

west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, November 9, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

## ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

# Re: Permit approval for GAUGE UNIT 3H 47-095-02540-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief Operator's Well Number: GAUGE UNIT 3H Farm Name: JOSEPH R. RYMER JR. U.S. WELL NUMBER: 47-095-02540-00-00 Horizontal 6A New Drill Date Issued: 11/9/2018

Promoting a healthy environment.

# PERMIT CONDITIONS

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

# **CONDITIONS**

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

# **PERMIT CONDITIONS**

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API Number:

4709502540

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, sending an email to DEPOOGNotify@wv.gov.

4709519/2952018

WW-6B (04/15) API NO. 47-095 - 02540

OPERATOR WELL NO. Gauge Unit 3H Well Pad Name: Rush Fork Pad

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

1) Well Operato	r: Antero	Resources	Corporat	494507062	095 - Tyler	Meade	Middlebourne 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Numbe	r: Gauge Ur	nit 3H	Well Pa	d Name: Rust	Fork Pad	
3) Farm Name/S	urface Ow	mer: Joseph	R. Ryme	r Jr. Public Ro	ad Access: CR	27	
4) Elevation, cur	rrent groun	d: 986'	Ele	vation, proposed	l post-construct	ion:	
	(a) Gas Other	x	_ Oil	Und	lerground Stora	ge	
	(b)If Gas	Shallow	Х	Deep			.0
		Horizontal	Х				Dall ges
6) Existing Pad:	Yes or No	Yes	_		1.2		DAH 5/20
				pated Thickness s- 55 feet, Associ			8-20-18
8) Proposed Tota	al Vertical	Depth: 670	D' TVD				
9) Formation at 7	Total Verti	cal Depth:	Marcellus				
10) Proposed To	tal Measur	ed Depth: 2	21000' ME	)			
11) Proposed Ho	rizontal Le	eg Length:	12308'				
12) Approximate	e Fresh Wa	ter Strata Dej	oths:	30'			
13) Method to D	etermine F	resh Water D	epths: Of	fset well records. De	epths have been ad	djusted accord	ing to surface elevations.
14) Approximate	e Saltwater	Depths: 14	61', 1485',	1510'		R Office	ECEIVED of Oil and Gas
15) Approximate	Coal Sear	n Depths: N	/A			A.L.C	0 4 2010
16) Approximate	Depth to 1	Possible Voic	l (coal min	e, karst, other):	None Anticipa	ted	2 4 2010
						WVE	epartment of nental Protection
17) Does Propos directly overlying				Yes	No	<u>x</u>	
(a) If Yes, prov	ide Mine I	nfo: Name:					
		Depth:					
		Seam:					
		Owner	:				

# 4709501205/2018

API NO. 47- 095

OPERATOR WELL NO. Gauge Unit 3H Well Pad Name: Rush Fork Pad

# 18)

# CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> or Used	Grade	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	21000	21000	5367 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

906 21/2018 Dry 4 -18

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

# PACKERS

Kind:	N/A	
Sizes:	N/A	RECEIVED Office of Oil and Gas
Depths Set:	N/A	AUG 2 4 2018

WV Department of Environmental Protection

Page 2 of 3

WW-6B (04/15)

47095012/09/2018

WW-6B (10/14) API NO. 47- 095

OPERATOR WELL NO. Gauge Unit 3H Well Pad Name: Rush Fork Pad

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

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

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): Existing 19.73 acres

22) Area to be disturbed for well pad only, less access road (acres): Existing 7.78 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.

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24) Describe all cement additives associated with each cement type:	AUG 2 4 2018
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	WV Department of Environmental Protection

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% L-45 + 0.5% L-16a + 0.2% L-12 + 0.45% C-20 + 0.05% C-51 Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

\*Note: Attach additional sheets as needed.



# 11/09/2018

WW-9 (4/16)		API Number 47 - 095 4709502540
(4/10)		Operator's Well No. Gauge Unit 3H
		TE OF WEST VIRGINIA
		F ENVIRONMENTAL PROTECTION FICE OF OIL AND GAS
	FLUIDS/ CUTTING	S DISPOSAL & RECLAMATION PLAN
Operator Name_Ante	ero Resources Corporation	OP Code 494507062
Watershed (HUC 10	) Outlet Middle Island Creek	Quadrangle Middlebourne 7.5'
Do you anticipate us	ing more than 5,000 bbls of water to	o complete the proposed well work? Yes No
Will a pit be used?		
If so, please	e describe anticipated pit waste:	o pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synth	netic liner be used in the pit? Yes	No 🖌 If so, what ml.? N/A
Proposed D	isposal Method For Treated Pit Wa	stes: 90/22/2017 DAV2 8-22-28
	Land Application	
		Permit Number_*UIC Permit # will be provided on Form WR-34
-		e permitted well locations when applicable. API# will be provided on Form WR-34
-	Off Site Disposal (Supply for Other (Explain	rm WW-9 for disposal location) ( <u>Meadowfill Landfill Permit #SWF-1032-98)</u> <u>Northwestern Landfill Permit #SWF-1025/</u> <u>WV0109410</u>
11711 1	Ves	fluids stored in tanks, cuttings removed offsite and taken to landfill.
		Surface • Aut Presidente -
Drilling medium ant	icipated for this well (vertical and h	orizontal)? Air, freshwater, oil based, etc Dust/Stiff Foam, Production- Water Based Mud
-If oil based	l, what type? Synthetic, petroleum,	etc. Synthetic
Additives to be used	in drilling medium? Please See Att	achment
Drill cuttings dispos	al method? Leave in pit, landfill, re	moved offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pi	t and plan to solidify what medium	will be used? (cement, lime, sawdust) N/A Office of Oil and
-Landfill or	offsite name/permit number?	dowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Parmit # SWF-1025/WV0109410) AUG 24 2019
	ide written notice to the Office of O waste facility. The notice shall be pr	il and Gas of any load of drill cuttings or associated waste rejected at any Department of rovided within 24 hours of rejection and the permittee shall also disclose nmental Protection
on August 1, 2005, b provisions of the pe law or regulation can I certify un application form ar obtaining the inform	by the Office of Oil and Gas of the V rmit are enforceable by law. Viola in lead to enforcement action. Inder penalty of law that I have per and all attachments thereto and that mation, I believe that the information	hs and conditions of the GENERAL WATER POLLUTION PERMIT issued West Virginia Department of Environmental Protection. I understand that the tions of any term or condition of the general permit and/or other applicable resonally examined and am familiar with the information submitted on this t, based on my inquiry of those individuals immediately responsible for ion is true, accurate, and complete. I am aware that there are significant possibility of fine or imprisonment.
Company Official S		) on behalf of G.Kdler
Company Official (	Typed Name) Gretchen Kohler	1
Company Official T	itle_ Senior Environmental & Regulate	bry Manager
Subscribed and swo	m before me this 4th da	ay of <u>HIGUST</u> , 2018
- HUCK	P L	Notary Public MEGAN GRIFFITH
and the second second second	•	NOTARY PUBLIC

My commission expires\_

STATE OF COLORADO NOTARY ID 20164011666 MY COMMISSION EXPIRES MARCH 13, 2022

Operator's Well No. Gauge Unit 3H

### Form WW-9

# Antero Resources Corporation

Lime 2-4	Tons/acre or to correct to p	<sub>H</sub> 6.5	
Fertilizer type	traw or Wood Fiber (will be used		
Fertilizer amount 500		lbs/acre	
Mulch 2-3	Tons	Vacre	
Access Road "A" 1395' (5.61 acre	s) + Staging Area (1.49 acres) + Well Pac	d (7.78 acres) + Excess/Topsoil Material Stockpiles (4	.85 acres) = 19.73 Acres
	Se	ed Mixtures	
Temp	orary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional seed ty	pe (Rush Fork Pad Design Page 24)	See attached Table IV-4A for additional seed t	ype (Rush Fork Pad Design F
or type of grass seed requ	ested by surface owner	*or type of grass seed reque	ested by surface or

#### Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Comments:		Or RECEIVER
		Office of Oil and Gas
		AUG 2 4 2018
		WV Department of Environmental Protection
Title: 0:1 + 6.5 Jaspee Field Reviewed?	Date: 8-22-18	

# **4709** 02540

# Form WW-9 Additives Attachment

# SURFACE INTERVAL

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

# **INTERMEDIATE INTERVAL**

# STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

# **PRODUCTION INTERVAL**

1. Alpha 1655

Salt Inhibitor

- 2. Mil-Carb Calcium Carbonate
- 3. Cottonseed Hulls

Cellulose-Cottonseed Pellets – LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

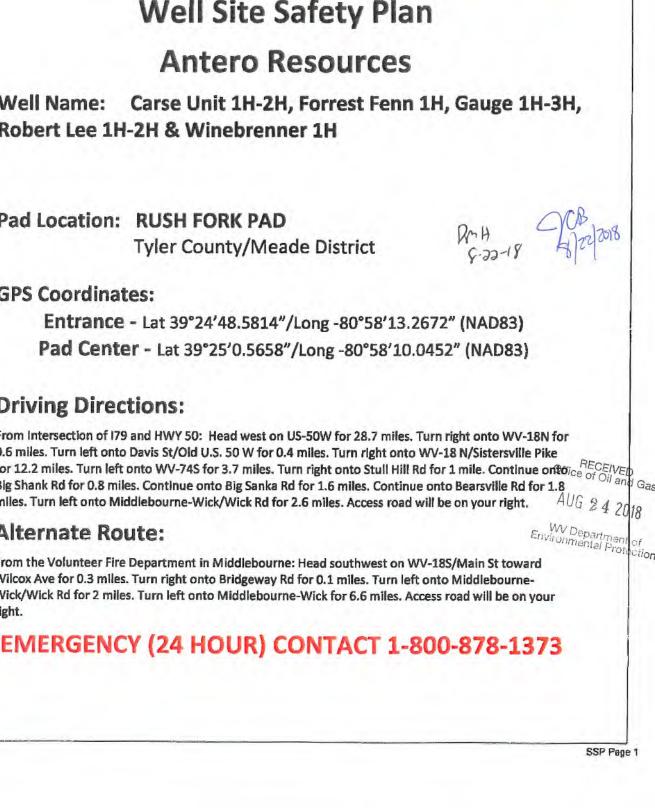
12. Mil Mica Hydro-Biotite Mica – LCM RECEIVED Office of Oil and Gas

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

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AUG 15 2018





911 Address 8730 Wick Rd Middlebourne, WV 26148

4709502540

# Well Site Safety Plan

Well Name: Robert Lee 1H-2H & Winebrenner 1H

Pad Location: RUSH FORK PAD

# **GPS Coordinates:**

# **Driving Directions:**

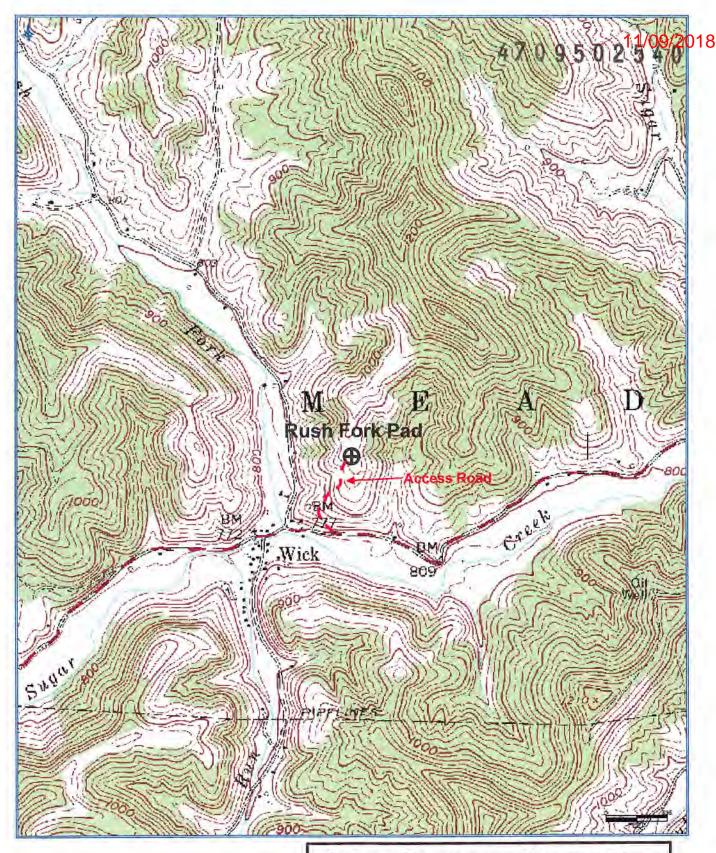
From Intersection of I79 and HWY 50: Head west on US-50W for 28.7 miles. Turn right onto WV-18N for 0.6 miles. Turn left onto Davis St/Old U.S. 50 W for 0.4 miles. Turn right onto WV-16 W/SILEISVILE FIRE for 12.2 miles. Turn left onto WV-74S for 3.7 miles. Turn right onto Stull Hill Rd for 1 mile. Continue onto for 1.8 Big Shank Rd for 0.8 miles. Continue onto Big Sanka Rd for 1.6 miles. Continue onto Bearsville Rd for 1.8 miles. Turn left onto Middlebourne-Wick/Wick Rd for 2.6 miles. Access road will be on your right.

# Alternate Route:

08/13/2018

From the Volunteer Fire Department in Middlebourne: Head southwest on WV-18S/Main St toward Wilcox Ave for 0.3 miles. Turn right onto Bridgeway Rd for 0.1 miles. Turn left onto Middlebourne-Wick/Wick Rd for 2 miles. Turn left onto Middlebourne-Wick for 6.6 miles. Access road will be on your right.

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



**Antero Resources Corporation** 

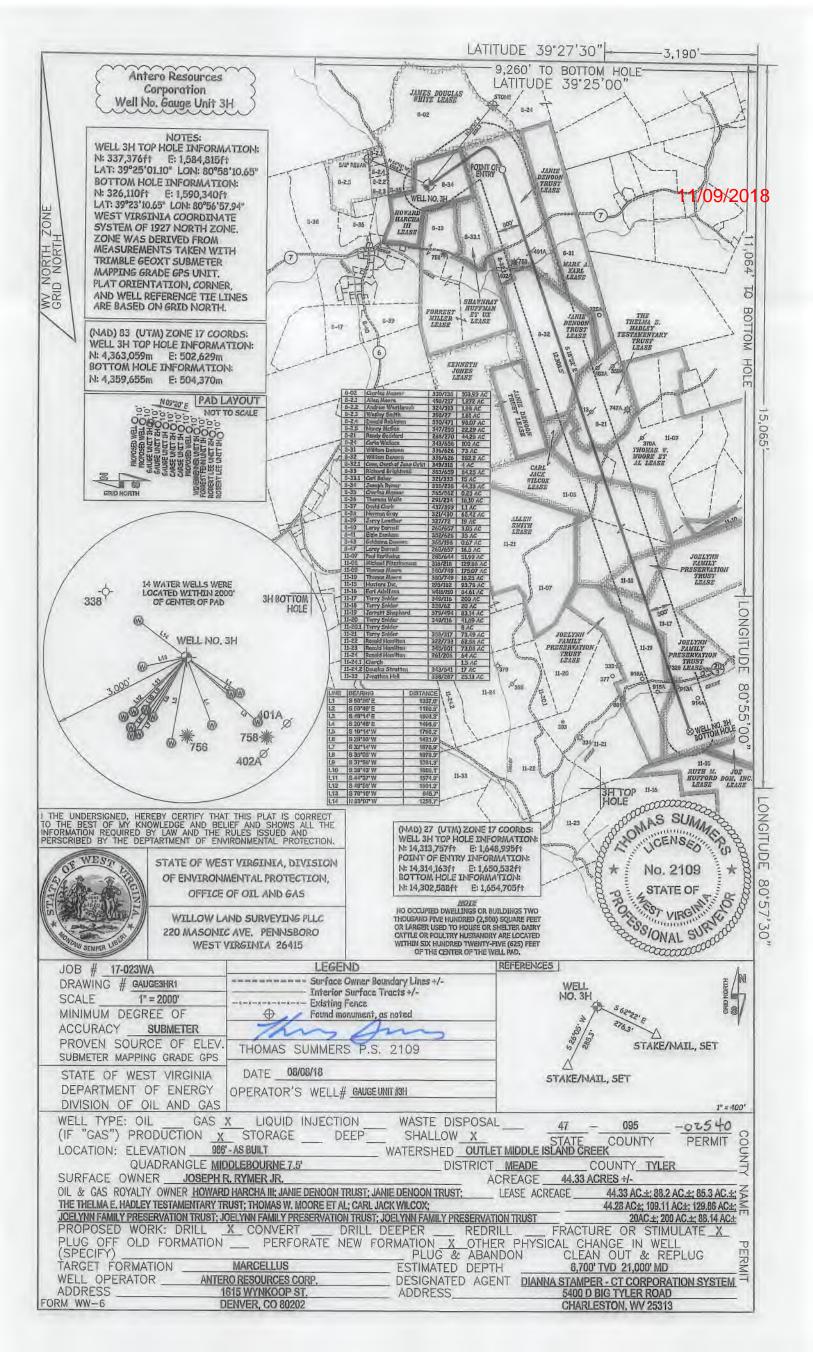
Appalachian Basin Rush Fork Pad

Doddridge County Quadrangle: Middlebourne

Watershed: Middle Island Creek District: Meade Date: 3-14-2017

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OCT 2 5 2018



Operator's Well Number Gauge 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
Howard H. Harcha III Lease			
Howard H. Harcha III	Antero Resources Corporation	1/8+	0486/0689
Janie DeNoon Trust Lease			
Janie DeNoon Trust	Chesapeake Appalachia LLC	1/8+	0413/0629
Chesapeake Appalachia LLC	SWN Production Company LLC	Assignment	0465/0463
SWN Production Company LLC	Antero Resources Corporation	Assignment	0544/0242
Janie DeNoon Trust Lease			
Janie DeNoon Trust	Chesapeake Appalachia LLC	1/8+	0413/0629
Chesapeake Appalachia LLC	SWN Production Company LLC	Assignment	0465/0463
SWN Production Company LLC	Antero Resources Corporation	1/8+	0544/0242
The Thelma E. Hadley Testamentary Trust Lease			
The Theima E. Hadley Testamentary Trust	Antero Resources Appalachian Corporation	1/8+	0400/0746
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Thomas W. Moore et al Lease			
Thomas W. Moore et al	Antero Resources Corporation	1/8+	0442/0590
Carl Jack Wilcox Lease			
Carl Jack Wilcox	Antero Resources Corporation	1/8+	0526/0768
The Joelynn Family Preservation Trust Lease			
The Joelynn Family Preservation Trust	Antero Resources Corporation	1/8+	0338/0062
The Joelynn Family Preservation Trust Lease			
The Joelynn Family Preservation Trust	Antero Resources Corporation	1/8+	0338/0062

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47095025

AUG 1 5 2018

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

**\*\*CONTINUED ON NEXT PAGE\*\*** 

WW-6A1 (5/13) Operator's Well No. Gauge 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
e Joelynn Family Preserva	tion Trust Lease			

\*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

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

Well Operator:	Antero Resources (	Corporation
By:	Kevin Kilstrom 🚺	Wetron
Its:	Senior Vice Preside	

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	UDIT 4			
t	HBIT 1	FILED	-)	
	1 A.	JUN 1 0 2013		:
80 19 Bl	nieljo B. Tommant. ordany of Stata 00 Kanayda Biyd B dg. 1, Suite 157-K arlesion, WV 25305	IN THE OFFICE OF Corporations Division SECHETARY OF STATE Thi: (304)558-8000 Wability wrine, www.com.	.4  	
T) ata	weifyon wants med . AME	PLICATION FOR NDED CERTIFICATE Office Hours: Monday - Friday E:30 a.m 5:00 p.m. ET		;
h	** In accordance with the provisions of	the West Virginia Code, the undersigned corporation hereby this		**
	applies for on Atuended Corth	issie of Aufhority and submits the following statements		
1.	Name under which the corporation w sufficient to transact business in Wi	Antero Resources Appelsontien Corporation		
2	Date Certificate of Authority was issued in West Virginia:	6/25/2008		
3.	Corporate name has been changed to	Antero Resources Corporation		
4	(Attach one <u>Certified Copy of Name</u> as filed in home State of Incorpora Name the corporation elects to use in	tion)		20
	(due to home state name not being av	aliable)		
5.	Other amendments: (attach additional pages if necessary)			
	10 No. 10 No. 10			
6.	Name and phone number of contact the filing, listing a contact person and document.)	t person. (This is optimial, however, if there is a problem with phone number may avoid having to return or reject the	5	
	Alvyn A. Bohopp	(305) 357-7310		
	Contact Name	Phone Number		
7.		Invertant Logal Notice Reporting Stanature):		
	Print Name of Signar: Ahyn A. Scho	pp Title/Capacity: Authorized Person		
	Bignatures	Date: June 10, 2013		
		ir West Virginia Cade 1310-1-129. Presity for staning false decurrent.		

Perm CH-4

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Office of Oil and Gas

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# 47 0 9 11/0922014 0



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

August 14, 2018

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

RE: Gauge Unit 3H Quadrangle: Middlebourne 7.5' Tyler County/Meade District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Gauge 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 Gauge Unit 3H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Thomas Kuhn Senior Landman

> RECEIVED Office of Oil and Gas

AUG 1 5 2018

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

Date of Notice Certification: 08/13/2018

API No. 47- 095	-
Operator's Well No	), Gauge Unit 3H
Well Pad Name:	Rush Fork Pad

#### Notice has been given:

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

West Virginia	LITM NAD 92 Easting:	502629m
Tyler	Northing:	4363059m
Meade	Public Road Access:	CR 7
Middlebourne 7.5'	Generally used farm name:	Joseph R. Rymer Jr.
Outlet Middle Island Creek		
	Tyler Meade Middlebourne 7.5'	Tyler     UTM NAD 83     Northing:       Meade     Public Road Access:       Middlebourne 7.5'     Generally used farm name:

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
<ul> <li>3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</li> <li>WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</li> </ul>	RECEIVED/ NOT REQUIRED
4. NOTICE OF PLANNED OPERATION	
5. PUBLIC NOTICE	
6. NOTICE OF APPLICATION	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 very ice, the return receipt card or other postal receipt for certified mailing.

AUG 15 2018

WW-6AC (1/12)

#### Certification of Notice is hereby given:

# THEREFORE, 1 Kevin Kilstrom

, 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	Addr	'ess:	1615 Wynkoop Street	
By:	Kevin Kilstrom	~		Denver, CO 80202	
Its:	Senior Vice President Production	Facsi	imile:	303-357-7315	
Telephone:	303-357-7310		Email:	mgriffith@anteroresources.com	
му сом	NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666		nd swo ye sion E	prin before me this 44 day of AUQUST 2.018 Notary Public prires MARCH 13, 2022	

#### **Oil and Gas Privacy Notice:**

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

RECEIVED Office of Oil and Gas

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WW-6A (9-13)

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

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

Date of Notice: 08/14/2018 Date Permit Application Filed: 08/14/2018

$\checkmark$	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

🗖 PI	ERSONAL	REGISTERED	$\checkmark$	METHOD OF DELIVERY THAT REQUIRES A
S	ERVICE	MAIL		RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Joseph R. Rymer Jr.	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: 3326 Rush Fork Road	Address:
Middlebourne, WV 26149	
Name:	COAL OPERATOR
Address:	Name: NO DECLARATIONS ON RECORD WITH COUNTY
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name: Joseph R. Rymer Jr.	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, RECEIVED
Address: 3326 Rush Fork Road	SPRING OR OTHER WATER SUPPLY SOURCE Office of Oil and Gas
Middlebourne, WV 26149	Name: PLEASE SEE ATTACHMENT
Name:	Address:
Address:	· · · · · · · · · · · · · · · · · · ·
	OPERATOR OF ANY NATURAL GAS ET (18 A) Protection
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

4709502540 API NO. 47- 095 11/09/2018 OPERATOR WELL NO. Gauge Unit 3H Well Pad Name: Rush Fork 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.

RECEIVED Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental of Oil and Gas Additional information related to horizontal drilling may be obtained from the Secretary, at the 17, 2014 at the 17, 2014 Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-AUG 15 2018

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

WW-6A (8-13) **4709 025** API NO. 47-095 - <u>11/09/2018</u> OPERATOR WELL NO. <u>Gauge Unit 3H</u> Well Pad Name: <u>Rush Fork Pad</u>

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450 Office of Oil and Gas AUG 15 2018

WV Department of Environmental Protection

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

WW-6A (8-13)



#### 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-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

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

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

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

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

WW-6A (8-13)

API NO. 47- 095 OPERATOR WELL NO. Gauge Well Pad Name: Rush Fork Pad

### Notice is hereby given by:

Well Operator: Antero Resource	
Telephone: (303) 357-7310	leflitto
Email: mgriffith@anteroresources.	.com

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

#### **Oil and Gas Privacy Notice:**

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

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

Subscribed and sworn before me this 4 day of 4 day.	VIST 2018
(mann.	_Notary Public
My Commission Expires MTM2Ch 13,21	02.2

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AUG 1 5 2018

# WW-6A Notice of Application Attachment (Rush Fork Pad): 47 0 9 1 1/09/2918 0

List of Owners with Proposed Disturbance associated with Rush Fork Pad:

Water Sour	ce Owners –	
W1 (1337') &	& W2 (1198.5')	
Owner: Address:	Shawn Huffman 8378 Wick Rd Middlebourne, WV 26149	
W4 (1496.8')		
Owner: Address:	Richard Brightwell 8571 Wick Rd Middlebourne, WV 26149	
W6 (1421')		
Owner:	Brenda Mays	
Address:	8809 Wick Rd Middlebourne, WV 26149	
W9 (1381.3')	$\sim$	
Owner:	Joseph R. Rymer Jr.	Please note there are 7
Address:	3326 Rush Fork Rd	additional water sources
	Middlebourne, WV 26149	identified on the attached map,
		however they are located
W13 (945.7')		greater than 1500' from the
Owner:	Wesley Smith	proposed well location.
Address:	3152 Rush Fork Rd	proposed wen location.
	Middlebourne, WV 26149	
W14 (1256.7	")	
Owner:	Allen Moore	
Address:	1986 Rush Fork Rd	
	Middlebourne, WV 26149	

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AUG 1 5 2018

WV Departer Environmental Pro 100

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-ON HEF SUE GR/ ELL 1 2 3 4 5 5 7 7 3 9 9 10 11	IGITUDE SHOWN REON BASED ON BMETER MAPPIN ADE DGPS. SURFACE OWN SHAWN HUFFMAI SHAWN HUFFMAI COMMUNITY CHURCH RICHARD BRIGHT STEPHEN HENDE BRENDA MAYS STEPHEN HENDE RICHARD KIRKBR JOSEPH RYMER STEPHEN HENDE THERESA WELLS	G JER N N H OF JESUS CHRIST TWELL ERSON ERSON RIDE JR ERSON	ADDRESS           8378 WICK           8378 WICK           207 FAIRVII           8571 WICK           27 HOG RU           8809 WICK           27 HOG RU           3326 RUSH           27 HOG RU           8872 WICK	RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 N RD, MIDDLEBOURNE, WV 26149 FORK RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149	W2 N 4 B 5 4 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	WELL LATITUDE 39°24'53.83" 39°24'53.83" 39°24'47.94" 39°24'43.32" 39°24'43.32" 39°24'48.57" 39°24'44.99" 39°24'44.99" 39°24'44.99" 39°24'44.99" 39°24'44.99" 39°24'49.95" 39°24'49.95"	WELL LONGITUDE 80°57'56.27" 80°57'56.27" 80°57'58.71" 80°58'13.43" 80°58'13.45" 80°58'14.40" 80°58'13.44" 80°58'23.14" 80°58'23.14" 80°58'24.86" 80°58'24.86" 80°58'24.50"
HEF	IGITUDE SHOWN REON BASED ON BMETER MAPPIN ADE DGPS. SURFACE OWN SHAWN HUFFMAI SHAWN HUFFMAI COMMUNITY CHURCH RICHARD BRIGHT STEPHEN HENDE BRENDA MAYS STEPHEN HENDE RICHARD KIRKBR JOSEPH RYMER STEPHEN HENDE THERESA WELLS PHILLIP HAMILTO	G JER N N H OF JESUS CHRIST TWELL ERSON ERSON RIDE JR ERSON	ADDRESS           8378 WICK           8378 WICK           207 FAIRVII           8571 WICK           27 HOG RU           8809 WICK           27 HOG RU           3326 RUSH           27 HOG RU           8872 WICK           8872 WICK           8944 WICK           3152 RUSH	RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149	W2 M2 M4 DIST-TM-PAR 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-8-3 6-8-34.1 6-8-34.5 6-8-35 6-8-36 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-34.5 6-8-36 6-8-35 6-8-36 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-7.10 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 7-8 7-8 7-8 7-8 7-8 7-8 7-8 7-8	WELL LATITUDE 39°24'53.83" 39°24'53.52" 39°24'47.94" 39°24'47.11" 39°24'47.11" 39°24'48.57" 39°24'48.57" 39°24'48.99" 39°24'49.95" 39°24'49.95" 39°24'49.95" 39°24'49.60" 39°24'48.50" 39°24'48.50" 39°24'459.03"	WELL LONGITUDE 80°57'56.27" 80°57'56.27" 80°57'58.71" 80°58'14.40" 80°58'19.48" 80°58'19.48" 80°58'19.48" 80°58'21.49" 80°58'24.86" 80°58'21.29" 80°58'24.86" 80°58'24.56" 80°58'24.56" 80°58'24.56"
LON HEF SUE GR/ ELL 1 2 3 4 5 5 6 7 7 3 9 10 11 12 13 14	IGITUDE SHOWN REON BASED ON BMETER MAPPIN ADE DGPS. SURFACE OWN SHAWN HUFFMAI SHAWN HUFFMAI SHAWN HUFFMAI COMMUNITY CHURCH RICHARD BRIGHT STEPHEN HENDE BRENDA MAYS STEPHEN HENDE RICHARD KIRKBR JOSEPH RYMER STEPHEN HENDE THERESA WELLS PHILLIP HAMILTO WESLEY SMITH ALLEN MOORE	G JER N N H OF JESUS CHRIST TWELL ERSON ERSON RIDE JR ERSON	ADDRESS           8378 WICK           8378 WICK           8378 WICK           207 FAIRVII           8571 WICK           27 HOG RU           8809 WICK           27 HOG RU           8326 RUSH           27 HOG RU           8872 WICK           8944 WICK           3152 RUSH           1986 RUSH	RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 EW DR, ST. MARYS, WV 26170 RD, MIDDLEBOURNE, WV 26149 N RD, MIDDLEBOURNE, WV 26149 N RD, MIDDLEBOURNE, WV 26149 N RD, MIDDLEBOURNE, WV 26149 N RD, MIDDLEBOURNE, WV 26149 FORK RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 RD, MIDDLEBOURNE, WV 26149 FORK RD, MIDDLEBOURNE, WV 26149 FORK RD, MIDDLEBOURNE, WV 26149 FORK RD, MIDDLEBOURNE, WV 26149	W2 M2 M4 DIST-TM-PAR 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-33.1 6-8-8-3 6-8-34.1 6-8-34.5 6-8-35 6-8-36 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-34.1 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-34.5 6-8-36 6-8-35 6-8-36 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-35 6-8-7.10 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 6-8-2.3 7-8 7-8 7-8 7-8 7-8 7-8 7-8 7-8	WELL LATITUDE 39°24'53.83" 39°24'53.52" 39°24'47.94" 39°24'47.11" 39°24'47.11" 39°24'44.99" 39°24'44.99" 39°24'44.99" 39°24'44.99" 39°24'44.99" 39°24'49.95" 39°24'49.95" 39°24'49.60" 39°24'48.50" 39°24'48.50"	WELL LONGITUDE 80°57'56.27" 80°57'56.27" 80°57'58.71" 80°58'14.40" 80°58'19.48" 80°58'19.48" 80°58'19.48" 80°58'21.49" 80°58'24.86" 80°58'21.29" 80°58'24.86" 80°58'24.56" 80°58'24.56" 80°58'24.56"
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Operator Well No.	11/00/2010
Operator Well No. Multiple Wells on Rushi	Fork Pad
	~ 40

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 04/26/2018 Date Permit Application Filed: 08/14/2018

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

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

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

Name:	Joseph R. Rymer Jr.	Name:
Address:	3326 Rush Fork Rd.	Address:
	Middlebourne, WV 26149	

#### Notice is hereby given:

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

State:	West Virginia	UTMINAD 02	Easting:	502629m	
County:	Tyler	UTM NAD 83	Northing:	4363059m	
District:	Meade	Public Road Acc	cess:	CR 7	
Quadrangle:	Middlebourne 7.5'	Generally used f	arm name:	Joseph R. Rymer Jr.	
Watershed:	Outlet Middle Island Creek				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

#### Notice is hereby given by:

Well Operator:	Antero Resources Corporation	Authorized Representative:	Megan Griffith	
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.	
	Denver, CO 80202		Denver, CO 80202	OfficeRECEIVED
Telephone:	303-357-7310	Telephone:	303-357-7310	Office of Oil and Gas
Email:	mgriffith@anteroresources.com	Email:	mgriffith@anteroresour	
Facsimile:	303-357-7315	Facsimile:	303-357-7315	102018
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WV Department of Environmental Protection

## Oil and Gas Privacy Notice:

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

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 08/14/2018 Date Permit Application Filed: 08/14/2018

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

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

(at the address listed in the records of the sheriff at the time of notice):

Name:	Joseph R. Rymer Jr.	Name:
Address:	3326 Rush Fork Road	Address:
, ruuress.	Middlebourne, WV 26149	

#### 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	sting:	502629m	
County:	Tyler	- UTM NAD 83 No.	rthing:	4363059m	
District:	Meade	Public Road Access:		CR 7	
Quadrangle:	Middlebourne 7.5	Generally used farm	name:	Joseph R. Rymer Jr.	
Watershed:	Outlet Middle Island 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	
Telephone:	(303) 357-7310		Denver, CO 80202	
Email:	mgriffith@anteroresources.com	Facsimile:	303-357-7315	

#### Oil and Gas Privacy Notice:

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

WV Department of Environmental Protection

4709 02540



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **Division of Highways**

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

**Reissued August 8, 2018** 

Thomas J. Smith, P. E. Secretary of Transportation/ **Commissioner of Highways** 

> Jill M. Newman **Deputy Commissioner**

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 Rush Fork Pad, Tyler County Gauge Unit 3H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0200 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off of Tyler County Route 7 SLS.

The 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 January 3, 2012.

Very Truly Yours,

Dary K. Clayton

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

Office of Oil and Gas AUG 15 7018 WV Department of Environmental Protection

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

File

# List of Anticipated Additives Used for Fracturing or 11/09/2018 Stimulating Well 4709 02540

Additives	Chemical Abstract Service Number (CAS #)	
Fresh Water	7732-18-5	
Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
mmonium Persulfate	7727-54-0	
nionic copolymer	Proprietary	
ionic polymer	Proprietary	
TEX Free Hydrotreated Heavy Naphtha	64742-48-9	
ellulase enzyme	Proprietary	
emulsifier Base	Proprietary	
hoxylated alcohol blend	Mixture	
hoxylated Nonylphenol	68412-54-4	
thoxylated oleylamine	26635-93-8	
thylene Glycol	107-21-1	
lycol Ethers	111-76-2	
juar gum	9000-30-0	
ydrogen Chloride	7647-01-0	
ydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
opropyl alcohol	67-63-0	
guid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	
icroparticle	Proprietary	
etroleum Distillates (BTEX Below Detect)	64742-47-8	
lyacrylamide	57-55-6	
opargyl Alcohol	107-19-7	
opylene Glycol	57-55-6	
artz	14808-60-7	
lica, crystalline quartz	7631-86-9	
dium Chloride	7647-14-5	
dium Hydroxide	1310-73-2	
	57-50-1	
igarirfactant	68439-51-0	
uspending agent (solid)	14808-60-7	
ar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
vivent Naphtha, petroleum, heavy aliph	64742-96-7	
bybean Oil, Me ester	67784-80-9	
pybean Oil, Me ester popolymer of Maleic and Acrylic Acid	52255-49-9	
ETA phosphonate	15827-60-8	
	34690-00-1	
examthylene Triamine Penta	71050-62-9	
examethylene Diamine Tetra	23605-75-5	
	9003-06-9	
Propenoic acid, polymer with 2 propenamide	22605 74 5	
examethylene diamine penta (methylene phosphonic acid)	23605-74-5	
iethylene Glycol	111-46-6	
lethenamine	<u> </u>	
olyethylene polyamine	100-97-0 68603-67-8 61791-14-8	
Coco amine		
-Propyn-1-olcompound with methyloxirane	38172-91-7	

Inent of Protection

