

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

Permit approval for PEELER UNIT 3H Re:

47-103-03411-00-00

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.

Operator's Well Number: PEELER UNIT 3H

Farm Name: WILLIAM L. & DELORES J. G

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-103-03411-00-00

Date Issued: 6/14/2021

API Number:	
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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.

COND	ITIO	NS
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- 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.

WW-6B (04/15)

API NO. 47- 103		
OPERATOR W	ELL NO. P	eeler Unit 3H
Well Pad Nan	Gadd Pa	d

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

1) Well Operator:	Antero Resou	rces Corpor	494507062	Wetzel /	Green	Porters Falls 7.5'
• • • • • • • • • • • • • • • • • • •		_	Operator ID	County	District	Quadrangle
2) Operator's Well l	Number: Peel	er Unit 3H	Well P	ad Name: Gad	d Pad	
3) Farm Name/Surfa	ace Owner: W	Iliam L. & Delores	J. Gadd Public R	oad Access: Ei	ghtmile Roa	ad
4) Elevation, curren	t ground: 12	223.8' E	levation, propose	d post-construc	tion: <u>~122</u>	3.8
5) Well Type (a) Oth		Oil	Un	derground Stor	age	
(b)I	f Gas Shallo	ow X	Deep			_
	Horiz	ontal X				
6) Existing Pad: Yes	s or No Yes					
7) Proposed Target Marcellus Shale: 7			-	-		
8) Proposed Total V	ertical Depth:	7500' TVD				
9) Formation at Tota	al Vertical Dep	oth: Marcellu	S			
10) Proposed Total	Measured Dep	th: 14900'				
11) Proposed Horizo	ontal Leg Leng	gth: 4913'				
12) Approximate Fr	esh Water Stra	ta Depths:	350'			
13) Method to Deter	rmine Fresh W	ater Depths:	47-095-02266			
14) Approximate Sa	ltwater Depths	s: <u>1887', 1917</u>	7'			
15) Approximate Co	oal Seam Dept	hs: <u>656', 971</u> '				
16) Approximate De	epth to Possibl	e Void (coal m	ine, karst, other):	None Anticip	ated	
17) Does Proposed virectly overlying or			ms Yes	N	o X	RECEIVED
					·	Office of Oil and Gas
(a) If Yes, provide		Name:				MAY 1 3 2021
		Depth:				
	;	Seam:				WV Department of Environmental Protection
		Owner:				

API NO. 47-103 - 63411

OPERATOR WELL NO. Peeler Unit 3H 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			1				
Production	5-1/2"	New	P-110	23#	14900	14900	3690 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Bujan Hami 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				1 - 1			
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tall - 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	

WW-6B
(10/14)

API NO. 47-103 - 03411
OPERATOR WELL NO. Peeler Unit 3H
Well Pad Name: Gadd Pad

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

25) Proposed borehole conditioning procedures:

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*Note: Attach additional sheets as needed.

WW-9 (4/16)

ŀΡΙ	Number	47	-	103	
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Operator's Well No. Peeler Unit 3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_ Antero Resources Corporation OP Cod	de 494507062
Watershed (HUC 10) Lower Fishing Creek Quadrangle Porters Fa	alls 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work	? Yes 7 No 1
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:	e stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what	ml.?N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number *UIC Permit #will b	
Reuse (at API Number_Future permitted well locations when applicable. API Off Site Disposal (Supply form WW-9 for disposal location) (M	
	orthwestern Landfill Permit #SWF-1025/
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings remove	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil bas	Surface - Alr/Freshwater, Intermediate - Dust/Stiff Foam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etcDrill cuttings store	d in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawd	ust) N/A
-Landfill or offsite name/permit number?Meadowfill Landfill (Permit #SWF-1032-98), Northwell	estern Landfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttin West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environgerovisions of the permit are enforceable by law. Violations of any term or condition of the law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familia application form and all attachments thereto and that, based on my inquiry of those obtaining the information, I believe that the information is true, accurate, and complete penalties for submitting false information, including the possibility of fine or imprisonment and Company Official Signature Company Official Signature Gretchen Kohler Company Official Title Senior Environmental & Regulatory Manager	onmental Protection. I understand that the the general permit and/or other applicable ar with the information submitted on this individuals immediately responsible for e. I am aware that there are significantly ED to MAY 1 3 2021
Company Official Title Senior Environmental & Regulatory Manager	Environmental Protection
Subscribed and sworn before me this day of My commission expires	Jotary Public NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011936 OF /18/2021

Form WW-9

	Operator's	Well No. Peeler Unit 3H
poration		
nt: Acres Disturbed 34.16 a	cres Prevegetation p	он
_ Tons/acre or to correct to pI	6.5	
raw or Wood Fiber (will be used	where needed)	
Tons/	acre	
acres) + CO Route 46 (0.78 acres) + Well	Pad (17.00 acres) + Excess/Topsoil Material Stock	pile (10.30 acres)= 34.16 Acres
<u>See</u>	ed Mixtures	
orary	Pern	nanent
lbs/acre	Seed Type	lbs/acre
		10-15
40	Tall Fescue	30
seed type (Gadd Pad Design)	See attached Table IV-4A for addition	onal seed type (Gadd Pad Design)
ested by surface owner	*or type of grass seed req	uested by surface owner
- I was		

		· · · · · · · · · · · · · · · · · · ·
4		
	Date: 5.19×21	
) Yes (X) No	
	Tons/acre or to correct to plant or Wood Fiber (will be used life to the u	Tons/acre or to correct to pH 6.5 traw or Wood Fiber (will be used where needed) Ibs/acre

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

Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol - Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

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WV Department of Environmental Protection 13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent – Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

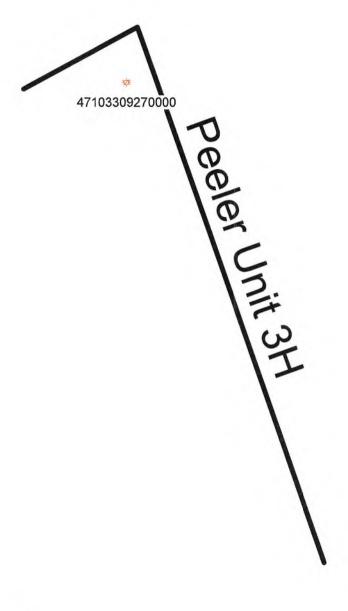
Drilling Fluid Lubricant

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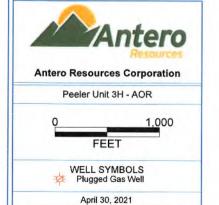




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06/18/2021



911 Address 2946 Eight Mile Road Reader, WV 26167

Well Site Safety Plan Antero Resources

B.O.H.

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:

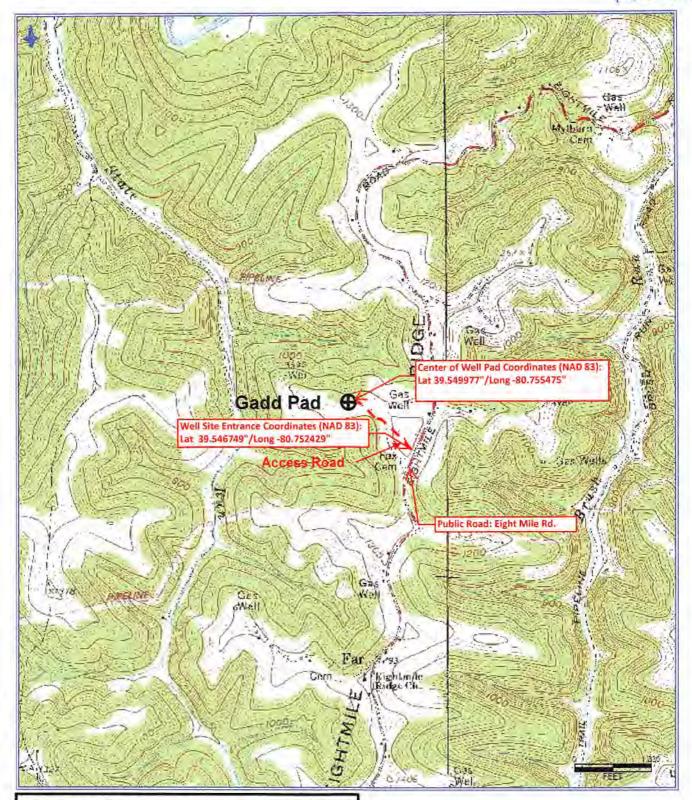
From Reader Fire Department: Head north on WV-20 N. toward Spice Lane for 0.5 miles. Turn left onto CO Rd/40/2 for 0.4 miles. Continue onto Eight Mile Road for 2.4 miles. Access road will be on your right.

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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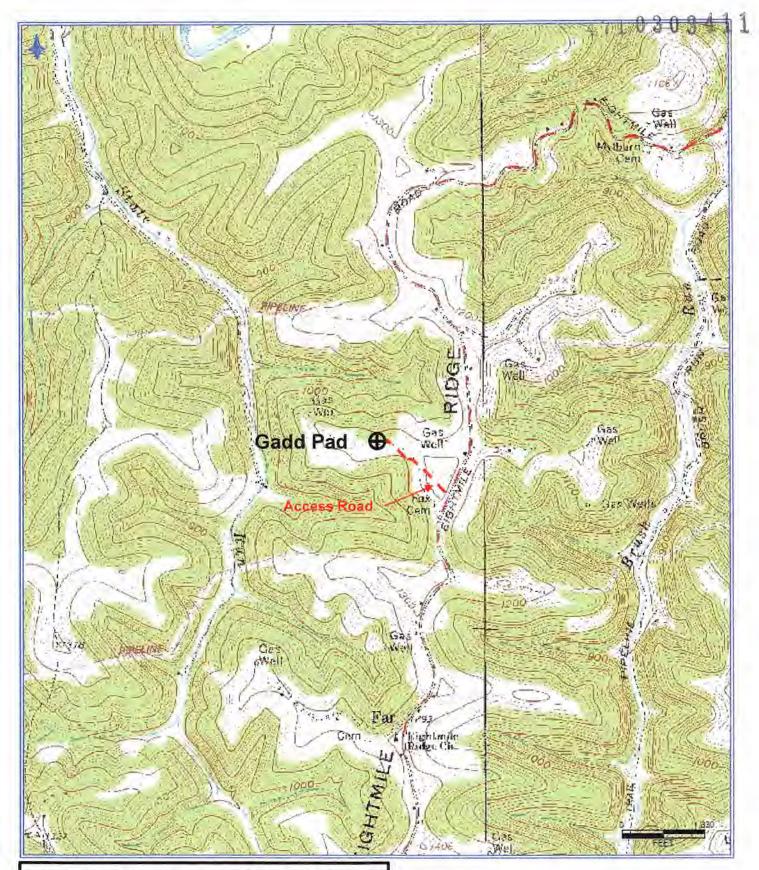


Antero Resources Corporation

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

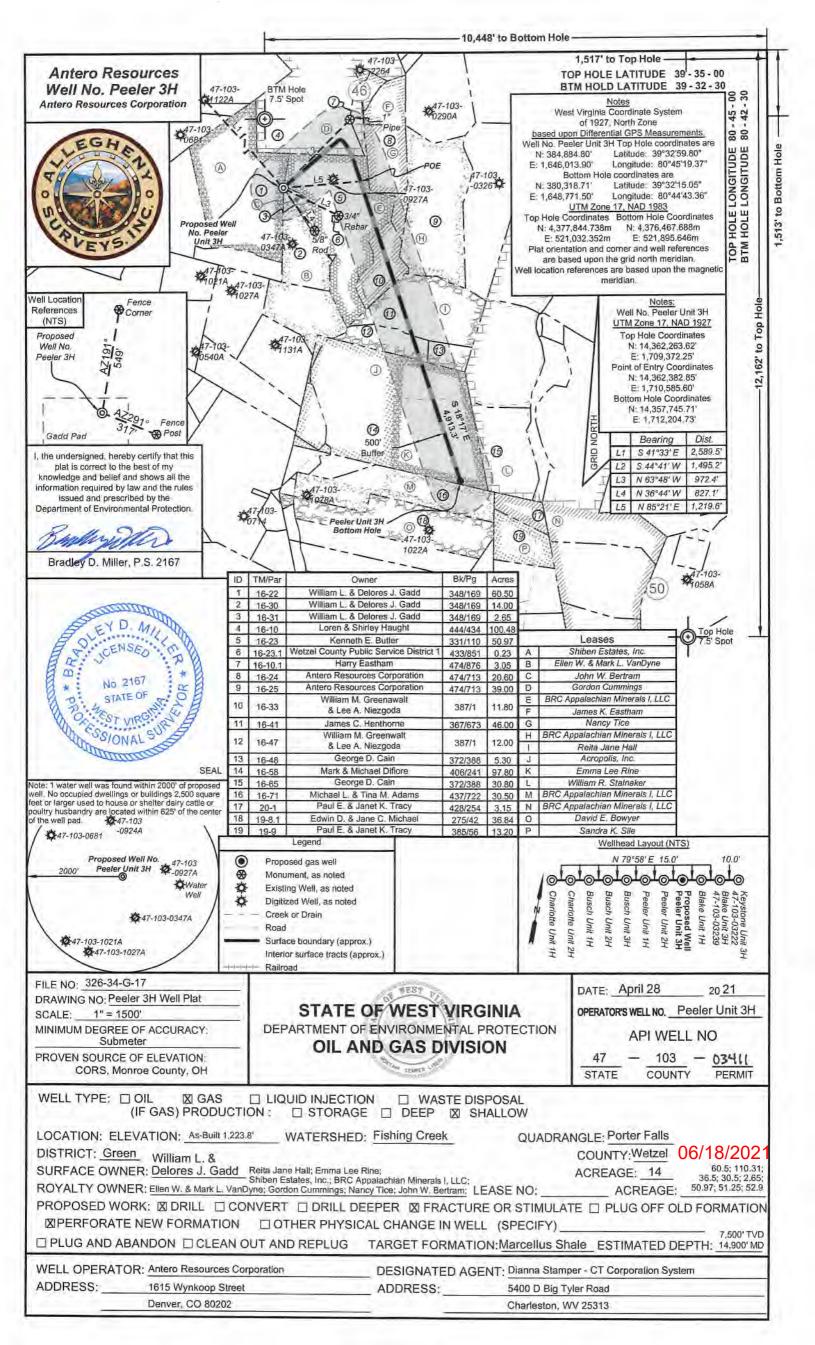
Quadrangle: Porters Falls Watershed: Fishing Creek

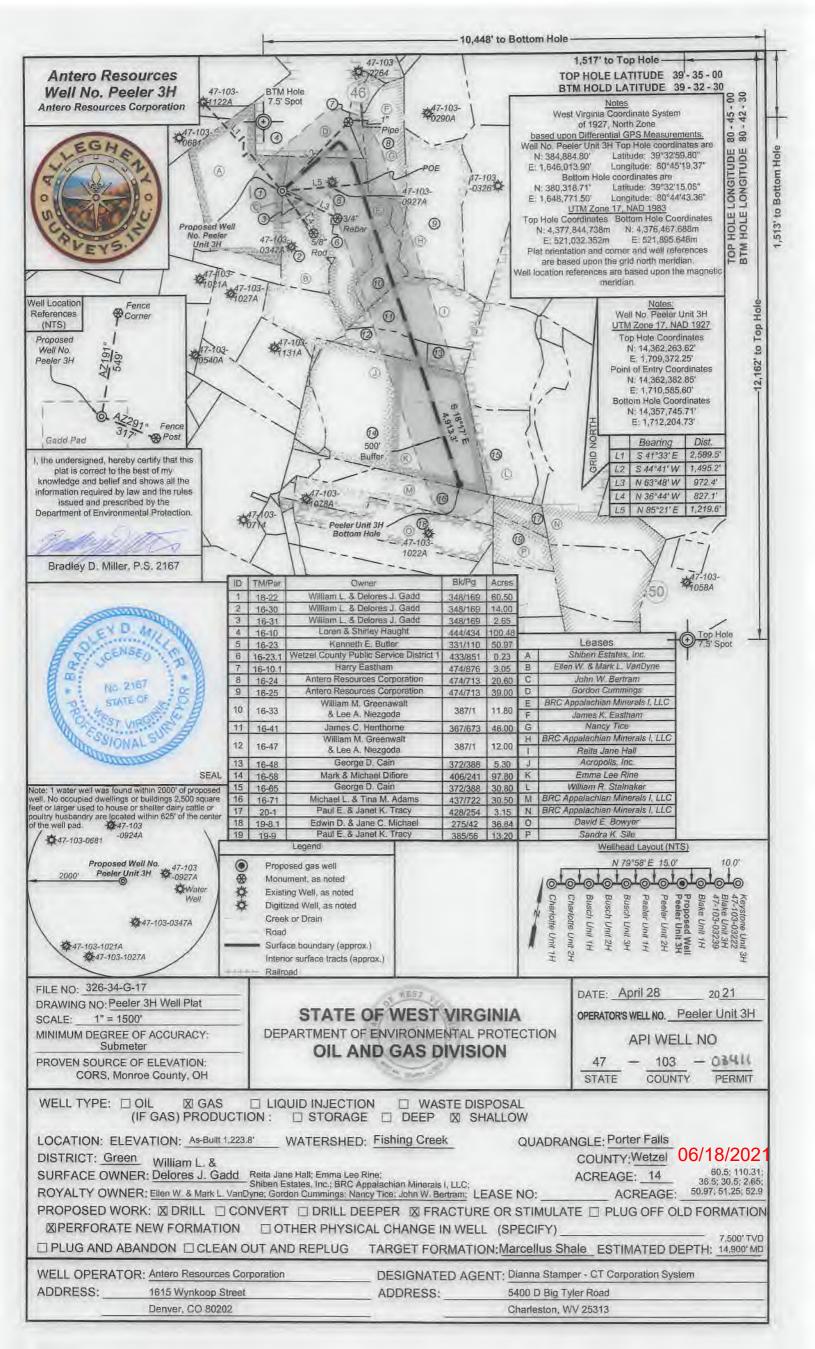
District: Green Date: 5-3-2021

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WV Dapermant of 06/18/2021





Operator's Well Number

Peeler Unit 3H

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

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

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

	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
A	Shiben Estates Inc. Lease Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
E	BRC Appalachian Minerals LLC Lease BRC Appalachian Minerals LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment M erger	0157/0540 0177/0533 0013/0311
D	Gordon Cummings Lease Gordon Cummings	Antero Resources Corporation	1/8+	0193/0001
H	BRC Appalachian Minerals LLC Lease BRC Appalachian Minerals LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merger	0157/0540 0177/0533 0013/0311
G	Nancy Tice Lease Nancy Tice	Antero Resources Corporation	1/8+	0203/0891
-	<u>Reita Jane Hall Lease</u> Reita Jane Hall	Antero Resources Corporation	1/8+	0111/0123

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Operator's Well N	o

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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- (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
Emma Lee Rine Lease				
1	Emma Lee Rine	Antero Resources Corporation	1/8+	0249/0738

*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 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 Cotenancy Modernization and Majority Protection Act

Well Operator:		Ď-	
By:	Tim Rady	~ Vledy	
Its:	VP of Land	1	

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:

Peeler 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 Peeler 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 Peeler 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

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

Date of Notic	ce Certification: 1 10 L		API No. 47	7- 103	
	7 '		Operator's	Well No. Peeler Unit 3H	
			Well Pad N	Name: Gadd Pad	
Notice has b	oeen given:				
	e provisions in West Virginia Code § 22-6A, th	ne Operator has pro	ovided the rec	quired parties with the Notice Forms listed	
below for the	tract of land as follows:	•		•	
State:	West Virginia	UTM NAD 83	Easting:	521032.352m	_
County:	Wetzel	UTM NAD 83	Northing:	4377844.738m	_
District:	Green	Public Road Ac	cess:	Eightmile Road	_
Quadrangle:	Porter Falls 7.5'	Generally used to	farm name:	William L. & Delores J. Gadd	_
Watershed:	Lower Fishing Creek	•			_
Pursuant to V	West Virginia Code § 22-6A-7(b), every per	mit application fil	led under thi	is section shall be on a form as may be	
	the secretary, shall be verified and shall contai				
4 1	. 1 41	11-1-1-1-1 (1)	1 (4) 1		

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 OF ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
■ 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) RECEIVED	
4. NOTICE OF PLANNED OPERATION Office of Oil and Gas	☐ RECEIVED
■ 5. PUBLIC NOTICE MAY 1 3 2021	☐ RECEIVED
■ 6. NOTICE OF APPLICATION WV Department of Environmental Protection	☐ 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.

Certification of Notice is hereby given:

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

Well Operator: Antero Resources Corporation

By: Tim Rady

Its: VP of Land

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mgriffith@anteroresources.com

MEGAN GRIFFITH
MEGAN GRIFFITH
MOTARY PUBLIC
STATE OF COLORADO
STATE OF COLORADO
STATE OF JULY 20184011666

Diana

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 Oil and

WV Department ()) Environmental Procession

API NO. 47-471 0 3 0 3 4 1 1

OPERATOR WELL NO. Peeler Unit 3H

Well Pad Name: Gadd Pad

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

Date	e of Notice	1	pplication Filed:	n the filing date of permit application.	
7	PERMIT FOR AN WELL WORK		ERTIFICATE OF APP ONSTRUCTION OF A	ROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virgi	inia Code § 22-6A-10	(b)	
	PERSONAL	REGISTER	ED METHO	OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECEI	PT OR SIGNATURE CONFIRMATION	
sedin the soil a desco oper more well impo have prov prop subs reco prov Cod	ment control plan require aurface of the tract on and gas leasehold being ribed in the erosion at ator or lessee, in the ecoal seams; (4) The work, if the surface to be a water well, spring ide water for consumptions with the surface water for consumptions with the surface water for consumptions water for consumptions of this sector of the sheriff requision of this article to the R. § 35-8-5.7.a requirement of the sheriff requision of this article to the sheriff requision of the sheriff requision of the sheriff requision of this article to the sheriff requision of the sheriff requision of the sheriff requision of this article to the sheriff requision of the sheriff requi	uired by section see which the well is of an developed by the and sediment control event the tract of land which was of record of tract is to be used for escribed in section in or water supply south aption by humans of ity is to take place, tion hold interests in aired to be maintain to the contrary, notice quires, in part, that the	ven of this article, and the proposed to be locally proposed well work, if all plan submitted pursual and on which the well proposed from the placement, constraint of this article; (5) A arce located within one or domestic animals; and (c)(1) If more than three in the lands, the applicant ed pursuant to section ed to a lien holder is not the operator shall also proposed with the proposed to the operator shall also proposed within the operator shall also proposed to the proposed to the operator shall also proposed within the proposed to the operator shall also proposed within the proposed to the operator shall also proposed to the operator shall also proposed to the proposed to the operator shall also proposed to the operator shall also proposed to the prop	ar signature confirmation, copies of the application, the me well plat to each of the following persons: (1) The outed; (2) The owners of record of the surface tract or tractic the surface tract is to be used for roads or other land don't to subsection (c), section seven of this article; (3) The oposed to be drilled is located [sic] is known to be understood to be drilled is located [sic] is known to be understood to be drilled is located [sic] is known to be understood to be drilled is located [sic] is known to be understood to be drilled in and gas leasehold being developed uction, enlargement, alteration, repair, removal or abarrany surface owner or water purveyor who is known to to thousand five hundred feet of the center of the well past (6) The operator of any natural gas storage field withing tenants in common or other co-owners of interests de at may serve the documents required upon the person desight, article one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the land to be understood the Well Site Safety Plan ("WSSP") to the surface as provided in section 15 of this rule.	where of record of acts overlying the isturbance as the coal owner, derlain by one or d by the proposed adonment of any the applicant to d which is used to a which the escribed in the twithstanding any downer, W. Va.
Ø A	application Notice	☑ WSSP Notice	☐ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
	URFACE OWNER(s)	1	☐ COAL OWNER OR LESSEE	Office of Oil and Gra
	ne: William L. Gadd		1	Name: NO DECLARATIONS ON RECORD WITH COUNTY	at the who Gan
Add	ress: 151 Loretta Avenue			Address:	MAY 1 3 2021
Man	Follansbee, WV 2603 ne: Kenneth Eric Butler	3(H COAL OBERATOR	-19 5011
	ress; 1078 Bethany Pike	0		COAL OPERATOR	WV Deceronemo:
Auu	Wellsburg, WV 26070			Name: Address:	Environmental Pintaeur
DI SI	JRFACE OWNER(her Disturbance)	Address.) SIEL III)
	ne: William L. Gadd	s) (Rodu and/or Or	net Distill ballet)	□WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,	
	ress: 151 Loretta Avenue	9		SPRING OR OTHER WATER SUPPLY SOURCE	
2500	Follansbee, WV 260			Name: NONE IDENTIFIED WITHIN 1500'	
Nam	e: Kenneth Eric Butler			Address:	
	ress: 1078 Bethany Pike			1 (MAC) 1077 (8	
	Wellsburg, WV 260			DOPERATOR OF ANY NATURAL GAS STORA	AGE FIELD
SI	JRFACE OWNER(s) (Impoundments	or Pits)	Name:	MAN A CONDY
Nam	ie:			Address:	
Add					
_				*Please attach additional forms if necessary	

API NO. 47- 103 - 034 OPERATOR WELL NO. Peeler Unit 3H 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 Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wygov/oiland-gas/pages/default.aspx.

Well Location Restrictions

MAY 1 3 2021 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

API NO. 47- 103 - 03411

OPERATOR WELL NO. Peeler 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 with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments with the secretary at 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

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.

API NO. 47- 103 - 03411

OPERATOR WELL NO. Peeler 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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

Office of Citiand Cir.

MAY 1 3 2021

WV Dispartment of Environmental Protection

API NO. 47- 103 - 034 OPERATOR WELL NO. Peeler Unit 3H
Well Pad Name: Gadd Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Diana O. Hor 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 deprivacyofficer@wv.gov.

MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666

MY COMMISSION EXPIRES MARCH 13, 2022

Subscribed and sworn before me this

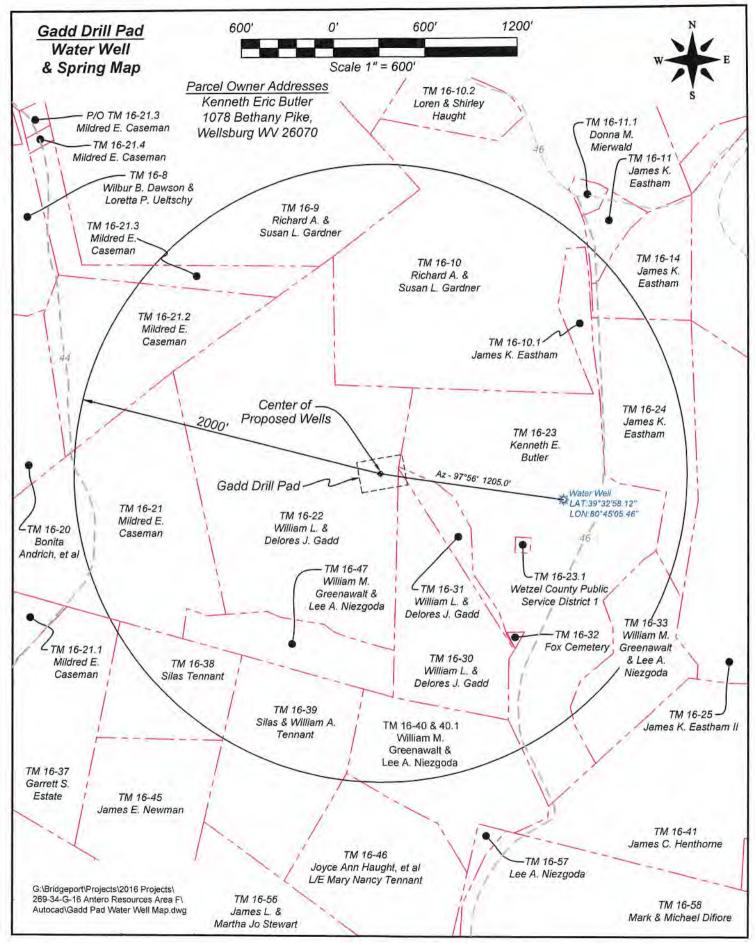
Notary Public

My Commission Expires

RECEIVED
Office of Oil and Gas

MAY 1 3 2021

WV Department of Environmental Protection



WW-6A4 (1/12) Operator Well No. Peeler Unit 8H 1 1

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.

		to Billi requirement has NOT bee	A series of the
Notice Time I Date of Notic	Requirement: Notice shall be provided a e: 03/10/2021 Date Per	t least TEN (10) days prior to filir mit Application Filed: 05/07/2021	g a permit application.
Delivery metl	hod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		QUESTED	
receipt request drilling a horizof this subsection material and if available Notice is her Name: Willia Address: 151 L	ted or hand delivery, give the surface ow zontal well: Provided, That notice given tion as of the date the notice was provided by be waived in writing by the surface ow le, facsimile number and electronic mail a reby provided to the SURFACE OV m L Gadd oretta Avenue	ner notice of its intent to enter upon pursuant to subsection (a), section do to the surface owner: Provided, ner. The notice, if required, shall address of the operator and th	Butler Pike
Follar	nsbee, WV 26037	Wellsburg, W	26070
the surface ow	mer's land for the purpose of drilling a ho	orizontal well on the tract of land a	s follows:
County: District:	West Virginia Wetzel Green	UTM NAD 83 Easting: Northin	521032.352m 4377844.738m Eightmile Road
State: County: District: Quadrangle: Watershed:	West Virginia Wetzel	UTM NAD 83 Easting:	521032.352m 4377844.738m Eightmile Road
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori	West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: Vest Virginia Code § 22-6A-16(b), this aber and electronic mail address of the izontal drilling may be obtained from the	DITM NAD 83 Easting: Northing Public Road Access: Generally used farm name notice shall include the name, a operator and the operator's author essentially at the WV Departme	521032.352m 4377844.738m Eightmile Road
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her	West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: West Virginia Code § 22-6A-16(b), this aber and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (creby given by:	DITM NAD 83 Easting: Northing Public Road Access: Generally used farm name notice shall include the name, a operator and the operator's author e Secretary, at the WV Departme (304-926-0450) or by visiting www.	521032.352m 4377844.738m Eightmile Road William L. & Delores J. Gadd ddress, telephone number, and if available, rized representative. Additional information of Environmental Protection headquarters, v.dep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her Well Operator	West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: West Virginia Code § 22-6A-16(b), this aber and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (creby given by:	DITM NAD 83 Easting: Northing Public Road Access: Generally used farm name notice shall include the name, a operator and the operator's author essentially at the WV Departme	521032.352m 4377844.738m Eightmile Road William L. & Delores J. Gadd ddress, telephone number, and if available, rized representative. Additional information of Environmental Protection headquarters, v.dep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her	West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: West Virginia Code § 22-6A-16(b), this aber and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (creby given by:	DITM NAD 83 Easting: Northing Public Road Access: Generally used farm name notice shall include the name, a operator and the operator's author e Secretary, at the WV Departme (304-926-0450) or by visiting www.	521032.352m 4377844.738m Eightmile Road William L. & Delores J. Gadd ddress, telephone number, and if available, rized representative. Additional information of Environmental Protection headquarters, v.dep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her Well Operator Address: Denver, CO 8020	West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: Vest Virginia Code § 22-6A-16(b), this liber and electronic mail address of the lizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (creby given by: Antero Resources Corporation 1615 Wynkoop Street	DITM NAD 83 Easting: Northing Public Road Access: Generally used farm name notice shall include the name, a operator and the operator's author e Secretary, at the WV Departme (304-926-0450) or by visiting www. Authorized Representat Address:	521032.352m 4377844.738m Eightmile Road William L. & Delores J. Gadd ddress, telephone number, and if available, rized representative. Additional information of Environmental Protection headquarters, v.dep, wv.gov/oil-and-gas/pages/default.aspx. RECEIVER.
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her Well Operator Address: Denver, CO 8020 Telephone:	West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: Vest Virginia Code § 22-6A-16(b), this liber and electronic mail address of the lizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (creby given by: Antero Resources Corporation 1615 Wynkoop Street	DTM NAD 83 Easting: Northing Public Road Access: Generally used farm name notice shall include the name, a operator and the operator's author as Secretary, at the WV Departme 304-926-0450) or by visiting www. Authorized Representat	521032.352m 4377844.738m Eightmile Road William L. & Delores J. Gadd ddress, telephone number, and if available, rized representative. Additional information at of Environmental Protection headquarters, v.dep.wv.gov/oil-and-gas/pages/default.aspx. We: Megan Griffith 1615 Wynkoop St.
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori located at 601 Notice is her Well Operator Address:	West Virginia Wetzel Green Porter Falls 7.5' Lower Fishing Creek Shall Include: West Virginia Code § 22-6A-16(b), this other and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (creby given by: "Antero Resources Corporation 1615 Wynkoop Street	DITM NAD 83 Easting: Northing Public Road Access: Generally used farm name notice shall include the name, a operator and the operator's author e Secretary, at the WV Departme (304-926-0450) or by visiting www. Authorized Representat Address:	521032.352m 4377844.738m Eightmile Road William L. & Delores J. Gadd ddress, telephone number, and if available, rized representative. Additional information of Environmental Protection headquarters, v.dep. wv.gov/oil-and-gas/pages/default.aspx. We: Megan Griffith 1615 Wynkoop St. Denver, CO 80202

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.

WW-6A5 (1/12) Operator Well No. Peeler Unit 3H

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

State: West Virginia UTM NAD 83 Easting: 521032.352m Office of Dataset County: Wetzel UTM NAD 83 Northing: 4377844.738m District: Green Public Road Access: Eightmile Road MAY 13.20 Quadrangle: Porter Falls 7.5' Generally used farm name: William L. & Delores J. Gadd Watershed: Lower Fishing Creek	Notice Time Date of Noti	Requirement: notice shall be provided ce: 05/07/2021 Date Permit.	no later than the filing Application Filed: 05/0	date of permit 7/2021	application.	
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: Warnell Eric Buller Address: 1078 Behmany Pike Weldstarg WV 28070 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: ### SECTION PIKE STATES Public Road Access: UTM NAD 83	Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(c)			
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 with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation with the drilling of a horizontal well on the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Address: 1916 between the address listed in the records of the sheriff at the time of notice. Name: Wentley Provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: Wentley Provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: Wentley Provided to the SURFACE OWNER(s) (at the address) listed in the records of the sheriff at the time of notice): Name: Wentley Provided to the SURFACE OWNER(s) (at the address) listed in the records of the sheriff at the time of notice): Name: Wentley Provided to the SURFACE OWNER(s) (at the address) listed in the records of the sheriff at the time of notice): Name: Kenneth Eric Butley Name: Kenneth Eric Butley Name: Kenneth Eric Butley Name: Kenneth Eric Butley Notice is hereby given: Name: Kenneth Eric Butley Notice is hereby given: Name: Kenneth Eric Butley Notice is						
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: Welliam L. Giadd Address; 131 Luretta Avenue Address; 131 Luretta Avenue Follandshee, WV 26307 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 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 Code § 22-6A-16(c), this notice is hereby given that the undersigned well operator has developed a planned operation. On the surface owner's land on the tract of land as follows: Well Operators: Northing: Address: Septimile Road Watershed: Lower Fishing Creek 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.	RETU	RN RECEIPT REQUESTED	DELIVERY			
Name: William L. Gadd Address: 1978 Bethany Pike Follansbee, WV 26307 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 UTM NAD 83 Easting: Northing: 4377844.738m County: Wetzel District: Green Public Road Access: Eightmile Road MAY 1.3.24 Quadrangle: Porter Falls 7.5 Generally used farm name: William L. & Delores J. Gadd Watershed: Lower Fishing Creek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Well Operator: Antero Resources Corporation Address: 1515 Wynkoop Street Denver, CO 80202	return receip the planned required to be drilling of a damages to the (d) The notice	t requested or hand delivery, give the sur operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed su he surface affected by oil and gas operatives required by this section shall be given	rface owner whose land subsection shall inclu- of this article to a surf- rface use and compens- ions to the extent the da to 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 horize of this code section; (2 e land will be used in co t containing an offer of pensable under article si	ontal well notice of 2) The information onjunction with the f compensation for x-b of this chapter.
Address: 151 Loretta Avenue Follansbee, WV 26307 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 County: Wetzel UTM NAD 83 Easting: Northing: A77844.738m District: Green Public Road Access: Generally used farm name: Watershed: Lower Fishing Creek 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-16(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default_aspx. Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street Denver, Co 80202					/	
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 UTM NAD 83 Easting: 521032.352m Office of the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia UTM NAD 83 Easting: 521032.352m Office of the purpose of drilling a horizontal well on the tract of land as follows: Wetzel UTM NAD 83 Easting: 521032.352m Office of the purpose of drilling a horizontal well on the tract of land as follows: BEGEIVED STATES AND THE PURPOSE OF TH	Name; William	L. Gadd				_
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 UTM NAD 83 Easting: 521032.352m Office of Operator Access: Eightmile Road Access: Eightmile Road Access: Eightmile Road MAY 1 3 20 Quadrangle: Porter Falls 7.5' Generally used farm name: William L & Delores J Gadd Watershed: Lower Fishing Creek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street Telephone: 303-357-7310	P 150 P P P R 10					
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 Wetzel District: Quadrangle: Public Road Access: Quadrangle: Porter Falls 7.5' Watershed: Lower Fishing Creek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Well Operator: Antero Resources Corporation Address: Denver, CO 80202	Follansbee, WV	26307	Wellsburg	J, WV 26070		
Quadrangle: Porter Falls 7.5' Generally used farm name: William L, & Delores J. Gadd Wy Department This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street Denver, CO 80202	Pursuant to V operation on State: County:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Wetzel	e of drilling a horizonta UTM NAD 8	I well on the tra Easting: Northing:	ct of land as follows: 521032.352m 4377844.738m	RECEIVED Office of Overages:
Watershed: Lower Fishing Creek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Well Operator: Antero Resources Corporation Address: Address: Denver, CO 80202						MAY 1 3 2021
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Telephone: 303-357-7310 Denver, CO 80202	Pursuant to V to be provid horizontal we surface affect information the headquarters.	West Virginia Code § 22-6A-16(c), this need by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and ted by oil and gas operations to the extrelated to horizontal drilling may be ob located at 601 57th Street, SE, Cha	a surface owner whose compensation agreeme ent the damages are co tained from the Secret	land will be un nt containing ar ompensable und ary, at the WV	used in conjunction with offer of compensation her article six-b of this Department of Enviro	th the drilling of a for damages to the chapter. Additional nmental Protection
	The second secon	Antero Resources Corporation	Address:	1615 Wynkoop Stre	et	
Email: mgriffith@enteroresources.com Facsimile: 303-357-7315	Telephone:	303-357-7310		Denver, CO 80202		
	Email:	mgriffith@anteroresources.com	Facsimile:	303-357-7315		

Oil and Gas Privacy Notice:

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4710303411

API NO. 47- 103 OPERATOR WELL NO. Peeler Unit 3H

Well Pad Name: Gadd Pad

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

required, and State:	attachments consisting of pages one (1) throug the well plat, all for proposed well work on the tra West Virginia	act of land as follows: Easting:	521032.352m
County:	Wetzel	Northing:	
District:		Public Road Access:	Eightmile Road
Quadrangle: Watershed:	Porter Falls 7.5' Lower Fishing Creek	Generally used farm name:	William L. & Delores J. Gadd
*Please chec	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
*Please chec	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
	CE OWNER	Signature:	
	CE OWNER (Road and/or Other Disturbance)	Date:	- HESELVEI)
	CE OWNER (Impoundments/Pits)	FOR EXECUT	ION BY A CORPORATION, ETC.
□ COAL (OWNER OR LESSEE	Company:	MAY 1 3 202
□ COAL C	PERATOR	Its:	7VV GOARDem -
	OPERATOR R PURVEYOR	Its:Signature:	TVV Gopsonnem of

Oil and Gas Privacy Notice:

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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

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 3H Well Site

Dear Mr. Martin,

Byrd E. White, III

Secretary of Transportation/

Commissioner of Highways

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

Yary K. Clayton

Cc: Megan Griffith Antero Resources

CH, OM, D-6

File

List of Anticipated Additives Used for Fracturing or $^{4\,7\,1\,\,0\,\,3\,\,0\,\,3\,\,4\,\,1\,\,1}$ Stimulating Well

Jillidiatili		-
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	1
Demulsifier Base	Proprietary	1
Ethoxylated alcohol blend	Mixture	1
Ethoxylated Nonylphenol	68412-54-4	1
Ethoxylated oleylamine	26635-93-8	
Ethylene Glycol	107-21-1	
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	
Polyacrylamide	57-55-6	1
Propargyl Alcohol	10-10-	RECEIVEL
Propylene Glycol	57-55-6	te of ∩il and Ge.
Quartz		Y 1 3 2021
Sillica, crystalline quartz	7631-86-9	2 20 6.071
Sodium Chloride	7C47.14.5	Department of
Sodium Hydroxide	1310-73-2	mental Protection
Sugar	57-50-1	1
Surfactant	68439-51-0	1
Suspending agent (solid)	14808-60-7	1
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	1
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	1
Soybean Oil, Me ester	67784-80-9	1
Copolymer of Maleic and Acrylic Acid	52255-49-9	1
DETA phosphonate	15827-60-8	1
Hexamthylene Triamine Penta	34690-00-1	1
Phosphino Carboxylic acid polymer	71050-62-9	1
Hexamethylene Diamine Tetra	23605-75-5	1
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	1
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	1
Diethylene Glycol	111-46-6	1
Methenamine	100-97-0	1
Polyethylene polyamine	68603-67-8	1
Coco amine	61791-14-8	1
2-Propyn-1-olcompound with methyloxirane	38172-91-7	1
	J01/2-J1-/	j

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
STATE SUPPORTIONNAL CONSULTANTS, TO REVIEW THE SITE FOR WATERS AND WELLANDS THAT ARE
MOST LIKELY WITHIN THE RECULATORY PERFORM OF PROVISONMENTAL PROFECTION (WEND-1) THE SETTEMBRE 25,
2017 WELLAND DELDELATION AND STRAMM HIGHEFULATION REPORT WAS PREPARED BY SWA
STREAMED DELDELATION AND STRAMM HIGHEFULATION REPORT WAS PREPARED BY SWA
STREAMED AND STRAMMENT AND STRAMMENTS THE RESULTS OF THE FEELD SERIMENTAL THE MAP
DOES NOT, ON ANY MAY, ALPRESENT A THERDICTORAL DEPTEMENTATION OF THE LANDWARD LIMITS OF
WALDES AND MELITANDS WHERE MAY BY REGULATED BY THE WASHE GARDED BY THE PERFORMENT.

GEOTECHNICAL NOTES:
A SUBSUPPACE DIVESTIGATION OF THE SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC.
BEFFERED BOCCHORE II & DECUMBER 2C, 2017. THE REPORT PREPARED BY PERNSYLVANIA SOIL &
BOCK, INC. DATED JANUARY 22, 2018, REFLECTS THE RESULTS OF THE SUBSULTAGE INVESTIGATION
FILE INTERNATIONS AND RECOMMENDATIONS CONTAINED IN THIS RESOURT WARE INSENTIATION
PERFARATION OF THESE FLANS. PLANE REPERFORMED THE SUBSULTAGE INVESTIGATION REPORT BY
PENNSYLVANIA SOIL & BOCK, INC., FOR ABBITROING INPOSITIONS, AS MACKED.

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: (BB) 462-4165 CELL (640) 1881-6747

ENVIRONMENTAL:
SWCA ERVIRONMENTAL CONSULTANTS, INC.
IVAN 1, 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 535 WHITE GARS BLVD BRIDGEPORT, WV 28030 PRIONE: (304) 948-4100 FAX: (204) 048-4109

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:

INVALENCE.

ALL BUP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCY ARE COMPLETE AND PROMANEANY STANDLIKE. MAINTENANCE WIST EXCLUDE INSPECTION OF ALL RESIDENCE AND SEMINENT CONTROLS AFTER EAGE RUNOFF EVENT IN EXCESS OF 0.5° AND ON A BIMEBELY BASIS.

- OS AND UN A DIRECTION STEE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION, ESTABLISHINDT OF DIALL STABILIZATION MUST BE DIVIDING FOR LATER THAN 7 DAYS AFTER ERGELING. THAN CRODE, FINAL STABILIZATION MUST BE DIVIDING TOOL DISTURBERS OF ACTIVITIES ARE COMPLETED. AND THAT STHERE A PERSANDATI VERETATIVE COVER WITH A DESIRIT OF TOO OR GREATER ARE BURN STABLISHED ON THAT THE SUPPLY OF THE STABLISHED BY HADD COVER 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 PERMANENTLY 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 ATTIS 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)
TAPEN HALF SCALM 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

WVDOH COUNTY ROAD MAP

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

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
- 6 WELL PAR & STREWPILE AS-RUILT PLAN
- 7 ACCESS ROAD AS-BUILT PROFILES
- B WELL PAD AS-BUILT SECTIONS
- 9-10 STOCKDUE AREA AS-RIBLY SECTIONS

11-12 CONSTRUCTION DETAILS

Total Site		Modified	Total
Access Road "A" (1.275")	6.08	0.00	8.08
Co Rt 46 Rump Out	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 Kenneth Eric Butler i	Kennet	E. Buller Th	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
xxess/Topsoil Material Stockpiles	3.27	0.00	3.27
Total Affected Area	8.63	0.00	8.63
Total Wooded Acres Disturbed	5.71	0.00	5.71
Impacts to William L. & De	tores J. C	add TM 18-36	0
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. & De	fores J. C	add TM 16-3	1
Access Road "A" (588")	1.59	0.00	1.59
Well Pad	0.50	0.00	0.50
Excass/Topsoil 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 18-2	2
Weil Pad	11.69	0.21	11.90
xcnss/Topsoil Material Stockpiles	637	0.00	8.87
Total Affected Area	18.56	0.21	18.77
Total Wooded Acres Disturbed	14.78	0.17	34.95

Proposed VAII Name	NAC 27	NAD 83	ZODE 17	NAD B3 Lat & Long
Matchiesa	N 384909 70	N 384905.51	N 4377858.90	LAT 39-32-59 9004
Unit 1H	E 1545771 69	E 1614331.24	E 520958 64	LONG-10-15-21 8185
Marchieca	N 384570.15	N 384905,98	N 4377839 09	LAT 39-32-59 9002
Unit 214	E 1545781.68	E 1014341,23	E 520961 68	LONG -80-45-21 6914
Charlotte	N 364570.60	N 384905.45	N 6377839.28	LAT 39-32-59.9121
Unit 1H	E teathirm ar	E 1814351 22	E 820964.72	LCN/3-40-45-21 5639
Charlotte	N 384671 D4	N 384905.85	N 4377839.47	CAT 70-32-80 9179
Unit 2H	E 1545801.95	E 1614301.21	E 521367 76	LONG 80-45-21-4065
Busch	N 364571-49	N 38490T 30	N 4377839.05	LAT 39-32-59 9237
Unit 1H	E 1645811.65	E 1014371.20	E 520970 80	LONG -8545-21.3090
Busch	N 384871.04	N-384907.75	N 4277630 64	LAT 39-32-59-5255
Unit 251	E 1645821.64	€ 1014201.19	E 520973 64	LONG -80-45-21, 1916
Peeler	N 384872.69	N 334908 41	N 4377849 67	LAT 39-37-59-9680
Unlitte	E 1045944 97	E 1814504.52	E 521011.41	LONG -10-45-19-6075
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-80-45-19-4819
Pealer	N 384876.09	N.384911.89	N 4377841.83	LAT 39-32-59 9902
Unit 3H	E 1545964 06	E 1614534 21	E 521017.40	LONG 4045-19 2565
Blake	N 384577.82	N 384913-64	N 4377642 41	LAT 29-33-00 0096
Unit 1H	E 1545974 81	E. 1014534 36	E 521020 30	LONG-8045-19-2311
Keystone West	N 384879 57	N 384915 3E	N 4377842.99	LAT 39-33-G0 0274
Unit 1H	E 1545984 36	E 1814543.90	E 521023 36	LONG 40-45-19, 1057
Blake	N 384891.31	N 284017.13	N 4377813.57.	LAT 39-33-00 0460
Unit 2H	E 1645664 20	E 1814853.78	E 521025 57	LONG-80-45-18 9803
Keystone What	N 3BARBS 05	N 284918 E7	N 4377844 15	LAT 39-33-00 0946
Unit 2H	E 1545004 05	E 1614563.60	E 821029-36	LONG-10-45-18 8550
Ettake	N 384890.03	N 354925.85	N 4377846.48	UAT 35-33-03 1380
Unit 3H	E 1846043 44	E 1814602.98	E 521041 32	LONG -80-45-1E 3534
Kaystone	N 384891.77	N 384927-58	N 43T784T.05	LAT 39-33-00.1975
Unit 3H	C 1545050 27	E 1814812 82	E 321044 31	LONG 40-45-18.2282
Part Flevering	1 730 0			

and the second second	Pemia	nent impacts	Temp. Impacts	Temp. Disturb.	Total Impac
Stream and Impact Cause		Inlets/Outlets Structures (LF)	Controls (LF)	Distance to L.O.D. (LF)	(LF)
S9 (Well Pad)	94	0	62	19	156
\$10 (Weil Pad)	0	0	24	9	24
S17 (Well Pad)	89	0	10	- 0	109

S ENGIN

ì	NO	П	T	Ì
NO	REVISED PER LOD MODIFICATION			
VISI	100	П		
RE	PER	11	Н	
	REVISED			
DATE	6/52/5018			



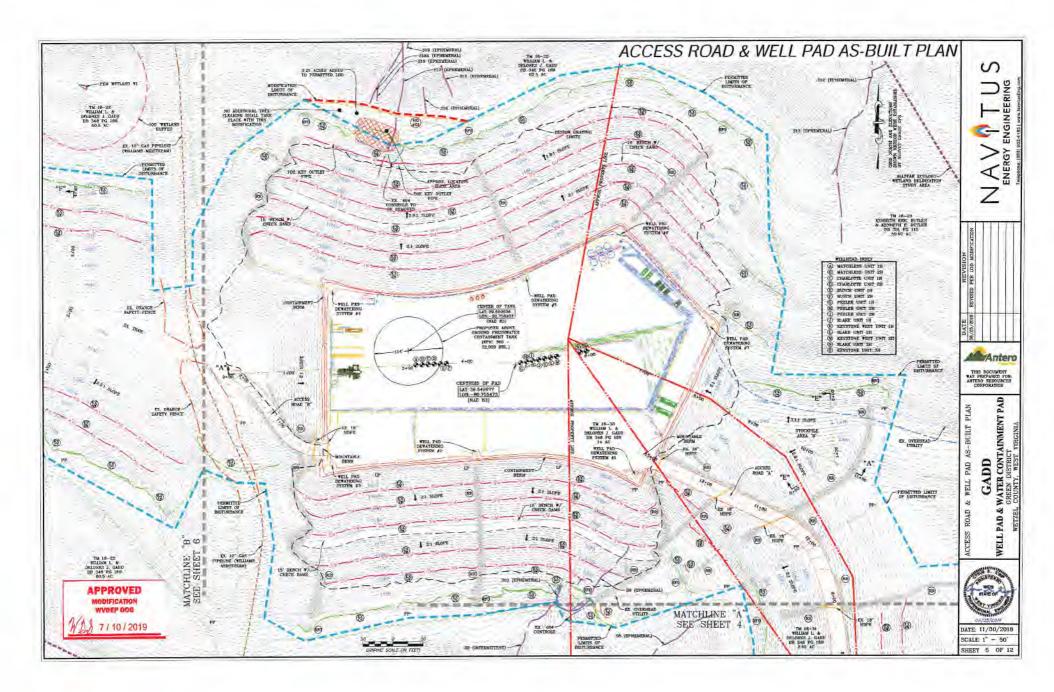
THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

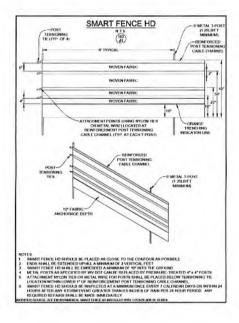
WATER CONTAINMENT PAD GADD

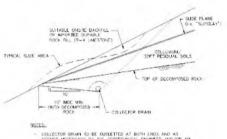
WELL PAD

8

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

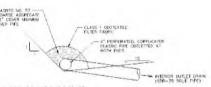






COLLECTOR DRAIN TO BE DUTLETTED AT BOTH ENDS AND AS DETWED NECESSARY BY THE GEOTECHNICAL ENGINEER AND/OR AN EXPERIENCED SOL TECHNICIAN/DISPECTOR.





"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 WIGHTED IN HOM-MONEY PLITTER FARING.

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 (UTM ZONE 17 METERS) WVDEP OOG CENTROID OF PAD LATITUDE: 29,549963 LONGITUDE: 80,755603 (NAD 83) N 4377640.22 E 520907.86 (UTM ZONE 17 METERS) 2/27/2016

GENERAL DESCRIPTION:

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

OBJECTION TOWN

THE ACCESS ROAD(S). WATER CONTAINMENT PAD, AND WELL PAD ARE BEING CONSTRUCTED TO AID IN
THE 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 COSSED OF ENCINCERS (BEACE)
2017 WETLAND BELDEATION AND STREAM DEMINISCRIPS SEPORT WAS PERFARED BY SWED
2017 WETLAND BELDEATION AND STREAM DEMINISCRIPS SEPORT WAS PERFARED BY SWED
DOES NOT. IN ANY WAS, ESPERIESENT A JURISDICTIONAL BETEAMARINGTON OF THE ALMORAND LIMITS OF
WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USAGE OF THE WYDER. IT IS STRONGLY
CONTINUATION OF THE DEMINISTRAND WAS NOT BE SENDED TO MAKE PEOPLE TO DAY WEDER
CONTINUATION OF THE DEMINISTRAND WAS NOT BE SENDED TO MAKE PROPOSED TO MAKE PEOPLE
PEDBERAL AND, ON STATE REQULATION SHOWN ON THIS EDITION PROPOSED DEPACTS TO WATERS OF THE
U.S., INCLUDING WITLAND FILLS 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 ADDRESS OF THE
SUBSULVACE INVESTIGATION. THE REPORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT
WASTED USED ON THE PERFORMENO OF THESE PLANS. PLACES EXPERT TO THE SUBSULVACE INVESTIGATION SEPORT BY PENNSYLVARIA SOIL & ROCK, INC. FOR ADDITIONAL DEFORMATION, AS
SELECTED.

PROJECT CONTACTS:

OPERATOR
ANTERO RESOURCES CORPORATION
535 WHITE CARS HLVD.
BRIDGEPORT. WV 26330

ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE: (304) 842-4088 CELL: (304) 475-9770

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, DC.
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 100 PER OF THE WELL PAD AND LOD.

- 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 & RES COMPUTATIONS
DESIRING COMPUTATIONS
DESIRING COMPUTATIONS
AND 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 Arzes Disturbed	26.11
Impacts to Co. Rt. 46 R/W	
Access Road "A" (4")	0.04
Co. Rt. 46 Bump Out	0.08
Total Affected Area	0.10
Total Wooded Arres Disturbed	0.00
mpacts to Kenneth Eric Butler & Kenneth E.	
Access Rand "A"	0.60
Co. Rt. 46 Bump Out	072
Well Pad	3,32
Excess/Topsoil Material Stockpiles	3 27
Total Affected Area	7,91
Total Wooded Acres Distated	5.63
impacts to William L. & Delores J. Gadd	TM 16-38
Access Road *A* (683*)	3.23
Well Pad	1.28
Total Affected Area	4,51
Total Wooded Acres Disturbed	3.99
Impacts to William L. & Delores J. Gadd	TM 16-31
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	1.71
Impacts to William L & Delores J. Badd	
Well Pad	11.69
Excess/Topsoil Material Stockpiles	6,87
Total Affected Area	18,50
Total Wooded Acres Disturbed	14.78

Proposed Well Name	WW North	WWWorth NAD 83	UTM (METERS)	NAD IS Let A Long
Marchines	N 384857.35	N 384903,17	N 4397838.02	LAT 39-32-84-8072
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 18-32-50-9344
Unit 1H	E 1645935 12	E 1514494.67	E 521008 42	LCWG-60-45-19.7327
Charlotte	N 394872 59	FI 384908.40	N 4377840 67	LAT 39-32-59 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 31-32-89 F/36
UNITH	E 1845054 N2	E 1814514.36	E 321014.41	LOVIS -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
Unitate	E 1043674.51	E 1014534.05	E \$2,1020,59	LCNG-80-45-19-2311
Peeler	N 384872 57	N 354915.38	N 4377842 99	LAT 39-33-00 0274
Unit 214	E 1645054 36	1 181454330	E 6230073-36	LONG-40-45-19 1057
Peader	N 384881 31	N 384017.12	H 4377843.57	LAT 39-33-00 0460
Unit 3H	E 1845994.20	E 1814563.75	E 501005.37	LCNG-80-45-18.0603
Blake	N NUMBER 1 115	N 384918 57	N-4377888-10	LAT 29-33-00,0146
Unit th	E 1845034 05	E 1614585 50	E 521029.30	LONG-80-45-18 6550
Keyetone West	N 384884.60	N 384020 81	N 4377844.74	LAT 39-33-00 0930
Unit 1H	E 1646013.90	E 1614673.44	E.521032.35	LONG-60-45-19 7296
Blake	N 554695 54	N 384922 36	N 4377845 32	LAT 39433-00 1018
Unit 2H	E 1846023 74	E 1614583.29	E 521005 34	LONG-80-45-19 6042
Keystone West	N 364583.29	N 384924.10	N 4377845.90	LAT 39-33-00, 1204
Unit 2H	E 1616013.59	E 1614563.14	E 521038 33	LIDNG -60-45-18-4768
Blake	N 3848SE (G	N.384925.85	N 4377MG 45	LAT 26-33-00, 1390
Unit 3H	E 1515043 44	E 1814802 98	E 521541 32	LONG-40-45-18 35W
Kegatone	N 354591 T7	N 384227 59	N 4377847.08	LAT 38-35-00 1575
Unit 3H	E 1545053 27	E #814812.82	E 5210AL 21	LDMG-60-45-19.2282
Well Pad Elevation	1.722.0			

GA	DD EPHEN	ERAL STREAM	MPACT (LINEAR !	EET	
	Perma	nent impacts	Temp. Impacts	Temp. Disturb.	Theretain
Stream and Impact Cause		Inkts/Outlets Structures (LF)	Controls (LF)	Distance to L.O.D. (LF)	Total impact (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

Z	FIGURATION	PICURATION	A GEOTECH	REVISED PER WORP COMMENTS	
REVISION	WELL CONT	WELL CONFIGUR	PER STORM	PER WUEF	
	REVISED	RSVRED	REVISED PER	REVISIO	
DATE	2/21/2017	1,56/2017	9103/62/1	8/23/2019	1



PAD

GADD
ATER CONTAINMENT P.
REEN DISTRICT PAD



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

