

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, September 20, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for CAPITOL UNIT 2H

47-095-02755-00-00

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: CAPITOL UNIT 2H

Farm Name: CLARA SUZANNE WALLACE

U.S. WELL NUMBER: 47-095-02755-00-00

Horizontal 6A New Drill Date Issued: 9/20/2021

API	Number:	

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

API NO. 47-095	_ 02755	
OPERATOR W	ELL NO.	Capitol Unit 2H
Well Pad Nar	ne: Thin A	ir Pad

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

1) Well Operate	or: Antero Re	esources	Corporat	494507062	095-Tyler	Ellsworth	Porter Falls 7.5'
•				Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number:	Capitol Ur	nit 2H	Well Pad	Name: Thin A	Air Pad	
3) Farm Name/	Surface Owner	Clara Suzann	e Wallace & Ricki	• Wallace Public Roa	d Access: CR	11	
4) Elevation, cu	rrent ground:	1235'	El	evation, proposed	post-construction	on: <u>~1200</u>	
5) Well Type	(a) Gas X		_ Oil	Unde	erground Storag	e	
	Other					w	
	` '	hallow	X	Deep			
	_	Iorizontal	X				
6) Existing Pad	_		() A ()	1 674 1			
´ -	•	• • •	` ''	ipated Thickness a ss- 55 feet, Associa	-	` ,	
8) Proposed To	tal Vertical De	epth: 730	0' TVD				
9) Formation at	Total Vertical	Depth:	Marcellus				
10) Proposed T	otal Measured	Depth:	21500' M	D			
11) Proposed H	orizontal Leg	Length:	11436'				·
12) Approxima	te Fresh Water	Strata De	pths:	76' and 328'			
13) Method to 1	Determine Fres	sh Water I	Depths: 4	7-095-02266			
14) Approxima	te Saltwater De	epths: 16	660'		pr er		
15) Approxima	te Coal Seam I	Depths: N	lone Iden	tified			
16) Approxima	te Depth to Pos	ssible Voi	d (coal mi	ne, karst, other): _	None Anticipat	ed	
17) Does Propo directly overlyi				ns Yes	No	X	
(a) If Yes, pro	vide Mine Info	o: Name	•			RE	CEIVED
		Depth	:				of Oil and Gas
OPB	9/14/2021	Seam:				SEF	14 2021
with i	9/14/zoz/ permission of pug Newlon	Owne	r:			WV D	Pepartment of
D	oug Newlon						

API NO. 47-095 - 02755

OPERATOR WELL NO. Capitol Unit 2H

Well Pad Name: Thin Air Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	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#	378'	378'	CTS, 341 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#	21500	21500'	5504 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

9/14/2021

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	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"	0.361"	12,630	9300	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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Kind:	N/A	SEP 1 4 2021
Sizes:	N/A	WV Department of Environmental Protection
Depths Set:	N/A	The state of the s

API NO. 47-095 - 02755

OPERATOR WELL NO. Capitol Unit 2H

Well Pad Name: Thin Air Pad

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

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

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

Dm4 8-16-21

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 45.05 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 17.67 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

Office of Oil and Gas

WV Department of Environmental Protection

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.

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Operator's Well No. Capitol Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062
Watershed (HUC 10) Outlet Middle Island Creek Quadrangle Porter Falls 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
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 Q-16-3
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 - Alt/Freshwater, Intermediate- Dust/Stiff Foam, Production - Water Based Mud or Synthetic Based Mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature RECEIVED Office of Oil and Gas
Company Official (Typed Name) Jena Resnick AUG 2 4 2021 Company Official Title Director, Environmental and Regulatory Compliance
WV Department of Environmental Protection
Subscribed and sworn before me this 9th day of August, 2021
Sydney Switz Notary Public
My commission expires SYDNEY SWEITZER NOTARY PUBLIC STATE OF COLORADO NOTARY DI 20184038008 MY COMMISSION EXPIRES SEPTEMBER 11, 2022

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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13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt - Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

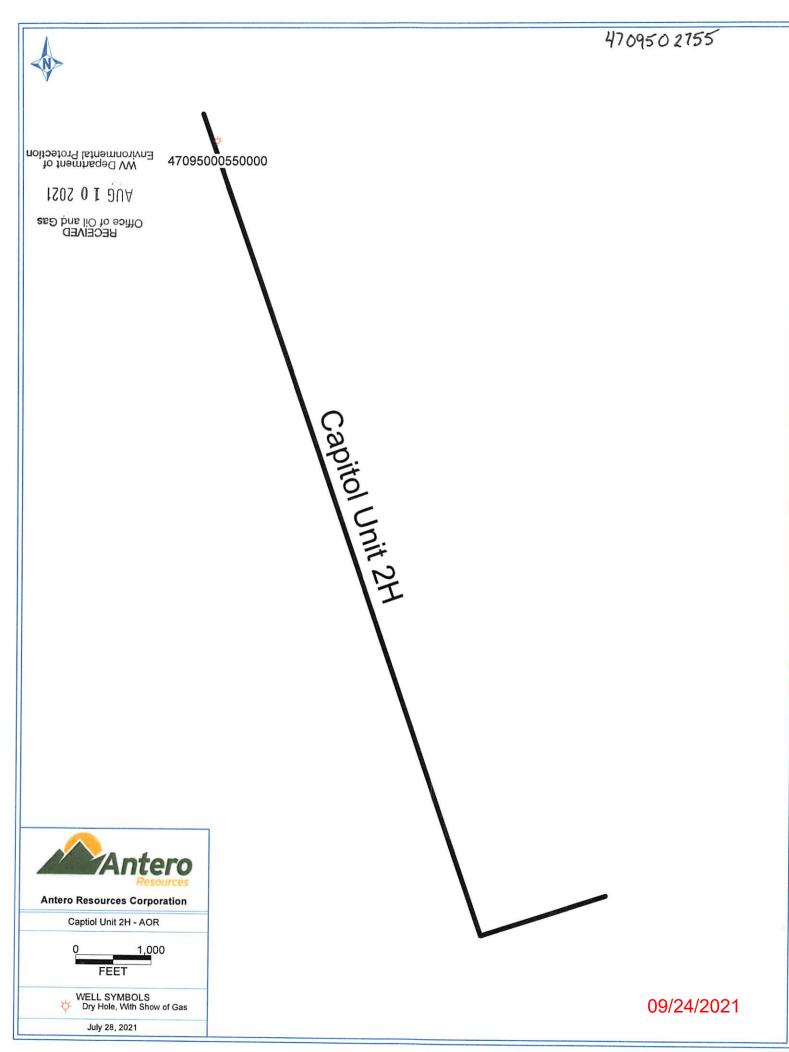
Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

Form WW-9

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 Access Road "A" (8.27 acres) + Well Pad (18.00 acres) + Excess/Topsoil Material Stockpiles (Seed Mixtures Temporary Seed Type lbs/acre Seed Type	Permanent pe lbs/acre		
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 Access Road "A" (8.27 acres) + Well Pad (18.00 acres) + Excess/Topsoil Material Stockpiles (Seed Mixtures Temporary Seed Type lbs/acre Seed Type	(18.78 scres) = 45.05 Acres Permanent pe lbs/acre		
Fertilizer type Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Access Road "A" (8.27 acres) + Well Pad (18.00 acres) + Excess/Topsoil Material Stockpiles (Seed Mixtures Temporary Seed Type lbs/acre Seed Type	Permanent pe lbs/acre		
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Temporary Seed Type lbs/acre Seed Typ	pe lbs/acre		
Seed Type lbs/acre Seed Typ	pe lbs/acre		
·			
Americal Disagraphics 40			
Annual Ryegrass 40 Crownvetch	10-15		
Field Bromegrass 40 Tall Fescue	30		
ee attached Table IV-3 for additional seed type (Thin Air Pad Design) See attached Table IV-4A for	or additional seed type (Thin Air Pad Design)		
or type of grass seed requested by surface owner *or type of grass see	*or type of grass seed requested by surface owner		
notocopied section of involved 7.5' topographic sheet.			
an Approved by:			
omments:			
			
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tle: Oil +6cr Inspector Date: 8-16-21	WALES		
eld Reviewed? () Yes () No	Environmental Protein		



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WV Department of 3 a Environmental Protection

09/24/20



911 Address 892 Lone Tree Road Middlebourne, WV 26149

Well Site Safety Plan Antero Resources

Well Name: Axtel Unit 1H, Capitol Unit 1H & 2H, Maroon Unit 1H

& 2H, Purple Unit 1H & 2H and Thin Air Unit 5H

Pad Location: THIN AIR PAD

Tyler County/Ellsworth District

GPS Coordinates:

Entrance - Lat 39.535510'/Long -80.788742' (NAD83)
Pad Center - Lat 39.528110'/Long -80.792574' (NAD83)

Driving Directions:

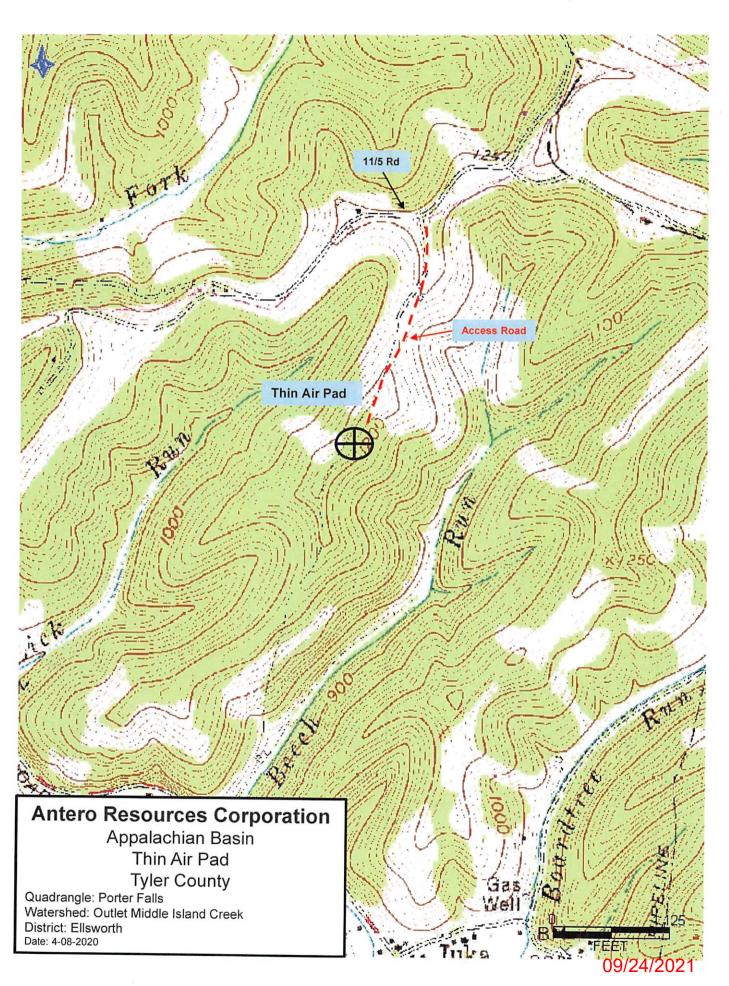
From Middlebourne: Head northeast on WV-18N/Main Street toward Court Street/Dodd Street for 3.8 miles - turn right onto Church Drive for 302 feet - Church Drive turns left & becomes Elk Fork Road for 0.4 miles - turn right onto Elk Fork Road for 5.3 miles - slight left onto Mudlick Road for 0.1 miles - continue onto Left Hand Middle Fork Road for 0.5 miles - continue onto Right Hand Middle Fork Road for 0.7 miles - lease road will be on your right.

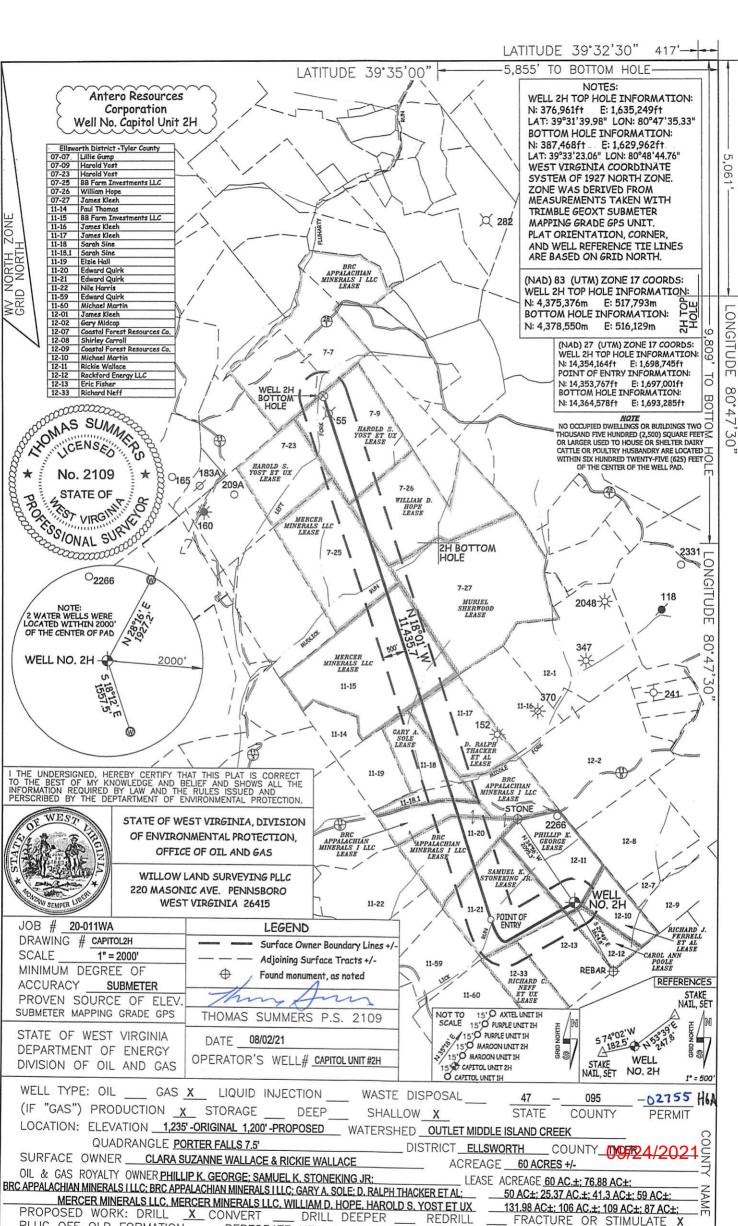
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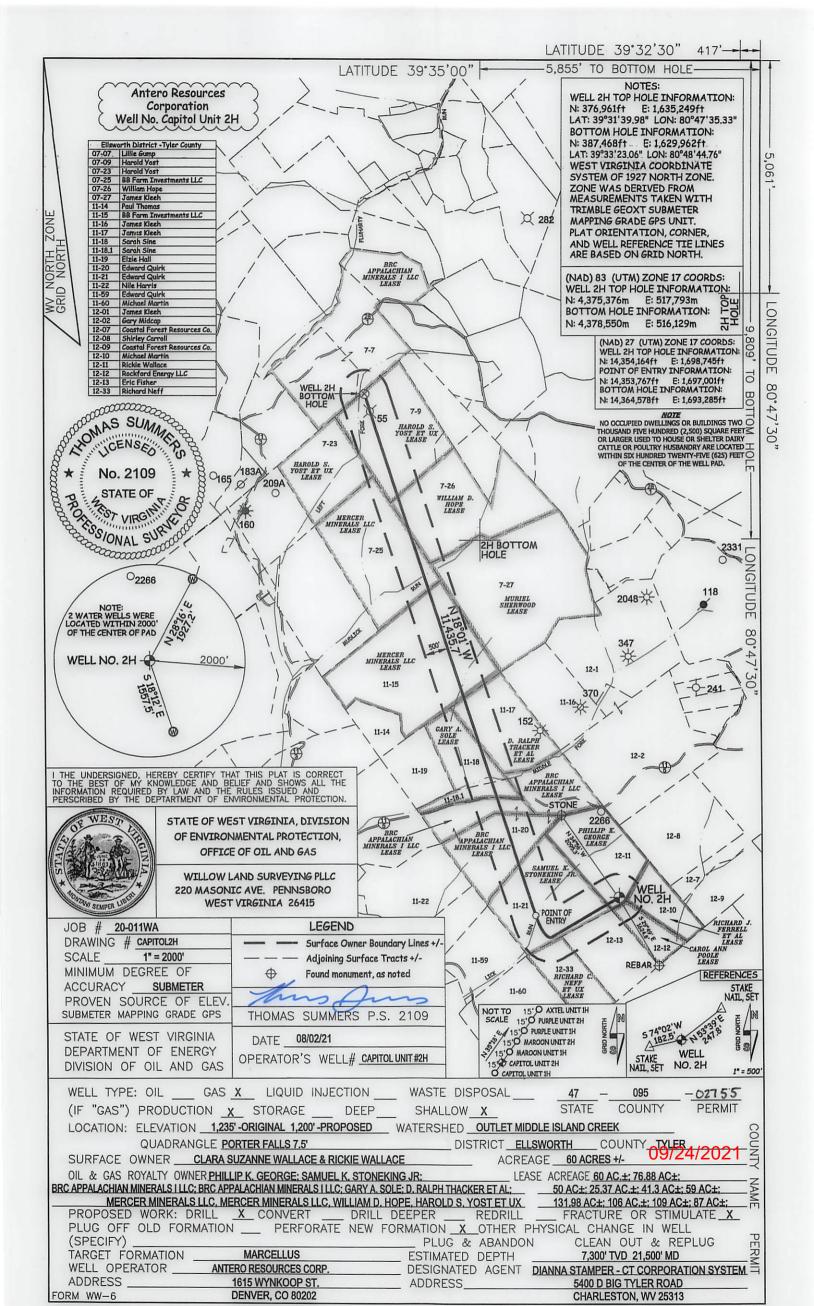
WV Department of Environmental Protection

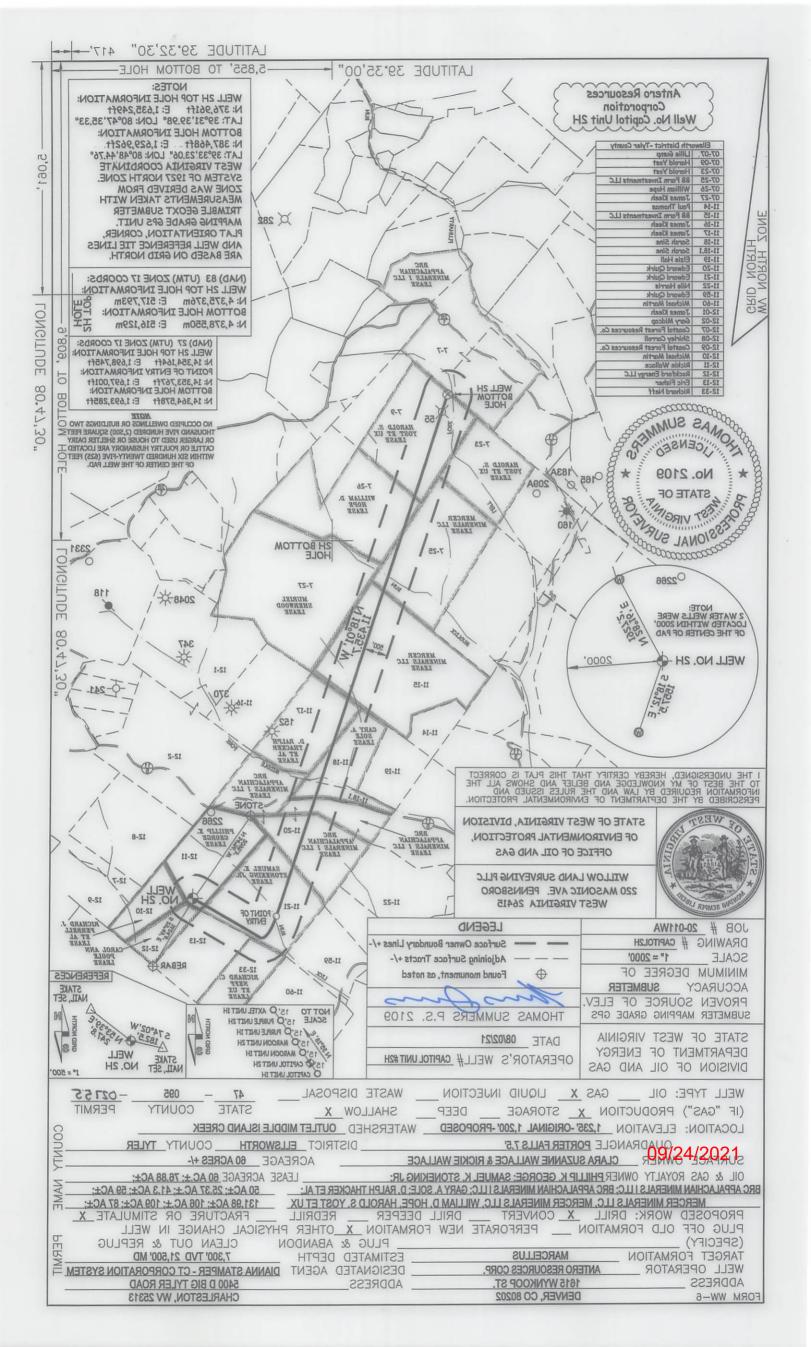
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373





131.98 AC±; 106 AC.±; 109 AC±; 87 AC±; FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION _ **MARCELLUS** ESTIMATED DEPTH 7,300' TVD 21,500' MD WELL OPERATOR _ ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS . 1615 WYNKOOP ST. ADDRESS. 5400 D BIG TYLER ROAD FORM WW-6 **DENVER, CO 80202** CHARLESTON, WV 25313





WW-6A	1
(5/13)	

Operator's	Well No.	Capitol Unit 2H
operator's	well No.	Capitor Offit 211

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Harold S. Yost et al Lease				
	Harold S. Yost et al Harrison Energy Services LLC	Harrison Energy Services LLC Antero Resources Corporation	1/8+ Assignment	569/426 582/437

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

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

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Well Operator:	Antero Resources Corporation	AUG_1 0 2021
By:	Tim Rady	AUG-1 0 2021
Its:	VP of Land	WV Department of Environmental Protection

Page 1 of _____

Operator's Well Number

Capitol Unit 2H

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Philip K. George Lease			
Philip K. George	Statoil USA Onshore Properties	1/8+	0466/0193
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Samuel K. Stoneking Jr Lease			
Samuel K. Stoneking Jr	Statoil USA Onshore Properties Inc	1/8	456/688
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Mineral I LLC	BRC Working Interest Company LLC	1/8	369/300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	369/784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	423/165
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
Gary A. Sole Lease			
Gary A. Sole	Antero Resources Corporation	1/8+	607/122
D. Ralph Thacker et al Lease		4/0	205/157
D. Ralph Thacker et al	Petroedge Energy LLC	1/8	385/157 406/147
Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	539/239
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	
EQT Production Company	Antero Resources Corporation	Assignment	663/1
Mercer Minerals LLC Lease			
Mercer Minerals LLC	Antero Resources Corporation	1/8+	81/182
Mercer Mineral LLC Lease			
Mercer Minerals LLC	Antero Resources Corporation	1/8+	547/643
William D. Hope Lease			
William D. Hope	Antero Resources Corporation	1/8+	4/734
			RECEIVED

RECEIVED Office of Oil and Gas

AUG 1 0 2021

^{*}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.

Operator's Well Number

Capitol Unit 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor,	lessor.	etc.
----------	---------	------

Grantee, lessee, etc.

Royalty

Book/Page

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

CONTINUED ON NEXT PAGE

09/24/2021



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

August 5, 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:

Capitol Unit 2H

Quadrangle: Porter Falls 7.5'

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

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

Sincerely,

Thomas Kuhn

Senior Staff Landman

RECEIVED Office of Oil and Gas

AUG 1 0 2021

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

Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms liste below for the tract of land as follows: State: West Winghis County: Tyter Quadrangle: Watershed: Outlet Middle Island Creek Vatershed: Outl	Date of Notic	ce Certification: 08/06/2021	API No. 47- 095	-
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 liste below for the tract of land as follows: State: West Virginia Ounty: District: Elisworth Quadrangle: Portur Fails 7.5' Watershed: Outlet Middle Island Creek Watershed: Outlet Middle Island Creek 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 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, the requirements of subsection (b), section is sixteen of this article were waived in writing by the surface owner; and Pursuant to Westignia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: 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: 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: 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: 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: Pursuant to Wes			Operator's Well	No. Capitol Unit 2H
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms liste below for the tract of land as follows: State: West Virginia County: Tyler	•• •		Well Pad Name:	Thin Air Pad
State: West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may is prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article; (ii) that the requirement was deemed satisfied as a resu of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article; (ii) that the requirement was deemed satisfied as a resu of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article were waived in writing by the surface owner; and Pursuant to We Virginia Code § 22-6A, the Operator has attached proof of and certify to the secretary that the notice requirements of subsection (b), section ten of this article were waived in writing by the surface owner; and Pursuant to We 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: 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 ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) **PLEASE ATTACH** PRECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED				·
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■ 3. NOTICE OF INTENT TO DRILL 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 ■ 5. PUBLIC NOTICE	□ 1. №1	FICE OF SEISMIC ACTIVITY or	*	
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(PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION RECEIVED RECEIVED	■ 3. NOT	TICE OF INTENT TO DRILL or	NOTICE OF ENTRY FOR PLAT SURVEY	
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■ 5. PUBLIC NOTICE □ RECEIVED	■ 4. NO	TICE OF PLANNED OPERATION		☐ RECEIVED
	■ 5. PUB	BLIC NOTICE		RECEIVED
■ 6. NOTICE OF APPLICATION □ RECEIVED AUG 10	■ 6. NO	TICE OF APPLICATION		Office of Oil and Gas RECEIVED AUG 1 0 2021

Required Attachments:

WV Department of Environmental Protection

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.

Certification of Notice is hereby given:

THEREFORE, I Diana Hoff have read and understand the notice requirements within West Virginia Code § 6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identification, to the required parties through personal service, by registered mail or by any method of delivery that requires a receip signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submit in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penal						
for submitting fa	alse information, including the possibil	lity of fine	e and impriso	onment.		
Well Operator:	Antero Resources Corporation		Address:	1615 Wynkoop Street		
By:	Diana Hoff			Denver, CO 80202		
Its:	SR VP of Operations		Facsimile:	303-357-7315		
Telephone:	303-357-7310		Email:	mstanton@anteroresources.com		
MY COM	NOTARY SEAL SYDNEY SWEITZER NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184036008 MISSION EXPIRES SEPTEMBER 11, 2022	Subscribed and sworn before me this 9th day of August, 20; Sydmety Notary Public My Commission Expires 9-11-22				

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.

RECEIVED Office of Oil and Gas

AUG 1 0 2021

WW-6A (9-13)

API NO. 47- 095 -	
OPERATOR WELL NO	Capitol Unit 2H
Well Pad Name: Thin Air P	ad

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

Notice	Time Requiremen	it: notice shall be provided	d no later tha	n the filing date of permit application.	
Date o Notice	of: 8/9/2021	Date Permit Applicatio	n Filed: <u>8/9/2</u>	021	
	ERMIT FOR ANY VELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delive	ry method pursuai	nt to West Virginia Code	§ 22-6A-10	(b)	
□ P:	ersonal [REGISTERED		OD OF DELIVERY THAT REQUIRES A	
	ERVICE	MAIL		PT OR SIGNATURE CONFIRMATION	
sedimenthe surfacil and describ operato more consult would wo impound have a suprovide propose subsect records provision Code R	nt control plan required according to the tract on we gas leasehold being and in the erosion and or or lessee, in the evocation of the surface track that the surface to the sheriff required on of this article to the surface to the surface to the surface to the surface track that the surface track	red by section seven of this hich the well is or is proposed developed by the proposed sediment control plan subject the tract of land on which where of record of the surfact is to be used for the place ribed in section nine of this water supply source locate ion by humans or domestic is to take place. (c)(1) If men hold interests in the lands and to be maintained pursuance contrary, notice to a lienters, in part, that the operato	article, and the sed to be local well work, if mitted pursual the well proceed tract or tracement, constructions; article; (5) Add within one than three, the applicant to section echolder is not reshall also present and the section echolder is not reshall also present well well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall also present well as the section echolder is not reshall	or signature confirmation, copies of the application, the ne well plat to each of the following persons: (1) The operator of the surface tract or tractices the surface tract is to be used for roads or other land on to subsection (c), section seven of this article; (3) The oposed to be drilled is located [sic] is known to be understood to be drilled is located [sic] is known to be understood to be drilled is located [sic] is known to be understood to be drilled in located [sic] is known to be understood to be drilled is located [sic] is known to be understood to be drilled is located [sic] is known to be understood to be drilled is located [sic] is known to be understood to end graphed to be understood to be drilled in located [sic] is known to be understood on the surface that is located [sic] is known to be understood on the person of the center of the well pace (6) The operator of any natural gas storage field withing tenants in common or other co-owners of interests det may serve the documents required upon the person desight, article one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the land ovide the Well Site Safety Plan ("WSSP") to the surface as provided in section 15 of this rule.	wners of record of acts overlying the isturbance as ne coal owner, lerlain by one or I by the proposed donment of any he applicant to I which is used to n which the scribed in escribed in the withstanding any downer. W. Va.
☑ App	olication Notice	WSSP Notice	Plan Notice	☑ Well Plat Notice is hereby provided to:	
	FACE OWNER(s)			COAL OWNER OR LESSEE	
	PLEASE SEE ATTACHMIS:	ENT		Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:	
Name:					
				COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY	
	, ,	(Road and/or Other Distu	rbance)	Address:	
	PLEASE SEE ATTACHMI	ENI		WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE	
				Name: NONE IDENTIFIED WITHIN 1500'	
Addres	s:			Address:	RECEIVED
				OPERATOR OF ANY NATURAL GAS STORA	AGIOHIDA 96 Oil and Gas
Name:		(Impoundments or Pits)		Name: Address:	AUG 1 0 2021
Addres	s:			*Please attach additional forms if necessary	WV Department of Environmental Protection

API NO. 47- 095 Well Pad Name: Thin Air Pad

Notice is hereby given:

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

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 Gas Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gffice.org AUG 1 0 2021 and-gas/pages/default.aspx.

Well Location Restrictions

W Department of Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any protection water well or developed spring used for human or demostic spring leaves to the control of the cont 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

WW-6A (8-13) 4709502755

API NO. 47-095

OPERATOR WELL NO. Capitol Unit 2H

Well Pad Name: Thin Air Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments action 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 AUG 1 0 2021

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47- 095 - 02755
OPERATOR WELL NO. Capitol Unit 2H

Well Pad Name: Thin Air Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas
AUG 1 0 2021

WW-6A (8-13) 4709502755

API NO. 47- 095

OPERATOR WELL NO. Capitol Unit 2H

Well Pad Name: Thin Air Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana (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 deepprivacyofficer@wv.gov.

SYDNEY SWEITZER
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20184036008
MY COMMISSION EXPIRES SEPTEMBER 11, 2022

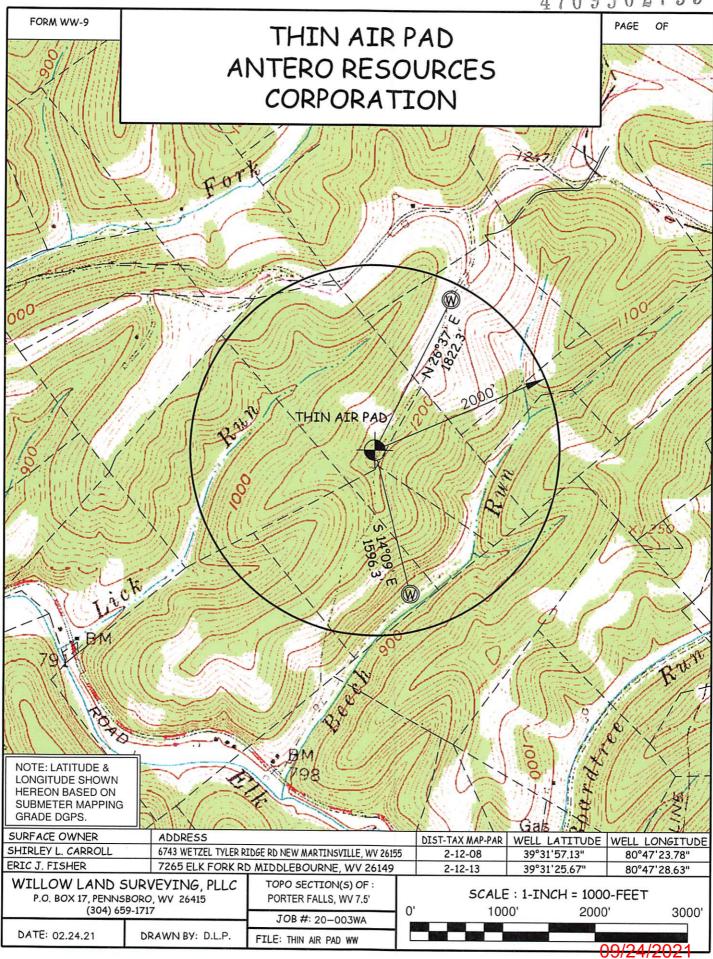
Subscribed and sworn before me this at day of August, 2021

Notary Public

My Commission Expires 9-11-

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List of Surface Owner(s) with Proposed Well Pad/Road and/or Other Disturbance associated with THIN AIR Well Pad

TM 12-11

Clara Suzanne Wallace et vir

Owner: Address:

2804 Gammon Drive

Indianapolis, IN 26234

Owner: Address: Rockford Energy LLC 12088 Middle Island Road

Alma, WV 26320

TM 12-10

Owner: Address: Michael Martin / 7156 Elk Fork Road

Middlebourne, WV 26149

TM 12-8

Owner:

Shirley L. Carroll

Address:

6743 Wetzel Tyler Ridge Road

New Martinsville, WV 26155

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WW-6A4 (1/12)

Operator Well No. Capitol Unit 2H Multiple Wells on Thin Air Pad

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at ee: 07/19/2021 Date Per	least TEN (10) days prior to filing a mit Application Filed: 08/09/2021	permit application.
Delivery met	hod pursuant to West Virginia Code § 2	2-6A-16(b)	
□ HAND DELIVE	CERTIFIED MAIL RETURN RECEIPT REQ	UESTED	
receipt reques drilling a hori of this subsec subsection ma	sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided	pursuant to subsection (a), section to to the surface owner: <i>Provided</i> , how her. The notice, if required, shall include	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Name: PLEASE	reby provided to the SURFACE OW	NER(s): Name: PLEASE SEE ATTAC Address:	
			well operator has an intent to enter upon bllows: 517793M 4375376m CR 11 Clara Suzanne Wallace & Rickie Wallace
Pursuant to V facsimile num related to hor	nber and electronic mail address of the o	perator and the operator's authorize Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by: r: Antero Resources Corporation 1615 Wynkoop St. Denver, CO 80202	Authorized Representative: Address:	Mallory Stanton 1615 Wynkoop St. Denver, CO 80202
Telephone: Email: Facsimile:	303-357-7223 mstanton@anteroresources.com 303-357-7315	Telephone: Email: Facsimile:	303-357-7223 mstanton@anteroresources.cop office of Oil and Ga 303-357-7315 AUG 1 0 2021

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 regular Protection 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.

List of Surface Owner(s) with Proposed Well Pad/Road and/or Other Disturbance associated with THIN AIR Well Pad

TM 12-11

TM 12-12

Owner:

Clara Suzanne Wallace et vir

Indianapolis, IN 26234

Address: 2804 Gammon Drive

Owner:

Rockford Energy LLC

Address:

12088 Middle Island Road

Alma, WV 26320

TM 12-10

Owner:

Michael Martin

Address:

7156 Elk Fork Road

Middlebourne, WV 26149

TM 12-8

Owner:

Shirley L. Carroll

Address:

6743 Wetzel Tyler Ridge Road

New Martinsville, WV 26155

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AUG 1 0 2021

WW-6A5 (1/12)

Operator Well No. Capitol Unit 2H

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

		equirement: notice shall be provided no 08/09/2021 Date Permit Ap	later than the filing plication Filed: 08/0		application.
Delive	ry metho	od pursuant to West Virginia Code § 22	2-6A-16(c)		
			HAND DELIVERY		
return the pla require drilling damag	receipt reanned oped to be possible of a houses to the enotices	equested or hand delivery, give the surface eration. The notice required by this sub- rovided by subsection (b), section ten of rizontal well; and (3) A proposed surface surface affected by oil and gas operations	ce owner whose land bsection shall inclu this article to a surf ce use and compens s to the extent the da	d will be used for de: (1) A copy ace owner whos sation agreemen amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. Sted in the records of the sheriff at the time
(at the	address I	y provided to the SURFACE OWNER isted in the records of the sheriff at the time attachment	me of notice): Name:	PLEASE SEE ATTAC	HMENT
			- Tudi es.		
Pursua	ion on th y:	y given: st Virginia Code § 22-6A-16(c), notice is e surface owner's land for the purpose of Vest Virginia Tyler Ellsworth Porter Falls 7.5' Dutlet Middle Island Creek	f drilling a horizonta — UTM NAD 8 — Public Road	Il well on the tra Easting: Northing:	well operator has developed a planned ct of land as follows: 517793m 4375376m CR 11 Clara Suzanne Wallace & Rickie Wallace
Pursua to be p horizon surface inform headqu gas/pag	nt to We provided ntal well; e affected ation rela narters, lo ges/defau	by W. Va. Code § 22-6A-10(b) to a su and (3) A proposed surface use and com by oil and gas operations to the extent ated to horizontal drilling may be obtain ocated at 601 57 th Street, SE, Charles lt.aspx.	urface owner whose npensation agreeme the damages are co ned from the Secret	e land will be unt containing and ompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ter article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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

List of Surface Owner(s) with Proposed Well Pad/Road and/or Other Disturbance associated with THIN AIR Well Pad

TM 12-11 Owner:

Clara Suzanne Wallace et vir

Address:

2804 Gammon Drive

Indianapolis, IN 26234

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Owner: Address: Michael Martin 7156 Elk Fork Road

Middlebourne, WV 26149

TM 12-8

Owner:

Shirley L. Carroll

Address:

6743 Wetzel Tyler Ridge Road

New Martinsville, WV 26155

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API NO. 47- 095 - C	2755
OPERATOR WELL NO.	Capitol Unit 2H
Well Pad Name: Thin Air Pa	id

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

provisions list WW-6A and required, and State: County: District: Quadrangle: Watershed:	, hereby state that I have read ted above, and that I have received copies of a attachments consisting of pages one (1) through the well plat, all for proposed well work on the West Virginia Tyler Ellsworth Porter Falls 7.5' Outlet Middle Island Creek that I have no objection to the planned work decematerials.	a Notice of A ough tract of land UTM NAD Public Roa Generally t	pplication, an App , including as follows: D 83 Easting: Northing: d Access: used farm name:	blication for a Well Work Permit on Form the erosion and sediment control plan, if 517793m 4375376m CR 11 Clara Suzanne Wallace & Rickie Wallace
*Please check	the box that applies		FOR EXECUT	ION BY A NATURAL PERSON
□ SURFAC	CE OWNER		Signature:	<u> </u>
□ SURFAC	EE OWNER (Road and/or Other Disturband	ce)	Print Name:	
☐ SURFAC	CE OWNER (Impoundments/Pits)			
□ COAL O	WNER OR LESSEE			ION BY A CORPORATION, ETC.
□ COAL O	PERATOR		By: Its:	RECEIVED Office of Oil and Gas
□ WATER	PURVEYOR			AUG-1 0 2021
□ OPERAT	TOR OF ANY NATURAL GAS STORAG	E FIELD	Date:	AUG 1 0 ZUZ1

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.

Environmental Protection



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

July 30, 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 Thin Air A Pad, Tyler County
Capitol Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2020-0071 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 11/5 SLS MP 1.14.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc:

Mallory Stanton Antero Resources CH, OM, D-6 File RECEIVED Office of Oil and Gas

AUG 1 0 2021

List of Anticipated Additives Used for Fracturing or Stimulating Well

	Chemical Abstract Service Number	7
Additives	(CAS #)	
Fresh Water	7732-18-5	-{
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	1
Ammonium Persulfate	7727-54-0	1
Anionic copolymer	Proprietary	1
Anionic polymer	Proprietary	-{
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	-
Cellulase enzyme	Proprietary	-{
Demulsifier Base	Proprietary	1
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	1
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		-
Petroleum Distillates (BTEX Below Detect)	Proprietary 64742-47-8	-
Polyacrylamide	57-55-6	-
Propargyl Alcohol	107-19-7	4
Propylene Glycol	57-55-6	
Quartz		-
Sillica, crystalline quartz	14808-60-7 7631-86-9	4
Sodium Chloride	7631-66-9	-
Sodium Hydroxide	1310-73-2	4
Sugar	57-50-1	-
Surfactant	68439-51-0	
Suspending agent (solid)	14808-60-7	ł
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	1
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester	67784-80-9	ł
Copolymer of Maleic and Acrylic Acid	52255-49-9	ł
DETA phosphonate	15827-60-8	
Hexamthylene Triamine Penta	34690-00-1	1
Phosphino Carboxylic acid polymer	71050-62-9	1
Hexamethylene Diamine Tetra	23605-75-5	
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	BECEIVED -
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5 Office	RECEIVED e of Oil and Gas
Diethylene Glycol		JG 1 0 2021
Methenamine	100-97-0	Uu 1 V 232
Polyethylene polyamine	68603-67-8	V Department of onmental Protection
Coco amine	61791-14-8	DULLIGIT 1 1912
2-Propyn-1-olcompound with methyloxirane	38172-91-7	

 $\bigvee^{\mathsf{ENERGY}} \bigvee^{\mathsf{ENGINEERING}}$

BEAISED DEB MEITS	1202/22/9
REVISED PER WCP	1202/\$0/9
BEATZED DEMVIERING SAZIEWS	2/21/2020
REVISED PER PIPELINE RELOCATION	0/08/5050

THIS DOCUMENT
WAS PREPARED FOR
ANTERO RESOURCES
CORPORATION

Mantero

JIM WILSON - LAND AGENT OFFICE: (304) 842-4419 CELL: (304) 671-2708 CHARLES E. COMPTON, III - UTILITY CELL: (304) 719-6449

delug.

ENGINEER/SURVEYOR.

WANTUS ENGINEERIO, INC.

CYRUS S. KUMP, PR. – PROJECT

MANGER/ENGINEER

OFFICE: (898) 662-4185 CELL: (640)

ENVIRONMENTAL. PETRA RECH. INC. PETRA SCHUMCHER - MANAGER OFFICE: (412) 921-7090 CELI: (412) 657-8148

GEOTECHNICAL:
PENNSTANIA SOLL ROCK, INC.
CHESTOPHER T. SAMOS - PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 569-0663

RESTRICTIONS NOTES:
1. THERE ARE NO PERSONAL STREAMS, WITANDS, LAKES, PONDS, OR RESERVOISS WITHIN 1109 PERF OF THE WELL PAD, AND LOD, THERE IS A WITAND ADJACENT TO ACCESS ROAD Y, WHICH WITH REMAIN UNDISTURBED.

THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FERT OF THE WELL. PAD AND LOD.

PARES ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY PACILITIES WITHIN 1000 NEW, OF THE WELL PAD AND LOD.

The are no agricultural buildings langer than 2,500 square pert within the the stat pag.

THIN AIR "A"

WELL PAD & WATER CONTAINMENT PAD EROSION & SEDIMENT CONTROL PLANS SITE DESIGN & CONSTRUCTION PLAN,

WVDEP OOG UPDATED 8/25/2021

APPROVED

-80.788917 (NAD 83) -80.788917 (NAD 27) (UTM ZONE 17 METERS)

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
LATITUDE 39.535501 UNGITUDE -LATITUDE: 39.535431 LONGITUDE: -LATITUDE: 39.535431 LONGITUDE: -N 4376226.75 E 518154.52 (UT)

9234 LONGITUDE: -80.791359 (NAD 83) 9155 LONGITUDE: -80.791534 (NAD 27) E 517931.23 (UTM ZONE 17 METERS)

CENTER OF TANK
LATITUDE: 39.52922
LATITUDE: 39.52912
N 4375529.76
E

CENTROLD OF PAD
LATTUDE :90.52010 LONGITUDE -90.792749 (NAD 83)
LATTUDE :90.52011 LONGITUDE -90.792749 (NAD 27)
N 4375404.72 E 517627.10 (UTM ZONE 17 METERS

ELLSOWRTH DISTRICT, TYLER COUNTY, WY LITTLE MUSKINGUM-MIDDLE ISLAND WATERSHED

THE LOCATING OF UTILITY WILL BE PROJECT.

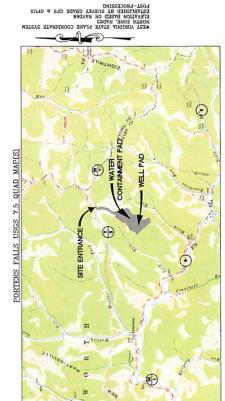
MISS UTILITY STATEMENT:
MATERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIBIGINA FOR
UTILITIES PROJECT DESIGN TICES ABSOLVED IN ADDITION, MISS
OWNLATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THE

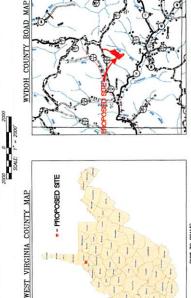
GENERAL DESCRIPTION: RECESSES ROADS, WATER CONVINENT PAD, AND WELL PAD ARE BEING CONSTRUCTED TO AD THE DYNADOWNEY OF HOMPHOLM, MARCHALUS SHALE CAS WILLS.

BATTRANCE, DERAULT.

SERVICE D

FLOODPLAIN NOTES:

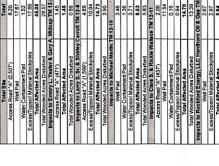






DESIGN CERTIFICATION:
ONSTRUCTION NOTS: AND
REPERVE BAUGAMS ATTACHD HERETO HAVE
REPERVED BAGGAMS ATTACHD HERETO HAVE
WEST PREPARED IN ACCORDING WITH HISTOR
WEST VIRGINIA, CODE OF STATE BUILDS. DIVISION
AND GAS CIES 35-8.

(NOT TO SCALE)



Well Name	WW North	NAD 27 Lat & Long	DTM (METERS)	NAD 83 Lat & Long
		Permit	Permitted Location	
Capitol	N 370948 81	LAT 39-31-39 8549	N 4375372 10	LAT 39-31-40, 1407
UNKTH	E 1635240.42	LONG -80-47-35-4980	E 517730.42	LONG -80-47-34 5053
Capitol	N 376961,04	LAT 39-31-39-9770	N 4375375 87	LAT 39-31-40.2027
Unit 2H	E 1635249 10	LONG -80-47-35, 3274	E 517793 00	LONG -80-47-34 5977
Maroon	N 375973.31	LAT 39-31-40,0905	N 4375379 65	LAT 39-31-40, 3852
Unit 1H	E 1635257.73	LONG-80-47-35.2198	E 517795.57	LONG -80-47-34 5899
Marson	N 375985.54	LAT 39-31-40 2216	N 4375383.42	LAT 39-31-40 5073
Unit 2H	E 1635266.42	LONG 40-47-35 1109	E 817798.15	LONG -60-47-34,4813
Purple	N 376997.76	LAT 38-31-40, 3437	N 4375387 19	LAT 39-31-40 6294
Unit 1H	E 1635275.10	LONG -80-47-35 0023	E 517830.73	LONG -80-47-34,3727
Purple	N 377009.99	LAT 39-31-40-4657	N 4375390 96	LAT 39-31-40, 7514
Unit 2H	E 1635283.79	LCNG-80-47-34-8937	E 517803.32	LONG -80-47-34 2840
Actei	N 377022 22	LAT 39-31-40,5678	N 4375394 73	LAT 39-31-40.8735
Unit 1H	E 1635292.48	LONG -80-47-34 7851	E 517806.90	LONG -80-47-34 1554
Thin Air A (Permitted) N 375849 58	N 375849,58	LAT 39-31-38.8800	N 4375342 10	LAT 39-31-39, 1683
Unit SH	E 1635285 38	E 1635285 38 LCNG -80-47-34.8439	E 517804.02	LONG -80-47-34 2143

WELL PAD & WATER CONTAINMENT PAD
TYPES COUNTY, WEST VIRGINIA

THIN AIR "A" COAER SHEET

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PAPER PLANS WERE CREATED TO BE PLOTTED ON 22 X34" (ANSI I) PAPER. HALF SCALE DRAWINGS ARE ON 11 X17" (ANSI B) PAPER. CREATED FOR COLOR PLOTTING AND SCALE OR COLOR MAY RESULT IN A NOT BE USED FOR CONSTRUCTION I

DATE: 06/23/2020 SCALE: AS SHOWN

SHEET I OF 32

AND EAS CONTROLS NOTE

- STORE DEBARAGE, ES ES CONFUNCTIONS

EXECUTION DE DATASE, ES ES CONFUNCTIONS

EXECUTION DE DATASE AND CONFUNCTION

- COTESTION DE STORE AND CONFUNCTION

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- COTESTION DE STORE

- COTE

N. I	
RECLAMATION	
PAD.	
32 - WELL PAD & WATER CONTAINMENT PAD RECLAMATION FLAN GESOO-GESOB GEOTECHNICAL DETAILS	COTTAINS NOT THE REAL PROPERTY.

THIN AIR "A" LIMITS OF DISTURBANCE AREA (AC)	CE AREA (AC)
Total Site	Total
Access Road "A" (2,507")	8.20
Well Pad	17.67
Water Containment Pad	1.52
Excess/Topsoil Material Stockpiles	17.66
Total Affected Area	45.05
Total Wooded Acres Disturbed	28.57
Impacts to Emory L. Yeater & Gary A.	Mideap TM 12-2
Access Road "A" (471')	1.45
Total Affected Area	1.45
Total Wooded Acres Disturbed	0.88
Impacts to Larry S. Sr. & Shirley Ca	arroll TM 12-8
Access Road "A" (1,599")	4.69
Excess/Topsoil Material Stockpiles	10.04
Total Affected Area	14.73
Total Wooded Acres Disturbed	3.90
Impacts to Michael Martin TM 12-10	112-10
Well Pad	3.46
Water Containment Pad	1.36
Excess/Topsoil Material Stockpiles	3.71
Total Affected Area	8.53
Total Wooded Acres Dishrbed	5.83
Impacts to Clara S. & Rickie Walls	ace TM 12-11
Access Road "A" (437')	2.06
Well Pad	11.54
Water Containment Pad	0.16
Excess/Topsoil Material Stockpiles	0.94
Total Affected Area	14.70
Total Wooded Acres Disturbed	13.39
Impacts to Rockford Energy, LLC Henthorn	1 Oil & Gas TM 12-12
Well Pad	267
Excess/Topsoil Material Stockpiles	2.87
Total Affected Area	5.64

Y 15, 2020 INC. DATE THE INFO ITION OF THE ENNSYLVAN	-
THEEN JANUAR SOIL & ROCK, VESTIGATION. THE PREPAREREPORT BY P	CONTACTS
ROCK, INC. BETHERN JANUARY 15, 2020 SENSYLVARIA SOLA, & BOCC, INC. DATE SUBSUBPACE, INVESTIGATION: THE INYDI WERE USED IN THE PREPARATION OF TH INVESTIGATION REPORT BY PERNAYLANI	PROJECT CONTACTS

PROPORTION TO THE REPORT PERPARAMENT OF THE REPORT PERPARAMENT OF THE REPORT PERPARAMENT OF THE REPORT PERPARAMENT OF THE REPORT PERPARAMENT ON THE RESPONSE TO THE REPORT PERPARAMENT ON THE STREAMENT OF THE REPORT PERPARAMENT OF THE STREAM OF THE STREAMENT OF THE STREAM OF THE STRE GEOTECHNICAL STUDIES;
A SUBURIARE INVESTIGATION OF THE PROCE. INC. BETWEEN JAVILAR IS, 2020.
SUBURIARIAN SOLE, BOCK INC. BATED SUBURIARIANON. THE INVESTIGATION. THE INVESTIGATION BEFORE TO PREVABLION OF THE INVESTIGATION REPORT OF THE INVESTIGATION REPOR

ENVIRONMENTAL NOTES:

THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE STRUCK AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE WAS UNCOURSED. THE PROPERTY OF THE PRO

OPERATOR:
ANTERO RESOURCES CO
SASS WHITE OAKS BUND
BRIDGEPORT, WY 26330
PHONE: (304) 842-4102
FAX: (304) 842-4102

ELI WAGONER – ENVIRONMENTAL ENGINEER & REGULATORY MANAGER OFFICE: (304) 842-4068 CELL: (304) 476-8770

DIANA HOFF - SVP OPERATIONS OFFICE: (303) 357-6904

AARON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER
DFFICE: (304) 642-4100 CELL: (304) 627-7405

MAGE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRENGS WITHIN 250 PER, OF THE WELLS) BEING DEALLED.

THE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF

