

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 PEELER UNIT 1H

47-103-03409-00-00

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: PEELER UNIT 1H

Farm Name: WILLIAM L. & DELORES J. @

U.S. WELL NUMBER: 47-103-03409-00-00

Horizontal 6A New Drill Date Issued: 6/14/2021

APIN	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.

API Number:	

PERMIT CONDITIONS

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

WW-6B (04/15)

API NO. 47-103	03469
OPERATOR WELL	NO. Peeler Unit 1H
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	Resources	Corpo	rai 49450	7062	Wetzel	8	Green	Porters Falls 7.5'
			Opera	tor ID	County		District	Quadrangle
2) Operator's Well Number	·: Peeler Ur	nit 1H		Well Pa	d Name: G	add	Pad /	
3) Farm Name/Surface Own	ner: William L	& Delore	es J. Gadd p	Public Ro	ad Access:	Eigh	tmile Ro	ad
4) Elevation, current ground	d: <u>1223.8</u>	3' /	Elevation,	proposed	post-const	ructio	on: <u>~122</u>	3.8
5) Well Type (a) Gas Other	X	_ Oil		Und	lerground S	torag	e	
(b)If Gas	Shallow Horizontal	X		Deep				_
6) Existing Pad: Yes or No	Yes							
7) Proposed Target Formati Marcellus Shale: 7500' TV		` ''	-		-		` '	:
8) Proposed Total Vertical l	Depth: 750	00' TVD	1				,	
9) Formation at Total Vertice		Marcel			-			
10) Proposed Total Measure	ed Depth:	13300'	-					
11) Proposed Horizontal Le	eg Length:	4006'	<i></i>					
12) Approximate Fresh War	ter Strata De	epths:	350' <					
13) Method to Determine Fr 14) Approximate Saltwater		•)2266				
15) Approximate Coal Sean	n Depths: 6	856', 97	1'					
16) Approximate Depth to I	-			t, other):	None Anti	cipat	ed	RECEIVED Office of Oil and Gas
17) Does Proposed well loc directly overlying or adjace				es		. No	x	MAY 1 3 2021
(a) If Yes, provide Mine In	nfo: Name	»:					<u>-</u>	WV Department of Environmental Protectio
	Depth	n:						
	Seam	-						
	Owne	er:						

API NO. 47- 103 - 03409

OPERATOR WELL NO. Peeler Unit 1H

Well Pad Name: Gadd Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 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#	13300	13300	3250 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Duyan Han 5-19-21

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Talf - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners					1		

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

WW-6B	
(10/14)	

API NO. 47-103 - 03409

OPERATOR WELL NO. Peeler Unit 1H

Well Pad Name: Gadd Pad

19)	Describe 1	proposed	well w	ork.	including	the	drilling	and r	olugging	back of	of any	oilot l	hole:
	20001100	Propose	*** • ***	~,								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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

751	. Th. 1	11	11	1.		
2.3	Proposed	nore	note	COndit	ำกทาทช	procedures:

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^{*}Note: Attach additional sheets as needed.

API Number 4	7 -	103	- <u>03409</u>
Onerat	or's	We	11 No Peeler Unit 1H

Operator's Well No. Peeler U 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) Lower Fishing Creek Qua	drangle Porters Falls 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the pr	roposed well work? Yes 🔽 No 🔲
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No pit will be used at this site (0	rilling 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	#UO Describ destiller anne ideal on Form MID 24
 Underground Injection (UIC Permit Number Reuse (at API Number Future permitted well location 	
• • • • • • • • • • • • • • • • • • • •	sposal location) (Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/
Will closed loop system be used? If so, describe: Yes, fluids stored in ta	Surface - Air/Freshwater, Intermediate -
Drilling medium anticipated for this well (vertical and horizontal)? Air,	
-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, et	C. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (c	ement, 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 West Virginia solid waste facility. The notice shall be provided within 24 where it was properly disposed.	
I certify that I understand and agree to the terms and conditions on August 1, 2005, by the Office of Oil and Gas of the West Virginia De provisions of the permit are enforceable by law. Violations of any term law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examine application form and all attachments thereto and that, based on my obtaining the information, I believe that the information is true, accupenalties for submitting false information, including the possibility of fine Company Official Signature Gretchen Kohler	partment of Environmental Protection. I understand that the or condition of the general permit and/or other applicable and am familiar with the information submitted on this inquiry of those individuals immediately responsible for rate, and complete. I am aware that there are significant
Company Official Signature	MAV 1 9 2024
Company Official (Typed Name) Gretchen Kohler Company Official Title Senior Environmental & Regulatory Manager	MAY 1 3 2021
Company Official Title Genot Environmental a regulatory Manager	WV Department of
Subscribed and sworn before me this My commission expires	MEGAN GRIFFITH Notary Public NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011866
	MY COMMISSION EXPIRES MARCH 6/2021

		Operator's	s Well No. Peeler Unit 1H
Antero Resources Corporation			
roposed Revegetation Treatment: Acres Disturbed 3	4.16 acres	Prevegetation	pH
Lime 2-4 Tons/acre or to correct	ct to pH 6.5		
Fertilizer type Hay or straw or Wood Fiber (will be	be used where n	eeded)	
Fertilizer amount 500	lbs/acre		
Mulch 2-3	_Tons/acre		
Access Road "A" (6.08 acres) + CO Route 46 (0.78 acres			ckpile (10.30 acres)= 34.16 Acres
	Seed Mixt		
Temporary			manent
Seed Type lbs/acre		Seed Type	lbs/acre
Annual Ryegrass 40		rownvetch	10-15
Field Bromegrass 40		all Fescue	30
See attached Table IV-3 for additional seed type (Gadd Pad Desig	jn) Se	e attached Table IV-4A for addi	tional seed type (Gadd Pad Design)
*or type of grass seed requested by surface own	ner *o	r type of grass seed red	quested by surface owner
provided). If water from the pit will be land applied, incorreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:		ns (L x w x D) of the pit,	
Comments:			
Title: Inspector			

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

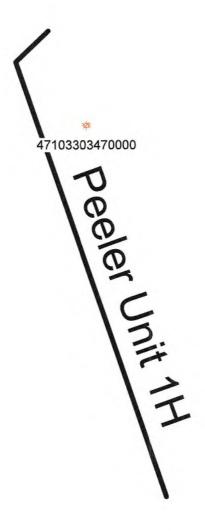
32. Mil-Lube

Drilling Fluid Lubricant

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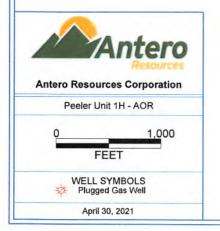
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911 Address 2946 Eight Mile Road Reader, WV 26167

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:

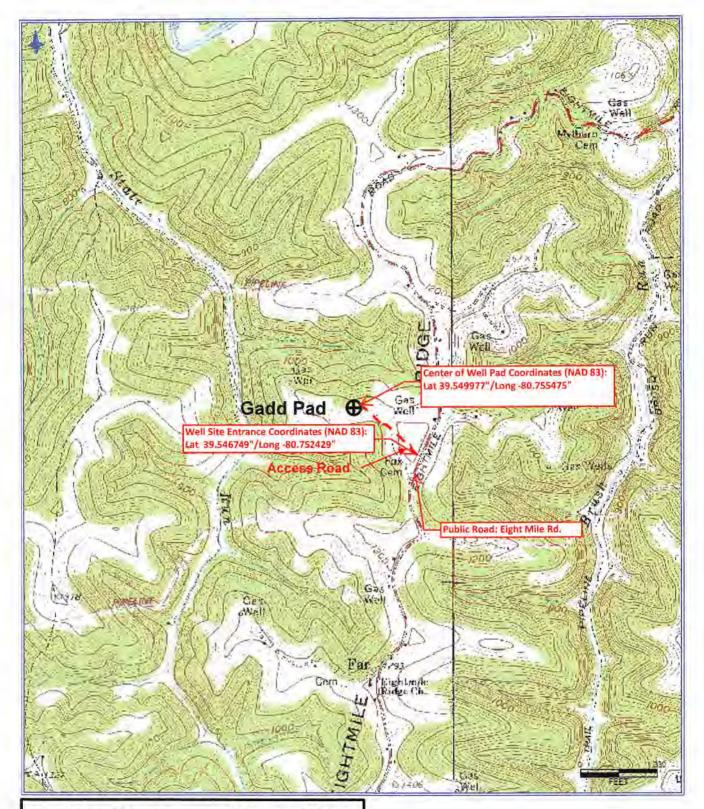
From Reader Fire Department: Head north on WV-20 N. toward Spice Lane for 0.5 miles. Turn left onto CO Rd/40/2 for 0.4 miles. Continue onto Eight Mile Road for 2.4 miles. Access road will be on your right.

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

1

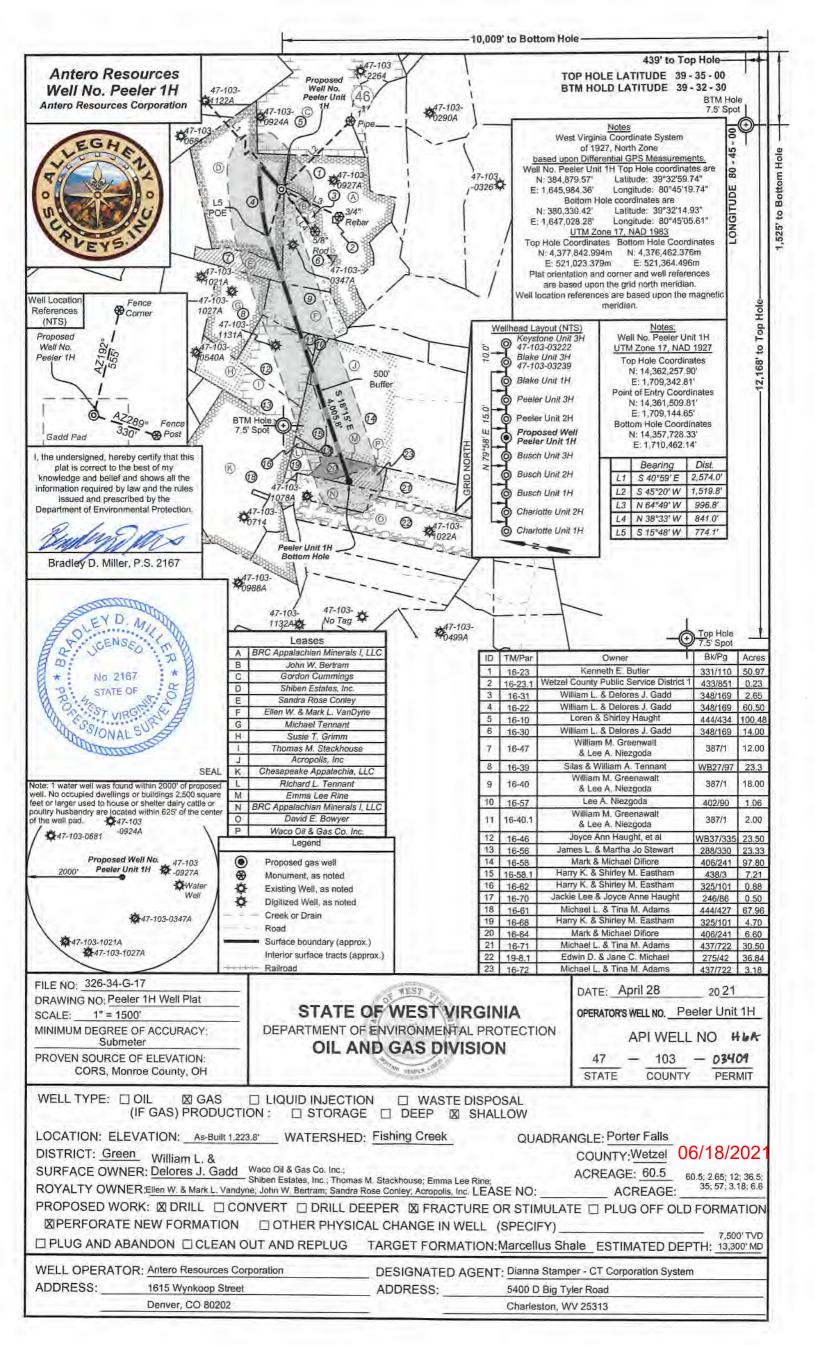


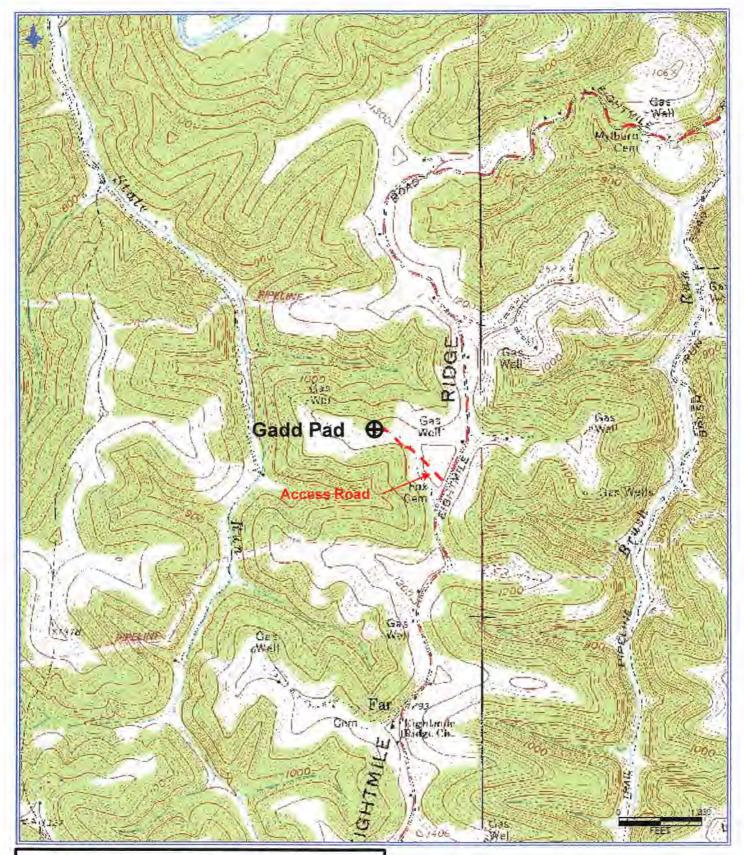
Antero Resources Corporation

Appalachian Basin GADD PAD Wetzel County

Quadrangle: Porters Falls Watershed: Fishing Creek

District: Green Date: 5-3-2021



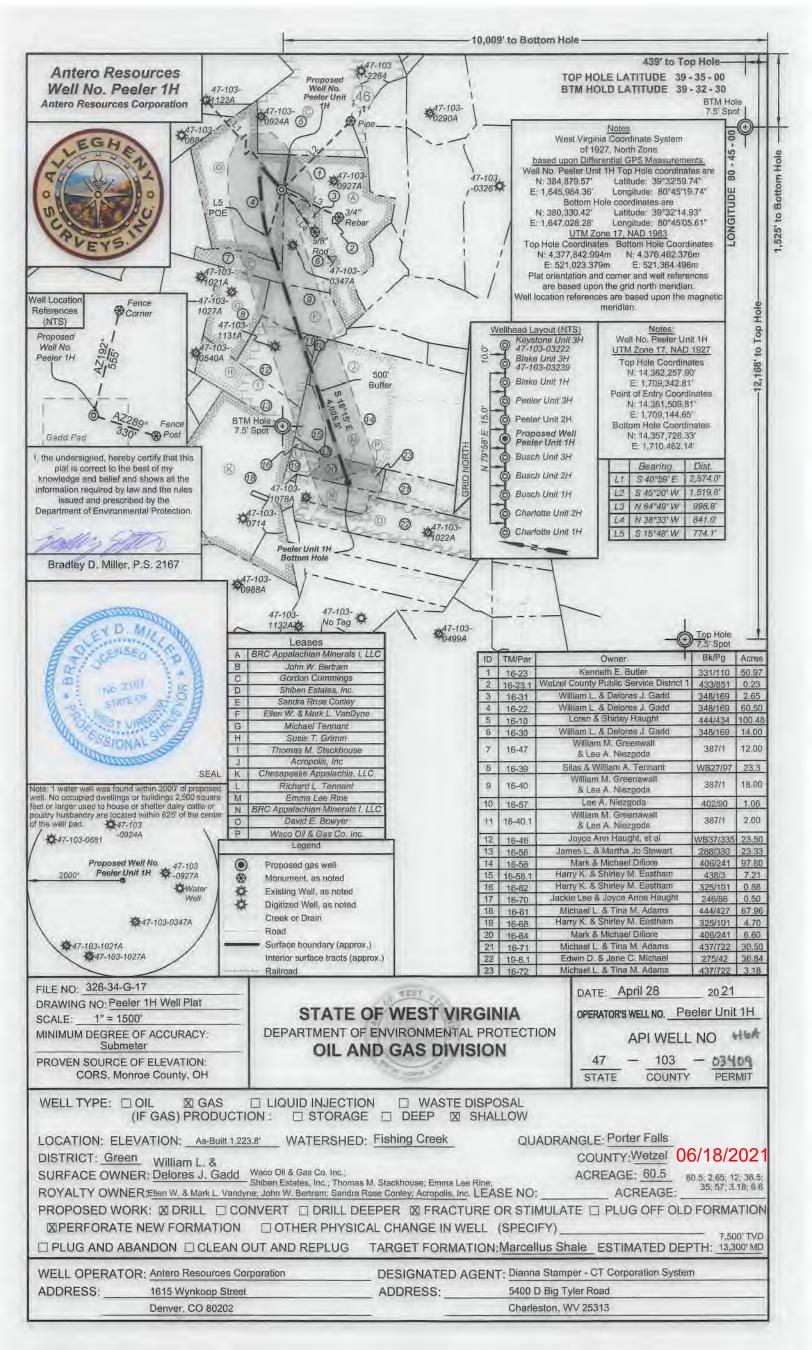


Antero Resources Corporation

Appalachian Basin GADD PAD Wetzel County

Quadrangle: Porters Falls Watershed: Fishing Creek

District: Green Date: 5-3-2021 MAY 1 3 2021



Operator's Well Number

Peeler Unit 1H

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

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

- 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
	BRC Appalachian Minerals LLC Lease			
	BRC Appalachian Minerals LLC	SWN Production Company	1/8	0157/0540
7	SWN Production Company	Antero Exchange Properties LLC	Assignment	0177/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
T	Shiben Estates Inc. Lease			
1	Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
	Sandra Rose Conley Lease			
E	Sandra Rose Conley	SWN Production Company	1/8+	0157/0540
-	SWN Production Company	Antero Exchange Properties LLC	Assignment	0177/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
4	Ellen W. & Mark VanDyne Lease			
1	Ellen W. & Mark VanDyne	Antero Resources Corporation	1/8+	0184/0660
	Thomas M. Stackhouse Lease			
1	Thomas M. Stackhouse	Antero Resources Corporation	1/8+	0186/0110
1	Acropolis Inc. Lease			
-0004	Acropolis Inc.	Antero Resources Corporation	1/8+	0179/0361
m	Emma Lee Rine Lease			
	Emma Lee Rine	Antero Resources Corporation	1/8+	0249/0738

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

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

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- 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
Waco Oil & Gas Co. Lease	A.C C C C C C C C.			
	Waco Oil & Gas Co.	Antero Resources Corporation	1/8+	0207/0724

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

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

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

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

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces or 1 3 2021 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.

| Department of | Protection | Protec

"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:	- O	
By:	Tim Rady	- Waller
Its:	VP of Land	

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

RE: Peeler Unit 1H

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 Peeler Unit 1H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Peeler Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tom Kuhn Senior Landman

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MAY 1 3 2021

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

Date of Notice Certification:	API No. 47- Operator's W Well Pad Na	Vell No. Peeler Unit 1H
Notice has been given: Pursuant to the provisions in West Virginia Code § below for the tract of land as follows:		
State: West Virginia	LITATIAN 02 Easting: 55	21023.379m
County: Wetzel	IIIMINADX3	377842.994m
District: Green		ightmile Road
Quadrangle: Porter Falls 7.5'	Generally used farm name:	/illiam L. & Delores J. Gadd
Watershed: Lower Fishing Creek		
Pursuant to West Virginia Code § 22-6A-7(b), or prescribed by the secretary, shall be verified and slit has provided the owners of the surface describinformation required by subsections (b) and (c), se of giving the surface owner notice of entry to su requirements of subsection (b), section sixteen of Virginia Code § 22-6A-11(b), the applicant shall to of this article have been completed by the applicant	nall contain the following information: (14) and in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the require pursuant to subsection (a), section tenf this article were waived in writing by the ender proof of and certify to the secretary the	A certification from the operator that (i) tion (b), section ten of this article, the irement was deemed satisfied as a result of this article six-a; or (iii) the notice surface owner; and Pursuant to West
Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the required		ification OOG OFFICE USE
*PLEASE CHECK ALL THAT APPLY		ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCTED	
\square 2. NOTICE OF ENTRY FOR PLAT SURV	EY or NO PLAT SURVEY WAS CON	IDUCTED RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED or	
	☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER
■ 4. NOTICE OF PLANNED OPERATION	RECEIVED Office of Oil and	Gas RECEIVED
■ 5. PUBLIC NOTICE	MAY 1 3 20	21 RECEIVED
■ 6. NOTICE OF APPLICATION	WV Department Environmental Prote	of RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

By:

Certification of Notice is hereby given:

THEREFORE, I Diana Hoff

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Antero Resources Corporation

Tim Rady Diana O.

Its: VP of Land

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mgriffith@anteroresources.com

NOTARY SEAL

MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666

MY COMMISSION EXPIRES MARCH 13, 2022

Subscribed and sworn before me this

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deepprivacyofficer@wv.gov.

Office of Off and Gas

WW-6A (9-13) API NO. 47-___OPERATOR WELL NO. Peeler Unit 1H
Well Pad Name: Gadd Pad

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

Notice Time Requirement: notice shall be provided no late	er than the filing date of permit application.	
Date of Notice: Date Permit Application Filed	2 2 \	
Notice of:		
Notice of:		
✓ PERMIT FOR ANY ☐ CERTIFICATE OF	APPROVAL FOR THE	
Headle Headle Telephone (1997) 그 아이에 가장 보고 있는 사람들이 보고 있는 사람들이 되었다. 그 아이들은 사람들이 되었다. 그 아이들은 사람들이 되었다.	OF AN IMPOUNDMENT OR PIT	
WELL WORK CONSTRUCTION	OF AN INIT OUNDMENT ORTH	
Delivery method pursuant to West Virginia Code § 22-6	A-10(b)	
☐ PERSONAL ☐ REGISTERED ☑ M	ETHOD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL R	ECEIPT OR SIGNATURE CONFIRMATION	
the surface of the tract on which the well is or is proposed to be oil and gas leasehold being developed by the proposed well we described in the erosion and sediment control plan submitted properator or lessee, in the event the tract of land on which the warmore coal seams; (4) The owners of record of the surface tract well work, if the surface tract is to be used for the placement, of impoundment or pit as described in section nine of this article; have a water well, spring or water supply source located within provide water for consumption by humans or domestic animals proposed well work activity is to take place. (c)(1) If more that subsection (b) of this section hold interests in the lands, the apprecords of the sheriff required to be maintained pursuant to see provision of this article to the contrary, notice to a lien holder. Code R. § 35-8-5.7.a requires, in part, that the operator shall a	ork, if the surface tract is to be used for roads or other land discursuant to subsection (c), section seven of this article; (3) The vell proposed to be drilled is located [sic] is known to be under or tracts overlying the oil and gas leasehold being developed construction, enlargement, alteration, repair, removal or abants (5) Any surface owner or water purveyor who is known to the none thousand five hundred feet of the center of the well pads; and (6) The operator of any natural gas storage field withing three tenants in common or other co-owners of interests desplicant may serve the documents required upon the person dection eight, article one, chapter eleven-a of this code. (2) Note is not notice to a landowner, unless the lien holder is the land	isturbance as ne coal owner, herlain by one or I by the proposed homment of any he applicant to I which is used to he which the hescribed in hescribed in the
water purveyor or surface owner subject to notice and water te ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan N	esting as provided in section 15 of this rule.	200
SURFACE OWNER(s) Name: William L. Gadd	COAL OWNER OR LESSEE	
Address: 151 Loretta Avenue	Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:	
Follansbee, WV 26037	Address.	
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, SPRING OR OTHER WATER SUPPLY SOURCE	REPEND
Address: 151 Loretta Avenue		Office of Childing Ga.
Follansbee, WV 26037	Name: NONE IDENTIFIED WITHIN 1500'	and Ga
Name: Kenneth Eric Butler	Address:	MAY 1 3 2021
Address: 1078 Bethany Pike Wellsburg, WV 26070	FIGURE ATON OF ANNALYTHDAY CAS STORA	OF EIE D
□ SURFACE OWNER(s) (Impoundments or Pits)	OPERATOR OF ANY NATURAL GAS STORA	
두루 등 이용하다 보는 것이다고 하게 하는 것이다. 생각이 사이를 하는 것이다.	Name:Address:	Environment of Protection
Address:	radices.	, with the little in the littl
	*Please attach additional forms if necessary	

API NO. 47-	
OPERATOR WELL NO.	Peeler Unit 1H
Well Pad Name: Gadd Pad	

Notice is hereby given:

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

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R, § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental of Columnia Garage 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.

MAY 1.9 2021

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may. in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47-____OPERATOR WELL NO. Peeler Unit 1H
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 Votice 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

MAY 1 3 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-OPERATOR WELL NO. Peeler Unit 1H 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 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.



WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. Peeler Unit 1H Well Pad Name: Gadd Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana (Email: mgriffith@anteroresources.com

Address: 1615 Wynkoop Street Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

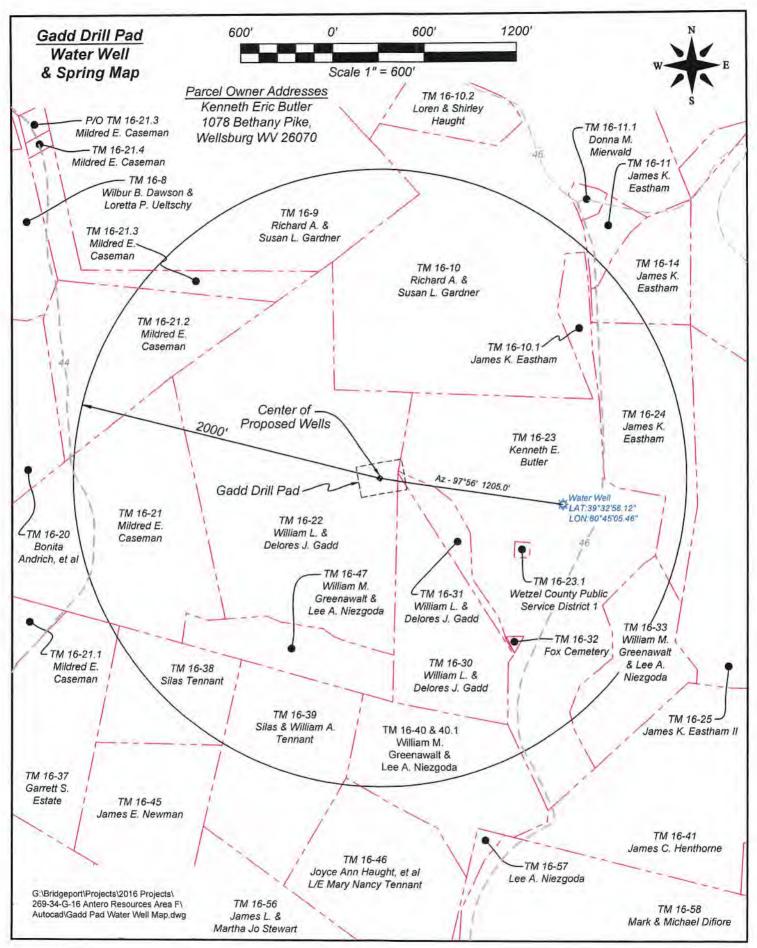
> MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666 MY COMMISSION EXPIRES MARCH 13, 2022

Subscribed and sworn before me this

My Commission Expire

RECEIVED Office of Oil and Gas

MAY 1 3 2021



WW-6A4 (1/12) Operator Well No. Peeler Unit 1H

Multiple Wells on Gadd 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		rovided at least TEN (10) days pri Date Permit Application Filed:		permit application.	
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(b)			
☐ HAND	■ CERTIFIED M	ATT			
DELIVE		EIPT REQUESTED			
Pursuant to Wreceipt reques drilling a hori of this subsection material and if availab. Notice is here Name:	V. Va. Code § 22-6A-16(b), at lested or hand delivery, give the stizontal well: <i>Provided</i> , That notion as of the date the notice was be waived in writing by the stile, facsimile number and electronal reby provided to the SURF, am L. Gadd	ast ten days prior to filing a perminarface owner notice of its intent to tice given pursuant to subsection (s provided to the surface owner: Furface owner. The notice, if requiration mail address of the operator and ACE OWNER(s): Name: Kaddress: 1	enter upon t a), section to Provided, how ed, shall inc	the surface owner's land for this article satisfies wever, That the notice required the name, address, to or's authorized representation.	or the purpose of the requirements uirements of this lephone number,
Notice is he	rehv given:				
Pursuant to W the surface ov State: County:	Vest Virginia Code § 22-6A-16(b), notice is hereby given that the illing a horizontal well on the tract UTM NAD 83 Public Road Acc	of land as for Easting: Northing:		Office of Chinand Gas
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Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operator Address: Denver, CO 8020 Telephone:	Vest Virginia Code § 22-6A-16(wner's land for the purpose of dr West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: West Virginia Code § 22-6A-1 mber and electronic mail addrestizontal drilling may be obtained 1 57th Street, SE, Charleston, WV reby given by: r: Antero Resources Corporation 1615 Wynkoop Street	UTM NAD 83 Public Road Acc Generally used fa 6(b), this notice shall include the so of the operator and the operator affrom the Secretary, at the WV I 25304 (304-926-0450) or by visit Authorized Re	of land as for Easting: Northing: ess: arm name: e name, add or's authoriz Department of iting www.d	ollows: 521023.379m 4377842.994m Eightmile Road William L. & Delores J. Gadd Wress, telephone number, ted representative. Additional Environmental Protection Environmental Environmental Protection Environmental Protection Environmental Environmental Protection Environmental Protection Environmental E	MAY 1 3 2021 WY Examination and if available, onal information on headquarters,
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operator Address: Denver, CO 8020	Vest Virginia Code § 22-6A-16(wner's land for the purpose of dr West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: West Virginia Code § 22-6A-1 mber and electronic mail addressizontal drilling may be obtained for S7th Street, SE, Charleston, WV reby given by: T: Antero Resources Corporation 1615 Wynkoop Street	UTM NAD 83 Public Road Acc Generally used fa 6(b), this notice shall include the se of the operator and the operator from the Secretary, at the WV II 25304 (304-926-0450) or by visit Authorized Re Address:	of land as for Easting: Northing: ess: arm name: e name, add or's authoriz Department of iting www.d	ollows: 521023.379m 4377842.994m Eightmile Road William L. & Delores J. Gadd Wress, telephone number, red representative. Addition of Environmental Protection of Env	MAY 1 8 2021 WAS Extraorded Protection and if available, onal information on headquarters, ges/default.aspx.

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.

WW-6A5 (1/12)

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

Notice Time Date of Notic	Requirement: notice shall be provid ee: 05/07/2021 Date Perm		ater than the filing dication Filed: 05/0		application.	
Delivery met	hod pursuant to West Virginia Cod	e § 22	-6A-16(c)			
	FIED MAIL RN RECEIPT REQUESTED		HAND DELIVERY			
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice.	V. Va. Code § 22-6A-16(c), no later requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section thorizontal well; and (3) A proposed he surface affected by oil and gas openes required by this section shall be given	surface is sub en of t surface ations wen to	e owner whose land section shall include this article to a surface e use and compens to the extent the da the surface owner a	will be used for de: (1) A copy ace owner whos ation agreement mages are com	or the drilling of a horizon of this code section; (2) we land will be used in containing an offer of pensable under article six	ntal well notice of) The information njunction with the compensation for (-b of this chapter.
	eby provided to the SURFACE OW s listed in the records of the sheriff at					
Name: William		/		Kenneth Eric Butler		
Address: 151 I		/		: 1078 Bethany Pike		
Follansbee, WV 2	26307		Wellsburg	, WV 26070		3
operation on State; County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia Wetzel Green Porter Falls 7.5'	ose of	drilling a horizonta UTM NAD 8 Public Road	I well on the tra Easting: Northing:	well operator has developed of land as follows: 521023,379m 4377842,994m Eightmile Road William L. & Delores J. Gadd	MAY 1 2 2021 WV User Start of Environment of Envir
Pursuant to V to be provide horizontal we surface affect information r	Shall Include: Vest Virginia Code § 22-6A-16(c), the d by W. Va. Code § 22-6A-10(b) tell; and (3) A proposed surface use arted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, Cault aspx.	o a su d com extent obtain	rface owner whose pensation agreement the damages are co- ed from the Secret	land will be untended to the containing arompensable under arv. at the WV	used in conjunction with a offer of compensation the der article six-b of this con- Department of Environ	the drilling of a for damages to the hapter. Additional mental Protection
Well Operato	T: Antero Resources Corporation		Address:	1615 Wynkoop Stre	ot .	
Telephone:	303-357-7310			Denver, CO 80202		
	mgriffith@anteroresources.com		Facsimile:	303-357-7315		
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 deepprivacyofficer@wv.gov.

API NO. 47-		
OPERATOR	WELL NO	. Peeler Unit 1H

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

State:	the well plat, all for proposed well work on the tra West Virginia	UTM NAD 83	Easting:	521023.379m
County:	Welzel		Northing:	4377842.994m
District:		Public Road Ac		Eightmile Road
Quadrangle:		Generally used	farm name:	William L. & Delores J. Gadd
Vatershed:	Lower Fishing Creek			Office of the a
	the box that applies	FO	R EXECUT	ION BY A NATURAL PERSON
	the box that applies CE OWNER			ION BI A NATURABLE EXSON
□ SURFAC	CE OWNER	Sig	nature:	
□ SURFAC	CE OWNER (Road and/or Other Disturbance)	Sig Pri	nature:	ION BY A NATURAL PLANTAGE PLAN
□ SURFAC	CE OWNER	Sig Pri Da	nature: nt Name: e:	ION BY A NATURABLE PA
□ SURFAC □ SURFAC	CE OWNER (Road and/or Other Disturbance)	Sig Pri Da	nature: nt Name: e: R EXECUT	ION BY A CORPORATION, ETC.
□ SURFAC □ SURFAC □ SURFAC □ COAL C	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Sig Pri Da FO Co By	nature: nt Name: e: R EXECUT npany:	ION BY A CORPORATION, ETC.
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□ SURFAC □ SURFAC □ SURFAC □ COAL C □ COAL C	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Sig Pri Da FO Co By Its:	nature: nt Name: e: R EXECUT npany:	ION BY A CORPORATION, ETC.

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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
Peeler Unit 1H Well Site

RECEIVED Office of Oil and Gas

MAY 1 3 2021

WV Decemment of Environmental Protoction

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

Cc: Megan Griffith Antero Resources

CH, OM, D-6

File

List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)	
Fresh Water	7732-18-5	1
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	1
Ammonium Persulfate	7727-54-0	1
Anionic copolymer	Proprietary	1
Anionic polymer	Proprietary	1
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	1
Cellulase enzyme	Proprietary	
Demulsifier Base	Proprietary	
Ethoxylated alcohol blend	Mixture	
Ethoxylated Nonylphenol	68412-54-4	1
Ethoxylated oleylamine	26635-93-8	j
Ethylene Glycol	107-21-1	1
Glycol Ethers	111-76-2	1
Guar gum	9000-30-0	1
Hydrogen Chloride	7647-01-0	1
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	1
Isopropyl alcohol	67-63-0	1
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	i
Microparticle	Proprietary	1
Petroleum Distillates (BTEX Below Detect)	64742-47-8	1
Polyacrylamide	57-55-6	1
Propargyl Alcohol	100.00	COEN (ED)
Propylene Glycol		ECEIVED of Oil and Gas
Quartz	14909 60 7	1
Sillica, crystalline quartz	7631-86-9	1 3 2021
Sodium Chloride	7647 14 5	
Sodium Hydroxide	VVV	epartment of rental Protection
Sugar	57-50-1	ieniai Piotection
Surfactant	68439-51-0	
Suspending agent (solid)	14808-60-7	
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	Ì
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	ł
Soybean Oil, Me ester	67784-80-9	ł
Copolymer of Maleic and Acrylic Acid	52255-49-9	ł
DETA phosphonate	15827-60-8	ł
Hexamthylene Triamine Penta	34690-00-1	
Phosphino Carboxylic acid polymer		
Hexamethylene Diamine Tetra	71050-62-9 23605-75-5	
2-Propenoic acid, polymer with 2 propenamide		
Hexamethylene diamine penta (methylene phosphonic acid)	9003-06-9 23605-74-5	
Diethylene Glycol		
Methenamine	111-46-6	
Polyethylene polyamine	100-97-0	
Coco amine	68603-67-8	
2-Propyn-1-olcompound with methyloxirane	61791-14-8	
2-1 Topyn-1-olcompound with methyloxifane	38172-91-7	

LOCATION COORDINATES; ACCISS BOAD "A" ENTERNEE LATTIUDE: 35-867474 LONGITUDE -80.752429 (NAD 83) LATTIUDE: 35-86871 LONGITUDE -89.752807 (NAD 87) N 4377482.09 E 331278.69 (UM 2008 IT MITTER)

CENTER OF TANK
LATITUDE: 39.550038 LONGITUDE: -80.756107 (RAD 83)
LATITUDE: 19.548656 LONGITUDE: -80.756284 (RAD 27)
N 4877845.96 E 580964.63 (UTM ZONE 17 METERS)

CENTROID OF PAD
LATTIDE: 39.54997 LONGITUDE: -90.755475 (NAD 83)
LATTIDE: 39.54997 LONGITUDE: -90.755832 (NAD 37)
N 4377830.59 E 62103.94 (UTM ZONE 17 METERS)

CENERAL DESCRIPTION:
THE ACCESS ROADED, WATER CONTAINMENT PAR, AND WELL PAR HAVE EREN CONSTRUCTED TO AND IN
THE DETAILDMENT OF INIVIDIDAL MARCHILIS SHALE CAS WELLS.

APPROVED

MODIFICATION

WVDEP DOG

7 / 10 / 2019

FLOODPLAIN NOTES:
THE SITE IS LOCATED IN FLOOD ZONES 'X' PER FEMA MAP NUMBER (54108CQ176C

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION HAS OBTAINED AN ENCROACHMENT PERMIT (FORM MIN-108) FROM THE WEST VIRGINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF

ENVIRONMENTAL NOTES:
SITEMA AND WELLAND DELDELATIONS WHERE PERFORMED BETWEEN AUGUST 5, 2017 AS AUGUST 11, 2017
STATEMA AND WELLAND DELDELATIONS WHERE PERFORMED BETWEEN AUGUST 5, 2017 AS AUGUST 11, 2017
STATEMA AND WELLAND SHADLANDARY OF REVIEW THE SITE FOR WATERS AND WELLANDS THAT ARE
MOST LIKELY WITHIN THE RECULATORY PERFORMED OF THE U.S. ARMY CORPS OF ESCINEDIS (USACE).
AND/OR THE WEST VERGINAL DEPERMENT OF PERFORMED PROTECTION (WEMPE). THE SETTEMBRE 25.
2017 WETLAND DELPERATION AND STRAND HIDDELS THE RESULTS OF THE FEELD SERVICEATION AND STRAND BEDIEVED THE SETLED OF THE FEELD SERVICEATION. THE MAP
DOES NOT, ON ANY MAY, ALPRESENT A THREDICTIONAL DEPERMENTION OF THE LANDWARD LIMITS OF
WATERS AND BELLANDS WHERE MAY BE REGULATED AT THE VAGAGE OR THE WEARD LIMITS OF

CEOTECHNICAL NOTES:
A SUBBURIACE ENVESTIGATION OF THE SITE WAS PERFORMED BY PERMISTIMANA SOIL & ROCK. INC.
BEFFERED RECEMBER 12 & DECEMBER 22, 2017. THE REPORT PREPARED BY PERMISTIMANA SOIL &
SOCK, INC. DATED JANUARY 22, 2018. REFLICTS THE RESULTS OF THE SUBSURFACE INVESTIGATION.
THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS RESPORT WERE INSENTIMATED IN THE STRONG THE STEP IN THE PREPARE IN THE STRONG THE S

JIM WILSON - LAND AGENT OFFICE (384) 842-8419 CELL: (384) 671-2708

ENGINEER/SURVEYOR-NAVIUS ENGINEERING, INC. CYRLS S. KUMP, PE - PROJECT MANAGER/ENGINEER DFFICE: (BM) 462-4165 CELL: [640] 1881-6747

ENVIRONMENTAL:
SWCA ERVIRONMENTAL CONSULTANTS, INC.
IWAN 4. MALDONARO - ENVIRONMENTAL SPECIALIST
OFFICE (412) 039-1001 CELL: (570) 779-5780

GEOTECHNICAL
FENNSYLVANIA SOIL & BOCK, INC
CRISTOFIER W SAMIOS - PROJECT REGINERR
OFFICE (412) 372-4000 CBLL (412) 598-0852

PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES COMPORATION 555 WHITE OARS BLVD BENGEFORT, WY 28330 PRONE (304) 948-4100 FAX: (206) 042-4108

ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE (304) 842-4088 CELL (304) 476-9770

ION MAEVERS - OPERATIONS SUPERINTENDENT OFFICE: (303) 357-6799 CELL: (303) 808-2423

AARON KUNZLER - CONSTRUCTION SUPERVISOR CELL: (401) 227-5344

ROBEST B. WIRKS - FIELD ENGINEER OFFICE (304) 842-4100 CELL (304) 827-7405 NOTES:

INCLUDING MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIBRY OF DISTURBANCE ARE COMPLETE AND PRIMARIANTE STANDIZED, MANIFEMANCE WEST RECLIBED OF ALL ROSSION AND ASSESSMENT CONTROLS AFTER EACH BUNGET EVENT IN EXCESS OF OS AND ON A BITERIORY ASSESSMENT CONTROLS AFTER EACH BUNGET EVENT IN EXCESS OF OS AND ON A BITERIORY ASSESSMENT.

- OS AND UN A DIRECTION STEE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION.
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 ERCHINGT THAN CRODE, FINAL STABILIZATION MUST BE DITTITUTE FOR LATER THAN 7 DAYS AFTER
 ERCHINGT THAN CRODE, FINAL STABILIZATION MADES THAT ALL SOOL DISTURBERS OF ACTIVITIES ARE
 COMPLETED. AND THAT STHERE A PERSANDATI VERETATIVE COVER WITH A DESIGNED OF THE STREAM OF THE STABLIZED BY HADD COVER.
 ERCHATER ARE BURG STRABLEFED ON THAT THE SUPPLIES OF THE STREAM OF THAT THE
 TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE STR.
- 3. ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WIDER
- ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND PERMANSINTLY SEXDED.
- THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURRED AREA AS OF NOVEMBER 18, 2016. MANTUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHARGES HARE TO THE STITE ATTE. THE ABOVE MENTIONED DATES.
- THE EXISTING CONTAINMENT BERN AROUND THE WELL PAB SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FUJIOS PRIOR TO DRILLING OPERATIONS
- THE EXISTING ECRESSES TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DEBLING OPERATIONS.

REPRODUCTION NOTE

THESE PLANS WERE CREATED TO BE PLOTTED ON 22 224" (ANSI D)
PAPER HALF SCALE BRANNESS ARE ON 1/20" (ANSI D) EAPER

GADD WELL PAD & WATER CONTAINMENT PAD

AS-BUILT AND EROSION & SEDIMENT CONTROL IMPROVEMENT PLAN

GREEN DISTRICT, WETZEL COUNTY, WEST VIRGINIA LOWER FISHING CREEK & UPPER FISHING CREEK WATERSHED

USGS 7.5 PORTERS FALLS & PINE GROVE QUAD MAP



WEST VIRGINIA COUNTY MAP



THOY TO SCALEY

AS BUILT CENTIFICATIONS:
HE BRANDES CONSTRUCTION NOTES AND REPERBUCE
THE BRANDES CONSTRUCTION NOTES AND REPERBUCE
HE BRANDES CONSTRUCTION NOTES AND REPERBUCE
ACCOMMENCE WITH THE WEST VIRGINA COLE OF STATE
RULES, DIVISION OF SENTENBERTAL PROTECTION, OFFICE
OF OIL AND GAS CIS 33-5-0

WVDOH COUNTY ROAD MAP

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

SHEET INDEX

- 1 COVER SHEET
- S FEGEND
- " OVERALL PLAN SHEET INDEX
- 4 ACCESS ROAD AS-BUILT PLAN
- 5 ADCESS ROAD & WELL PAD AS-BUILT PLAN
- S WELL PAR & STREWPILE AS-RUILT PLAN
- 7 ACCESS ROAD AS-BUILT PROFILES
- B WELL PAD AS-BUILT SECTIONS 9-10 - STOCKPHY AREA AS-RUHLT SECTIONS
- 11-12 CONSTRUCTION DETAILS

GADD LIMITS OF DISTU	RBANCE		-
Total Site		ModRed	Total
Access Road "A" (1,275')	6.08	0.00	8.08
Co Rt 46 Hump Oct	0.78	0,00	0.78
Well Pad	16.79	0.21	17.00
Excess/Topsoil Material Stockpiles	10,30	0.00	10,30
Total Affected Area	33,95	0.21	34,16
Total Wooded Acres Disturbed	26.19	0.17	26.36
impacts to Co	Rt 46 R	W	
Access Road "A" (4")	0.04	0.00	0.04
Co, Rt. 46 Bump Out	0.06	0.00	0.06
Total Affected Area	0.10	0.00	0.10
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Kanneth Eric Butler	& Kennet	E. Buller TV	116-23
Access Road "A"	1.22	0.00	1.22
Co. Rt. 46 Bump Out	0.72	0.00	0.72
Well Pad	3.32	0.00	3.32
Excess/Topsoil Material Stockpiles	3.27	0.00	3.27
Total Affected Area	8.63	0.00	8.53
Total Wooded Acres Disturbed	5.71	0.00	5.71
Impacts to William L. & Dr	tores J. C	add TM 18-30	
Access Road "A" (683")	3.23	0.00	3.23
Well Pad	1.28	0.00	1.28
Total Affected Area	4.61	9.00	4.51
Total Wooded Acres Disturbed	3.99	0.00	3.99
Impacts to William L. & Di	dores J. C	add TM 15-31	1 2
Access Road "A" (588")	1.59	0.00	1.59
Well Part	0.50	0.00	0.50
Excass/Topsoll Material Stockpiles	0.16	0.00	0.16
Total Affected Area	2.25	0.00	2.25
Total Wooded Acres Disturbed	-1.71	0.00	1.71
Impacts to William L. & De	lores J. C	add TM 16-21	2
Well Pad	11.69	0.21	11.90
Excess/Topsoil Material Stockpiles	6.87	0.00	6,87
Total Affected Area	18.56	0.21	18.77
Total Wooded Acres Disturbed	14.78	0.17	16.94

Proposed VWII Name	NAG 27	NAD 83	Zone 17	NAD 83 Lat & Long
Matchina	N 384959 70	N 384905.51	N 4377858 90	LAT 39-32-59 9004
Unitali	E 1645771 69	E 1514331.24	E 520958 64	LONG-10-15-21 8185
Maschines	N 384570.15	N 384905.96	N 4377829 to	LAT 39-32-59 9002
Unit 214	E 1545781.68	E 1014341.23	E 520961 68	LONG -85-45-21 5914
Charlotte	N 364570.60	N 384905.45	N 4377839.28	LAT 39-32-59-9121
Unit 1H	E 1845/pt Br	E 1814351 22	E 520964.72	LDNG-45-21 5639
Charlotte	N 384671 D4	N 384906.65	N 4377839.47	EAT 70-32-50 0178
Unit 2H	E 1545801.95	E 1614361 21	E 520967 76	LONG 80-45-21-4065
Busch	N 364571-49	N 38490T 30	N 4377839.05	LAT 39-32-54 9237
Unit tH	E 1645811.65	E 1014371.20	E 520970 80	LONG -8545-21.3090
Busch	N 384871.04	N-384907.75	N 4277639.64	LAT 39-32-59 9295
Unit 254	E 1645921.64	€ 1014301.19	E 520973 64	LONG -80-45-21, 1916
Peeler	N 384872.69	N 334908 41	N 4377849 67	LAT 39-37-59-9580
Unit 1H	€ 1045944 97	E 1814504.52	E 521011.41	LONG -10-45-19-6073
Powler	N.384874.34	N 384910.15	N 4377841 25	LAT 39-32-59 0716
Unit 214	E 1545054 82	E 1614514 36	E 521014 41	LCNG-60-45-10-4819
Peeler	N 384876.09	N.384911.89	N 4377841.83	LAT 39-32-59 9902
Unit 3H	E 1545954 00	E 1614534 21	E 521017.40	LONG 4045-18 2505
Blake	N 384577.82	N 384P13-64	N 4377642 43	LAT 39-33-00 0000
Unit 1H	E 1545974.81	E 1014534.36	£ 521620 39	LONG-80-45-19-2011
Keystone West	N 384879 57	N 384915 3E	N 4377842.99	LAT 39-33-60 0274
Unit 1H	E 1545984 36	E 1814543.90	E 521023 36	LONG -80-45-19, 1057
Blake	N 384881.31	N 384917.13	N 4377843.57.	TAT 39-33-00 0460
Unit 2H	E 1645664 20	E 1814851.7h	E 821028 57	CONG-80-45-18 9803
Keyston- What	N 384883 05	N 284918.87	N 4377844 15	LAT 39-33-00 0946
Unit 2H	E 1649004 05	E 1814563.60	E 821029-30	LONG-10-45-18 8550
Eltake	N 384890.03	N 354925.85	N 4377846,48	LAT 35-33-00 1300
Unit 3H	E 1946043 44	E 1814802.98	E 521041 32	LONG -80-45-1E 3534
Kaystone	N 384891.77	N 384927-58	N 43T7847.05	LAT 39-33-00.1975
Unit 3H	E 1545050.27	E 1814812 82	E 321044-31	LONG 40-45-18.2782
All Fad Elevation	1,224.0			

GA	DD EPHEN	ERAL STREAM	MPACT (LINEAR F	EET)	
	Permia	nent impacts	Temp. Impacts	Temp. Disturb.	Total Impact
Stream and Impact Cause		Inlets/Outlets Structures (LF)	Controls (LF)	Distance to LOD. (LF)	(LF)
S9 (Woll Pad)	94	0	62	19	156
S10 (Well Pad)	0	0	24	9	24
S17 (Well Pad)	89	0	10	- 0	109

S ENGIN

	N	П	T
NO	REVISED PER LOD MODIFICATION		
REVISION	100	Ш	١
RE	PER		
	REVISED		
DATE	6/22/2018		



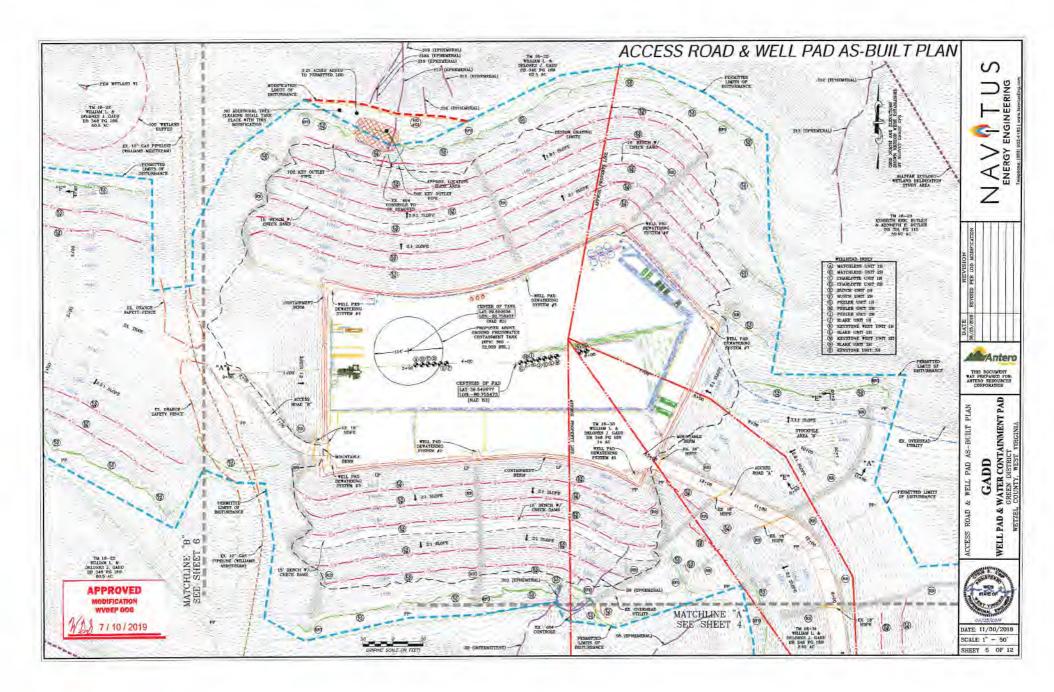
THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

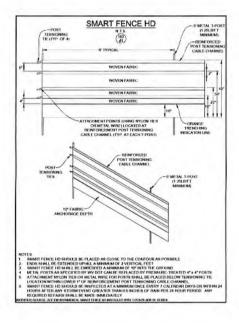
WATER CONTAINMENT PAD GADD

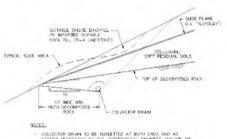
8

WELL PAD

DATE: 11/30/2018 SCALE: AS SHOWN SHEET 1 OF 12

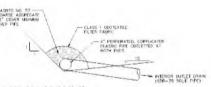






COLLECTOR DRAIN TO BE DUTLETTED AT BOTH ENDS AND AS DETWED NECESSARY BY THE GEOTECHNICAL ENGINEER AND/OR AN EXPERIENCED SOL TECHNICIAN/DISPECTOR.





"AUTHERS AT EACH END OF THOSE AREA
*ADDITIONAL INSTRUCT PRAINS TO BE INSTALLED WHOSE DEEMED INCRESSARY
*ALL DUTLET ERAINS TO BE COURTD WITH 12" MINMUM NO. 97 ACCORDANCE
AND WRAPPED IN HOM-MONEY PLITTER FARMS

COLLECTOR DRAIN DETAIL NOT TO SCALE

S ENGINEERING



THIS DOCUMENT WAS PREPARED FOR: ANTERO RESOURCES CORPORATION

CONSTRUSTION DETAILS

WELL PAD & WATER CONTAINMENT PAD GADD



DATE: 11/30/2018 SCALE: AS SHOWN SHEET 11 OF 12

GADD WELL PAD & WATER CONTAINMENT PAD

APPROVED

CENTER OF TANK
LATITUDE: 29.550320 LONGITUDE: -80.754914 (NAD 83)
N 437767778 E 521057.04 (NTM ZONE 17 METERS) WVDEP OOG CENTROID OF PAB LATITUDE: 29.549963 LONGITUDE: -80.755803 (NAD 83) N 4377840.22 E 520907.86 (NTM ZONE 17 METERS) 2/27/2016

GENERAL DESCRIPTION:

LOCATION COORDINATES:
ACCESS ROAD 'A' ENTRANCE
LATITUDE: 39.546749 LORGITUDE: -B0.752429 (NAB BO)
N 4377482.66 E 581271.66 (UTM ZONE 17 METERS)

OBJECTION TOWN

DIE ACCESS ROAD(S). WATER CONTAINMENT PAD, AND WELL PAD ARE BEING CONSTRUCTED TO AID IN

DIE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

THE PROPOSED SITE IS LOCATED IN FLOOD ZONES 'X' PER FEMA MAP NUMBERS #5410920175C

MISS LITELITY STATEMENT:

WILL SOURCE ASSOCIATION WILL ROUPT MISS UTILITY OF WEST VIRGINIA FOR THE LOCALING OF UTILITIES FROM TO THIS PROJECT ORDINO. IN ADDITION MISS UTILITY WILL HE CONTACTED BY THE CONTRACTOR PROJE TO THE STATE OF CONSTRUCTION FOR THIS PROJECT.

ANTERO RESOURCES CORPORATION WILL OBTAIN AN EXCROACHMENT PERMIT (FORM MM-108) FROM THE MEST VIRGINIA BEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, FROM TO COMMERCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:
STREAM AND WITLAND BELDEATIONS WERE PERFORMED DETWIEN AUGUST 5, 2017 & AUGUST 11, 2017
STREAM AND WITLAND BELDEATIONS WERE PERFORMED DETWIEN AUGUST 5, 2017 & AUGUST 11, 2017
BY SEAR ENVIRONMENTAL CONSULTANTS, 20 SEWEM THE SITE FOR WATERS AND WETLAYDS THAT ARE
MOST LIKEAY WITHIN THE REGULATORY PUPPING OF THE U.S. ARMY CORPS OF ENCINCERS (BEACE)
2017 WETLAND BELDEATION AND STREAM DEMINISCRIPS REPORT WAS PREFAIRED BY SWED
2017 WETLAND BELDEATION AND STREAM DEMINISCRIPS REPORT WAS PREFAIRED BY SWED
DOES NOT. IN ANY WAS, EMPERSENT A JURISDICTIONAL BETEAMENROM OF THE ALMORAND LIMITS OF
WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USAGE OF THE WYDER. IT IS STRONGLY
CONTINUATION OF THE DEMINISCRIPS OF STREAMS TO IN AN EXPENSE TO CAN WE WENT
CONTINUATION OF THE DEMINISTRAND WAY OF THE STRONGLY
PERSONAL AND ONE STATE REQULATION SHOWN OF THIS EDITION TO SHOWING CONTRACTION OF THE
PERSONAL AND, ONE STATE REQULATION AND STREAM CROSSINGS.

GEOTECHNICAL NOTES.
A SIRRIBRAGE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNETYMANA SOIL &
SCIENCE, INC. BIFTERS DECEMBER 12 & DECEMBER 22, 2017. THE REPORT PREPARED TO
SERVICE AND ADMINISTRATION OF THE PROPOSED OF THE
SUBSULFACE INVESTIGATION. THE REPORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORM
WREE USED ON THE PERFORMENT OF THESE PLANS. PLACES REFER TO THE SUBSULFFACE
INVESTIGATION REPORT BY PENNSYLVARIA SOIL & ROCK, INC. FOR ADDITIONAL DIFFORMATION, AS
RELEDED.

PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHITE GAKS BLVD. BRIDGEPORT. WV 26330

ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE: (304) 842-4088 CELL: (304) 478-9770

JON MEEVERS — OPERATIONS SUPERINTENDENT OFFICE. (303) 357-8799 CELL: (303) 808-2423

AARON KUNZLER - CONSTRUCTION SUPERVISOR CELL: (405) 227-8344

ROBERT B. WIRKS - FIELD ENGINEER OFFICE: (304) 842-4100 CHIL: (304) 827-7405

CHARLES E. COMPTON, III - SURVEYING COORDINATOR CELL: (304) 719-6449

TH WILSON - LAND AGENT DFFICE: (304) 642-4419 CELL (304) 673-2706

ENGINEER/SURVEYOR.
NAVIUS ENGINEERDOG, DMC.
CYBUS S. KUMP. PE - PROJECT MANAGER/ENGINEES
OFFICE: (888) 682-4035 CELL: (540) 688-5747

ENVIRONMENTAL:
5803 ENVIRONMENTAL:
5803 ENVIRONMENTAL:
5804 ENVIRONMENTAL:
5905 THE 5766
5766 (418) 838-1001 CELL: (570) 776-5766

GEOTECHNICAL:
PENNSYIVASIA SOIL & ROCK, INC.
CHRISTOPHER * SAMIOS - PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 580-0662

RESTRICTIONS NOTES:

1. THERE ARE NO PERENNAL STREAMS, VEILANDS, LAKES, PONDS, OR RESERVOIRS WITHIN 160 FEET OF THE WELL PAD AND LED.

- 2 THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL
- THERE ARE NO CROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 YEST OF THE WELL, PAD AND LOD. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 SEET OF THE WELL(S) BEING ORBIGED.
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FERT OF THE CENTER OF THE WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAR

REPRODUCTION NOTE

THESE PLANS WE BE CHEATED TO DE PLOTTED ON SPINS OF LASS DE PARTY HALF SPALE DEARINGS ARE USE 1/7/17 (ANSE B) PARTY

THESE PLANS WERE CHEATED FOR COLOR PLOTTING AND ANY MUDOCTURE D. GRAY STALZ OR COLOR WAY RESULT IN A LOSS BUSINESS AND MUNICIPAL PURPOS ON THE CONSTRUCTION PURPOS

SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

GREEN DISTRICT, WETZEL COUNTY, WEST VIRGINIA LOWER FISHING CREEK & UPPER FISHING CREEK WATERSHED

USGS 7.5 PORTERS FALLS & PINE GROVE QUAD MAP



WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

DESIGN CERTIFICATION:
THE BRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERBTO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF BENTHENMENDATAL PROTECTION, OFFICE OF OIL AND GAS CES 105-6

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!

WVDOH COUNTY ROAD MAP

SUTION AND EAS CONTROL NOTES DIAL QUANTITIES
DRAINAGE & ERS COMPUTATIONS STORM DIABAGE & PAS COMPUTATIONS
DESIRING COMPUTATIONS
DESIRING COMPUTATIONS
DESIRING COMPUTATIONS
DISTRIBUTIONS
DESIRING COMPUTATIONS
DESIRING COMPUTATIO

GADD LIMITS OF DISTURBANCE AR	EA (AC)
Total Site	
Access Road "A" (1,275')	5.46
Co. Rt. 45 Bump Out	0.78
Well Pad	16.79
Excess/Topsoil Material Stockpiles	10.30
Total Affected Area	33.33
Total Wooded Arres Disturbed	26.11
Immacté to Co. Rt. 46 R/W	
Access Road "A" (4")	0.04
Co. Rt. 46 Burno Out	0.08
Total Affected Area	0.10
Total Wooded Arres Disturbed	0.00
Impacts to Kenneth Eric Butler & Kenneth E.	Butler TM 16-23
Access Road "A"	0.60
Co. Rt. 46 Bump Out	072
Well Pad	3.32
Excess/Topsoil Material Stockniles	3 27
Total Affected Area	7.91
Total Wooded Arres Distarted	5.63
impacts to William L. & Delores J. Gadd	TM 16-38
Access Road *A* (6831)	3.23
Weil Pad	128
Total Affected Area	4.51
Total Wooded Acres Disturbed	3.99
Impacts to William L. & Delores J. Gadd	
Access Road "A" (588')	1.59
Well Pad	0.50
Excess/Topsoil Material Stockpiles	0.16
Total Affected Area	2.25
Total Wooded Acres Disturbed	171
Impacts to William L. & Defores J. Badd	
Well Pad	11.69
Excess/Topsoil Material Stockpiles	6.87
Total Affected Area	18,56
Total Wooded Acres Distribed	14.78

Proposed Well Name	WW North	WWWorth NAD 83	UTM (METERS) Zone (7:	NAD BS Let A Long
Marchines	N 384857.35	N 384903,17	N 4397838.02	LAT 39-32-86-8072
Unit 1H	E 1645915 43	E 1814474.98	E 521002 44	LCNG-80-45-19 9855
Matchiess	N:384859.10	N 384904.92	N 4377839.00	LAT 39:32 69.9156
Unit 2H	1 1646975.38	E 1614464 82	£ 521005 40	LONG-40-45-19-8561
Chariotte	N 354875 55	N 384005,68	N 4377840.00	LAT 18-32-50.0344
Unit 1H	E 1645935 12	E 1514494.67	E 521008 42	LCWG-60-45-19.7827
Charlotte	N 394872 59	FI 384908.40	N 4377840 67	LAT 18-32-59 5530
Unit 2H	E 1849944 97	E 1814504742	E 521011-41	LONG-80-45-10-8073
Busch	N 284874-34	N 39191E.15	714377M125	LAT SHIST-SQUEZZO
Unit 1H	E 1845054 R2	E 1814514.36	E 321014.41	LONG-80-45-19 er 19
Busch	N 384878 08	N-384911,89	N 4377841.83	LAT 39-30-59 9902
UNICH	E 1845984.86	E 1614524.21	E 521017.40	LCNG-80-45-19:3565
Papier	N-384877.52	N 384913.54	N 4377842.41	LAT 39-33-00 0098
Unit 1H	E 1643674.51	E 1014534.05	E \$2,1000 29	LCNG-80-45-19-2311
Péeler	N 384872 57	N 354915.38	N 4377842 99	LAT 39-33-00 0274
Unit 214	E 1645054-36	1 181454330	E 621003.36	LONG-40-45-19 1057
Pealer	N 384881 31	N 384917.12	H 4377843.57	LAT 39-33-20 0460
Ht fint	E 1845994.20	E 1814565.75	E 521025.37	LCN/3-80-45-18.0603
Blake	N NUMBER OF	N 384918 57	74 43778A& 10	LAT 39-35-00,0146
Unit th	E 18450014 05	E 1614585 50	E 521029.38	C0403 -80-45-18 8550
Keystone West	N 384884.00	N 384020 61	N 4377844.74	LAT 20-23-00 09:00
Unit 1H	E 1646013.90	E 1514573.44	E 521032.35	LONG-80-45-18 7296
Blake	N 554695 54	N 384922 No	N 4377845.32	LAT 39433-00, 1018
Unit 2H	E 1846023 74	E 1614583.29	E 521005.34	LONG-90-45-19 6042
Keystone West	N 364583 29	N 384924.10	N 4377845.90	LAT 39-33-00, 1204
Unit 2H	E 1616033.59	E 1614563.14	E 521038 33	LONG 60-45-18-4768
Blake	N SEASON OF	N.384925.85	N 4377M6.45	LAT 26-33-00, 1390
Unit 3H	E 1545043 44	E 1814802 98	E 521641 32	LONG-40-45-18 35M
Kegatone	N 354891 77	N 384027 59	N 4377847.08	LAT 39-35-00 1575
Unitar	E 1545053 27	E #81481282	E 9210A1 31	LONG -60-45-19.2282
Well Pad Elevation	1.722.0			

	Perma	nent Impacts	Temp. Impacts	Temp. Disturb.	Total impact
Stream and Impact Cause		Inlets/Outlets Structures (LF)	Cofferdam/ EA5 Controls (LF)	Distance to L.O.D. (LF)	(LF)
S9 (Well Pad)	94	0	62	19	156
S10 (Well Pad)	0	- 0	24	9	24
S17 (Well Pad)	20	0	28	9	48

S ENGINEER

7	ONFIGURATION	GURATION	& CENTECH	REVISED PER TYDEP COMMENTS	Ì	
/ISION		SYSED WELL CONFICURA	WHO TO	WYDEP		
REV	WELL	WELL	PER S	PER		
	REVISED	RSVBED	REVISED PER STORM	REVISED		
DATE	721/2017	7102/85	8108/62	8/53/5008		



PAD

GADD
ATER CONTAINMENT P.
REEN DISTRICT PAD



DATE: 12/06/2017 SCALE AS SHOWN SHEET 1 OF 35

