



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 ORNER UNIT 1H
47-103-03428-00-00

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: ORNER UNIT 1H
Farm Name: DALLISON LUMBER, INC.
U.S. WELL NUMBER: 47-103-03428-00-00
Horizontal 6A New Drill
Date Issued: 8/23/2021

Promoting a healthy environment.

08/27/2021

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.

08/27/2021

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

1) Well Operator: Antero Resources Corporation 494507062 103-Wetzel Green Pine Grove 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Orner Unit 1H Well Pad Name: Dogwood Pad

3) Farm Name/Surface Owner: Dallison Lumber Inc. Public Road Access: CO. Route 50

4) Elevation, current ground: 1308' Elevation, proposed post-construction: _____

5) Well Type (a) Gas X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22500' MD

11) Proposed Horizontal Leg Length: 10932'

12) Approximate Fresh Water Strata Depths: 539'

13) Method to Determine Fresh Water Depths: 47-095-30941

14) Approximate Saltwater Depths: 2341'

15) Approximate Coal Seam Depths: 815'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No X

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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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#	22500 ✓	22500	5779 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Bryan Harris
7-20-21

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630 ✓	2500	Lead H/POZ & Tail - 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			

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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): 15.40

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23) Describe centralizer placement for each casing string:

Conductor: no centralizers
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.
Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake
Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

WW-9
(4/16)

API Number 47 - 103 - 03428
Operator's Well No. Orner 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) Fishing Creek Quadrangle Pine Grove 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

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:

- 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)
- Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
- Other (Explain Northwestern Landfill Permit #SWF-1025/WV0109410)

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 - Air/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 RECEIVED
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-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 (Typed Name) Gretchen Kohler

Company Official Title Director, Environmental and Regulatory Compliance

Subscribed and sworn before me this 1st day of July, 20 21

Alexandra Castillo Notary Public

My commission expires July 23, 2022



Antero Resources Corporation

Proposed Revegetation Treatment: Acres Disturbed 35.96 acres Prevegetation pH _____

Lime 2-4 Tons/acre or to correct to pH 6.5

Fertilizer type Hay or straw or Wood Fiber (will be used where needed)

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre
Well Pad Construction (15.40 acres) + Access Road Construction (9.89 acres) + Topsoil Stockpile (5.97 acres) + Additional Clearing (4.7 acres)
= Total Disturbed Area 35.96 Acres

Seed Mixtures

Temporary		Permanent	
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 seed type (Dogwood Pad Design)		See attached Table IV-4A for additional seed type (Dogwood Pad Design)	
*or type of grass seed requested by surface owner		*or type of grass seed requested by surface owner	

Attach:
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Inspector Date: 7-20-21

Field Reviewed? Yes No

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- 11. LD-9 Calcium Hydroxide – Lime
- 12. Mil Mica Polyether Polyol – Drilling Fluid Defoamer
- Hydro-Biotite Mica – LCM

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Antero Resources Corporation

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Permanent

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Crownvetch	10-15
Tall Fescue	30

See attached Table IV-3 for additional seed type (Dogwood Pad Design)

See attached Table IV-4A for additional seed type (Dogwood Pad Design)

*or type of grass seed requested by surface owner

*or type of grass seed requested by surface owner

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Hamer

Comments: _____

Title: Inspector

Date: 7-20-21

Field Reviewed? Yes

No

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Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb 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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08/27/2021

13. Escaid 110
Drilling Fluid Solvent – Aliphatic Hydrocarbon
14. Ligco
Highly Oxidized Leonardite – Filtration 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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47103032220000

47103311340000

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Antero Resources Corporation

Omer Unit 1H - AOR



- WELL SYMBOLS
Gas Well
- Plugged Gas Well

June 23, 2021

08/27/2021

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103032220000	KEYSTONE UNIT	3H	ANTERO RESOURCES CORPORATION	ANTERO RESOURCES CORPORATION	18,795	7687 - 18692	Marcellus	
47103311340000	EVA HAUGHT	1676	HOPE NATURAL GAS	HOPE NATURAL GAS	3,139	Unknown	Gordon	Weir, Berea, Benson, Alexander

4710303428

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Planned Disposal Method-UIC

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

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Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

FRACTURING/STIMULATING INTERVAL

Additive	Chemical Abstract Service Number (CAS #)
1. Fresh Water	7732-18-5
2. 2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3. Ammonium Persulfate	7727-54-0
4. Anionic copolymer	Proprietary
5. Anionic polymer	Proprietary
6. BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7. Cellulase enzyme	(Proprietary)
8. Demulsifier Base	(Proprietary)
9. Ethoxylated alcohol blend	Mixture
10. Ethoxylated Nonylphenol	68412-54-4
11. Ethoxylated oleylamine	26635-93-8
12. Ethylene Glycol	107-21-1
13. Glycol Ethers	111-76-2
14. Guar gum	9060-30-0
15. Hydrogen Chloride	7647-01-0
16. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
17. Isopropyl alcohol	67-63-0
18. Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
19. Microparticle	Proprietary
20. Petroleum Distillates (BTEX Below Detect)	64742-47-8
21. Polyacrylamide	57-55-6
22. Propargyl Alcohol	107-19-7
23. Propylene Glycol	57-55-6
24. Quartz	14808-60-7
25. Sillica crystalline quartz	7631-86-9
26. Sodium Chloride	7647-14-5
27. Sodium Hydroxide	1310-73-2
28. Sugar	57-50-1
29. Surfactant	68439-51-0
30. Suspending agent (solid)	14808-60-7
31. Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
32. Solvent Naptha, petroleum, heavy aliph	64742-96-7
33. Soybean Oil, Me ester	67784-80-9
34. Copolymer of Maleic and Acrylic Acid	52255-49-9
35. DETA Phosphonate	15827-60-8
36. Hexamethylene Triamine Penta	34690-00-1
37. Phosphino Carboxylic acid polymer	71050-62-9
38. Hexamethylene diamine penta	23605-74-5
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9
40. Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
41. Diethylene Glycol	111-46-6
42. Methenamine	100-97-0
43. Polyethylene polyamine	68603-67-8
44. Coco amine	61791-14-8
45. 2-Propyn-1-olcompound with methyloxirane	38172-91-7

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911 Address
3501 Furbee Ridge Rd,
Reader, WV 26167

Well Site Safety Plan

Antero Resources

Byron Harris
 7-20-21

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

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:

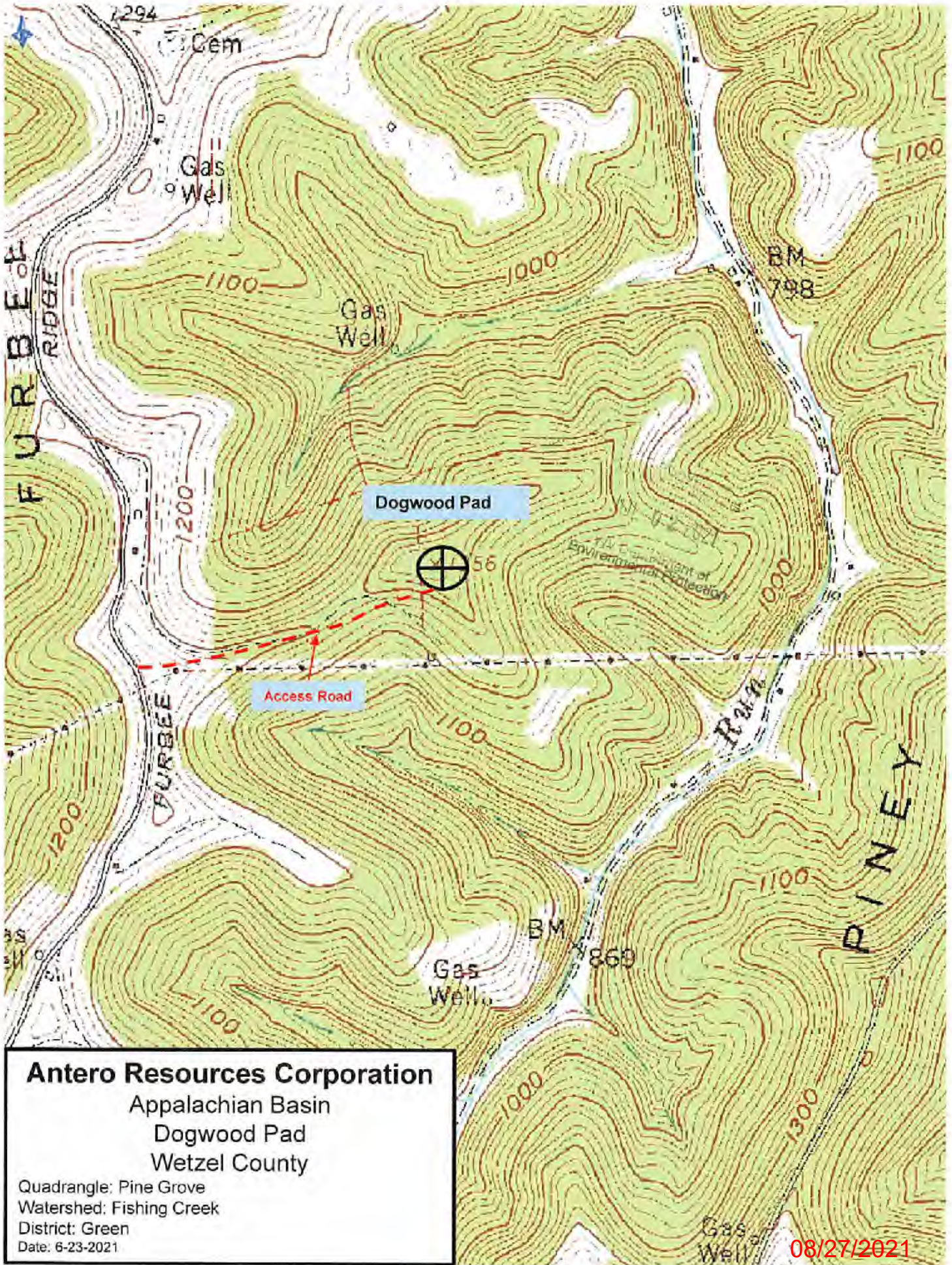
From the volunteer fire department in Reader WV: Head north on WV-20 N toward Spide Lane for 0.5 miles. Turn left onto Co Rd 40/2 for 0.4 miles. Turn left onto Brush Run Rd for 466 feet. Turn left onto Furbee Ridge Rd for 3.3 miles. Access road will be on your left.

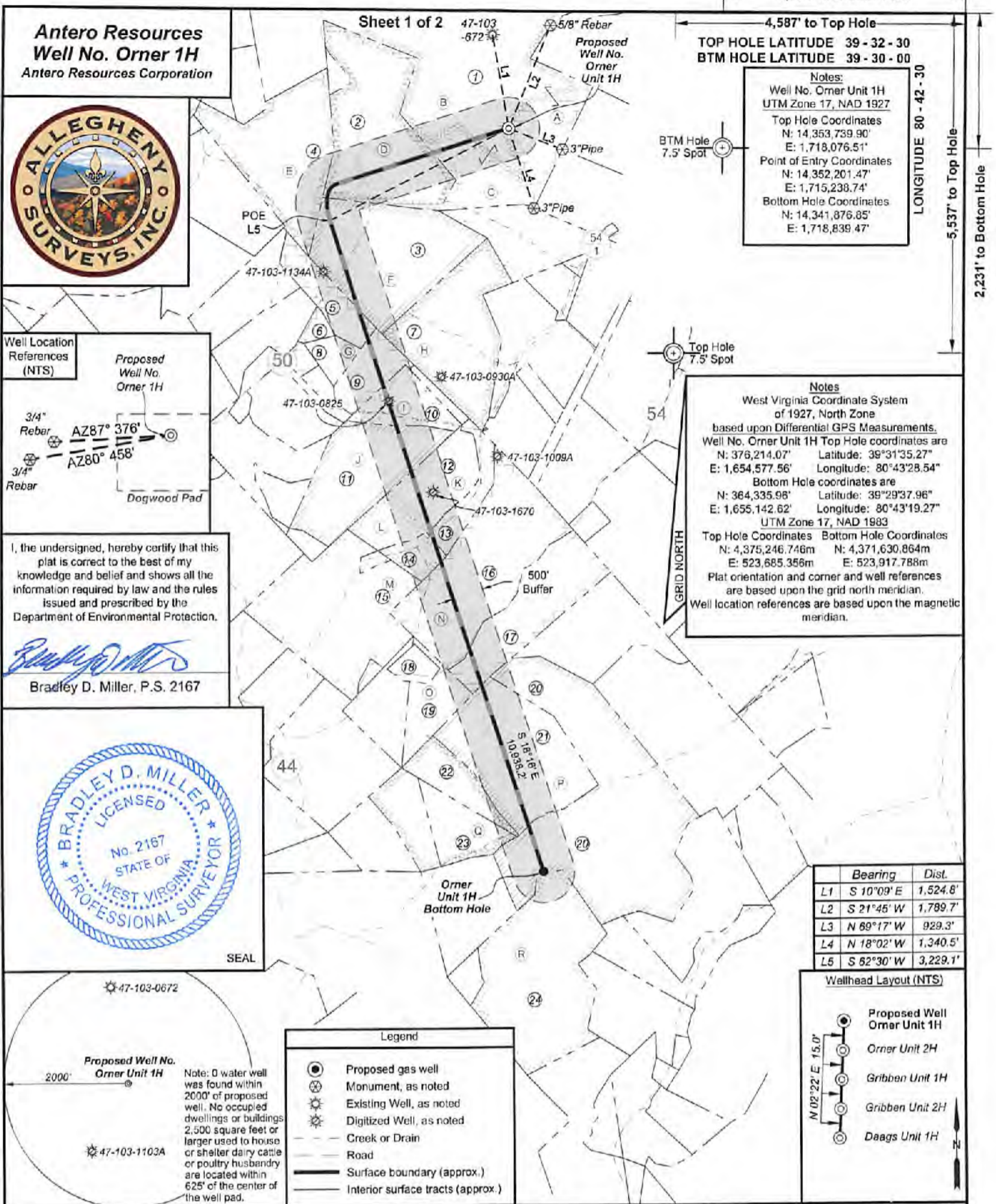
RECEIVED
 Office of Oil and Gas
 JUL 22 2021

WV Department of
 Environmental Protection

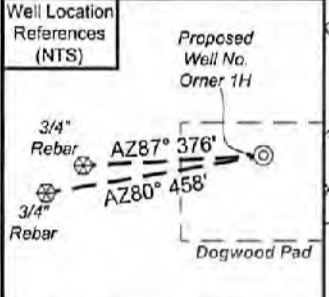
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

4710303428





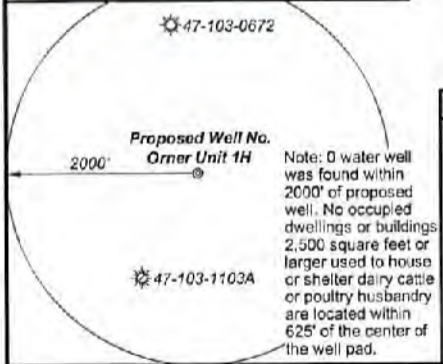
Antero Resources
Well No. Orner 1H
 Antero Resources Corporation



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167



Legend

- Proposed gas well
- ⊗ Monument, as noted
- ⊙ Existing Well, as noted
- ⊙ Digitized Well, as noted
- - - Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

3,859' to Bottom Hole

4,587' to Top Hole

TOP HOLE LATITUDE 39 - 32 - 30
 BTM HOLE LATITUDE 39 - 30 - 00

Notes:
 Well No. Orner Unit 1H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,353,739.90"
 E: 1,718,076.51"
 Point of Entry Coordinates
 N: 14,352,201.47"
 E: 1,715,238.74"
 Bottom Hole Coordinates
 N: 14,341,876.85"
 E: 1,718,839.47"

LONGITUDE 80 - 42 - 30

5.537' to Top Hole

2,231' to Bottom Hole

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Well No. Orner Unit 1H Top Hole coordinates are
 N: 376,214.07" Latitude: 39°31'35.27"
 E: 1,654,577.56" Longitude: 80°43'28.54"

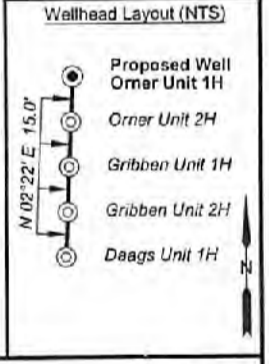
Bottom Hole coordinates are
 N: 364,335.98" Latitude: 39°29'37.96"
 E: 1,655,142.62" Longitude: 80°43'19.27"

UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates
 N: 4,375,246.746m N: 4,371,630.864m
 E: 523,685.356m E: 523,917.788m

Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

	Bearing	Dist.
L1	S 10°09' E	1,524.8'
L2	S 21°45' W	1,789.7'
L3	N 69°17' W	929.3'
L4	N 18°02' W	1,340.5'
L5	S 52°30' W	3,229.1'



FILE NO: 329-34-G-17
 DRAWING NO: Orner 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

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

DATE: June 29 2021
 OPERATOR'S WELL NO. Orner Unit 1H
 API WELL NO H4A
 47 - 103 - 03428
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,308' WATERSHED: Fishing Creek QUADRANGLE: TH: Pine Grove BH: Center Point
 DISTRICT: Green Dallison COUNTY: Wayne
 SURFACE OWNER: Lumber, Inc. BRC Appalachian Minerals I, LLC (4); Shiben Estates, Inc. (2); Sandra D. Derby; Christian Engle, et ux; J.M. Mayfield, et al; ACREAGE: 208
 ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; LEASE NO: ACREAGE: 88.9583; 89; 25;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,500' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



Leases	
A	Joan B. Hoge Trust
B	Waco Oil & Gas Company Inc.
C	BRC Appalachian Minerals I, LLC
D	Terry Bartrug
E	BRC Appalachian Minerals I, LLC
F	BRC Appalachian Minerals I, LLC
G	Sandra D. Derby
H	William J. Walker
I	J.M. Mayfield, et al
J	Shiben Estates, Inc.
K	Shiben Estates, Inc.
L	BRC Appalachian Minerals I, LLC
M	J.W. & A.B. Haught
N	Christian Engle, et ux
O	Tribune Resources Minerals, LLC
P	BRC Appalachian Minerals I, LLC
Q	Tribune Resources Minerals, LLC
R	Tribune Resources Minerals, 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	20-16	Coastal Forest Resources Co.	444/105	75.50
5	20-30	Sandra D. Derby	384/585	21.50
6	20-40	Sandra D. Derby	384/585	3.50
7	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
8	20-41	Sandra D. Derby	384/585	7.96
9	20-42	Sandra D. Derby	384/585	21.80
10	22-40	Robert L. Jr. & Donna Jones	436/692	16.00
11	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
12	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
13	22-6	Denzil W. Sloan	305/582	21.23
14	22-14	Denzil W. Sloan	305/582	9.47
15	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.69
16	22-19	Coastal Forest Resources Co.	444/105	155.30
17	22-20	Lawrence J. Bish, et al	420/738	63.23
18	22-21.1	Thomas & Shawn Pratt	429/66	6.80
19	22-21.2	Thomas R. & Shon T. Pratt	312/697	23.00
20	22-34	Coastal Forest Resources Co.	444/105	172.91
21	22-28	Coastal Forest Resources Co.	444/105	77.10
22	22-27	Dominic J. & Delmer M. Kowalski	353/533	20.30
23	22-33	Dominic J. & Delmer M. Kowalski	353/533	20.30
24	3-11	Dominic J. & Delmer M. Kowalski	317/307	106.94

FILE NO: 329-34-G-17
 DRAWING NO: Orner 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 CORS, Monroe County, OH

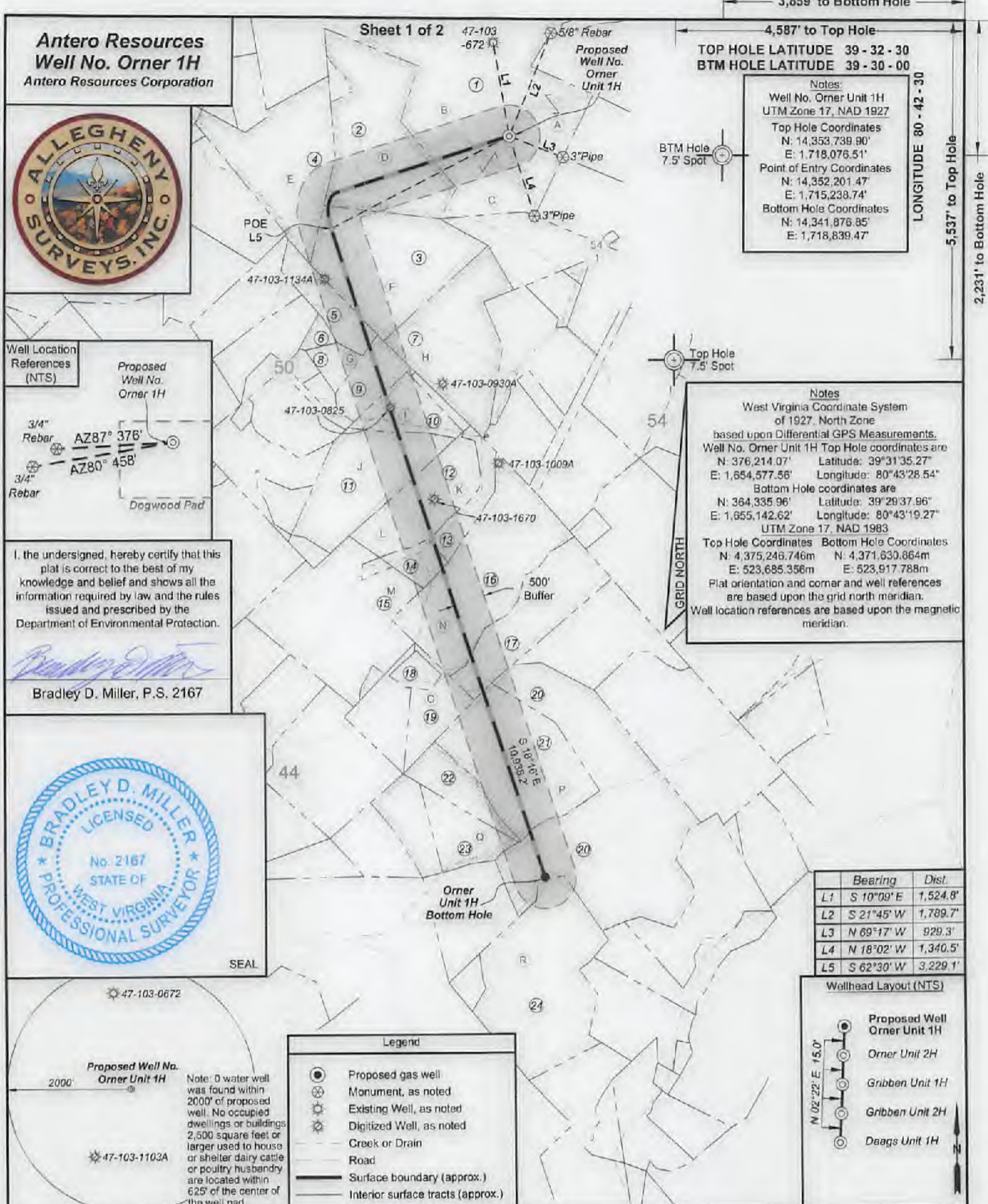
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: June 29 2021
 OPERATOR'S WELL NO. Orner Unit 1H
 API WELL NO **H4A**
 47 - 103 - **03428**
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,308' WATERSHED: Fishing Creek QUADRANGLE: TH: Pine Grove BH: Center Point
 DISTRICT: Green Dallison COUNTY: **Wayne** **08/27/2021**
 SURFACE OWNER: Lumber, Inc. BRC Appalachian Minerals I, LLC (4); Shiben Estates, Inc. (2); Sandra D. Derby; Christian Engle, et ux; J.M. Mayfield, et al; ACREAGE: 208 23.0; 137.9125; 244; 92.904; 200; 20; 76; 62.23125; 47.5;
 ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; LEASE NO: ACREAGE: 68.9563; 69; 25;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,500' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



FILE NO: 329-34-G-17
DRAWING NO: Orner 1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

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

DATE: June 29 2021
OPERATOR'S WELL NO. Orner Unit 1H
API WELL NO. ~~664~~
47 - 103 - ~~03428~~
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,308' WATERSHED: Fishing Creek QUADRANGLE: TH: Pine Grova BH: Center Point

DISTRICT: Green Dallison COUNTY: W
SURFACE OWNER: Lumber, Inc. BRC Appalachian Minerals I, LLC (4); Shiben Estates, Inc. (2); Sandra D. Derby; Christian Engle, et ux; J.M. Mayfield, et al; ACREAGE: 208 23.0; 137.9125; 244; 20; 20; 76; 62 23125; 47.5; 68.9583; 89; 25;
ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; LEASE NO: ACREAGE: 68.9583; 89; 25;

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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

Antero Resources
Well No. Orner 1H
 Antero Resources Corporation



Leases	
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D	Terry Bartrug
E	BRC Appalachian Minerals I, LLC
F	BRC Appalachian Minerals I, LLC
G	Sandra D. Derby
H	William J. Walker
I	J.M. Mayfield, et al
J	Shiben Estates, Inc.
K	Shiben Estates, Inc.
L	BRC Appalachian Minerals I, LLC
M	J.W. & A.B. Haught
N	Christian Engle, et ux
O	Tribune Resources Minerals, LLC
P	BRC Appalachian Minerals I, LLC
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6	20-40	Sandra D. Derby	384/585	3.50
7	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
8	20-41	Sandra D. Derby	384/585	7.96
9	20-42	Sandra D. Derby	384/585	21.80
10	22-40	Robert L. Jr. & Donna Jones	436/692	16.00
11	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
12	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
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15	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.89
16	22-19	Coastal Forest Resources Co.	444/105	155.30
17	22-20	Lawrence J. Bish, et al	420/736	63.23
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23	22-33	Dominic J. & Delmer M. Kowalski	353/533	20.30
24	3-11	Dominic J. & Delmer M. Kowalski	317/307	106.94

FILE NO: 329-34-G-17
 DRAWING NO: Orner 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 CORS, Monroe County, OH

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

DATE: June 29 2021
 OPERATOR'S WELL NO. Orner Unit 1H
 API WELL NO. **4604**
 47 — 103 — **03428**
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,308' WATERSHED: Fishing Creek QUADRANGLE: TH: Pine Grove BH: Center Point
 DISTRICT: Green Dallison COUNTY: **Wetzel**
 SURFACE OWNER: Lumber, Inc. BRC Appalachian Minerals I, LLC (4); Shiben Estates, Inc. (2); Sandra D. Derby; Christian Engle, et ux; J.M. Mayfield, et al; ACREAGE: 208 23.0; 137.9125; 244; 62.23125; 47.5; 68.9563; 89; 25;
 ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; LEASE NO: ACREAGE:
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,800' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,500' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

WW-6A1

Operator's Well Number Orner 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
B	<u>Waco Oil & Gas Company Inc. Lease</u> Waco Oil & Gas Company Inc.	Antero Resources Corporation	1/8+	184A/0741
X	<u>Terry Bartrug Lease</u> Terry Bartrug	Antero Resources Corporation	1/8+	192A/0903
C	<u>BRC Appalachian Minerals I LLC Lease</u> BRC Appalachian Minerals I LLC BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC	BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties Inc. SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8+ Assignment Assignment Assignment Merger Assignment Merger	102A/0505 103A/0470 120A/0109 158A/0801 0013/0296 177A/0533 0013/0311
E F	<u>BRC Appalachian Minerals I LLC Lease</u> BRC Appalachian Minerals I LLC BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC	BRC Working Interest Company LLC Chesapeake Appalachia LLC Statoil USA Onshore Properties Inc. SWN Exchange Title Holder LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8+ Assignment Assignment Assignment Merger Assignment Merger	102A/0505 103A/0470 120A/0109 158A/0801 0013/0296 177A/0533 0013/0311
G	<u>Sandra D Derby Lease</u> Sandra D Derby	Antero Resources Corporation	1/8+	22A/202
I	<u>JM Mayfield et al Lease</u> JM Mayfield et al Carnegie Natural Gas Company Perkins Oil and Gas Inc Stone Energy Corporation EQT Production Company	Carnegie Natural Gas Company Perkins Oil and Gas Inc Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8+ Assignment Assignment Assignment Assignment	125A/529 74A/277 126A/958 183A/305 230A/783
J	<u>Shiben Estates Inc Lease</u> Shiben Estates Inc	Antero Resources Corporation	1/8+	257A/29
K	<u>Shiben Estates Inc Lease</u> Shiben Estates Inc	Antero Resources Corporation	1/8+	257A/49

RECEIVED
Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection

08/27/2021

Operator's Well Number Orner 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)**

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Christian Engle et ux Lease</u>			
Christian Engle et ux	CB 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	Manufactures Light and Heat Company	Assignment	9A/141
Manufactures Light and Heat Company	AM Snider and Duane M Snider and Kathleen Rhinehart Partners dba Hundred Gas Company	Assignment	48A/109
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	75A/621
Stone Energy Corporation	EQT Production Company	Assignment	126A/958
EQT Production Company	Antero Resources Corporation	Assignment	183A/305
<u>BRC Appalachian Minerals I LLC Lease</u>			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	102A/505
BRC Working Interest Company LLC	Chesapeake Appalachian LLC	Assignment	103A/470
Chesapeake Appalachian LLC	Statoil USA Onshore Properties Inc	Assignment	120A/109
Statoil USA Onshore Properties Inc	SWN Exchange Title Holder LLC	Assignment	158A/801
SWN Exchange Title Holder LLC	SWN Production Company LLC	Merged	13/296
SWN Production Company LLC	Antero Exchange Properties LLC	Assignment	177A/533
Antero Exchange Properties LLC	Antero Resources Corporation	Merged	13/311

RECEIVED
Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection

WW-6A1
(5/13)

Operator's Well No. Omer 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)**

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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
BRC Appalachian Mineral I, LLC ease

BRC Appalachian Mineral I, LLC	BRC Working Interest Company LLC	1/8+	102A/505
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	103A/470
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	120A/109
Statoil USA Onshore Properties Inc	SWN Exchange Title Holder LLC	Assignment	158A/801
SWN Exchange Title Holder LLC	SWN Production Company LLC	Merged	13/296
SWN Production Company LLC	Antero Exchange Properties LLC	Assignment	177A/533
Antero Exchange Properties LLC	Antero Resources Corporation	Merged	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

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Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation
By: Brian Kuhn
Its: SR VP of Land



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: Orner Unit 1H
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 Orner 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 Orner Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brett Kuhn", is written over a faint circular stamp.

Brett Kuhn
Senior Landman

RECEIVED
Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection

08/27/2021

WW-6AC
(1/12)

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

Date of Notice Certification: 06/30/2021

API No. 47- 103 -
Operator's Well No. Ormer Unit 1H
Well Pad Name: Dogwood Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>523685.356m</u>
County:	<u>Wetzel</u>	UTM NAD 83 Northing:	<u>4375246.746m</u>
District:	<u>Green</u>	Public Road Access:	<u>CO. Route 50</u>
Quadrangle:	<u>Pine Grove 7.5'</u>	Generally used farm name:	<u>Dallison Lumber Inc.</u>
Watershed:	<u>Fishing Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL 6A4 or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION 6A5
- 5. PUBLIC NOTICE 6A PN
- 6. NOTICE OF APPLICATION 6A

OOG OFFICE USE ONLY

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

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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.

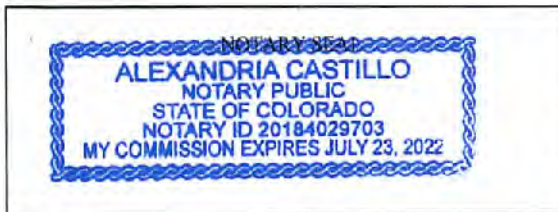
08/27/2021

WW-6AC
(1/12)

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:	<u>Antero Resources Corporation</u>	Address:	<u>1615 Wynkoop Street</u>
By:	<u>Diana Hoff</u>		<u>Denver, CO 80202</u>
Its:	<u>Senior VP of Operations</u>	Facsimile:	<u>303-357-7315</u>
Telephone:	<u>303-357-7310</u>	Email:	<u>mstanton@anteroresources.com</u>



Subscribed and sworn before me this 1st day of July.
Alexandria Castillo Notary Public
 My Commission Expires July 23, 2022

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.

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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: 7/1/2021 **Date Permit Application Filed:** 7/1/2021

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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:

- SURFACE OWNER(s)
 - Name: Dallison Lumber Inc.
 - Address: PO Box 21
Jacksonburg, WV 26377
 - Name: Dallison Lumber Inc.
 - Address: PO Box 159
Jacksonburg, WV 26377
- SURFACE OWNER(s) (Road and/or Other Disturbance)
 - Name: Dallison Lumber Inc.
 - Address: PO Box 21
Jacksonburg, WV 26377
 - Name: Dallison Lumber Inc.
 - Address: PO Box 159
Jacksonburg, WV 26377
- SURFACE OWNER(s) (Impoundments or Pits)
 - Name: _____
 - Address: _____

- COAL OWNER OR LESSEE
 - Name: NO DECLARATIONS ON RECORD WITH COUNTY
 - Address: _____
- COAL OPERATOR
 - Name: NO DECLARATIONS ON RECORD WITH COUNTY
 - Address: _____
- WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE
 - Name: NONE IDENTIFIED WITHIN 1500'
 - Address: _____
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 - Name: _____
 - Address: _____

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*Please attach additional forms if necessary

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 <http://www.dep.wv.gov/oil-and-gas/pages/default.aspx>.

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Well Location Restrictions

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

08/27/2021

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 approved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

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

08/27/2021

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.

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West Virginia Department of Environmental Protection

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4710303428
API NO. 47-103
OPERATOR WELL NO. Ormer Unit 1H
Well Pad Name: Dogwood Pad

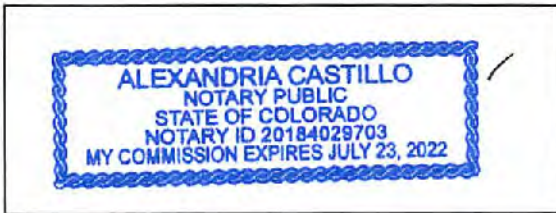
Notice is hereby given by:

Well Operator: Antero Resources Corporation
Telephone: (303) 357-7310 *Diana O. Hoff*
Email: mstanton@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.

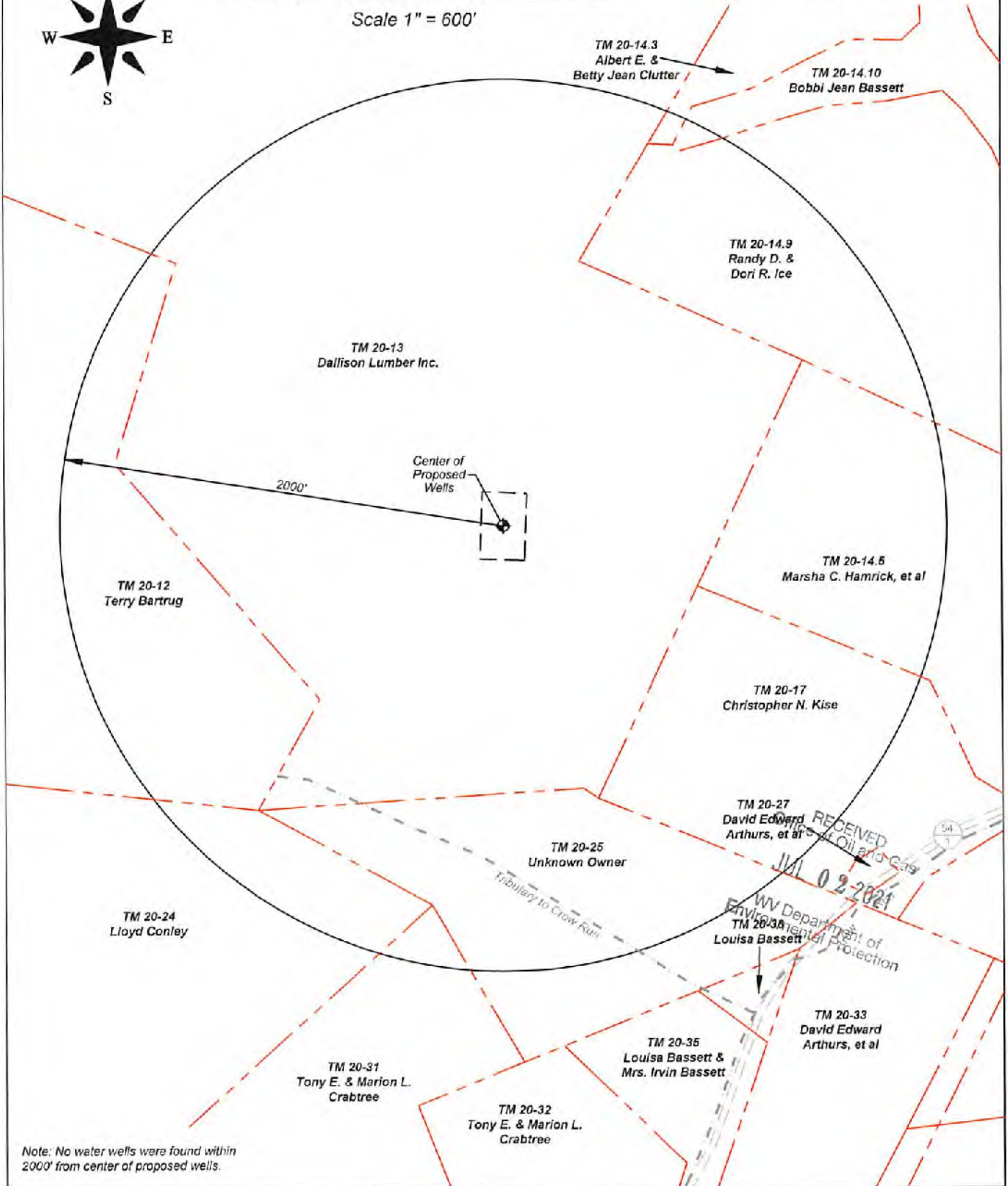
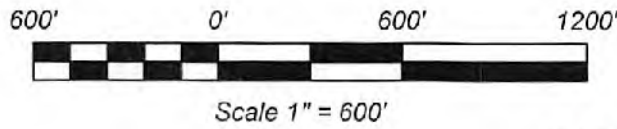


Subscribed and sworn before me this 1st day of July, 2021.
Alexandria Castillo Notary Public
My Commission Expires July 23, 2022

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Dogwood Drill Pad Water Well & Spring Map



Note: No water wells were found within 2000' from center of proposed wells.

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

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

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

Date of Notice: 05/24/2021 **Date Permit Application Filed:** 07/01/2021

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Dallison Lumber Inc
Address: PO Box 21
Jacksonburg, WV 26377

Name: Dallison Lumber Inc (2nd Address)
Address: PO Box 159
Jacksonburg, WV 26377

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>523885.356</u>
County:	<u>Wetzel</u>	UTM NAD 83 Northing:	<u>4375246.746</u>
District:	<u>Green</u>	Public Road Access:	<u>Furbee Ridge Road (CR 50)</u>
Quadrangle:	<u>Pine Grove 7.5'</u>	Generally used farm name:	<u>Dallison Lumber Inc</u>
Watershed:	<u>Fishing Creek</u>		

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WV Department of Environmental Protection

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Antero Resources Corporation
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7223
Email: mstanton@anteroresources.com
Facsimile: 303-357-7315

Authorized Representative: Mellory Stanton
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7223
Email: mstanton@anteroresources.com
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.

08/27/2021

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 07/01/2021 **Date Permit Application Filed:** 07/01/2021

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Dallison Lumber Inc.
Address: PO Box 21
Jacksonburg, WV 26377

Name: Dallison Lumber Inc (2nd Address)
Address: PO Box 159
Jacksonburg, WV 26377

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>623685.356m</u>
County:	<u>Wetzel</u>		Northing:	<u>4375246.746m</u>
District:	<u>Green</u>	Public Road Access:	<u>CO. Route 50</u>	
Quadrangle:	<u>Pine Grove 7.5'</u>	Generally used farm name:	<u>Dallison Lumber, Inc</u>	
Watershed:	<u>Fishing Creek</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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.depr.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Antero Resources Corporation
Telephone: (303) 357-7310
Email: mstanton@anteroresources.com

Address: 1615 Wynkoop Street
Denver, CO 80202
Facsimile: 303-357-7315

Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection

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.

WW-6AW
(1-12)

API NO. 47- 103 -
OPERATOR WELL NO. Ormer Unit 1H
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

I, _____, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>523585.358m</u>
County:	<u>Wetzel</u>	UTM NAD 83 Northing:	<u>4375246.746m</u>
District:	<u>Green</u>	Public Road Access:	<u>CO Route 50</u>
Quadrangle:	<u>Pine Grove 7.5'</u>	Generally used farm name:	<u>WV Department of Environmental Protection</u>
Watershed:	<u>Fishing Creek</u>		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p align="center">FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p align="center">FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>

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.

08/27/2021



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

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
 Orner Unit 1H 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.

Very Truly Yours,

Gary K. Clayton

Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office O&G Coordinator

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

RECEIVED
 Office of Oil and Gas
 JUL 02 2021
 WV Department of
 Environmental Protection

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
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
Silica, 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	64742-96-8
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamethylene 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

RECEIVED
Office of Oil and Gas
JUL 02 2021
Environmental Protection
Department of

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

LOCATION COORDINATES:
ACCESS ROAD CENTER POINT
LATITUDE 39.525100 LONGITUDE -80.730219 (NAD 83)
LATITUDE 39.525049 LONGITUDE -80.730393 (NAD 27)
N 4375997.01 E 528260.34 (UTM ZONE 17 METERS)

CENTER OF TANK
LATITUDE 39.528916 LONGITUDE -80.724032 (NAD 83)
LATITUDE 39.528869 LONGITUDE -80.724216 (NAD 27)
N 4372269.37 E 523717.71 (UTM ZONE 17 METERS)

CENTROID OF PAD
LATITUDE 39.528365 LONGITUDE -80.724419 (NAD 83)
LATITUDE 39.528307 LONGITUDE -80.724598 (NAD 27)
N 4375229.33 E 523668.23 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:
THE ACCESS ROAD, WATER CONTAINMENT PAD, AND WELL PAD HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MANGELSHIRE SHALE GAS WELLS

FLOODPLAIN NOTES:
THE PROPOSED SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #610000166C.

MISS UTILITY STATEMENT:
ANTERO RESOURCES CORPORATION HAS NOTIFIED MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:
ANTERO RESOURCES CORPORATION HAS OBTAINED AN ENCROACHMENT PERMIT (FORM 606 100) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:
STREAM AND WETLAND DELINEATIONS WERE PERFORMED ON SEPTEMBER 6, 2017 BY KC HARVEY ENVIRONMENTAL, LLC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE SEPTEMBER 7, 2017 ASBUILT FEATURES MAP WAS PREPARED BY KC HARVEY ENVIRONMENTAL, LLC. AND SUMMARIZES THE RESULTS OF THIS FIELD OBSERVATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD BOUNDARIES OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE OFFICE OF THE WVDEP.

PROJECT CONTACTS:

OPERATING:
ANTERO RESOURCES CORPORATION
910 WHITE OAKS BLVD
BRIDGEPORT, WV 25760
PHONE: (204) 342-4100
FAX: (204) 342-4102

REGULATORY MANAGER:
BRI WAGNER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER
OFFICE: (204) 844-4360 CELL: (304) 476-9770

OPERATIONS:
DANA HEFF - SVP OPERATIONS
OFFICE: (204) 357-6904

CONSTRUCTION MANAGER:
ANSON KUNZLER - CONSTRUCTION MANAGER
CELL: (204) 642-4191

DESIGN MANAGER:
ROBERT WELLS - DESIGN MANAGER
OFFICE: (204) 642-4100 CELL: (204) 627-7405

UTILITY COORDINATOR:
CHARLES E. COMPTON, III - UTILITY COORDINATOR
CELL: (204) 739-0448

LAND AGENT:
MARK HUTSON - LAND AGENT
CELL: (204) 969-6395

ENGINEER/SURVEYOR:
NAVITUS ENGINEERING, INC.
CYNTHY S. KIMM, P.E. - PROJECT MANAGER/ENGINEER
OFFICE: (606) 852-4155 CELL: (640) 659-0747

ENVIRONMENTAL:
KC HARVEY ENVIRONMENTAL, LLC
SHARON THOMPSON - STATE SCIENTIST
OFFICE: (240) 570-1970 CELL: (703) 295-0250

- NOTES:**
- ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETELY AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RAINFALL EVENT IN EXCESS OF 0.5" AND ON A BIWEEKLY BASIS.
 - 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-EXPOSING 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 BULKHEADS. IT SHOULD BE NOTED THAT THE TIME REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.
 - ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP.
 - ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED AND PERMANENTLY SEEDED.
 - THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS DATA COLLECTED BY OTHERS, PROVIDED BY ANTERO RESOURCES, RELATING TO THE FINAL GRADING OF THE DISTURBED AREA. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED BY NAVITUS ENGINEERING RELATING TO THE FINAL GRADING OF THE SLIDE AREA AS OF APRIL 24, 2020. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES.
 - THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE PROPER CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
 - THE EXISTING BARRIERS TO THE WELL PAD SHALL HAVE THE NECESSARY BARRIERS REQUIRED AS NECESSARY TO ENSURE PROPER CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.



WEST VIRGINIA STATE PLANT COORDINATE SYSTEM
NORTH ANTI-MERIDIAN
EASTING: 500,000 METERS
NORTHING: 4,000,000 METERS
UNIT: METERS
PROJ: UTM
SPHEROID: GRS 80
DATUM: GRS 80
PRIMAR: WGS 84
PROJ4: UTM 17N 80 W 80

SHEET INDEX

- COVER SHEET
- LEGEND
- ORIGINAL PLAN SHEET INDEX
- ACCESS ROAD AS-BUILT PLAN
- ACCESS ROAD & WELL PAD AS-BUILT PLAN
- ACCESS ROAD AS-BUILT PROFILES
- WELL PAD AS-BUILT SECTION
- CONSTRUCTION DETAILS
- ACCESS ROAD RECLAMATION PLAN
- ACCESS ROAD & WELL PAD RECLAMATION PLAN

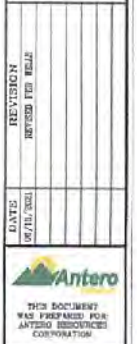
DOGWOOD LIMITS OF DISTURBANCE AREA(ACI)	
Total Dist.	Total
Access Road	0.22
Well Pad	15.40
Stockpile Area	5.97
Additional Limits of Disturbance	4.70
Total Affected Area	36.58
Total Wooded Acres Disturbed	24.74
Impacts to Barrows, Tany APNs 05-04-12	
Access Road	0.41
Additional Limits of Disturbance	3.20
Total Affected Area	3.71
Total Wooded Acres Disturbed	2.23
Impacts to Galloway Lumber, Inc APNs 08-26-13	
Access Road	3.48
Well Pad	15.40
Stockpile Area	5.97
Additional Limits of Disturbance	1.40
Total Affected Area	36.25
Total Wooded Acres Disturbed	22.51

Wellbore	WV DEPT. I&D ID	NAD 83 Lat & Long	UTM (Easting) Zone 17	NAD 83 Lat & Long
Driver	4 970-1-07	LAT 39 51 52.217 N	14 425466 79	LAT 39 51 52.217 N
Well 1H	2 954077 95	LONG 80 45 43.0591 W	5 52366 36	LONG 80 45 43.27 901 2
Well 2H	4 971949 09	LAT 39 51 35 7200 N	14 425242 19	LAT 39 51 35 4715 N
Well 3H	5 984278 94	LONG 80 42 28 5444 W	5 52368 24	LONG 80 42 32 9986 W
Shedder	4 97194 19	LAT 39 51 34 8758 N	14 425237 61	LAT 39 51 34 2695 N
Well 4H	5 984475 70	LONG 80 43 24 5541 W	5 52368 03	LONG 80 43 27 0114 W
Graben	4 97049 11	LAT 39 51 34 8271 N	14 425239 84	LAT 39 51 32 7774 N
Well 5H	5 984475 70	LONG 80 43 24 5541 W	5 52368 03	LONG 80 43 27 0173 W
Drops	4 97194 12	LAT 39 51 34 87 99 N	14 425228 47	LAT 39 51 34 9692 N
Well 6H	5 984475 94	LONG 80 43 28 5883 W	5 52368 91	LONG 80 43 32 0254 W
Proposed Well Pad Elevation:			Level	

AS-BUILT CERTIFICATIONS:
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS REG 23-6.

MISS Utility of West Virginia
1-800-245-4846
West Virginia State Law
(Section XV, Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW!!

REPRODUCTION NOTE
THIS PLAN WAS CREATED TO BE PLOTTED ON 24"x36" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"x17" (ANSI B) PAPER.
THIS PLAN WAS CREATED FOR COLOR PLOTTERS AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY REDUCE IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

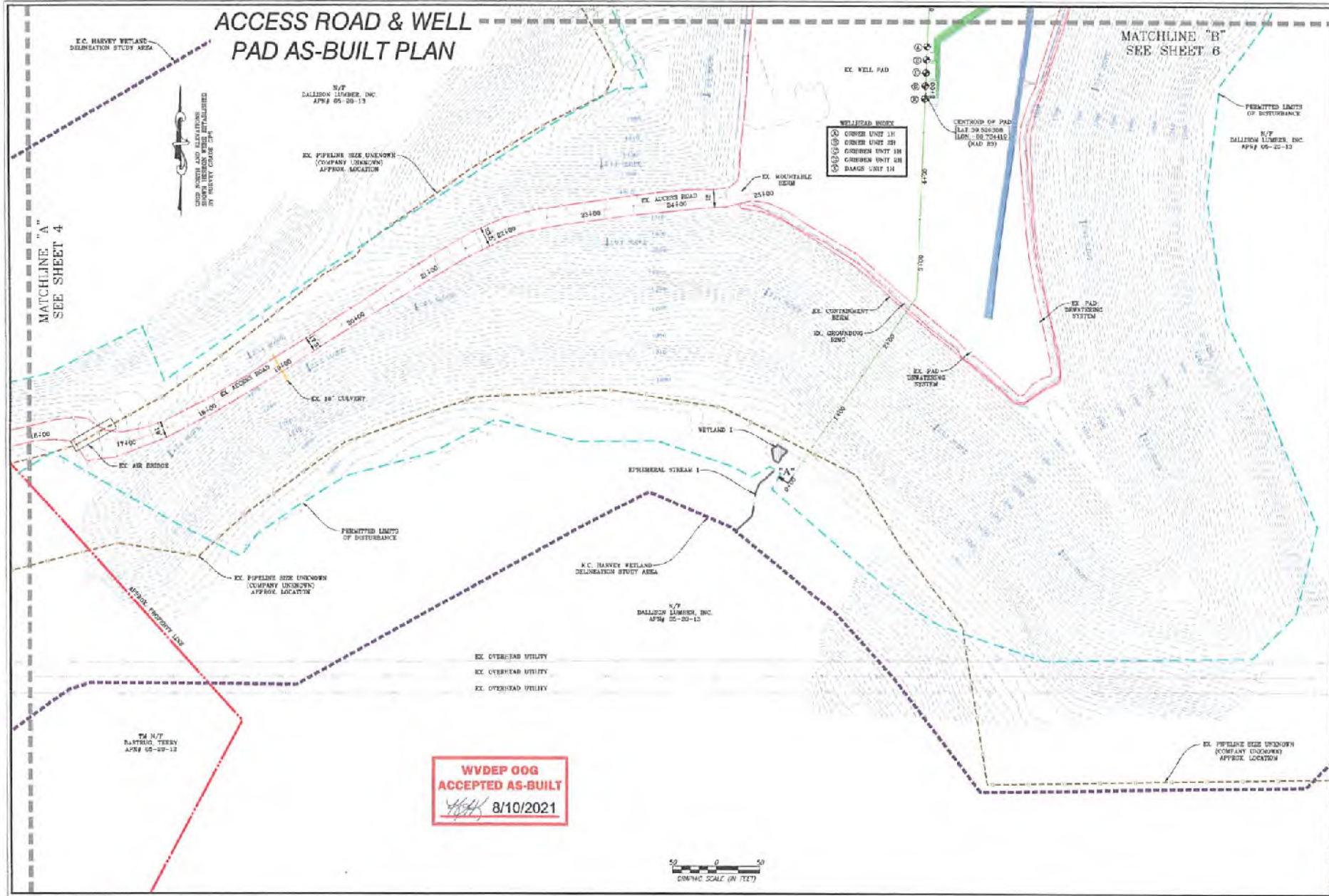


COVER SHEET
DOGWOOD
WELL PAD & WATER CONTAINMENT PAD
GREEN DISTRICT
WETZEL COUNTY, WEST VIRGINIA



DATE: 06/25/2020
SCALE: AS SHOWN
SHEET 1 OF 10

ACCESS ROAD & WELL PAD AS-BUILT PLAN



**WVDEP OOG
ACCEPTED AS-BUILT**
8/10/2021



NAVITUS
ENERGY ENGINEERING

REVISION	REVISED PER FIELD
DATE	08/16/2021

Antero
THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

ACCESS ROAD & WELL PAD AS-BUILT PLAN
DOGWOOD
WELL PAD & WATER CONTAINMENT PAD
GREEN DISTRICT
WETZEL COUNTY, WEST VIRGINIA



DATE: 08/25/2021
SCALE: 1" = 50'
SHEET 5 OF 12

