

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, June 14, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for BUSCH UNIT 3H 47-103-03406-00-00

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: BUSCH UNIT 3H Farm Name: WILLIAM L. & DELORES J. U.S. WELL NUMBER: 47-103-03406-00-00 Horizontal 6A New Drill Date Issued: 6/14/2021

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit</u> 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.

06/18/2021

WW-6B (04/15)

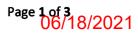
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API NO. 47- <u>103</u> -	03496
OPERATOR WELL	LNO. Busch Unit 3H
Well Pad Name:	Gadd Pad

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

1) Well Operator: Antero Reso	ources Corpora	494507062	Wetzel	Green	Porters Falls 7.5
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Bus	sch Unit 3H 🗸	Well Pa	ad Name: Gad	d Pad 🖊	
3) Farm Name/Surface Owner: <u>_</u>	Villiam L. & Delores J	. Gade Public Ro	ad Access: Eig	htmile Roa	d
4) Elevation, current ground:	1223.8' El	evation, propose	d post-construct	ion: <u>~1223</u>	.8
5) Well Type (a) Gas X Other	Oil	Un	derground Stora	ige	
(b)If Gas Shal	low <u>X</u> zontal X	Deep			
6) Existing Pad: Yes or No Yes					
7) Proposed Target Formation(s) Marcellus Shale: 7400' TVD, Ar	, Depth(s), Antic	*	•		
8) Proposed Total Vertical Depth	_{1:} 7400' TVD 🗸				
9) Formation at Total Vertical De					
10) Proposed Total Measured De	pth: 20500' 🗸	/			
11) Proposed Horizontal Leg Ler	ngth: 11750' 🗸	/			
12) Approximate Fresh Water St	rata Depths:	350'			
13) Method to Determine Fresh	Water Depths:	47-095-02266			
14) Approximate Saltwater Dept	hs: <u>1887', 191</u> 7	7			
15) Approximate Coal Seam Dep	oths: 656', 971'				
16) Approximate Depth to Possil	ole Void (coal m	ine, karst, other):	None Anticipa	ated	RECEIVED
17) Does Proposed well location directly overlying or adjacent to		ms Yes	N		AY 1 3 2021
(a) If Yes, provide Mine Info:	Name:			W\ Enviro	/ Department of nmental Protection
	Depth:				
	Seam:				
	Owner:				



API NO. 47- 103 - 03406 OPERATOR WELL NO. Busch Unit 3H Well Pad Name: Gadd Pad

18)

WW-6B

(04/15)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or <u>Used</u>	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	400 *see #19	400 *see #19	CTS, 556 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#	20500	20500	5229 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			1
Liners						1	

	5-19-21		
Pressure	Anticipated	Cement	

TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (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	1						
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	

Page 2 of 3

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

Drill a new horizontal shallow well into the Marcellus Shale.

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 34.16 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.00 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

25) Proposed borehole conditioning procedures:

MAY 1 3 2021

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.



(4/10)	
、 <i>/</i>	Operator's Well No. Busch Unit 3H
STATE (OF WEST VIRGINIA
DEPARTMENT OF E	NVIRONMENTAL PROTECTION
	E OF OIL AND GAS
FLUIDS/ CUTTINGS D	ISPOSAL & RECLAMATION PLAN
Operator Name_Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) Lower Fishing Creek	Quadrangle Porters Falls 7.5'
Do you anticipate using more than 5,000 bbls of water to co	omplete the proposed well work? Yes No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste:	vill 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 Pe	ermit Number*UIC Permit # will be provided on Form WR-34)
	mitted 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/

ADI Number 47

103

13416

Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.

Surface - Air/Freshwater, Intermediate -Dust/Stiff Foam, Production - Water Based Mud Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

-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. RECEIVED

Company Official Signature Gretchen Kohler	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Gretchen Kohler	MAY 1 3 2021
Company Official Title Senior Environmental & Regulatory Manager	
Subscribed and sworn defore me this day of MAN,	WV Department or Environmental Protection 20
My commission expires 2313 2002	нтіята акігніти опаво узаба и опаво отала отала азанте ог сосокаро азанточаго то этата азанточаго то тала вазпочала и соммари ала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпочала вазпоча вазпочала вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпоча вазпо вазпоча вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо вазпо в вазпо вазпо вазпо вазпо вазпо в вазпо вазпо в вазпо вазпо вазпо в вазпо в вазпо в вазпо в вазпо в вазпо ва вазпо вазпо вазо вазпо ва вазпо в вазпо ва вазпо вазпо ва ва ва ва вазпо ва ва ва вазпо ва ва вазпо ва ва ва ва ва ва ва ва ва ва ва ва во ва во ва ва во ва ва в ва во в во ва во в ва ва ва во ва в во ва в во в в ва в в во в в во в в в в

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Form WW-9

Operator's Well No. Busch Unit 3H

Antero Resources Corporation

	nent: Acres Disturbed 34.16 ac	122	
Lime 2-4	Tons/acre or to correct to pH	0.5	
Fertilizer type	straw or Wood Fiber (will be used y	where needed)	
Fertilizer amount 50	0 <u>Ib</u>	s/acre	
Mulch 2-3	Tons/a	acre	
Access Road "A" (6.	08 acres) + CO Route 46 (0.78 acres) + Well P	ad (17.00 acres) + Excess/Topsoil Material Stockp	vile (10.30 acres ⊨ 34.16 Acres
	See	d Mixtures	
Ten	aporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for addition	nal seed type (Gadd Pad Design)	See attached Table IV-4A for addition	nal seed type (Gadd Pad Desi
*or type of grass seed rec	uested by surface owner	*or type of grass seed requ	ested by surface own

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 ($L \times W \times D$) of the pit, and dimensions ($L \times W$), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Approved by: Buyan Ham		
	191	
e: d Reviewed? () Yes	Date: 5-19-21	

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	RECEIVED
Calcium Hydroxide – Lime	Office of Oil and Gas
11. LD-9	MAN 1 0 0 00
Polyether Polyol – Drilling Fluid Defoamer	MAY 1 3 2021
12. Mil Mica	
Hydro-Biotite Mica – LCM	WV Department of Environmental Protection

13. Escaid 110 Drilling Fluild Solvent - Aliphatic Hydrocarbon 14. Ligco Highly Oxidized Leonardite - Filteration Control Agent 15. Super Sweep Polypropylene - Hole Cleaning Agent 16. Sulfatrol K Drilling Fluid Additive - Sulfonated Asphalt Residuum 17. Sodium Chloride, Anhydrous Inorganic Salt 18. D-D Drilling Detergent - Surfactant 19. Terra-Rate Organic Surfactant Blend 20. W.O. Defoam Alcohol-Based Defoamer 21. Perma-Lose HT Fluid Loss Reducer For Water-Based Muds 22. Xan-Plex D Polysaccharide Polymer - Drilling Fluid Viscosifier 23. Walnut Shells Ground Cellulosic Material - Ground Walnut Shells - LCM 24. Mil-Graphite Natural Graphite - LCM 25. Mil Bar Barite - Weighting Agent 26. X-Cide 102 Biocide 27. Soda Ash Sodium Carbonate – Alkalinity Control Agent 28. Clay Trol Amine Acid complex - Shale Stabilizer 29. Sulfatrol Sulfonated Asphalt - Shale Control Additive 30. Xanvis RECEIVED Viscosifier For Water-Based Muds Office of Oil and Gas 31. Milstarch Starch – Fluid Loss Reducer For Water Based Muds MAY 1 3 2021 32. Mil-Lube Drilling Fluid Lubricant WV Department of Environmental Protection

BUSCH UNIT 3H (GADD PAD) - AREA OF REVIEW 35-8-5.11 PAGE 1 47103026890000 47103301140000 Busch Unit 3H 47103301220000 RECEIVED Office of Oil and Gas MAY 1 3 2021 47103311220001 WV Department of Antero Environmental Protection 47103311220000 Antero Resources Corporation Busch Unit 3H - AOR 1,000 FEET WELL SYMBOLS Abandoned Oil and Gas Well Gas Well Plugged Gas Well 06/18/2021 April 29, 2021

4716303406



911 Address 2946 Eight Mile Road Reader, WV 26167

Well Site Safety Plan

B.O.H. 5-19.21

Antero Resources

Well Name: Blake Unit 1H, Busch Unit 1H-3H, Charlotte Unit 1H-2H, Peeler Unit 1H-3H

Pad Location: GADD PAD

Wetzel County/Green District

GPS Coordinates:

Entrance - Lat 39°32′48.30″/Long -80°45′08.74″ (NAD83) Pad Center - Lat 39°32′59.94″/Long -80°45′20.17″ (NAD83)

Driving Directions:

From Reader Fire Department: Head north on WV-20 N. toward Spice Lane for 0.5 miles. Turn left onto CO Rd/40/2 for 0.4 miles. Continue onto Eight Mile Road for 2.4 miles. Access road will be on your right.

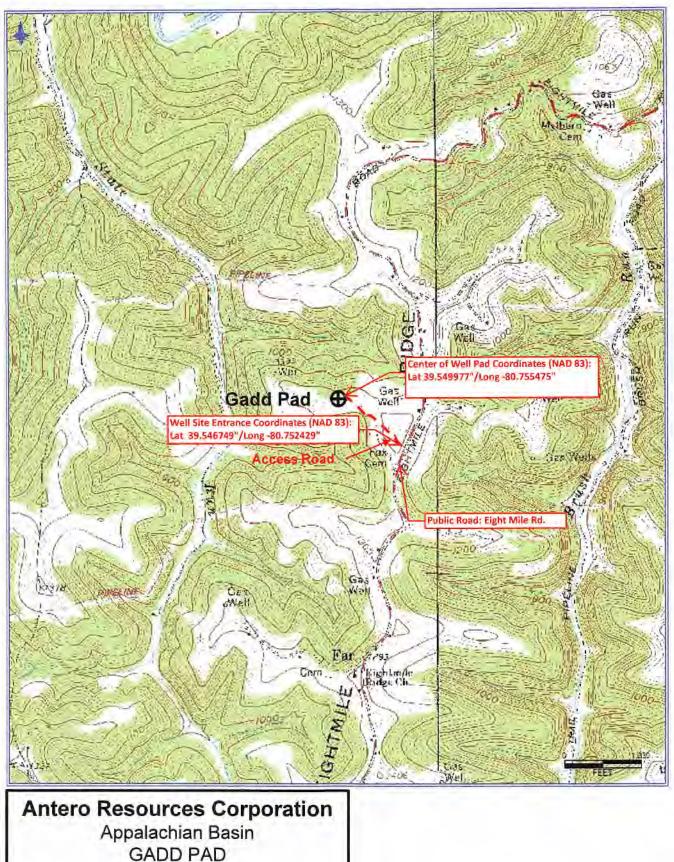
Alternate Route:

From Middlebourne Post Office: Turn left onto WV-18 N/Main Street for 3.8 miles. Turn right toward Elk Fork for 302 feet. Continue onto Elk Fork Road for 0.4 miles. Turn right onto Elk Fork Road for 9.6 miles. Turn left onto Wetzel Tyler Ridge Road for 0.6 miles. Continue onto Eight Mile Road for 1.7 miles. Access road will be on the left.

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

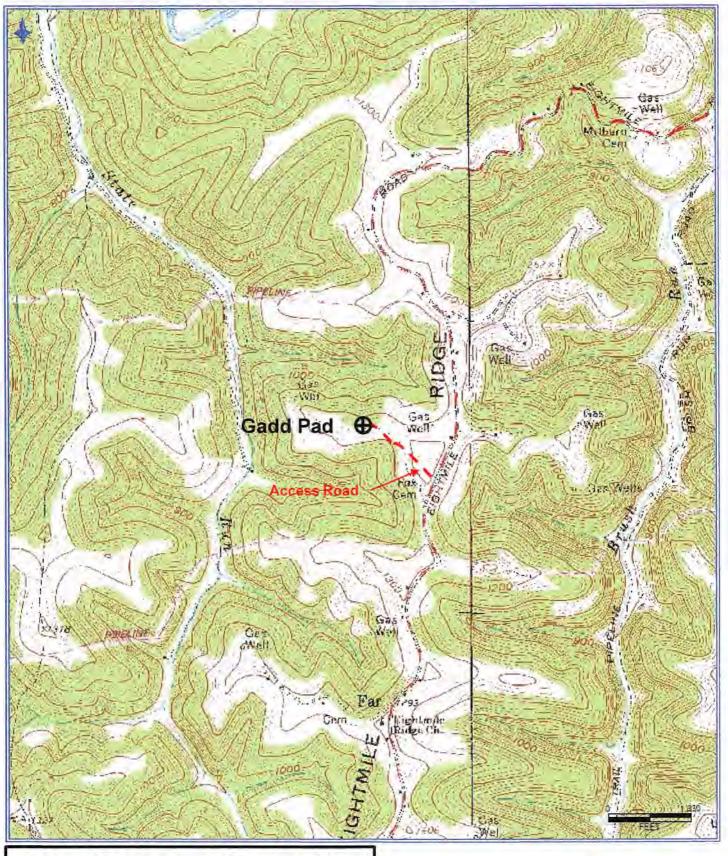
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SSP Page 1



Wetzel County

Quadrangle: Porters Falls Watershed: Fishing Creek District: Green Date: 5-3-2021

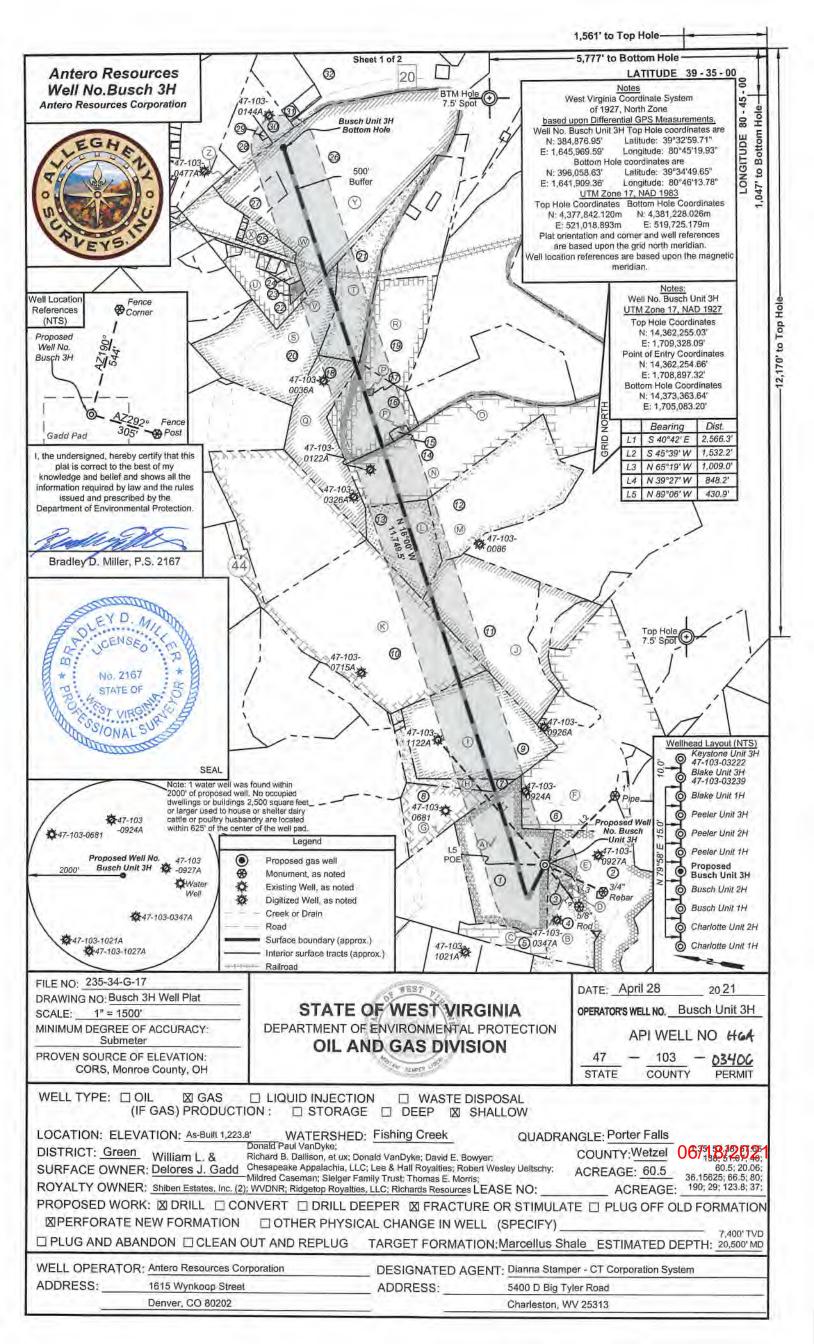


Antero Resources Corporation Appalachian Basin GADD PAD Wetzel County Quadrangle: Porters Falls Watershed: Fishing Creek

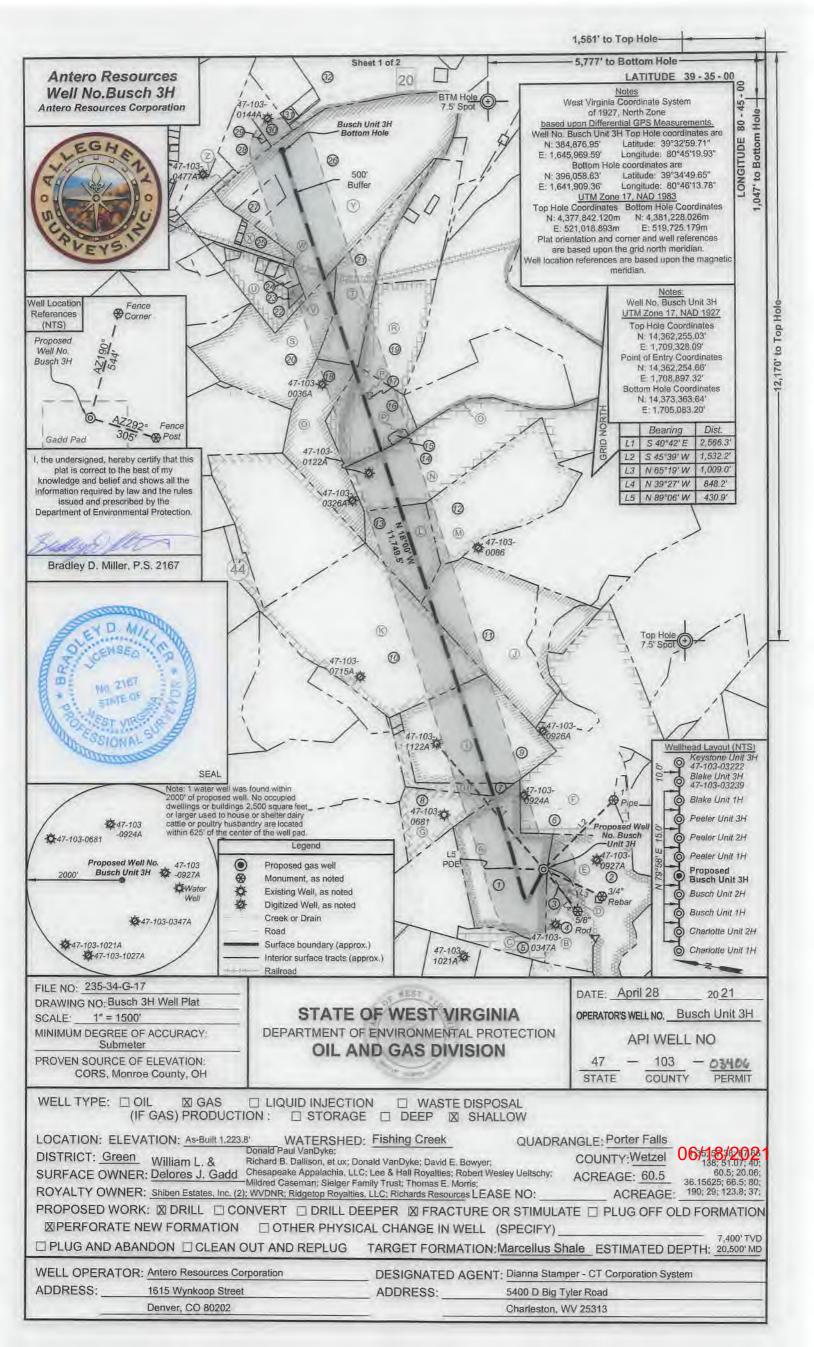
District: Green Date: 5-3-2021 RECEIVED Office of Oil and Giro

MAY 1 3 2021

WV Department of Environments Emigeline



Antero Resources Well No. Busch 3H Antero Resources Corporation	Sheet 2 of 2	
E G H KI IVO		
ID TM/Par 1 16-22 Will	Owner Bk/Pg Acres liam L. & Delores J. Gadd 348/169 60.50	
2 16-23	Kenneth E. Butler 331/110 50.97 liam L. & Delores J. Gadd 348/169 2.65	
10.00	Iiam L. & Delores J. Gadd 348/169 14.00 William M. Greenawalt A & Lee A. Niezgoda 387/1 12.00	Leases Shiben Estates, Inc. Ellen W. & Mark L. VanDyne
6 16-10 L	oren & Shirley Haught 444/434 100.48	Sandra Rose Conley John W. Bertram
7 16-21.3 8 16-21.2 9 16-9 Rich	Mildred E. Caseman WB45/396 20.06 E BF	RC Appalachian Minerals I, LLC Gordon Cummings
9 16-9 Rich 10 12-55 11 12-56	ard A. & Susan L. Gardner 341/281 66.50 F Bradley W. Ueltschy 330/37 100.00 G Ronald K. Burgess WB25/275 69.37 H	Mildred Caseman Sielger Family Trust
12 12-51	James Gail Morgan, Jr. 300/3 60.00	Thomas E. Morris Chesapeake Appalachia, LLC
14 13-27 Donald F 15 12-42:2 Donald I	P. Vandyke & Mark L. Vandyke 410/241 123.80 K P. Vandyke & Mark L. Vandyke 410/241 1.00 L	Lee & Hall Royalties Robert Wesley Ueltschy
17 12-42.1 Donald F	P. Vandyke & Mark L. Vandyke 410/241 29.65 M P. Vandyke & Mark L. Vandyke 410/241 0.35 N	James Gail Morgan, Jr. Shiben Estates, Inc.
19 12-32 Donald F	P. Vandyke & Mark L. Vandyke 410/241 38.00	/ Division of Natural Resources Donald Paul VanDyke Richard B. Dallison, et ux
	uce Allen Lawhorne, et al 419/878 40.00 R	Donald VanDyke Ridgetop Royalties, LLC
23 12-29 Jero	II & Benita K. Staley 415/329 13.34 S Ime E. II & Benita K. Staley 415/329 1.50 T Ime E. II & Benita K. Staley 415/329 2.05 U	David E. Bowyer Bounty Minerals, LLC
25 12-10 C	Charles & Wilda Lee Loy 299/009 4.85 V thy L, & Michael A. McDiffitt 385/189 131.34 W	OPEN Raymond P. Gaston, et ux
28 7-54	thy L. & Tammy D. McDiffitt 431/389 6.66 X James Ronald Long 283/207 10.00 Y	Raymond P. Gaston, et ux Richards Resources
29 7-55 Cheryl 30 7-56 31 8-35	I Janette & Gary Lyn Harman 420/756 0.25 Z M April D. Lancaster 410/707 8.80	Division of Natural Resources
32 8-36	Holbert W. Carrel Sr. 416/390 72.68	
	NEST D.	DATE: April 28 20 21
RAWING NO: Busch 3H Well Plat SCALE: 1" = 1500'	STATE OF WEST VIRGINIA	
RAWING NO: Busch 3H Well Plat SCALE: 1" = 1500'	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION	
TILE NO: 235-34-G-17 DRAWING NO: Busch 3H Well Plat SCALE: 1" = 1500' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH	STATE OF WEST VIRGINIA	OPERATOR'S WELL NOBusch Unit 31
RAWING NO: Busch 3H Well Plat GCALE: 1" = 1500' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH WELL TYPE: □ OIL ☐ GAS	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION LIQUID INJECTION WASTE DISPOSAL	OPERATOR'S WELL NO. Busch Unit 3H API WELL NO 47 – 103 – 03406
ORAWING NO: Busch 3H Well Plat SCALE: 1" = 1500' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH WELL TYPE: OIL IF GAS) PRODUC OCATION: ELEVATION: As-Built 1,22 DISTRICT: Green WIIIam L. & SURFACE OWNER: Delores J. Gade ROYALTY OWNER: Shiben Estates, Inc. PROPOSED WORK: DRILL C	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION LIQUID INJECTION	OPERATOR'S WELL NO. Busch Unit 3H API WELL NO 47 - 103 - 03406 STATE COUNTY PERMIT ANGLE: Porter Falls COUNTY: Wetzel ACREAGE: 60.5 ACREAGE: 190; 29; 123.8; ATE PLUG OFF OLD FORMATION
RAWING NO: Busch 3H Well Plat CALE: 1" = 1500' IINIMUM DEGREE OF ACCURACY: Submeter ROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH WELL TYPE: OIL GAS (IF GAS) PRODUC OCATION: ELEVATION: As-Built 1,22 OISTRICT: Green William L. & SURFACE OWNER: Delores J. Gade ROYALTY OWNER: Shiben Estates, Inc. PROPOSED WORK: DRILL C DERFORATE NEW FORMATION PLUG AND ABANDON CLEAN	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION LIQUID INJECTION UNASTE DISPOSAL LIQUID INJECTION WASTE DISPOSAL TION : STORAGE DEEP SHALLOW 3.8' WATERSHED: Fishing Creek Donald Paul VanDyke; Richard B. Dallison, et ux; Donald VanDyke; David E. Bowyer; Chesapeake Appalachia, LLC; Lee & Hall Royalties; Robert Wesley Ueltschy; Mildred Casemar; Sielger Family Trust; Thomas E. Morris; (2): WVDNR; Ridgetop Royalties, LLC; Richards Resources LEASE NO: CONVERT DRILL DEEPER SFRACTURE OR STIMULAN OTHER PHYSICAL CHANGE IN WELL (SPECIFY) OUT AND REPLUG TARGET FORMATION: Marcellus S	OPERATOR'S WELL NO. Busch Unit 3H API WELL NO 47 - 103 - 03406 STATE COUNTY PERMIT ANGLE: Porter Falls COUNTY: Wetzel 06/18/20 ACREAGE: 60.5 ACREAGE: 190; 29; 123.8; ATE PLUG OFF OLD FORMATI hale ESTIMATED DEPTH: 20,500'
RAWING NO: Busch 3H Well Plat CALE: 1" = 1500' IINIMUM DEGREE OF ACCURACY: Submeter ROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH WELL TYPE: OIL GAS (IF GAS) PRODUC OCATION: ELEVATION: As-Built 1,22 DISTRICT: Green William L, & SURFACE OWNER: Delores J. Gade ROYALTY OWNER: Shiben Estates, Inc. PROPOSED WORK: DRILL C	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION ULIQUID INJECTION WASTE DISPOSAL TION: STORAGE DEEP X SHALLOW Storade DEEP X SHALLOW ATERSHED: Fishing Creek QUADR Donald Paul VanDyke; Richard B. Dallison, et ux; Donald VanDyke; David E. Bowyer; Chesapeake Appalachia, LLC; Lee & Hall Royalties; Robert Wesley Ueltschy: Mildred Caseman; Sielger Family Trust; Thomas E. Morris; (2); WVDNR; Ridgetop Royalties, LLC; Richards Resources LEASE NO: ONVERT DRILL DEEPER X FRACTURE OR STIMULA OTHER PHYSICAL CHANGE IN WELL (SPECIFY) OUT AND REPLUG TARGET FORMATION: Marcellus S Corporation	OPERATOR'S WELL NO. Busch Unit 34 API WELL NO 47 - 103 - 03406 STATE COUNTY PERMIT ANGLE: Porter Falls COUNTY: Wetzel ACREAGE: 60.5 ACREAGE: 190; 29; 123.8; ATE PLUG OFF OLD FORMATI hale_ESTIMATED DEPTH: 20,500' ACREAGE: 20,500'



Sheet 2 of 2 Antero Resources Well No. Busch 3H Antero Resources Corporation EGHE V 0 Bk/Pg Acres ID TM/Par Owner William L. & Delores J. Gadd 348/169 60.50 1 16-22 Kenneth E. Butler 331/110 50.97 2 16-23 William L. & Delores J. Gadd 348/169 2.65 3 16-31 Leases 4 16-30 William L. & Delores J. Gadd 348/169 14.00 William M. Greenawalt A ben Estates, Ir 5 16-47 387/1 12.00 В n W. & Mark L. VanDyne & Lee A. Niezgoda Sandra Rose Conley Loren & Shirley Haught CD 6 16-10 444/434 100.48 Mildred E. Caseman John W. Bertram 7 16-21.3 WB45/396 12.00 BRC Appalachian Minerals I, LLC E 8 16-21.2 Mildred E. Caseman WB45/396 20.06 F Gordon Cummings Richard A. & Susan L. Gardner Bradley W. Ueltschy 9 16-9 341/281 66.50 G Mildred Caseman 10 12-55 330/37 100.00 Sielger Family Trus H 11 12-56 Ronald K. Burgess WB25/275 69.37 James Gail Morgan, Jr. Robert W. & Bradley W. Uektschy 1 Thomas E. Morris 12 12-51 300/3 60.00 Chesapeake Appalachia, LLC 13 12-41 J 341/261 29.00 Lee & Hall Royalti 14 13-27 Donald P. Vandyke & Mark L. Vandyke K 410/241 123.80 Robert Wesley Ueltschy James Gail Morgan, Jr. 15 12-42.2 Donald P.Vandyke & Mark L. Vandyke 410/241 123.00 L M Donald P. Vandyke & Mark L. Vandyke 16 12-42 410/241 29.65 17 12-42.1 Donald P. Vandyke & Mark L. Vandyke 410/241 0.35 N Shiben Estates, Inc O WV Division of Natural Resource P Donald Paul VanDyke Richard B. & Jaynee C. Dall 18 12-50 399/288 37.00 19 12-32 Donald P. Vandyke & Mark L. Vandyke 410/241 38.00 Richard B. Dallison, et ux Q 20 12-30 Martin E. Rogers 363/413 51.08 Donald VanDyke Bruce Allen Lawhorne, et al R 21 12-31 419/878 40.00 Ridgetop Royalties, LLC David E. Bowyer Jerome E. II & Benita K. Staley S 22 12-20.1 415/329 13.34 Jerome E. II & Benita K. Staley 23 12-29 415/329 1.50 Bounty Minerals, LLC Jerome E. II & Benita K. Staley U 24 12-28 415/329 2.05 OPEN Raymond P. Gaston, et ux 25 12-10 Charles & Wilda Lee Loy V 299/009 4.85 W Timothy L. & Michael A. McDiffitt 26 12-11 385/189 131.34 Raymond P. Gaston, et ux X Y 27 12-11.1 Timothy L. & Tammy D. McDiffitt 431/389 6.66 Richards Resources 28 283/207 10.00 James Ronald Long 7-54 Z WV Division of Natural Resources Cheryl Janette & Gary Lyn Harman 29 7-55 420/756 0.25 420/736 0.23 410/707 8.80 286/203 1.00 April D. Lancaster 30 7-56 31 8-35 George Woofter 32 8-36 Holbert W. Carrel Sr. 416/390 72.68 FILE NO: 235-34-G-17 DATE: April 28 20 21 TEST DRAWING NO: Busch 3H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Busch Unit 3H SCALE: 1" = 1500' DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO Submeter **OIL AND GAS DIVISION** - 103 - 03404 PROVEN SOURCE OF ELEVATION: 47 CORS, Monroe County, OH COUNTY STATE PERMIT LIQUID INJECTION U WASTE DISPOSAL X GAS WELL TYPE: OIL (IF GAS) PRODUCTION : STORAGE DEEP SHALLOW B' WATERSHED: Fishing Creek Donald Paul VanDyke; LOCATION: ELEVATION: As-Built 1,223.8' QUADRANGLE: Porter Falls COUNTY: Wetzel 06/18/202

 DISTRICT:
 Green
 Off184203

 SURFACE OWNER:
 Delores J. Gadd
 Richard B. Dallison, et ux; Donald VanDyke; David E. Bowyer;
 COUNTY:
 Off184203

 SURFACE OWNER:
 Delores J. Gadd
 Chesapeake Appalachia, LLC; Lee & Hall Royalties; Robert Wesley Ueltschy;
 ACREAGE:
 60.5; 20.06; 36.15625; 66.5; 80; 36.15625; 66.5; 80;

 ROYALTY OWNER:
 Shiben Estates, Inc. (2); WVDNR; Ridgetop Royalties, LLC; Richards Resources LEASE NO:
 ACREAGE:
 190; 29; 123.8; 37;

 DISTRICT: Green William L. & PROPOSED WORK: Ø DRILL □ CONVERT □ DRILL DEEPER Ø FRACTURE OR STIMULATE □ PLUG OFF OLD FORMATION ☑ PERFORATE NEW FORMATION □ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7.400' TVD □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,500' MD WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road

Charleston, WV 25313

Denver, CO 80202

WW-6A1

Operator's Well Number Busch 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 –

- 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
∧ Shiben Estates Inc. Lease (TM 16 PCL 22)			
Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
Mildred Caseman Lease			
J Mildred Caseman	Antero Resources Corporation	1/8+	0240/0093
Siegler Family Trust Lease			
Siegler Family Trust	Antero Resources Corporation	1/8+	0184/0070
Thomas E. Morris Lease			
Thomas E. Morris	Antero Resources Corporation	1/8+	0162/0479
K Lee & Hall Royalties Lease			
Lee & Hall Royalties	Antero Resources Corporation	1/8+	0246/0701
Chesapeake Appalachian LLC Lease			
Chesapeake Appalachian LLC	SWN Production Company	1/8	0157/0640
SWN Production Company	Antero Exchange Properties LLC	Assignment	0177/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
Robert Wesley Ueltschy Lease			
Robert Wesley Ueltschy	Antero Resources Corporation	1/8+	0249/0745
Shiben Estates Inc. Lease (TM 13 PCL 27)			
Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
Donald VanDyke Lease			
Donald VanDyke	Antero Resources Corporation	1/8+	0259/0556
Donald Paul VanDyke Lease			
Donald VanDyke	Antero Resources Corporation	1/8+	0208/0539
Richard B. Dallison et ux Lease			
Richard B. Dallison et ux	Antero Resources Corporation	1/8+	0253/0565
David E. Bowyer Lease			
David E. Bowyer	Antero Resources Corporation	1/8+	RECEIVED
Open Lease			Office of Oil and Gas

MAY 1 3 2021

WV Department of Environmental Protection

WW-6A1 (5/13)

4710303406 Busch Unit 214 Operator's Well No.

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
Y	Richard Resources Lease	Richard Resources	Antero Resources Corporation	1/8+	0173/0109

*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 ٠
- County Floodplain Coordinator

RECEIVED Office of Oil and Gas

MAY 1 3 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.

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

Well Operator:	Y	1
By:	Tim Rady	Nalla
Its:	VP of Land	1
Its:	VP of Land	

Page 1 of 1

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

RE: Busch Unit 3H Quadrangle: Porters Falls 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 Busch Unit 3H 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 Busch Unit 3H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tom Kuhn Senior Landman

> RECEIVED Office of Oil and Gas

MAY 1 3 2021

WV Department of Environmental Protection

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

Date of Notice Certification: 502

API No. 47- 103	-
Operator's Well No.	Busch Unit 3H
Well Pad Name: G	add 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:	West Virginia	UTM NAD 83 Easting:	521018.893m
County:	Wetzel	Northing:	4377842.120m
District:	Green	Public Road Access:	Eightmile Road
Quadrangle:	Porters Falls 7.5'	Generally used farm name:	William L. & Delores J. Gadd
Watershed:	Lower Fishing 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 (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	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
 3. NOTICE OF INTENT TO DRILL or DIVISION NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) 	RECEIVED/ NOT REQUIRED
4. NOTICE OF PLANNED OPERATION	
5. PUBLIC NOTICE	
■ 6. NOTICE OF APPLICATION	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A-33 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.

WV Department of Environmental Protection 06/18/2021

Certification of Notice is hereby given:

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	
By:	Tim Rady Diana O. Hold		Denver, CO 80202	
Its:	VP of Land	Facsimile:	303-357-7315	
Telephone:	303-357-7310	Email:	mgriffith@anteroresources.com	
	MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666	Subscribed and sw My Commission E:	Notary Public	

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.

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MAY 1 3 2021

WV Department of Environmental Protection



4710303406

API NO. 47-		
OPERATOR WE	ELL NO.	Busch Unit 3H
Well Pad Name:	Gadd Pad	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

WW-6A (9-13)

		1		ided no	later than the filing date of permit application.
Dat	e of Notice: 5/11	121 D	ate Permit Applica	tion Fi	led: 5/13/21
Not	ice of:				
	PERMIT FOR A WELL WORK	NY			OF APPROVAL FOR THE ON OF AN IMPOUNDMENT OR PIT
Deli	very method pur	suant	to West Virginia C	ode § 2	2-6A-10(b)
	PERSONAL SERVICE		REGISTERED MAIL		METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
	ficate of approval f	for the	construction of an im	poundn	ling date of the application, the applicant for a permit for any well work or for a ent 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.

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: William L. Gadd	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: 151 Loretta Avenue	Address:
Follansbee, WV 26037	
Name: Kenneth Eric Buller	COAL OPERATOR
Address: 1078 Bethany Pike	Name:
Wellsburg, WV 26070	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name: William L. Gadd	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,
Address: 151 Loretta Avenue	SPRING OR OTHER WATER SUPPLY SOURCE
Follansbee, WV 26037	Name: NONE IDENTIFIED WITHIN 1500
Name: Kenneth Eric Butler	Address:
Address: 1078 Bethany Pike	
Wellsburg, WV 26070	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: Office of Oil and Gas
Name:	Address:
Address:	MAY 1 3 2021
	*Please attach additional forms if necessary

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

WV Department of Environmentel Protection

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

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 effective date of this article. 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)

OPERATOR WELL NO. Busch Unit 3H Well Pad Name: Gadd Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

WW-6A (8-13) API NO. 47- 103 - 03406 OPERATOR WELL NO. Busch Unit 3H Well Pad Name: Gadd 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 <u>http://www.dep.wv.gov/oil-and-gas/Horizontal-</u> <u>Permits/Pages/default.aspx</u> 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

Permit Denial or Condition

natural gas storage operator noticed within the application.

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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VV Department ni Environmental Protection



WW-6A (8-13)

API NO. 47	13 - 03406
	ELL NO. Busch Unit 3H
Well Pad Name:	Gadd Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation	Address: 1615 Wynkoop Street	
Telephone: (303) 357-7310 Diana O. Hold	Denver, CO 80202	
Email: mgriffith@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 <u>depprivacyofficer@wv.gov</u>.

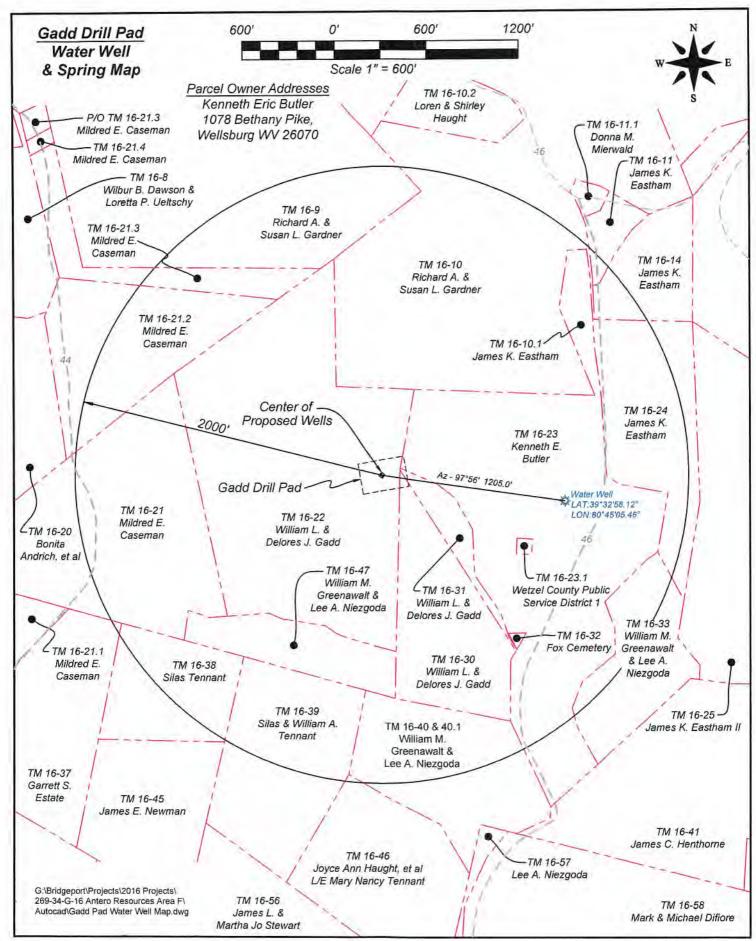
MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666 MY COMMISSION EXPIRES MARCH 13, 2022

Notary Public Sub e this day of My Commission Exp

RECEIVED Office of Oil and Gas

MAY 1 3 2021

WV Department or Environmental Protection



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

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: 03/10/2021 Date Permit Application Filed: 05/07/2021

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

HAND	CERTIFIED MAIL	
DELIVERY	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):

William L. Gadd	Name:	Kenneth Eric Butler	
151 Loretta Avenue	Address:	1078 Bethany Pike	
Follansbee, WV 26037		Wellsburg, WV 26070	
	151 Loretta Avenue	151 Loretta Avenue Address:	151 Loretta Avenue Address: 1078 Bethany Pike

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:	West Virginia	UTMAN
County:	Wetzel	UTM N.
District:	Green	Public R
Quadrangle:	Porters Falls 7.5'	General
Watershed:	Lower Fishing Creek	

n the trac	t of land as f	ollows:
AD 83	Easting:	521018.893m
	Northing:	4377842.120m
Road Access: Ily used farm name:		Eightmile Road
		William L. & Delores J. Gadd

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	Authorized Representative:	Megan Griffith	ODORANE D
Address:	1615 Wynkoop Street	Address:	1615 Wynkoop St.	Office of Classing Gr
Denver, CO 80202			Denver, CO 80202	
Telephone:	303-357-7310	Telephone:	303-357-7323	MAY 1 3 2021
Email:	mgriffith@anteroresources.com	Email:	mgriffith@anteroresource	s.com
Facsimile:	303-357-7315	Facsimile:	303-357-7315	WV Department or
				Environment

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 <u>depprivacyofficer@wv.gov</u>.

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: 05/07/2021 Date Permit Application Filed: 05/07/2021

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

CERTIFIED MAIL		
RETURN RECEIPT REQUESTED		

HAND 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: William L. Gadd	Name: Kenneth Eric Butter
Address: 151 Loretta Avenue	Address: 1078 Bethany Pike
Follansbee, WV 26307	Wellsburg, WV 26070

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:	West Virginia	LITANAD and Easting:	521018.893m
County:	Wetzel	UTM NAD 83 Northing:	4377842.120m
District:	Green	Public Road Access:	Eightmile Road
Quadrangle:	Porters Falls 7.5'	Generally used farm name:	William L. & Delores J. Gadd
Watershed:	Lower Fishing Creek		a second s

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

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	
Telephone:	303-357-7310		Denver, CO 80202	
Email:	mgriffith@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 <u>depprivacyofficer@wv.gov</u>.

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:

required, and	the well plat, all for proposed well work on the
State:	West Virginia
County:	Welzel
District:	Green
Quadrangle:	Porters Falls 7.5'
Watershed:	Lower Fishing Creek

UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:

521018,893m	
4377842.120m	
Eightmile Road	
William L. & Delores J. Gadd	

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.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON	
□ SURFACE OWNER	Signature:	
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:	
□ SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION CETED	
COAL OWNER OR LESSEE	Company: Office of Oil and Gas	
COAL OPERATOR	By:	
□ WATER PURVEYOR	Signature: WV Department of	
□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: 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 <u>depprivacyofficer@wv.gov</u>.

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

April 29, 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 Gadd Pad, Wetzel County Busch Unit 3H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0045 which has been issued to Antero Resources for access to the State Road for a well site located off Wetzel County Route 46 SLS MP 2.55.

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

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WV Department of Environmental Protection

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

06/18/2021

E.E.O./AFFIRMATIVE ACTION EMPLOYER

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	
Sillica, crystalline quartz	7631-86-9	
Sodium Chloride	7647-14-5	
Sodium Hydroxide	1310-73-2	
Sugar	57-50-1	
Surfactant	68439-51-0	
Suspending agent (solid)	14808-60-7	
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester	67784-80-9	
Copolymer of Maleic and Acrylic Acid	52255-49-9	
DETA phosphonate	15827-60-8	
Hexamthylene Triamine Penta	34690-00-1	
Phosphino Carboxylic acid polymer	71050-62-9	
Hexamethylene Diamine Tetra	23605-75-5	
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	
Diethylene Glycol	/ 194:	
Methenamine		of Oil and Ga
Polyethylene polyamine	<u>68603-67-8</u> <u>М</u> АУ	1 3 2021
Coco amine	61791-14-8	
2-Propyn-1-olcompound with methyloxirane	38172-91-7 WV I€€	parment of

WV Department of Environmental Protection

