resources

Well Name: Kerns Unit 1H-2H, Loraina Unit 1H-3H & Richmond

Unit 1H-2H, Pechora Unit 1H-2H, Whitmore Unit

1H-2H & Wade Unit 2H

Pad Location: BLIZZARD PAD

Tyler County/Ellsworth District

GPS Coordinates:

Entrance - Lat 39°29'43.3"/Long -80°51'03.4" (NAD83)

Pad Center - Lat 39°29'55.5"/Long -80°51'02.4" (NAD83)

Driving Directions:

From the Fire Department in Middlebourne: Head northeast on Main St toward Wilcox Ave for 0.2 miles, turn right onto Park Ave for 397 ft, turn left onto Gorrell Run Rd/Gorrells Run Rd for 0.4 miles, turn left onto Gorrell Run Rd for 0.2 miles, continue onto Gorrells Run Rd for 2.3 miles, lease road will be on your left.

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Alternate Route:

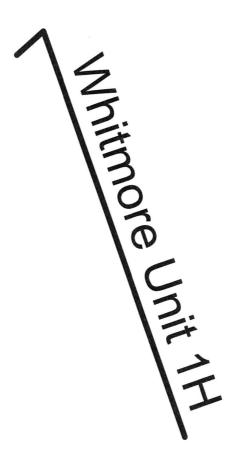
From the intersection of Klondike Ridge and Highway 18 in Centerville: Turn left onto WV-18 Nironmental Potection for 9.0 miles, turn right onto Park Ave for 397 ft, turn left onto Gorrell Run Rd/Gorrells Run Rd for 0.4 miles, turn left onto Gorrell Run Rd for 2.3

miles, lease road will be on your left

1

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

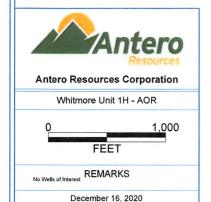




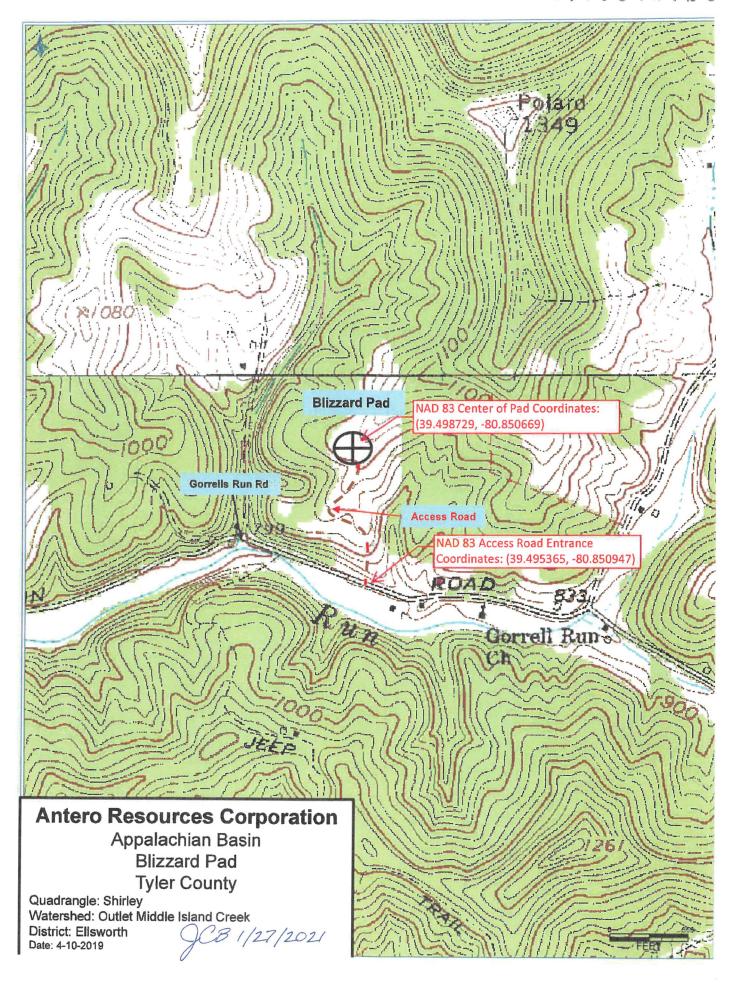
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DEC 2 1 2020

WV Department of Environmental Protection



PETRA 12/16/2020 7:24:09 AM





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

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

RE:

Water Management Plan Updates

Blizzard Pad (WMP #2125)

To Whom It May Concern:

Antero Resources (Antero) is submitting the enclosed updates to the Blizzard 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 and highlighted in the WMP are the following changes to the Blizzard Pad WMP:

- Add Hall Drilling Clarksburg Tap
- Add Hall Drilling Salem Tap
- Remove Antero Clearwater Facility
- Remove the following Centralized Pits
 - oCoastal 1 North CWP
 - oHamilton CWP
 - oMcGill CWP
 - oRichard Garry CWP
 - o Vogt CWP

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

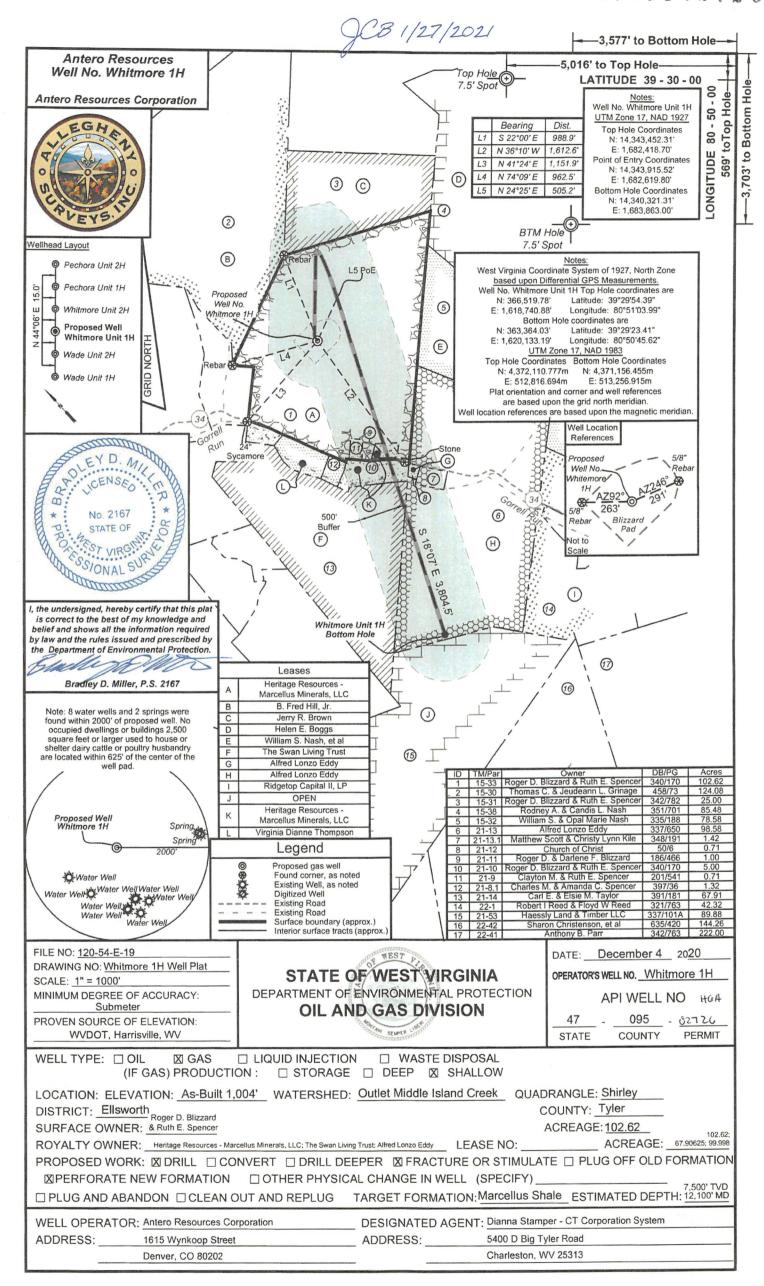
Environmental & Regulatory Manager

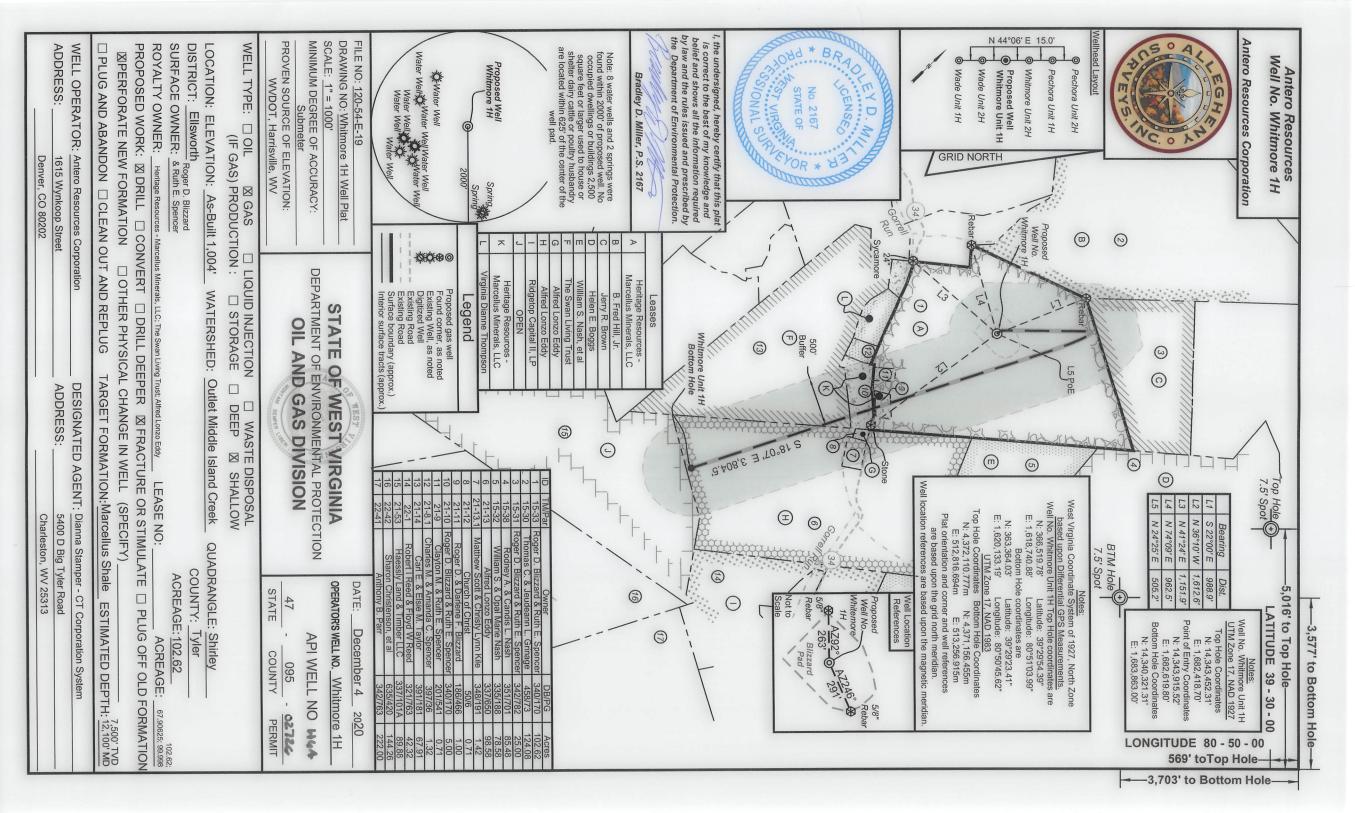
Enclosures

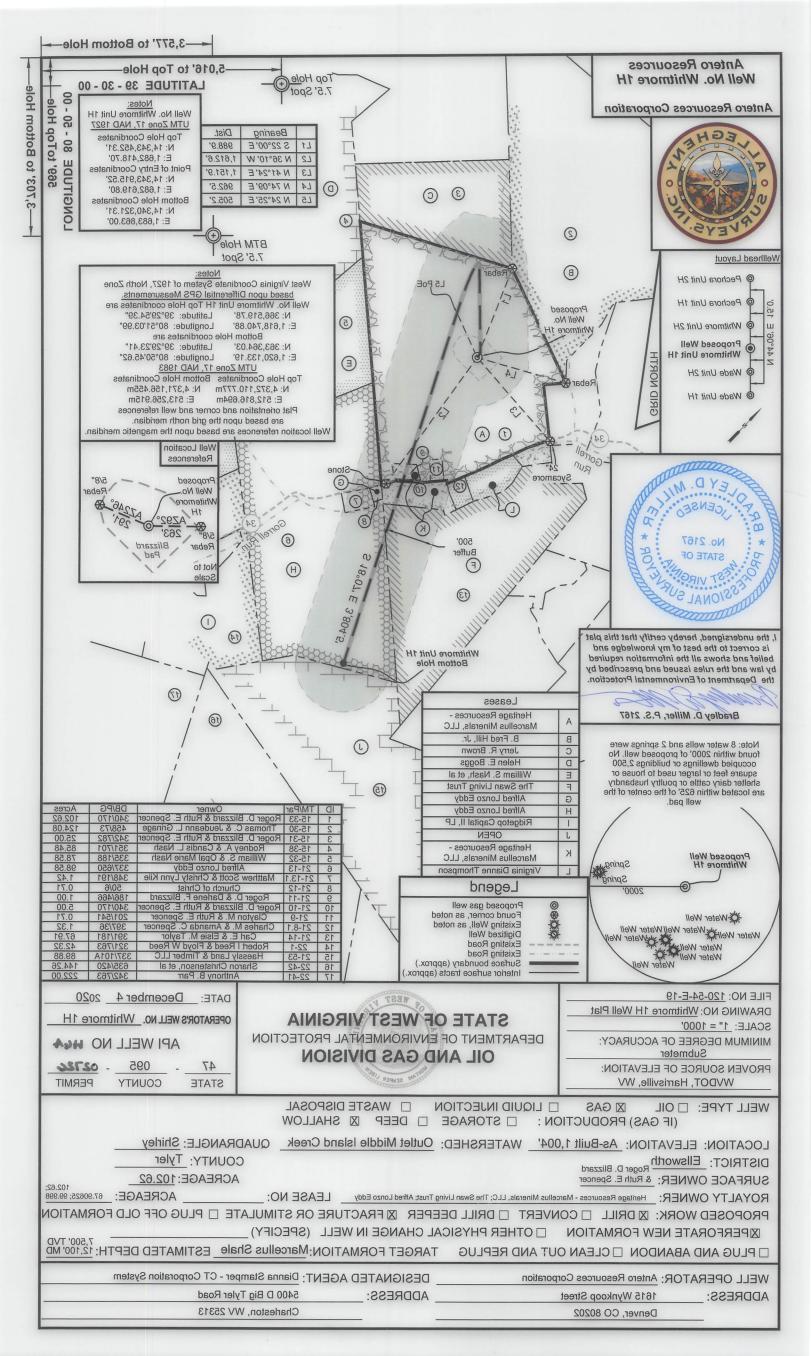
RECEIVED
Office of Oil and Gas

DEC 2 1 2020

WV Department of Environmental Protection







Operator's Well Number

Whitmore Unit 1H

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 |
|--|------------------------------|---------|-------------|
| Heritage Resources Marcellus Minerals Lease (TM 28 PCL 31) Heritage Resources Marcellus Minerals | Antero Resources Corporation | 1/8+ | 0627/0134 |
| Heritage Resources Marcellus Minerals Lease (TM 28 PCL 31.7) Heritage Resources Marcellus Minerals | Antero Resources Corporation | 1/8+ | 0627/0134 / |
| Heritage Resources Marcellus Minerals Lease (TM 28 PCL 31.8) Heritage Resources Marcellus Minerals | Antero Resources Corporation | 1/8+ | 0627/0134 |
| The Swan Living Trust Lease The Swan Living Trust | Antero Resources Corporation | 1/8+ | 0400/0694 / |

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

| WW-6A1 |
|--------|
| (5/13) |

| Operator's Well No. | Whitmore Unit 1H | |
|---------------------|------------------|--|
| | | |

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 -

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- (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 Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page | |
|-------------------------|--------------------------------|--------------------------------|------------|-----------|---|
| Alfred Lonzo Eddy Lease | | | | | _ |
| - | Alfred Lonzo Eddy | Petroedge Energy LLC | 1/8 | 0411/0534 | |
| | Petroedge Energy LLC | Statoil USA Onshore Properties | Assignment | 0406/0147 | |
| | Statoil USA Onshore Properties | EQT Production Company | Assignment | 0539/0239 | V |
| | EQT Production Company | Antero Resources Corporation | Assignment | 0663/0001 | |

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.

RECEIVED

Office of Oil and Ga

*Co-tenancy utilization - At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act

Well Operator: Antero Resources Corporation By: Tim Rady WV Department of Its: VP of Land Environmental Protection

Page 1 of 1

^{*}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.

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

RE:

Whitmore Unit 1H

Quadrangle: Shirley 7.5'

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Whitmore Unit 1H 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 Whitmore Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Adams

Tyler Adams

Landman

RECEIVED
Office of Oil and Gas

DEC 21 2020

WV Department of Environmental Protection

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

| Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provide below for the tract of land as follows: State: West Virginia UTM NAD 83 NOTICE: Ellsworth Public Road Access Quadrangle: Shirley 7.5' Generally used farm | Easting: 512816.694m Northing: 4372110.777 | with the Notice Forms listed |
|--|---|---|
| Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided below for the tract of land as follows: State: West Virginia County: Tyler District: Ellsworth Public Road Access Quadrangle: Shirley 7.5' Generally used farm | Well Pad Name: Blizza ded the required parties Easting: 512816.694m Northing: 4372110.7777 | with the Notice Forms listed |
| Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provide below for the tract of land as follows: State: West Virginia County: Tyler District: Ellsworth Quadrangle: Shirley 7.5' Public Road Access Generally used farm | Easting: 512816.694m Northing: 4372110.777 | |
| Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provide below for the tract of land as follows: State: West Virginia County: Tyler District: Ellsworth Quadrangle: Shirley 7.5' Public Road Access Generally used farm | Easting: 512816.694m Northing: 4372110.777 | |
| State: West Virginia UTM NAD 83 ITM NAD 83 <th>Northing: 4372110.777</th> <th></th> | Northing: 4372110.777 | |
| County: Tyler UTM NAD 83 District: Ellsworth Public Road Access Quadrangle: Shirley 7.5' Generally used farm | Northing: 4372110.777 | |
| County: Tyler Public Road Acces Quadrangle: Shirley 7.5' Generally used farm | · | |
| Quadrangle: Shirley 7.5' Generally used far | SS: US Route 34 | 1 |
| • | | |
| | m name: Roger D. Blizz | ard & Ruth E. Spencer |
| Watershed: Outlet Middle Island Creek | | |
| it has provided the owners of the surface described in subdivisions (1), (2) an information required by subsections (b) and (c), section sixteen of this article; (ii) of giving the surface owner notice of entry to survey pursuant to subsection (a requirements of subsection (b), section sixteen of this article were waived in v Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the of this article have been completed by the applicant. | that the requirement w), section ten of this a writing by the surface | as deemed satisfied as a resul rticle six-a; or (iii) the notice owner; and Pursuant to Wes |
| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to thi that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY | s Notice Certification | OOG OFFICE USE ONLY |
| ☐ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS | | ☐ RECEIVED/ NOT REQUIRED |
| ☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVE | Y WAS CONDUCTEI | P RECEIVED |
| ■ 3. NOTICE OF INTENT TO DRILL OF NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PIWAS CONDUCTED OF | | ☐ RECEIVED/ NOT REQUIRED |
| ☐ WRITTEN WAIVER B' (PLEASE ATTACH) | Y SURFACE OWNER | |
| ■ 4. NOTICE OF PLANNED OPERATION | | ☐ RECEIVED |
| ■ 5. PUBLIC NOTICE | | ☐ RECEIVED |
| ■ 6. NOTICE OF APPLICATION | | |

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 of Oil and Gase

Certification of Notice is hereby given:

THEREFORE. I Diana Hoff , 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

By:

Diana Hoff

Its:

Senior VP of Operations

Telephone:

303-357-7310

Address:

1615 Wynkoop Street

Denver, CO 80202

Facsimile:

303-357-7315

Email:

mgriffith@anteroresources.com

NOTARY SEAL MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO

NOTARY ID 20184011666

MY COMMISSION EXPIRES MARCH 13, 2022

Subscribed and sworn before me this

Notary Public

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

WV Department of Environmental Protection

API NO. 47-095 4-7095 502726

OPERATOR WELL NO. Whitmore Unit 1H Well Pad Name: Blizzard Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 12/18/20 Date Permit Application Filed: \2/18/20 Notice of: ✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A PERSONAL MAIL RECEIPT OR SIGNATURE CONFIRMATION **SÉRVICE** Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: Roger D. Blizzard & Ruth E. Spencer Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: 3135 Gorrells Run Address: Middlebourne, WV 26149 ☐ COAL OPERATOR Name: Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) □WATER PURVEYOR(s)/OWNER(s) OF WATER WELL. Name: Roger D. Blizzard & Ruth E. Spencer SPRING OR OTHER WATER SUPPLY SOURCE Address: 3135 Gorrells Run Name: PLEASE SEE ATTACHMENT Middlebourne, WV 26149 Address: Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) RECEIVED Name: Office of Oil and Gas Address: Address: DEC 2 1 2020 *Please attach additional forms if necessary

> WV Department of Environmental Protection

WW-6A (8-13)

API NO. 47-095

OPERATOR WELL NO. Whitmore Unit 1H

Well Pad Name: Blizzard 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 Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-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) 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 permitted or authorized by a Clean Water other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced Oil and Gas 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 well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items protection

WW-6A (8-13)

API NO. 47-095

OPERATOR WELL NO. Whitmore Unit 1H

Well Pad Name: Blizzard 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: RECEIVED Office of Oil and Gas

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

DEC 2 1 2020

WV Department of

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.

WW-6A (8-13)

API NO. 47- 095

OPERATOR WELL NO. Whitmore Unit 1H

Well Pad Name: Blizzard 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 Ollan Gas

DEC 21 770

WV Departmen

Environmence Protection

4:03502726

WW-6A (8-13)

API NO. 47- 095 OPERATOR WELL NO. Whitmore Unit 1H

Well Pad Name: Blizzard Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana Email: mgriffith@anteroresources.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 depprivacyofficer@wv.gov.

MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666 MY COMMISSION EXPIRES MARCH 13, 2022 Subscribed and sworn before me this

Notary Public

My Commission Expires

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DEC 2 1 2020

WV Department of Environmental Protection

WW-6A Notice of Application Attachment (BLIZZARD PAD):

WATER SOURCE OWNERS: Within 1500'

TM 15 PCL 34.1

1 Water Well: 1222.7' (W1)

Owner:

EQT Production Company

Address:

PO Box 6135

Pittsburg, PA 15222

TM 21 PCL 7

1 Water Well: 1133.5' (W2)

Owner:

Gary O. & Anita K. Bennett

Address:

2908 Gorrells Run Rd

Middlebourne, WV 26149

TM 21 PCL 8.1

2 Water Wells: 1337.1' (W3) & 1355.1' (W4)

Owner:

Charles M. & Amanda C. Spencer

Address:

3126 Gorrells Run Rd.

Middlebourne, WV 26149

TM 21 PCL 9

2 Water Wells: 1161.4' (W5) & 1179.9' (W6)

Owner:

Clayton M. & Ruth E. Spencer

Address:

3085 Gorrells Run Rd.

Middlebourne, WV 26149

TM 21 PCL 10

1 Water Well: 1498.5' (W7)

Owner:

Roger D. Blizzard & Ruth E. Spencer

Address:

3135 Gorrells Run Rd.

Middlebourne, WV 26149

TM 21 PCL 11

1 Water Well: 1344.6' (W8)

Owner:

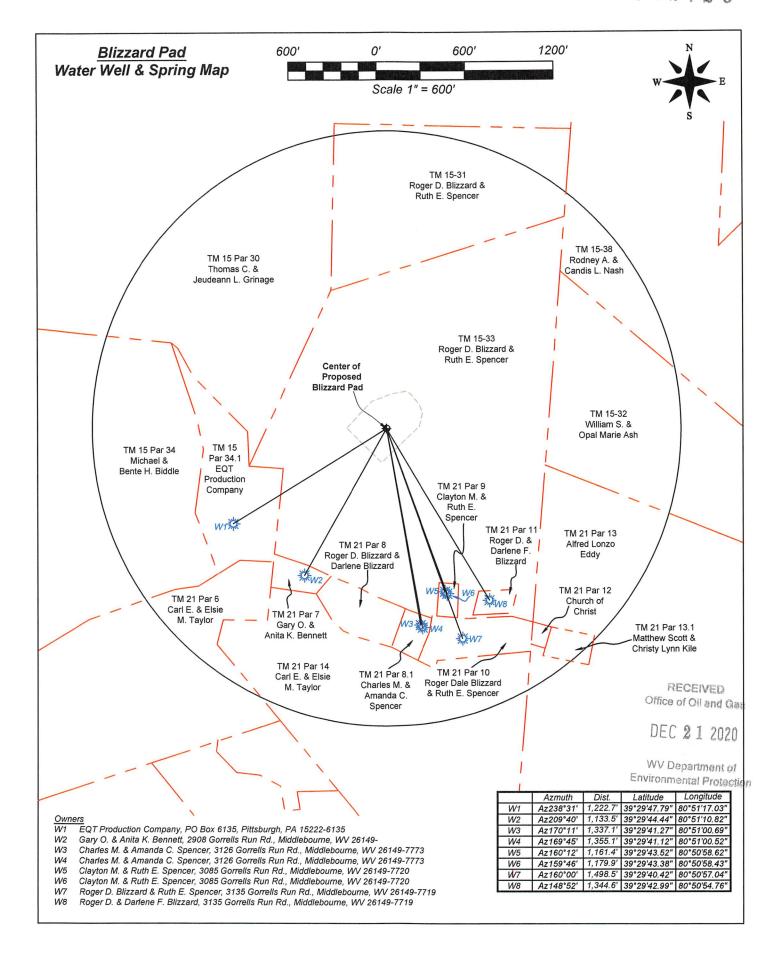
Roger D. Blizzard & Darlene F. Blizzard

Address:

3135 Gorrells Run Rd.

Middlebourne, WV 26149

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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 | Requirement: Notice shall be provided be: 12/02/2020 Date Po | at least TEN (10) days prior to filing a ermit Application Filed: 12/18/2020 | permit application. | |
|---|---|--|--|---|
| Delivery met | hod pursuant to West Virginia Code § | § 22-6A-16(b) | | |
| ☐ HAND | ■ CERTIFIED MAIL | | | |
| DELIVE | | FOLIESTED | | |
| | | ~ | | |
| receipt request drilling a horion of this subsection man | V. Va. Code § 22-6A-16(b), at least ten of sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was providing be waived in writing by the surface of le, facsimile number and electronic mail | wner notice of its intent to enter upon the pursuant to subsection (a), section teled to the surface owner: <i>Provided, how</i> wner. The notice, if required, shall incl | ne surface owner's land for the n of this article satisfies the vever, That the notice require ude the name, address, teleph | ne purpose of requirements ments of this none number, |
| Notice is he | reby provided to the SURFACE O | WNER(s): | | |
| | r D. Blizzard & Ruth E. Spencer | Name: | | |
| Address: 3135 | Gorrells Run | Address: | unic . | |
| Middl | ebourne, WV 26149 | | | |
| the surface ov State: County: District: Quadrangle: Watershed: | Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a West Virginia Tyler Ellsworth Shirley 7.5' Outlet Middle Island Creek | | | |
| | Shall Include: | | | |
| facsimile num related to hor located at 601 | West Virginia Code § 22-6A-16(b), the number and electronic mail address of the rizontal drilling may be obtained from the 57 th Street, SE, Charleston, WV 25304 reby given by: | e operator and the operator's authorize the Secretary, at the WV Department of | ed representative. Additional f Environmental Protection | information headquarters, |
| Well Operato | | Authorized Representative: | Megan Griffith | |
| Address: | 1615 Wynkoop St. | Address: | 1615 Wynkoop St. | RECEIVED |
| | Denver, CO 80202 | | Denver, CO 80202 | Office of Oil and Gas |
| Telephone: | 303-357-7310 | Telephone: | 303-357-7310 | |
| Email: | mgriffith@anteroresources.com | Email: | mgriffith@anteroresources.com | DEC 2 1 2020 |
| Facsimile: | 303-357-7315 | Facsimile: | 303-357-7315 | |
| acommic. | 000-001-1010 | | | WV Department of |
| 01 1 0 | Delan an Madi | | E | nvironmental Protection |

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WW-6A5 (1/12)

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

| Notice Time I Date of Notice | e: 12/18/2020 Date Permit Application | | | аррисаноп. —— |
|---|--|--|---|---|
| Delivery metl | nod pursuant to West Virginia Code § 22-6A-1 | 6(c) | | |
| | IED MAIL | | | |
| return receipt in the planned of required to be drilling of a halamages to the | Y. Va. Code § 22-6A-16(c), no later than the data requested or hand delivery, give the surface own peration. The notice required by this subsection provided by subsection (b), section ten of this are orizontal well; and (3) A proposed surface use a surface affected by oil and gas operations to the surface affected by this section shall be given to the surface. | er whose land on shall include ticle to a surfa and compense extent the da | will be used fo de: (1) A copy ace owner whos ation agreemen mages are comp | r 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. |
| at the address | by provided to the SURFACE OWNER(s) listed in the records of the sheriff at the time of a Blizzard & Ruth E. Spencer | | | |
| Address: 3135 | | | | |
| Middlebourne, W | | | | |
| | est Virginia Code § 22-6A-16(c), notice is herebythe surface owner's land for the purpose of drilling West Virginia Tyler Ellsworth | ng a horizonta UTM NAD 8 Public Road | l well on the tra Easting: Northing: | |
| Watershed: | Outlet Middle Island Creek | Generally use | a farm name. | Troger B. Billerara a Train E. Sporios. |
| to be provide horizontal we surface affect information re | est Virginia Code § 22-6A-16(c), this notice shad by W. Va. Code § 22-6A-10(b) to a surface ll; and (3) A proposed surface use and compensated by oil and gas operations to the extent the delated to horizontal drilling may be obtained from located at 601 57 th Street, SE, Charleston, V | owner whose ation agreement amages are common the Secret | e land will be unt containing an ompensable und ary, at the WV | ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection |
| Well Operator | : Antero Resources Corporation | Address: | 1615 Wynkoop Stre | et |
| Telephone: | (303) 357-7310 | | Denver, CO 80202 | |
| Email: | mgriffith@anteroresources.com | Facsimile: | | |
| Oil and Cas l | Privacy Natice | | | |

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

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List of Anticipated Additives Used for Fracturing or **Stimulating Well**

| Additives | Chemical Abstract Service Number |
|--|----------------------------------|
| Additives | (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 |
| Isopropyl 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 |
| Phosphino Carboxylic acid polymer | 71050-62-9 |
| Hexamethylene Diamine Tetra | 23605-75-5 |
| 2-Propenoic acid, polymer with 2 propenamide | 9003-06-9 |
| Hexamethylene diamine penta (methylene phosphonic acid) | 23605-74-5 |
| 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 |

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

December 14, 2020

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

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 Blizzard Pad, Tyler County
Whitmore Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2014-0557 which has been transferred to Antero Resources for access to the State Road for a well site located off Tyler County Route 34 SLS MP 3.20.

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.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Megan Griffith
Antero Resources
CH, OM, D-6

File

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Antero Resources Corporation Erosion and Sediment Control Plan for Blizzard Well Pad

Antero Resources Corporation (Antero) is submitting the following narrative and set of drawings in compliance with §35-8-5.4. This plan is submitted in conjunction with the Blizzard Well Pad Site Design & Construction Plan, Erosion & Sediment Control Plans prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection and Office of Oil and Gas, and certified by Navitus Engineering, Inc., a West Virginia registered professional engineer.

Requirement §5.4.b.1. A general sequence of events that describe in relative terms how and when each construction phase (i.e. clearing and grubbing, mass grading, stabilization) will occur and when each erosion and sediment control best management practice ("BMP") will be installed;

Antero Response:

The following includes a general sequence of events that describe in relative terms how and when each construction phase is anticipated to occur and erosion and sediment control BMPs to be installed. Please refer to the Blizzard Well Pad Site Design & Construction Plan, Erosion & Sediment Control Plans (Site Design) prepared and certified by Navitus Engineering, Inc. for specific construction measures. Compliance with the measures outlined in the Site Construction Plan (§35-8-5.4) submitted in conjunction with this plan will also be maintained.

- 1. Stake the limits of construction and mark/flag all identified wetlands, streams, utilities, and other areas of concern for construction activities. Install signs to designate the areas and orange safety fence to identify important project attributes such as approved access roads, no refueling zones, wetlands/steam bounds, etc.
- 2. A pre-construction conference with the contactor and the appropriate erosion and sediment control inspector 48 hours prior to beginning work to review the construction drawings and provide any requested guidance.
- 3. Construct the rock construction entrance. All vehicles entering and exiting the site shall do so via the rock construction entrance.
- 4. Construct all BMP's as soon as clearing and grubbing operations allow. Once installed, the area encompassing the BMP's outside the grading limits shall be seeded and mulched immediately.
- 5. If applicable, convey upslope drainage around the Access Road, Well Pad, and Water Containment Pad areas by constructing all diversion berm(s) and/or compost filter sock diversion(s) as shown on the plans.
- 6. Clear and grub the site. All woody material, brush, trees, stumps, large roots, boulders, and debris shall be cleared from the site area and kept to the minimum necessary for proper construction, including the installation of necessary sediment controls. Trees, brush, & stumps shall be cut and/or grubbed and windrowed in appropriate areas for use as sediment barriers at water drainage outlets (as shown on the plans), burned (as per WV forest fire laws), removed from site, or disposed of by other methods approved by WV DEP.
- 7. If applicable, install all wetland or stream crossings as shown on the plans.
- 8. Strip the topsoil from the access road. Topsoil stripping shall be kept to a minimum necessary to construct access road. Prior to placing any fill, the exposed subgrade shall be compacted affice of Oil and Gass

- proof rolled to produce a stable and unyielding site. All stripped topsoil shall be stockpiled in areas shown in the plans, or re-spread at an approximate depth of 2-4 inches on all proposed 2:1 or flatter slopes, and immediately stabilized. Additional BMP measures shall be constructed around topsoil stockpiles, if necessary.
- 9. Construct the access road. All fill areas, including excess material stockpiles, shall be "Keyed In" and compacted in horizontal lifts with a maximum loose lift thickness of 12" and maximum particle size as outlined in the geotechnical report. All fill shall be compacted by a vibrating sheepsfoot roller to 95% per the standard proctor test (ASTM D698). Moisture content will be controlled in accordance with the standard proctor test (ASTM D698) results. It is also recommended that each lift be proof rolled with a loaded haul truck where applicable. Ditch relief culverts shall be installed at a grade of 1-8% to minimize outlet velocities to the extent possible. Install outlet protection once ditch relief culverts are installed, as shown on plans. Stabilize the road with geotextile fabric & stone and side slopes as specified with permanent seeding. Excess material shall be stockpiled (if necessary) in areas shown in the plans and immediately stabilized. Topsoil shall be stripped from all stockpile areas prior to construction of stockpiles. After stockpiles are constructed, topsoil is to be reapplied at a depth of 2"-4". Slopes shall be tracked by running tracked machinery up and down the slope, leaving tread marks parallel to the contour. All ditch lines shall be cleaned prior to installation of lined protection.
- 10. Strip the topsoil from the well pad and water containment pad. Topsoil stripping shall be kept to a minimum necessary to construct well pad and water containment pad. Prior to placing any fill, the exposed subgrade shall be compacted and proof rolled to produce a stable and unyielding site. All stripped topsoil shall be stockpiled in areas shown in the plans, or re-spread at an approximate depth of 2-4 inches on all proposed 2:1 or flatter slopes, and immediately stabilized. Additional BMP measures shall be constructed around topsoil stockpiles, if necessary.
- 11. Grade the well pad and water containment pad areas as shown on the plans. Install pad sumps (with 4" PVC drain pipe and outlet protection) and containment berm liner system. Immediately stabilize the outer areas of the well pad and water containment pad. The well pad and water containment pad areas shall be stabilized with geotextile fabric & stone and the side slopes with seed and mulch. Install all straw wattles as shown on plans. Apply seed and mulch to all disturbed areas. This shall include all areas that will not be subject to regular traffic activity (to be stabilized with stone), or any disturbed area that will not be re-disturbed before site reclamation begins.
- 12. The construction site should be stabilized as soon as possible after completion. Establishment of final stabilization must be initiated no later than 7 days after reaching final grade. Final stabilization means that all soil-disturbing activities are completed, and that either a permanent vegetative cover with a density of 70% or greater has been established or that the surface has been stabilized by hard cover such as pavement or buildings. It should be noted that the 70% requirement refers to the total area vegetated and not just a percent of the site.
- 13. Commence well drilling activity.
- 14. All BMP's must remain in place and functional until all areas within the limit of disturbance are complete and permanently stabilized. Maintenance must include inspection of all erosion and sediment controls after each runoff event in excess of 0.5" in twenty-four (24) hour period..
- 15. All permanent sediment control measures can be removed after the site is permanently stabilized and approval is received from the WVDEP.
- 16. Any areas disturbed by removal of controls shall be repaired, stabilized, and permanently seeded.

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Requirement §5.4.b.2. A description of the stabilization methods to be used, including the application rates for temporary and permanent seeding and mulching, and provide the timeframes for establishing stabilization

Antero Response:

Stabilization methods used include seeding and mulching of disturbed areas as well as the implementation of erosion and sediment control BMPs. Please refer to "Construction and E&S Control Notes" on page 2 and "Construction Details" on pages 18-25 for detailed descriptions of the different stabilization methods to be used. Seeding and mulching is to be in accordance with the WVDOT Standard Specifications unless specified otherwise in the plans or unless specified otherwise by the construction engineer or Antero representative. Please refer to "Erosion and Sediment Control Narrative" under "Construction and E&S Control Notes" on page 2 as well as "Revegetation" on page 25 of the Site Design for more specific information regarding application, liming, and mulching rates.

Erosion and sediment BMPs will be constructed, stabilized, and functional before site disturbance begins within the tributary areas of those BMPs. In a timely manner after earth disturbance activities cease, Antero shall stabilize any areas disturbed by the activities. During non-germination periods, mulch must be applied at the specified rates. Disturbed areas which are not at finish grade and which will be redisturbed within 1 year will be stabilized in accordance with the temporary vegetative stabilization and specifications. Disturbed areas which are finished grade or which will not be re-disturbed within 1 year will be stabilized in accordance with the permanent vegetative stabilization specification. Please refer to "Construction and E&S Control Notes" on page 2 for more information regarding timeframes for establishing stabilization and erosion and sediment BMPs.

The site shall be considered to have achieved full stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics to resist sliding and other movements. Until the site achieves final stabilization, Antero will assure that the best management practices (BMPs) are implemented, inspected, operated, and maintained. As such, Antero will maintain written inspection logs. All maintenance work, including cleaning, repair, replacement, regarding, and re-stabilization shall be performed immediately upon discovery of deficiency. After final stabilization has been achieved, temporary erosion and sediment BMPs controls will be removed. Areas disturbed during removal of the BMPs will be stabilized immediately.

Requirement §5.4.b.3. Details of specifications for the erosion and sediment control BMPs employed on the project.

Antero Response:

Please refer to the "Construction and E&S Control Notes," and "Construction Details" on pages 2 and 18-25 in the Site Design for specifications including instructions for installation, inspection, and maintenance for erosion and sediment control BMPs employed at this site.

Requirement §5.4.c.1. A vicinity map locating the site in relation to the surrounding area and roads;

Antero Response:

A vicinity map locating the site in relation to the surrounding area and roads is included on page 1 of the RECEIVEL.

Site Design.

Requirement §5.4.c.2 A plan view site map at a scale of one inch equal to one hundred feet (1"=100') or greater, showing appropriate detail of all site features, including the identification of site access that provides for a stabilized construction entrance and exit to reduce tracking of sediment onto public or private roads; and

Antero Response:

"Overall Plan Sheet Index & Volumes," "Access Road & Stockpile Plan," "Access Road Plan," "Well Pad & Stockpile Plan," and "Well Pad Grading Plan," maps are included on pages 8-11 of the Site Design. Specific design, layout and inspection and maintenance notes for a stabilized construction entrance are included in the "Construction and E&S Control Notes" verbiage on page 2.

Requirement §5.4.c.3. The location of all proposed erosion and sediment control BMPs

Antero Response:

"Overall Plan Sheet Index & Volumes," "Access Road & Stockpile Plan," "Access Road Plan," "Well Pad & Stockpile Plan," and "Well Pad Grading Plan," maps are included on pages 8-11 of the Site Design locate all proposed erosion and sediment control BMPs.

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