

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Tuesday, July 13, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for HEINTZMAN 5H 47-095-02741-00-00

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: Farm Name: U.S. WELL NUMBER: HEINTZMAN 5H DENNIS & CLISTA HEINTZN 47-095-02741-00-00 New Drill Date Issued: 7/13/2021

Promoting a healthy environment.

## **PERMIT CONDITIONS**

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

#### CONDITIONS

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

## **PERMIT CONDITIONS**

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

API NO. 47-095	 02-	<u>74</u>

OPERATOR WELL NO. Heintzman Unit 5H Well Pad Name: Heintzman Pad

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

					/
1) Well Operator: Antero Reso	urces Corpora		095 - Tyler		Porter Falls 7.5' Quadrangle
	ataman Linit ELL	Operator ID	County		
2) Operator's Well Number: Hein		Well Pac	I Name: Heint	2man Fau	(
3) Farm Name/Surface Owner:	Dennis & Clista Heint	<sup>zman</sup> Public Roa	d Access: CR	11	
4) Elevation, current ground: 1	230' Ele	evation, proposed	post-constructi	on: <u>~1197</u>	./
5) Well Type (a) Gas X	Oil	Unde	erground Storag	ge	
Other					
(b)If Gas Shal	low <u>X</u>	Deep			
Hori	zontal X				DNH
6) Existing Pad: Yes or No Yes			_		6-17-21
7) Proposed Target Formation(s), Marcellus Shale: 7000' TVD, Ar	•	-	-		ч 
8) Proposed Total Vertical Depth	: 7100' TVD 🤇				
9) Formation at Total Vertical De					
10) Proposed Total Measured De	pth: 7100' MD				
11) Proposed Horizontal Leg Ler	ngth: 0' *Open	to modification at	t a later date*		
12) Approximate Fresh Water Str	rata Depths:	70', 125'			
13) Method to Determine Fresh V	Water Depths: _C	)ffset well records. De	pths have been ac	justed accord	ing to surface elevations.
14) Approximate Saltwater Deptl	hs: 1420' 🧹				
15) Approximate Coal Seam Dep	oths: <u>58</u>				
16) Approximate Depth to Possib	ole Void (coal mi	ne, karst, other):	None Anticipa	ted	
17) Does Proposed well location directly overlying or adjacent to a		ns Yes	No	x	
(a) If Yes, provide Mine Info:	Name:				
( ), <b>r</b>	Depth:				RECEIVED Gas
	Seam:	·····	······	Offic	
	Owner:			]	UN 2 2 2021
	<u>.                                    </u>			Env	NV Department of Fronmental Protection



API NO. 47-095 0274

WW-6B (04/15)

### 18)

## CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or Used	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	90	90	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#	7000	7000	1518 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

					Dm 17		
					6° n	- 5 /	
ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<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	Lөэ∂-Ң₽ОZ & Та±- Н	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		RECEIVED Office of Oil and Gas

JUN 22 2021

WV Department of Environmental Protection

Page 2 of 3 07/16/2021

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OPERATOR WELL NO. Heintzman Unit 5H

Well Pad Name: Heintzman Pad

API NO. 47- 095	02	741
OPERATOR WEL	L NO.	Heintzman Unit 5H
Well Pad Name	: Heintz	man 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.



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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 56.03 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.82 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)	API Number 47 - 095 _ 0274/	
A State of the Sta	Operator's Well No. Heintzman Unit 5H	
	OF WEST VIRGINIA ENVIRONMENTAL PROTECTION	
	CE OF OIL AND GAS	
FLUIDS/ CUTTINGS	DISPOSAL & RECLAMATION PLAN	
Operator Name Antero Resources Corporation	OP Code 494507062	
Watershed (HUC 10) Outlet Middle Island Creek	Quadrangle Porter Falls 7.5'	
Do you anticipate using more than 5,000 bbls of water to o	complete the proposed well work? Yes No No	
Will a pit be used? Yes No 🖌	t will be used at this site (Dnilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled of	alte i
It so, please describe anticipated pit waste.		
Will a synthetic liner be used in the pit? Yes	No V If so, what ml.? N/A	Daul
Proposed Disposal Method For Treated Pit Waste	es:	DMH
Land Application	100 Permit # will be provided on Form WP-34	6-17-01
	Permit Number *UIC Permit # will be provided on Form WR-34 ermitted well locations when applicable. API# will be provided on Form WR-34	-
	n WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-)	(032-98)
Other (Explain	Northwestern Landfill Permit #SWF- WV0109410	
Will closed loop system be used? If so, describe: Yes, flu	uids stored in tanks, cuttings removed offsite and taken to landfill.	
Drilling medium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc.	d Wud
-If oil based, what type? Synthetic, petroleum, et	tc. Synthetic	
Additives to be used in drilling medium? Please See Attac	shment	
Drill cuttings disposal method? Leave in pit, landfill, rem		landfill.
-If left in pit and plan to solidify what medium w		
	wfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV01	09410)
-Landin of onsite name/permit number?		
	and Gas of any load of drill cuttings or associated waste rejected vided within 24 hours of rejection and the permittee shall also di	
on August 1, 2005, by the Office of Oil and Gas of the We provisions of the permit are enforceable by law. Violatic law or regulation can lead to enforcement action. I certify under penalty of law that I have perso application form and all attachments thereto and that, obtaining the information, I believe that the information penalties for submitting false information, including the per-	and conditions of the GENERAL WATER POLLUTION PER est Virginia Department of Environmental Protection. I understa- ons of any term or condition of the general permit and/or other onally examined and am familiar with the information submit based on my inquiry of those individuals immediately resp n is true, accurate, and complete. I am aware that there are ossibility of fine or imprisonment.	and that the r applicable ited on this onsible for
Company Official Signature Gretchen Kohler	RECEIV Office of Oil a	
Company Official (Typed Name) Gretchen Kohler		
Company Official Title Senlor Environmental & Regulatory	Manager JUN 2-2	2021
	w∨ Departm Environmental I	
Subscribed and sworn before me this 8th day	of June, 2021	-
Alexandrax an Hut	Notary Public	
My commission expires JLUY 23, 20	ALEXANDR	IA CASTILLO Y PUBLIC COLORADO 20184029703
	MY COMMISSION E	KPIRES JULY 23,

## 47 095 02741

Form WW-9

Operator's Well No. Heintzman Unit 5H

Antero F	Resources	Corporation
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Proposed Revegetation Treatment: Acres Disturbed 56.03 acres		cres Prevegetation p	н
Lime 2-4	Tons/acre or to correct to pH	6.5	
Fertilizer type	raw or Wood Fiber (will be used v	where needed)	
Fertilizer amount 500	lb	s/acre	
Mulch 2-3		as) + Well Pad (10.81 acres) + Water Containment	Pad (6.93 acres) + Excess/
	•	ckpiles (18.64 acres) = 56.03 Acres <mark>d Mixtures</mark>	
Temp	orary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional se	ed type (Heintzman Pad Design)	See attached Table IV-4A for additional	seed type (Heintzman Pad Design)
*or type of grass seed reque	ested by surface owner	*or type of grass seed requ	lested by surface owner

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.

Plan Approved by:	·····
Comments:	
	······
	RECEIVED Office of Oil and Gas
Title: <u>Dil + Ger Taspledre</u> Date: <u>6-17-21</u> Field Reviewed? ( <u>)</u> Yes ( <u>)</u> No	JUN 2 2 2021
Field Reviewed? () Yes () No	WV Department of Environmental Protection

## 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 Office of Oil and Gas
	Sodium Hydroxide – Alkalinity Control
10.	Mil-Lime JUN 0 9 2021
	Calcium Hydroxide – Lime
11.	LD-9 WV Department of Environmental Protection
	Polyether Polyol – Drilling Fluid Deloamer
12.	Mil Mica
	Hydro-Biotite Mica – LCM

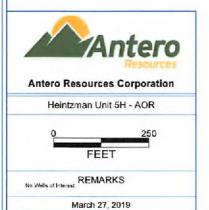
13. Escaid 110	
Drilling Fluild Solvent – Aliphatic	Hydrocarbon
14. Ligco	
Highly Oxidized Leonardite – Filte	ration Control Agent
15. Super Sweep	
Polypropylene – Hole Cleaning Ag	ent
16. Sulfatrol K	
Drilling Fluid Additive – Sulfonate	d Asphalt Residuum
17. Sodium Chloride, Anhydrous	
Inorganic Salt	
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-Base	ed Muds
22. Xan-Plex D	
Polysaccharide Polymer – Drilling	Fluid Viscosifier
23. Walnut Shells	
Ground Cellulosic Material – Grou	nd 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 Con	ntrol Agent
28. Clay Trol	11
Amine Acid complex – Shale Stabi	lizer
29. Sulfatrol	1 4 14:4:
Sulfonated Asphalt – Shale Control	I Additive
30. Xanvis	
Viscosifier For Water-Based Muds	
31. Milstarch	latar Dagad Muda
Starch – Fluid Loss Reducer For W 32. Mil-Lube	aler based ividus
	RECEIVED
Drilling Fluid Lubricant	Office of Oil and Gas
	· · · · · ·

## JUN 09 2021

WV Department of Environmental Protection HEINTZMAN UNIT 5H (HEINTZMAN PAD) - AREA OF REVIEW 35-8-5.11 PAGE 1

# Heintzman Unit 5H

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JUN 0 9 2021

WV Department of Environmental Protection

47 095 02741



911 Address 2176 Elk Fork Road Middlebourne, WV 261497

# Well Site Safety Plan

## Antero Resources

Well Name: Heintzman Unit 5H

Pad Location: HEINTZMAN PAD

Tyler County/Ellsworth District

## **GPS Coordinates:**

DmH 4-17-21

Entrance - Lat 39.539881'/ Long -80.887809' (NAD83) Pad Center - Lat 39.543105'/ Long -80.855716 (NAD83)

## **Driving Directions:**

From the U.S Post Office in Middlebourne, head east on Dodd St toward Fair St for 364 ft. Turn left onto WV-18 N/Main Street for 4.2 miles. Turn right onto WV-180 N for 0.5 miles, lease road will be on your right.

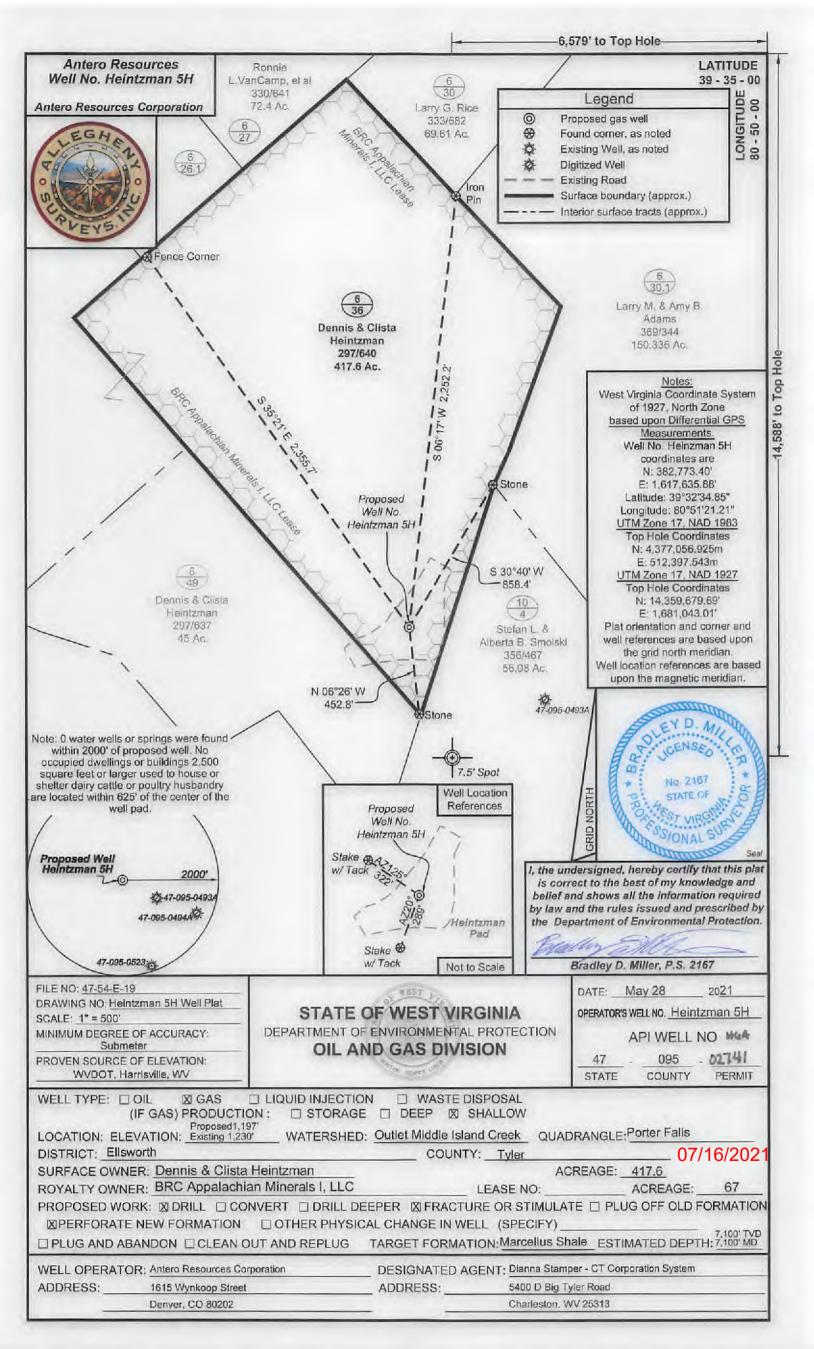
# Alternate Route:

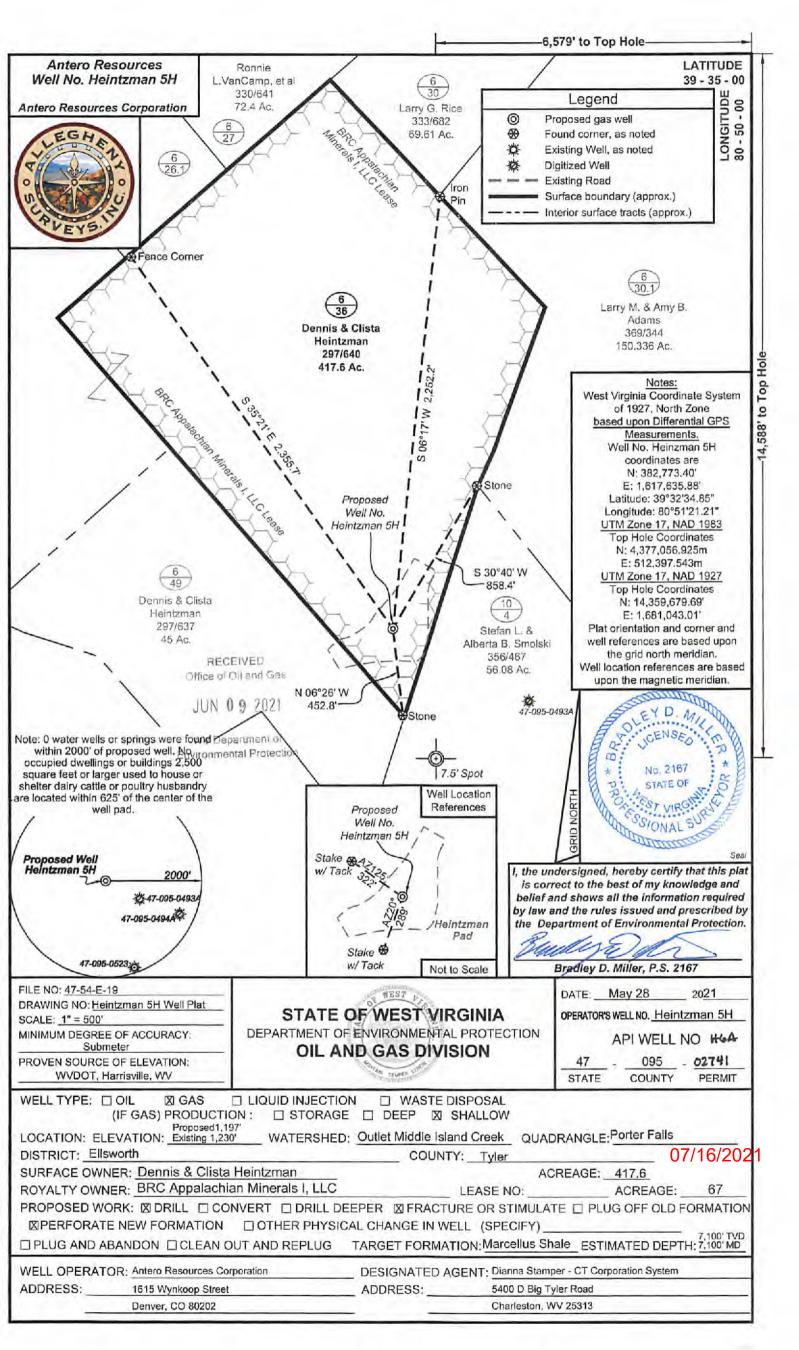
From the U.S Post Office in Sistersville, head southeast on Wells Street toward Elizabeth Street for 72 ft. Turn left at the 1st cross street onto Elizabeth Street. Elizabeth Street turns right & becomes WV-2 S/Chelsea Street for 1 mile. Continue straight onto WV-18S for 6.9 miles. Turn left onto WV-180 N for 0.5 miles, lease road will be on your right.

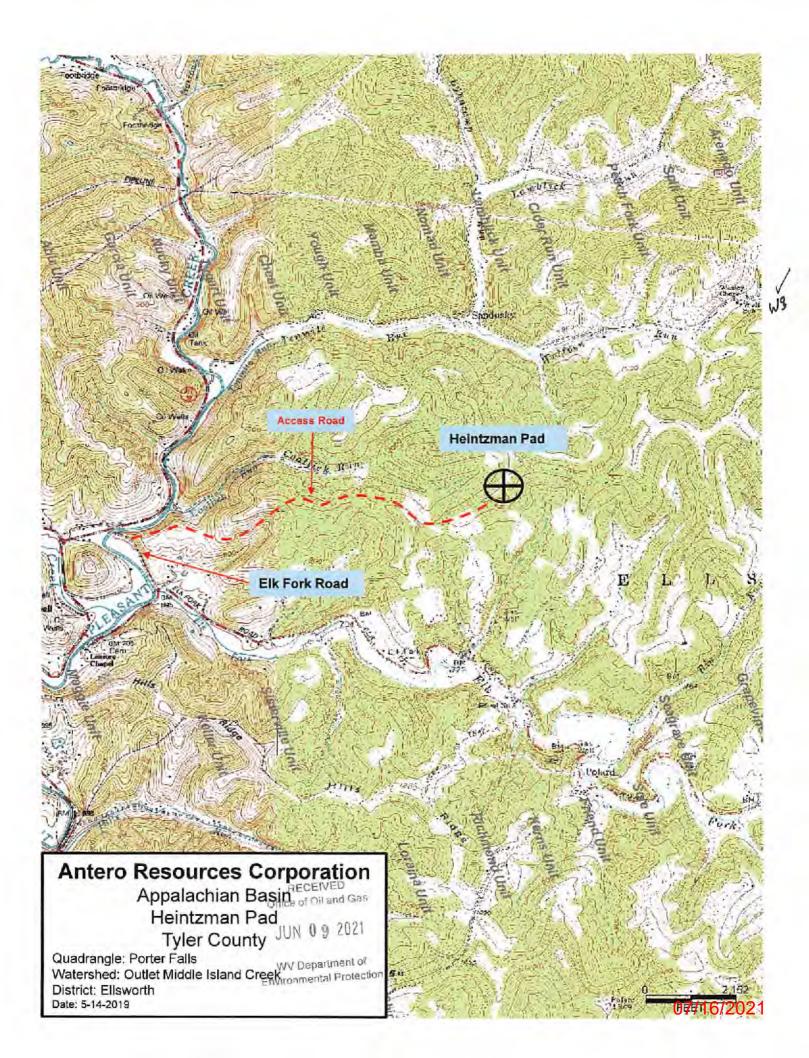
# EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

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JUN 2-2 2021







Operator's Well Number Heintzman Unit 5H

#### 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
BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/07084
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	SWN Production Company LLC	Merger	0009/0404
SWN Production Company LLC	Antero Exchange Properties	Assignment	0544/0242
Antero Exchange Properties	Antero Resources Corporation	Merger	0525/0315

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JUN 09 2021

WV Department of Environmental Protection

\*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.



WW-6A1 (5/13) Operator's Well No. Heintzman Unit 5H

#### 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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- (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
BRC Appalachian Minerals I LL	Clease			
	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
	BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
	Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
	SWN Exchange Titleholder LLC	SWN Production Company LLC	Merger	0009/0404
	SWN Production Company LLC	Antero Exchange Properties	Assignment	0544/0242
	Antero Exchange Properties	Antero Resources Corporation	Merger	0525/0315

\*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 initiatedRECEIVED Office of Oil and Gas

Well Operator:	Antero Resources Corpora	ation IIIN 0 a coord
By:	Tim Rady	JUN 09 2021
Its:	VP of Land	WV Department of
		Environmental Protection

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<sup>07/16/2021</sup> 

## 4709502741



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

June 8, 2021

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: Heintzman Unit 5H Quadrangle: Porter Falls 7.5' Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Heintzman Unit 5H 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 Heintzman Unit 5H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

THOMAS KUHN

Thomas Kuhn Senior Staff Landman

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JUN 0 9 2021

WV Department of Environmental Protection

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

Date of Notice Certification: 06/07/2021

API No. 47- 095	- 02741	H6A
<b>Operator's Well N</b>	D. Heintzman Unit 5H	1
Well Pad Name:	Heintzman Pad	

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#### Notice has been given:

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

State:	West Virginia	UTM NAD 83	Easting:	512397.543m
County:	Tyler	UTWINAD 65	Northing:	4377056.925m
District:	Elisworth	Public Road Access:		CR 11
Quadrangle:	Porter Falls 7.5'	Generally used t	farm name:	Dennis & Clista Heintzman
Watershed:	Outlet Middle Island Creek			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (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	
3. NOTICE OF INTENT TO DRILL or ONTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION     RECEIVED	
5. PUBLIC NOTICE     Office of Oil and Gas	
G. NOTICE OF APPLICATION     JUN 0 9 2021     WV Department of	□ RECEIVED

Environmental Protection

#### **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.

WW-6AC (1/12)

#### Certification of Notice is hereby given:

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	
By:	Diana Hoff Diana O. Hoff		Denver, CO 80202	
Its:	SVP Operations 00	Facsimile:	303-357-7315	
Telephone:	303-357-7310	Email:	mstanton@anteroresources.com	
	NOTARY SEAL Subs	cribed and swo	orn before me this 8th day of JUNE.	

ALEXANDRIA CASTILLO	Subscribed and sworn before me this 8 <sup>th</sup> day of <u>JUNE</u> Alexandral (15 tttt Notary Public	3
STATE OF COLORADO NOTARY ID 20184029703 MY COMMISSION EXPIRES JULY 23, 2022	My Commission Expires July 23, 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 <u>depprivacyofficer@wv.gov</u>.

RECEIVED Office of Oil and Gas

JUN 0 9 2021

WV Department of Environmental Protection

WW-6A (9-13)

4	70	95	02	74	1
API NO. 47- 095		02	741	1	
OPERATOR WE	ELLN	NO. H	eintzman	Unit 5H	
Well Pad Name:	Heint	man Pa	d		

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

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

	e of Notice: <mark>6/8/2021</mark> ice of:	Date Permit Applica	tion Filed: 6/8/2021
Ø	PERMIT FOR ANY WELL WORK		CATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Del	ivery method pursua	nt to West Virginia C	ode § 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
			an the filing date of the application, the applicant for a permit for any well work or for a poundment or pit as required by this article shall deliver, by personal service or by

rvice 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) Name: PLEASE SEE ATTACHMENT	COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Address:	Address:	
Name:	COAL OPERATOR	
Address:	Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:	RECEIVED Office of Oil and Gas
SURFACE OWNER(s) (Road and/or Other Disturbance)	12.00	0.01.6
Name: PLEASE SEE ATTACHMENT Address:	UWATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE	JUN 0 9 2021
	Name: NO DECLARATIONS ON RECORD WITH COUNTY	WV Department of
Name:	Address:	Environmental Protection
Address:		
	OPERATOR OF ANY NATURAL GAS STORA	AGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:		
	*Please attach additional forms if necessary	

API NO. 47- 095 02741 OPERATOR WELL NO. Heintzman Unit 5H Well Pad Name; Heintzman 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 D Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/ails GBS and-gas/pages/default.com/

JUN 0 9 2021

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within sixon 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)

## 4709502741

API NO. 47-095 - 0274 OPERATOR WELL NO. Heintzman Unit 5H Well Pad Name: Heintzman Pad

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

JUN 09 2021

WV Department of

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 fiftcen, 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.

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WV Department of Environmental Protection

WW-6A (8-13)

470950274	1
API NO. 47-095 - 02741	
OPERATOR WELL NO. Heintzman Unit 5	H
Well Pad Name: Heintzman Pad	_

#### Notice is hereby given by:

Telephone: (303) 357	7310 Diana O. Hoff
----------------------	--------------------

Address: 16	15 Wynkoop Street	
De	nver, 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 <u>depprivacyofficer@wv.gov</u>.



Subscribed and sworn before me this 8th day of June,	2021
Alexandría X Cotilie	Notary Public
My Commission Expires July 23, 2022	

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JUN 0 9 2021

WV Department of Environmental Protection

## WW-6A Notice of Application to Surface Owner Attachment:

## Surface Owners:

Tax Parcel ID: 2-6-36 & 2-6-49

Owner: Dennis & Clista Heintzman Address: 7223 Tyler Highway Sistersville, WV 26175

Tax Parcel ID: 2-6-30.1

Owner: Larry M. & Amy B. Adams Address: 115 Stealey Street Middlebourne, WV 26149

Tax Parcel ID: 2-10-4

<b>Owner:</b>	Stefan L. & Alberta B. Smolski	r
Address:	510 Pittsburgh Avenue	
	Fairmont, WV 26554	

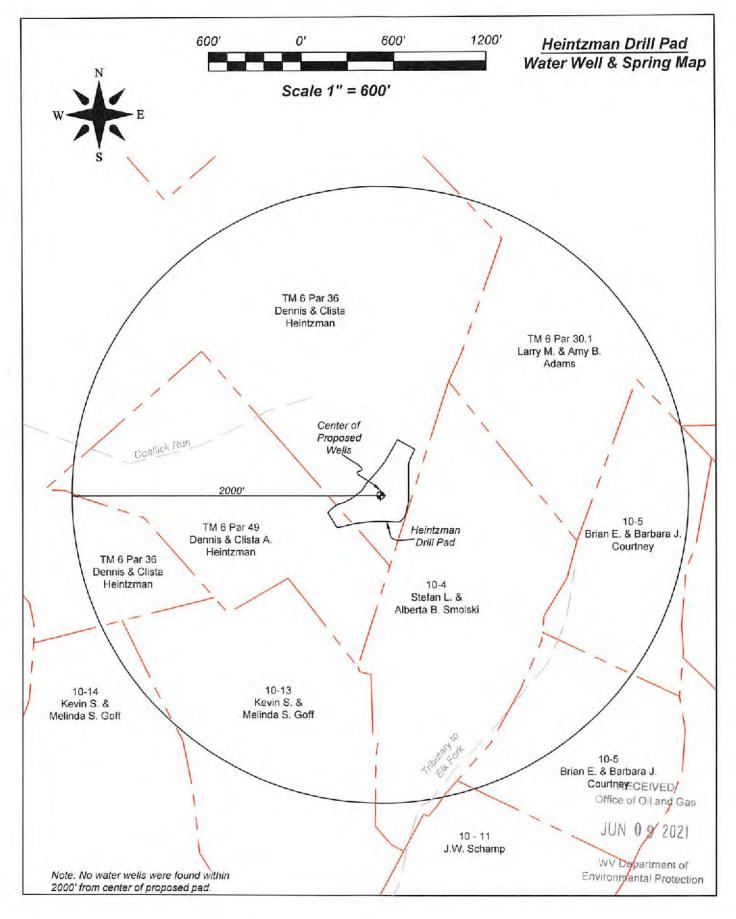
#### Tax Parcel ID: 2-10-13, 2-10-3 & 2-10-14

Owner:	Charity Gas Inc.	
Address:	9844 Meathouse Fork Road	
	Salem. WV 26426	

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JUN 0 9 2021

WV Department of Environmental Protection



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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 05/24/2021 Date Permit Application Filed: 06/08/2021

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

HAND	=	CERTIFIED MAIL
DELIVERY		RETURN RECEIPT REQUESTED

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

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

Name: PLEASE SEE ATTACHMENT	Name:
Address:	Address:

#### 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	UTM NAD 83	Easting:	512397.543m	
County:	Tyler	UTMINAD 83	Northing:	4377056.925m	
District:	Ellsworth	Public Road Acc	ess:	CR 11	
Quadrangle:	Porter Falls 7.5'	Generally used fa	arm name:	Dennis Heintzman et al	
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:

Antero Resources Appalachian Corporation	Authorized Representative:	Mallory Stanton
1615 Wynkoop St.	Address:	1615 Wynkoop St.
Denver, CO 80202	5	Denver, CO 80202
303-357-7223	Telephone:	303-357-7223
mstanton@anteroresources.com	Email:	mstanton@anteroresources.com
303-357-7315	Facsimile:	303-357-7315
	1615 Wynkoep St. Denver, CO 80202 303-357-7223 mstanton@anteroresources.com	1615 Wynkoop St.     Address:       Denver, CO 80202     Telephone:       303-357-7223     Telephone:       mstanton@anteroresources.com     Email;

#### **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.

Office of Oil and Gas

JUN 1 4 2021

WV Dopartine 2021 Environmental Protection

## WW-6A4 Notice of Intent to Drill Attachment:

## Surface Owners:

Tax Parcel ID: 2-6-36 & 2-6-49

<b>Owner:</b>	Dennis & Clista Heintzman
Address:	7223 Tyler Highway
	Sistersville, WV 26175

Tax Parcel ID: 2-6-30.1

Owner: Larry M. & Amy B. Adams Address: 115 Stealey Street Middlebourne, WV 26149

Tax Parcel ID: 2-10-4

Owner:	Stefan L. & Alberta B. Smolski
Address:	510 Pittsburgh Avenue
	Fairmont, WV 26554

#### Tax Parcel ID: 2-10-13, 2-10-3 & 2-10-14

Owner:	Charity Gas Inc.	1
Address:	9844 Meathouse Fork Road	
	Salem, WV 26426	

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JUN 0 9 2021

WV Department of Environmental Protection



WW-6A5 (1/12) 910950 2741 Operator Well No. Heintzman Unit 5H

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 06/08/2021 Date Permit Application Filed: 06/08/2021

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

•	CERTIFIED MAIL
	RETURN RECEIPT REQUESTED

HAND DELIVERY

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

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

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

Name: Please see attachment	Name:		
Name: Please see attachment Address:	Address:		

#### 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:	512397.543m	
County:	Tyler	UTMINAD 83	Northing:	4377056.925m	
District:	Elisworth	Public Road Acc	ess:	CR 11	
Quadrangle:	Porter Falls 7.5'	Generally used fa	arm name:	Dennis & Clista Heintzman	
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 www.dep.ww.gov/oil\_and-gas/pages/default.aspx.

Antero Resources Corporation	Address:	1615 Wynkoop Street	JUN 0 9 2021
(303) 357-7310		Denver, CO 80202	0
mstanton@antercresources.com	Facsimile:	303-357-7315	WV Department of
	(303) 357-7310	(303) 357-7310	(303) 357-7310 Denver, CO 80202

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>deprivacyofficer@wv.gov</u>.

# 474950224741

### WW-6A5 Notice of Planned Operation Surface Owner Attachment:

#### **Surface Owners:**

Tax Parcel ID: 2-6-36 & 2-6-49

Owner:Dennis & Clista HeintzmanAddress:7223 Tyler HighwaySistersville, WV 26175

Tax Parcel ID: 2-6-30.1

Owner: Larry M. & Amy B. Adams Address: 115 Stealey Street Middlebourne, WV 26149

Tax Parcel ID: 2-10-4

Owner: Stefan L. & Alberta B. Smolski Address: 510 Pittsburgh Avenue Fairmont, WV 26554

Tax Parcel ID: 2-10-13, 2-10-3 & 2-10-14

Owner: Charity Gas Inc. Address: 9844 Meathouse Fork Road Salem, WV 26426

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JUN 1 4 2021

WV Department of Environmental Protection 07/16/2021 WW-6AW (1-12)

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

#### Instructions to Persons Named on Page WW-6A

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

#### **Comment and Waiver Provisions**

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

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

### VOLUNTARY STATEMENT OF NO OBJECTION

I, \_\_\_\_\_\_, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	LITMANAD 82	Easting:	512397.543m	
County:	Tyler	UTM NAD 83	Northing:	4377056.925m	-
District:	Elisworth	Public Road Acces	ss:	CR 11	
Quadrangle:	Porter Falls 7.5	Generally used far	m name:	Dennis & Clista Heintzman	
Watershed:	Outlet Middle Island Creek				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

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

#### 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>.



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

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

June 2, 2021

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

Subject: DOH Permit for the Heintzman Pad, Tyler County Heintzman Unit 5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0767 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 11/6 SLS MP 0.33.

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

Very Truly Yours,

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

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JUN 0 9 2021

WV Department of Environmental Protection

Cc: Mallory Stanton Antero Resources CH, OM, D-6 File

07/16/2021

E.E.O./AFFIRMATIVE ACTION EMPLOYER

# 4709502741 List of Anticipated Additives Used for Fracturing or **Stimulating Well**

Additives	Chemical Abstract Service Number (CAS #)	
Fresh Water	7732-18-5	
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
Ammonium Persulfate	7727-54-0	
Anionic copolymer	Proprietary	
Anionic polymer	Proprietary	
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	
Cellulase enzyme	Proprietary	
Demulsifier Base	Proprietary	
Ethoxylated alcohol blend	Mixture	
Ethoxylated Nonylphenol	68412-54-4	
Ethoxylated oleylamine	26635-93-8	
Ethylene Glycol	107-21-1	
Glycol Ethers	111-76-2	
Guar gum	9000-30-0	
Hydrogen Chloride	7647-01-0	
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
Isopropyl alcohol	67-63-0	
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	
Microparticle	Proprietary	
Petroleum Distillates (BTEX Below Detect)	64742-47-8	
Polyacrylamide	57-55-6	
Propargyl Alcohol	107-19-7	
Propylene Glycol	57-55-6	
Quartz	14808-60-7	
Sillica, crystalline quartz	7631-86-9	
Sodium Chloride	7647-14-5	
Sodium Hydroxide	1310-73-2	
Sugar	57-50-1	
Surfactant	68439-51-0	
Suspending agent (solid)	14808-60-7	
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester	67784-80-9	
Copolymer of Maleic and Acrylic Acid	52255-49-9	
DETA phosphonate	15827-60-8	
Hexamthylene Triamine Penta	34690-00-1	
Phosphino Carboxylic acid polymer	71050-62-9	
Hexamethylene Diamine Tetra	23605-75-5	RECEIVED
2-Propenoic acid, polymer with 2 propenamide		RECEIVED
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	
Diethylene Glycol	111-46-6 JU	IN 09 2071
Methenamine	100-97-0	•
Polyethylene polyamine	68603-67-8 W	Department of mental Protection
Coco amine	61791-14-8	
2-Propyn-1-olcompound with methyloxirane	38172-91-7	

