

west virginia department of environmental protection

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

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

Thursday, August 23, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for HEINTZMAN UNIT 3H

47-095-02528-00-00

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: HEINTZMAN UNIT 3H

Farm Name: TYRONE L. BEEM

U.S. WELL NUMBER: 47-095-02528-00-00

Horizontal 6A New Drill

Date Issued: 8/23/2018

API Number:

4709502528

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.

API Number:

PERMIT CONDITIONS 4709502528

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 -	
OPERATOR WELL	NO. Heintzman Unit 3H
Well Pad Name:	Pyle Run Pad
47095	112528

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

1) Well Operate	or: Antero	Resources	Corporat	49450	7062	095 - Tyler	Centervill	Middlebourne 7.5
	•				ator ID	County	District	Quadrangle
2) Operator's V	Vell Numbe	r: Heintzmaı	n Unit 3H		_ Well Pad	Name: Pyle	Run Pad	
3) Farm Name/	Surface Ow	mer: Tyrone	L. Beem,	et al	Public Roa	d Access: Be	arsville-Mol	e Hole
4) Elevation, cu	rrent groun	nd: 1115'	Ele	evation,	proposed p	post-construct	ion:	
5) Well Type	(a) Gas Other	X	_ Oil	·	Unde	rground Store	ige	
	(b)If Gas	Shallow Horizontal	X		Deep			NB V d
6) Existing Pad	: Yes or No	Yes					1.An 17 1-24	7 7 25 2018
7) Proposed Tai Marcellus Sh	_		• • •	-		nd Expected Fitted Pressure-	ressure(s):	
8) Proposed To	tal Vertical	Depth: 6800	OVT 'C					
9) Formation at	Total Verti	ical Depth:	Marcellus					
10) Proposed To	otal Measur	red Depth: 1	7400' MI)				
11) Proposed H	orizontal La	eg Length: 1	10400'					
12) Approximat	te Fresh Wa	iter Strata Dej	oths:	301', 3	32'			
13) Method to I	Determine F	resh Water D	epths: O	ffset well	records. Dep	ths have been a	djusted according	ng to surface elevations.
14) Approximat	e Saltwater	Depths: 674	4', 1584'					
15) Approximat	e Coal Sear	n Depths: 81	11'					
16) Approximat	e Depth to	Possible Void	l (coal mir	ne, karsı	t, other): N	lone Anticipa	ited	
17) Does Propos directly overlyin				18 Ye		No	, <u>X</u> .	
(a) If Yes, pro	vide Mine I	nfo: Name:						
_		Depth:						
		Seam:						
		Owner				Hece	BIVED	

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API NO. 47095	
OPERATOR WELL NO.	Heintzman Unit 3H
Well Pad Name: Pylo f	W 57 5 2 C

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80'	80'	CTS, 218 Cu. Ft.
Fresh Water	13-3/8°	New	J-55	54.5#	385' *see #19	385' *see #19	CTS, 348 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	17400'	17400'	4012 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners		-					

A 15/2016

DMH 7-25-11

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	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"	0.361"	12,630	2500	Lead-HIPCZ & Tall - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

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API NO. 47-085	
OPERATOR WELL NO	Heintzman Unit 3H
Well Pad Name: Pyle	Run Pad

4709 102528

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 freshwater 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): 29.70 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 10.67 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:

Conductor: blowhole clean with air, run casing, 10 bbis 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 bbis fresh water followed by 25 bbis bentonite mud, 10 bbis 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 cash, 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.

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HEINTZMAN UNIT 3H (PYLE RUN PAD) - AREA OF REVIEW 35-8-5.11 PAGE 2

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JUL 1 9 2018

WW-9 (4/16)

API Number 47 - 095

Operator's Well No. Heintzman Unit 3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Outlet Middle Island Creek	OP Code 494507062
	Quadrangle Middieboume 7.5'
Do you anticipate using more than 5,000 bbls of water to complete	the proposed well work? Yes V No
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste: No pt will be used at t	his site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No	If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	GYP.
Land Application	417
	mber_*UIC Permit # will be provided on Form WR-34
	tocations when applicable. API# will be provided on Form WR-34
Off Site Disposal (Supply form WW-9 form CExplain	mber_*UIC Permit # will be provided on Form WR-34 locations when applicable. API# will be provided on Form WR-34 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/ WV0109410
Will closed loop system be used? If so, describe: Yes	
Orilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etc. Surfare-Airfreshwater, intermediate-busins from m. Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, etc. N/A	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsi	ite. etc. Stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used	
-Landfill or offsite name/permit number? Meadowfill Landfill (F	
-Landill or offsite name/permit number?	-enint #397-1032-00), No. III Western Landini (Fernitt # 397-1020/9790 1054-10)
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	
on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any aw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examplication form and all attachments thereto and that, based on obtaining the information, I believe that the information is true, a	term or condition of the general permit and/or other applicable mined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant
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Field Reviewed?

Form WW-9 Operator's Well No. Heintzman Unit 3H **Antero Resources Corporation** Proposed Revegetation Treatment: Acres Disturbed 29.70 acres Prevegetation pH Lime 2-4 Tons/acre or to correct to pH 6.5 Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Access Road A -2178' (10.94 acres) + Access Road B-54' (0.09 acres) + Access Road C - 92' (0.15 acres) + Staging Area (1.77 acres) + Well Pad (10.67 acres) + Excess/Topsoil Material Stockpiles (6.08 acres) = 29.70 Total Affected Acres **Seed Mixtures** Permanent **Temporary** lbs/acre Seed Type lbs/acre Seed Type 20 **Annual Ryegrass** 40 KY Bluegrass 3 Field Bromegrass 40 Redtop See attached Table IV-3 for additional seed type (Pyle Run Pad Design Pg 23) See attached Table IV-3 for additional seed type (Pyle Run Pad Design Pg 23) *or type of grass seed requested by surface owner *or type of grass seed requested 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 x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:

Oila Gas Inspector Date: 1/25

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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 Congor 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)

c (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

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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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911 Address 785 Stull Hill Rd Alma, WV 26320

Well Site Safety Plan Antero Resources

Well Name: Heintzman Unit 1H - 3H, Beem Unit 3H,

Spock Unit 1H - 3H

りつくいろ

Pad Location: PYLE RUN PAD

Tyler County/Centerville District

GPS Coordinates:

Entrance - Lat 39°23′51.4968″/Long -80°54′27.3882″ (NAD83)

Pad Center - Lat 39°24′0.0036″/Long -80°54′14.5614″ (NAD83)

Driving Directions:

From the Intersection of I79 and HWY 50 near Bridgeport: 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 for 0.4 miles. Turn right onto WV18N/Sistersville Pike for 12.2 miles. Turn left onto WV-74 for 3.7 miles. Turn right onto Stull Hill Rd for 1.0 miles. Continue onto Big Shank Rd for 0.8 miles. Continue onto Big Sanka Rd for 0.9 miles. The access road will be on your right.

Alternate Route:

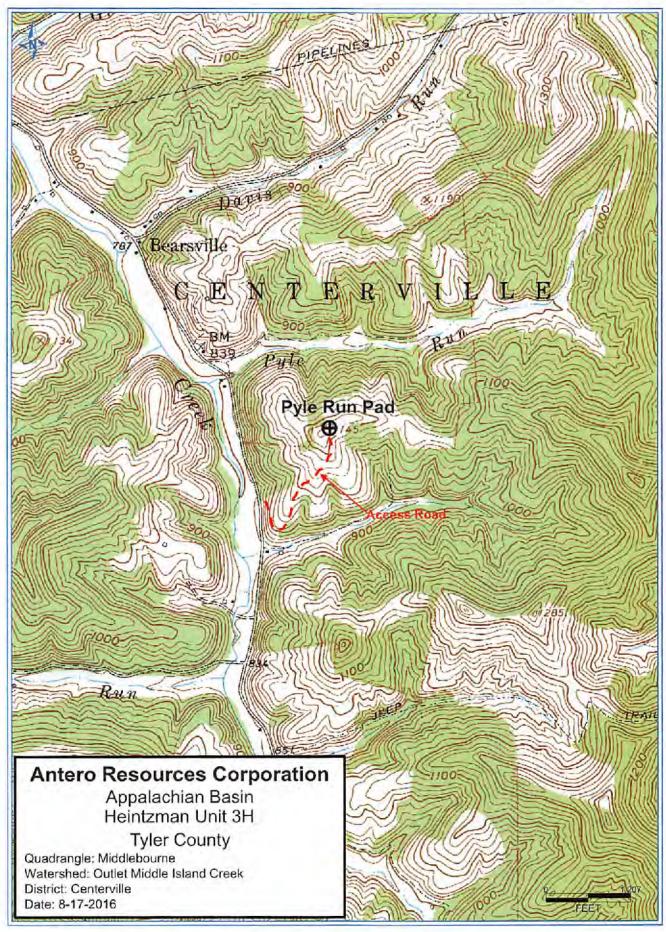
From the Middlebourne Volunteer Fire department: Head SW on WV-18 S/Main St towards Wilcox Ave for 0.3 miles. Turn right onto Bridgeway Rd for 0.1 miles. Turn left onto Middlebourne-Wick/Wick Rd for 2.0 miles. Turn left onto Middlebourne-Wick for 4.1 miles. Turn left onto Bearsville Rd for 1.8 miles. Continue onto Big Sanka Rd for 0.8 miles. The access road will be on the left.

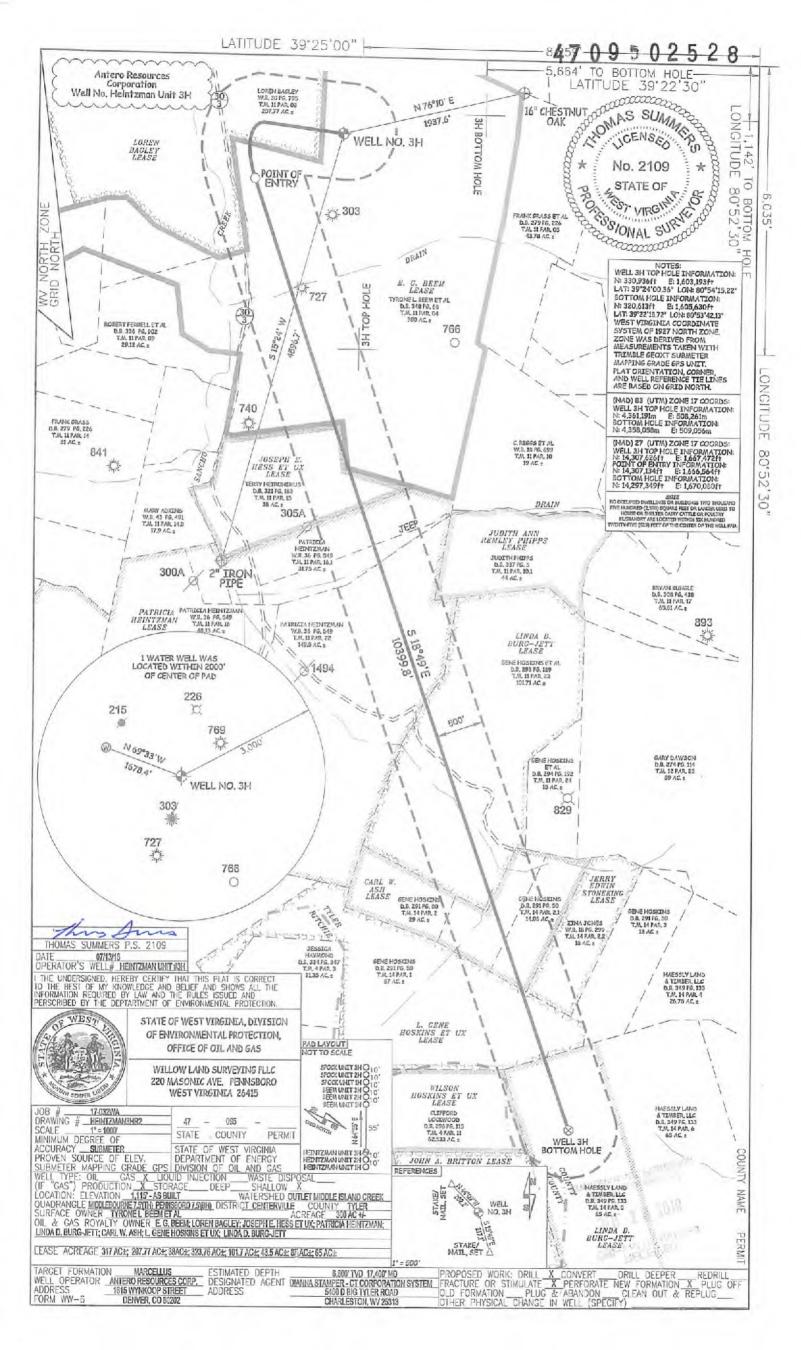
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

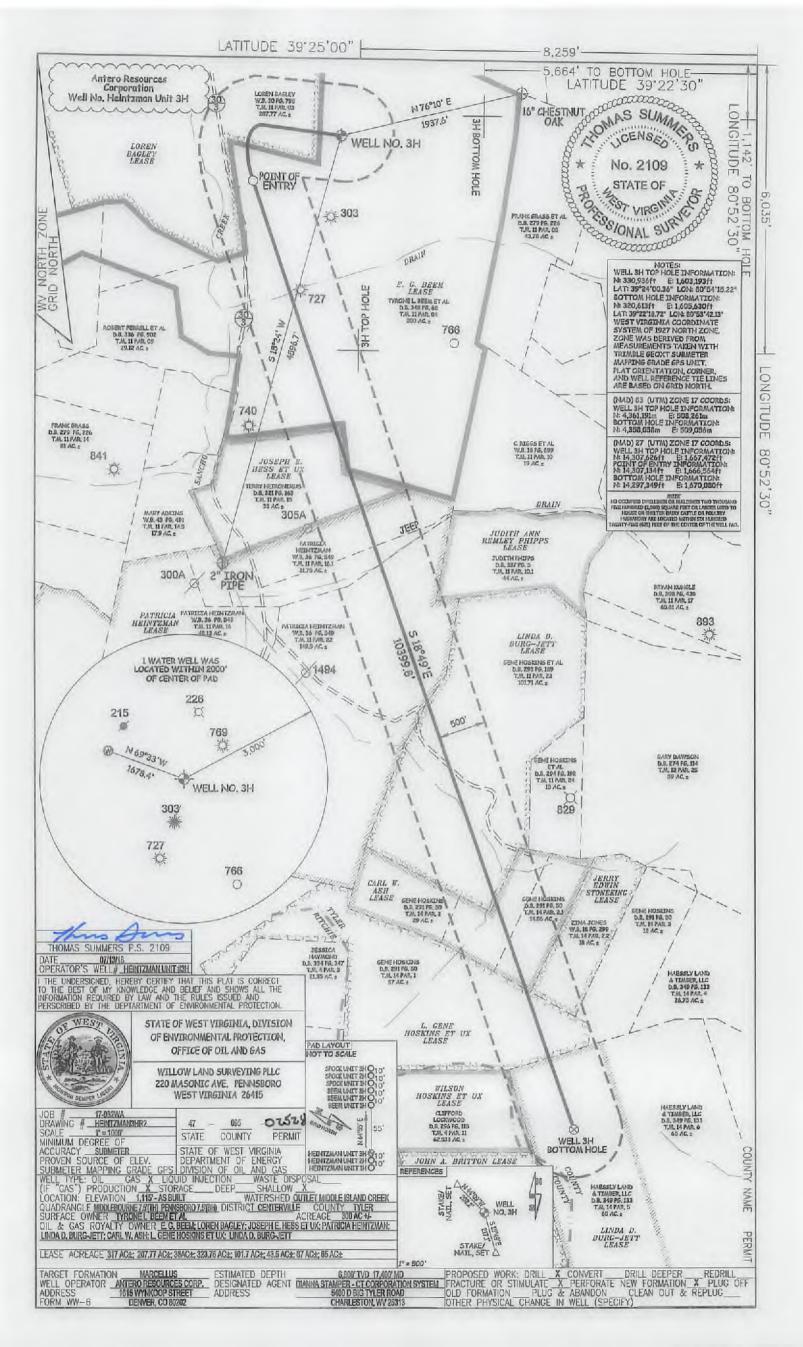
JUL 2 6 2018

Office of Oil and Gas

WV Dept. of Environmental Protection







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
E.G. Beem Lease			
E.G. Beem	Warren R. Haught	1/8	0213/0662
Warren R. Haught	Sancho Oil & Gas Corporation	Assignment	0369/0506
Sancho Oil & Gas Corporation	Antero Resources Corporation	Assignment	0436/0177
<u>Loren Bagley Lease</u> Loren Bagley	Antero Resources Corporation	1/8+	0493/0760
Joseph E. Hess, et ux Lease Joseph E. Hess	Antero Resources Corporation	1/8+	0452/0299
Patricia Heintzman (TM 11-16) Lease		410	0205/0214
Patricia Heintzman aka Patricia A. Heintzman	Antero Resources Appalachian Corporation	1/8+	0395/0314 Exhibit 1
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	EXHIBIT 1
<u>Linda D. Burg-Jett Lease</u> Linda D. Burg-Jett	Antero Resources Corporation	1/8+	0401/0640
<u>Carl W. Ash Lease</u> Carl W. Ash	Antero Resources Corporation	1/8+	0507/0819
L. Gene Hoskins, et ux Lease L. Gene Hoskins	Antero Resources Corporation	1/8+	0479/0728

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

WW-6A1 (5/13)

Operator's Well No. Hemizman Unit on	Operator's Well No.	Heintzman Unit 3H
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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
Linda D. Burg-Jett Lease				
	Linda D. Burg-Jett	Antero Resources Appalachian Corp.	1/8+	0401/0640
	Antero Resources Appalachian Corp.	Antero Resources Corporation	Name Change	Exhibit 1

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

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

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

WV Division of Water and Waste Management

WV Division of Natural Resources WV Division of Highways

- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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WV Department of Environmental Protection

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

	Antero Resources Corporation	
By:	Kevin Kilstrom	
Its:	SR Vice President - Production	

FILED

Natallo B. Tennant. Secretary of State 1900 Kanawha Bivd E Bldg 1, Suite 157-K Charleston, WV 25305

FILE ONE ORIGINAL (Two if you want a Bled . stamped copy returned to you) FEE: \$25:00



AMENDED CERTIFICATE

OF AUTHORITY.

Penney Barker, Manager IN THE OFFICE OF Corporations Division CRETARY OF STATE Tel: (304)558-8000

Website: www.wysos.com E-mall: business@wysos.com

Office Hours: Monday - Friday 8:30 a.m. - 5:00 p.m. BT

**** In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby **** applies for an Amended Certificate of Authority and submits the following statement: 1. Name under which the corporation was Antero Resources Appalachian Corporation authorized to transact business in WV: Date Certificate of Authority was 6/25/2008 issued in West Virginia: Antero Resources Corporation Corporate name has been changed to: (Attach one Certified Copy of Name Change as filed in home State of incorporation.) Antero Resources Corporation Name the corporation elects to use in WV: (due to home state name not being available) Other amendments: (attach additional pages if necessary) Name and phone number of contact person. (This is optional, however, if there is a problem with the filing, listing a contact person and phone number may avoid having to return or reject the document.) (303) 357-7310 Alwn A. Schopp Contact Name Phone Number 7. Signature information (See below *Important Legal Notice Regarding Signature): Title/Capacity: Authorized Person Print Name of Signer; Akyn A. Schop Date: June 10, 2013 Signature: **Important Leval Notice <u>Reparitus Stanatur</u>e*: Fer West Virginia Code <u>631D-1-129</u>, Penalty for signing false decument.

Any person who signs a document he or she knows is thise in any materiel respect and knows that the document is to be delivered to the secretary of state for filing is guilty of a misdemessor and, upon conviction thereof, shall be fixed not more than one thousand dollars or confined in the county or regional jall not more than one year, or both.

Form CF-4

listed by the Office of the Secretary of Sinte

Revised 4/13

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JUL 1 9 2018



July 17, 2018

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

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

RE:

Heintzman Unit 3H

Quadrangle: Middlebourne 7.5'

Tyler County/Centerville District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Heintzman 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 from all leases through which the Heintzman 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

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JUL 1 9 2018

Date of Notice Certification: 07/17/2018

API No. 47- 095

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

			Operator's	Well No. Heint	zman Unit 3H
				Name: Pyle Ru	
	been given: ne provisions in West Virginia Code { tract of land as follows:	§ 22-6A, the Operator has prov	vided the rec	quired parties v	vith the Notice Forms listed
State:	West Virginia		Easting:	508261m	
County:	Tyler	UTM NAD 83	Northing:	4361191m	
District:	Centerville	Public Road Acce	_	Bearsville-Mole H	łole
Quadrangle:	Middlebourne 7.5'	Generally used fa		Tyrone L. Beem,	et al
Watershed:	Outlet Middle Island Creek				
prescribed by it has provid information r of giving the requirements Virginia Cod	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface described equired by subsections (b) and (c), set surface owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall thave been completed by the applicant	chall contain the following information bed in subdivisions (1), (2) a section sixteen of this article; (in article pursuant to subsection (of this article were waived in tender proof of and certify to the	ormation: (1 and (4), sub- i) that the re (a), section writing by	4) A certificating section (b), section (b), section (c), section (c), section (d),	on from the operator that (i) ction ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice wner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require		his Notice C	Certification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	/EY or 🔳 NO PLAT SURVI	EY WAS C	ONDUCTED	□ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR IT WAS CONDUCTED OF			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER I (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			CE OWNER	RECEIVED
l	TICE OF PLANNED OPERATION BLIC NOTICE			CE OWNER	RECEIVED

Required Attachments:

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

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JUL 19 2018

Its:

Certification of Notice is hereby given:

THEREFORE, I 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

By: Kevin Kilstrom

SR Vice President - Production

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: kcox@anteroresources.com

MARINARO SEAL NOTARY PUBLIC STATE OF COLORADO

NOTARY ID 20184014160 MY COMMISSION EXPIRES MARCH 29, 2022 Subscribed and sworn before me this 17 da

Notary Public

My Commission Expires 3/20

Oil and Gas Privacy Notice:

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

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API NO. 47-499 0 9 5 0 2 5 2 8 OPERATOR WELL NO. Heintzman Unit 3H Well Pad Name: Pyle Run Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 7/18/2018 Date Permit Application Filed: 7/18/2018 RECEIVED Office of Oil and Gas Notice of: JUL 19 2018 PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT WW Department of **Environmental Protection** Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A **PERSONAL** MAIL RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** 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: ☐ COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: PLEASE SEE ATTACHMENT Address: Address: COAL OPERATOR Name: Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: PLEASE SEE ATTACHMENT ☐ SURFACE OWNER OF WATER WELL NOTE: There is 1 water AND/OR WATER PURVEYOR(s) Address: source identified, however Name: NONE IDENTIFIED WITHIN 1500' it is located greater than 1500' from the proposed Address: Name: well location. Address: □ OPERATOR OF ANY NATURAL GAS STOR. ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

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JUL 1 9 2018

PINO. 47-095 7 0 9 5 0 2 5 2 8

OPERATOR WELL NO. Heintzman Unit 3H Well Pad Name: Pyle Run Pad

WV Department of Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gow/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

API NO. 47-4657 0 9 5 0 2 5 2 8

OPERATOR WELL NO. Heintzman Unit 3H

Well Pad Name: Pyle Run Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

JUL 1 9 2018

Office of Oil and Gas

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.

4709502528

OPERATOR WELL NO. Heintzman Unit 3H
Well Pad Name: Pyle Run Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

JUL 1 9 2018

PINO. 47-0957 0 9 5 0 2 5 2 8

OPERATOR WELL NO. Heintzman Unit 3H Well Pad Name: Pyle Run Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

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

Address: 1615 Wynkoop St

Denver, CO 802002

Facsimile: (303) 357-7315

Oil and Gas Privacy Notice:

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

KARIN COX

NOTARY PUBLIC

STATE OF COLORADO

NOTARY ID 20184014160

MY COMMISSION EXPIRES MARCH 29, 2022

Subscribed and sworn before me this R day of Notary Public

My Commission Expires 3/29/2022

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JUL 19 2018

WW-6A Notice of Application Attachment (Pyle Run Pad):4709502528

List of Owners with Proposed Disturbance associated with Pyle Run Pad:

SURFACE OWNERS – All owners were notified of all well work permits applications, and have executed signed Surface Use Agreements with Antero Resources Corporation.

Owner:

Loren Bagley

Address:

\ 2543 Conaway Run Road

Alma, WV 26320

Owner: Address: David I. Beem and Bonita Beem

924 Tremont St

Dover, OH 44622

Owner:

Tyrone L. Beem and Diane J. Beem

Address:

924 Tremont St Dover, OH 44622

SURFACE OWNERS (Road and/or Other Disturbance) – All owners have executed signed Surface Use and/or Road Agreements with Antero Resources Corporation. However, they were only notified if their tract(s) were overlying the oil and gas leasehold being developed by the proposed well work.

Owner:

Loren Bagley

Address:

2543 Conaway Run Road

Alma, WV 26320

Owner:

David I. Beem and Bonita Beem

Address:

924 Tremont St Dover, OH 44622

Owner:

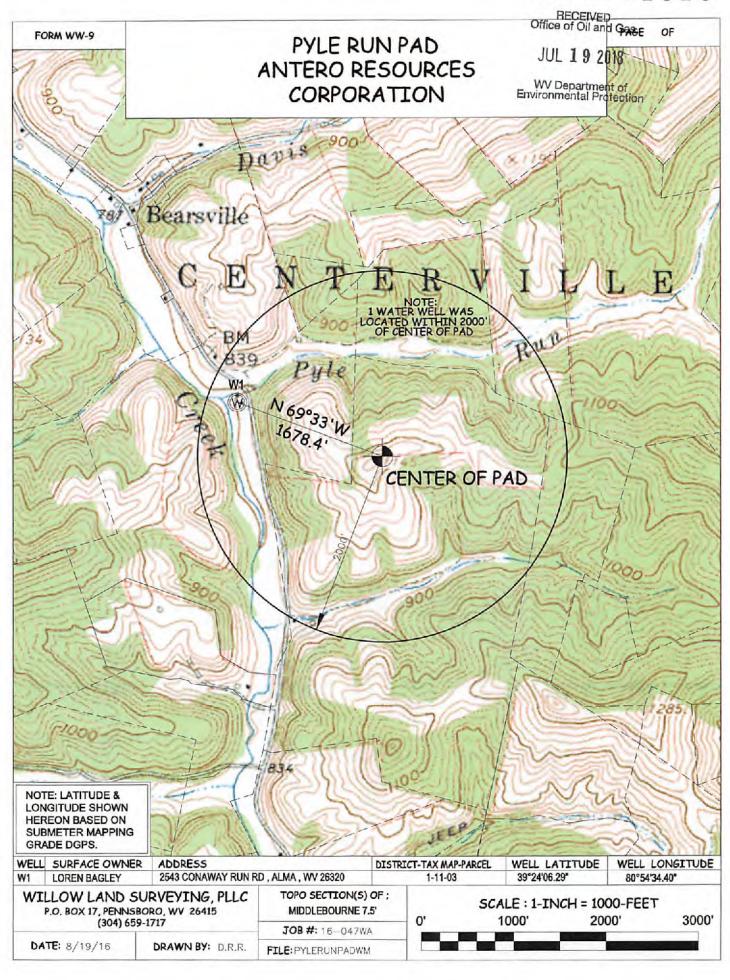
Tyrone L. Beem and Diane J. Beem

Address:

924 Tremont St Dover, OH 44622

> RECEIVED Office of Oil and Gas

JUL 1 9 2018



WW-6A4 (1/12)

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.

Delivery method pursuant to West Virginia Code § 22-6A-16(b) HAND		Requirement: Notice shall be provided	at least TEN (10) days prior to filing a ermit Application Filed: 07/18/2018	permit application.
Delivery method pursuant to West Virginia Code § 22-6A-16(b) HAND	Date of Noti	Date 1	erinit Application Filed.	RECEIVED
DELIVERY RETURN RECEIPT REQUESTED Wy Department of Environmental Protection 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. 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:	Delivery met	hod pursuant to West Virginia Code §	22-6A-16(b)	Office of Oil and Gas
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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: Vest 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: County: Tyler UTM NAD 83 Easting: Northing: 4361191m District: Centerville Public Road Access: Bearsville-Mole Hole Quadrangle: Middlebourne 7.5' Generally used farm name: Tyrone L Beem et al Watershed: Oullet Middle Island Croek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Antero Resources Corporation Authorized Representative: Karin Cox Address: 1615 Wynkoop St. Denver, CO 80202 Telephone: 303-357-6820 Telephone: 303-357-6820 Email: kcox@anteroresources.com	receipt reque- drilling a hor of this subsec- subsection m- and if availab	sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was provided by be waived in writing by the surface of le, facsimile number and electronic mail	when notice of its intent to enter upon the pursuant to subsection (a), section te ed to the surface owner: <i>Provided, how</i> when. The notice, if required, shall included address of the operator and the operator	ne surface owner's land for the purpose of in of this article satisfies the requirements ovever. That the notice requirements of this aude the name, address, telephone number,
Address: Address	Name: PLEA	SE SEE ATTACHMENT		
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: Northing: 4361191m				
County: Tyler Northing: 436-191m District: Centerville Public Road Access: Bearsville-Mole Hole Quadrangle: Middlebourne 7.5' Generally used farm name: Tyrone L Beem et al This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Antero Resources Corporation Authorized Representative: Address: 1615 Wynkoop St. Denver, CO 80202 Telephone: 303-357-6820 Email: kcox@anteroresources.com Notice Shall Include: Telephone: 303-357-6820 Email: kcox@anteroresources.com	Pursuant to V the surface ov State:	Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a logical Virginia	norizontal well on the tract of land as fo Easting:	llows: 508261m
Quadrangle: Middlebourne 7.5' Generally used farm name: Tyrone L Beem et al This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Antero Resources Corporation Authorized Representative: Karin Cox Address: 1615 Wynkoop St. Address: 1615 Wynkoop St. Denver, CO 80202 Denver, CO 80202 Telephone: 303-357-6820 Telephone: 303-357-6820 Email: kcox@anteroresources.com			Northing:	
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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Antero Resources Corporation Authorized Representative: Address: 1615 Wynkoop St. Denver, CO 80202 Telephone: 303-357-6820 Email: kcox@anteroresources.com Email: kcox@anteroresources.com		The same of the sa		
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Well Operator: Antero Resources Corporation Authorized Representative: Karin Cox Address: 1615 Wynkoop St. 1615 Wynkoop St. Denver, CO 80202 Denver, CO 80202 Telephone: 303-357-6820 Email: kcox@anteroresources.com Authorized Representative: Karin Cox Denver, CO 80202 Denver, CO 80202 Telephone: 303-357-6820 Email: kcox@anteroresources.com	Pursuant to 'facsimile nur related to hor	West Virginia Code § 22-6A-16(b), thin ther and electronic mail address of the fizontal drilling may be obtained from the	e operator and the operator's authorize the Secretary, at the WV Department of	ed representative. Additional information f Environmental Protection headquarters,
Well Operator: Antero Resources Corporation Authorized Representative: Karin Cox Address: 1615 Wynkoop St. 1615 Wynkoop St. Denver, CO 80202 Denver, CO 80202 Telephone: 303-357-6820 Email: kcox@anteroresources.com Authorized Representative: Karin Cox Denver, CO 80202 Denver, CO 80202 Telephone: 303-357-6820 Email: kcox@anteroresources.com	Notice is he	reby given by:		
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Telephone: 303-357-6820 Telephone: 303-357-6820 Email: kcox@anteroresources.com Email: kcox@anteroresources.com	Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.
Email: kcox@anteroresources.com Email: kcox@anteroresources.com				Denver, CO 80202
	Telephone:	303-357-6820	Telephone:	303-357-6820
Facsimile: 303-357-7315 Facsimile: 303-357-7315	Email:	kcox@anteroresources.com	Email:	kcox@anteroresources.com
	Facsimile:	303-357-7315	Facsimile:	303-357-7315

Oil and Gas Privacy Notice:

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

WW-6A4 Notice of Intent to Drill Attachment:

4709502528

Surface Owner:

Tax Parcel ID: 1-11-3

Owner:

Loren Bagley

Address:

2543 Conaway Run Road

Alma, WV 26320

Surface Owner:

Tax Parcel ID: 1-11-4

Owner:

Tyrone L & Diane Beem

Address:

924 Tremont Street

Dover, OH 44622

Surface Owner:

Tax Parcel ID: 1-11-4

Owner:

David I & Bonita Beem

Address:

924 Tremont Street

Dover, OH 44622

RECEIVED Office of Oil and Gas

JUL 19 2018

Operator Well No. Heintzman Unit 3H

4709502528

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

Notice Time Date of Notice	Requirement: notice shall be provi ce: 07/18/2018 Date Per	ided no later than the filing mit Application Filed: 07/	date of permit	application. RECEIVED Office of Oil and Gas
Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)		JUL 19 2018
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		WV Department of Environmental Protecti
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	t requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas op	this subsection shall incluse this subsection shall incluse the of this article to a surfict distribution to the surface use and compensional to the extent the distribution to the surface owner and the surface owner in	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	ss listed in the records of the sheriff			
	E SEE ATTACHMENT	Name:		
Address:		Addres	s:	
operation on State: County:	the surface owner's land for the pur West Virginia Tyler	rpose of drilling a horizonta UTM NAD 8	al well on the tra Easting: Northing:	508261m 4361191m
District:	Centerville	Public Road		Bearsville-Mole Hole
Quadrangle: Watershed:	Middlebourne 7.5' Outlet Middle Island Creek	Generally us	ed farm name:	Tyrone L. Beem, et al
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may b, located at 601 57th Street, SE,	to a surface owner whose and compensation agreeme e extent the damages are con- be obtained from the Secre-	e land will be unt containing ar ompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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.

WW-6A5 Notice of Planned Operation Attachment (Pyle Run Pad):

List of Owners with Proposed Disturbance associated with Pyle Run Pad: 4709502528

SURFACE OWNERS -

Owner:

Loren Bagley

Address:

2543 Conaway Run Road

Alma, WV 26320

Owner:

David I. Beem and Bonita Beem

Address:

924 Tremont St

Dover, OH 44622

Owner:

Tyrone L. Beem and Diane J. Beem

Address:

924 Tremont St

Dover, OH 44622

RECEIVED Office of Oil and Gas

JUL 19 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

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

Reissued July 17, 2018

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 Pyle Run Pad, Tyler County Heintzman Unit 3H Well Site RECEIVED Office of Oil and Gas

JUL 19 2018

WV Department of Environmental Protection

Dear Mr. Martin,

Jim Justice

Governor

This well site will be accessed from a DOH permit #06-2014-0700 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off of Tyler County 30/3 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,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Karin Cox

Antero Resources Corporation

CH, OM, D-6

File

List of Anticipated Additives Used for Fracturing or Stimulating Well 4709502528

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamthylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	CEIVED 68603-67-8 Oil and Gas 61791-14-8
2-Propyn-1-olcompound with methyloxirane	1 9 2018 38172-91-7

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ENGINEERING

Antero

RUN

PYLE COVER PAD WELL

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DATE: 04/24/2018 SCALS AS SHOWN SHEET 1 OF 7

PYLE RUN WELL PAD & WATER CONTAINMENT PAD

LOCATION COORDINATES:
ACCESS ROAD OF SERVACE
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CENTERVILLE DISTRICT, TYLER COUNTY, WEST VIRGINIA. SANCHO CREEK WATERSHED

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USGS 7.5 MINDLEDDURNE QUAD MAP

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GENERAL DESCRIPTION

MISS UTILITY STATEMENT

CERTIFULE DE PAR LATTURE, DE 10000 L'ENGITUDE -BOLDMENT (NAU 12) LATTURE, 3000020 L'ENGITUDE -BOLDMEN (NAU 27) E 45417355 E 50020105 (DTV 2010 17 METERS)

GEOTECHNICAL NOTES:

A SURVINICAL INVESTIGATION OF THE SITE WAS PERIODENED OF PERSONALISMS SOIL & ROCK, INC.

ENTERIOR DEVERSIONERS IN DO A & SEPTIMITIES AS, COIN. THE REPORT PERSONALISMS SOIL & ROCK, INC.

ENCE, INC. DATES OCTOBER 44, 2014, REFLECTS THE RESOLUTE WITH SUBSURFACE OUTSTANDISMS.

BOCK, INC. PARTES OCTOBER 24, 2014, REFLECTS THE RESOLUTE WITH SUBSURFACE OUTSTANDISMS.

DIVINION OF RECOMMENDATIONS CONTINUED TO THE PERSONALISMS OF THE PERSONALISMS OF THE PERSONALISMS.

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PROJECT CONTACTS

OPERATOR

ANTINO RESOURCES COMPONATION
SEN WHERE CASE BLYD.

BRIGHTOFT, W. 20200

FAM. (204) 842-4100

FAM. (204) 862-4100

THE WARDNESS - PROPERTIES FOR PAGE CARD OFFICE (DE4) 042-4000 COL (DA4) 470-9770 JON WEEVERS - DPERATRONS SUPPRINTENTENT BITHUL (200) BOY-0750 ITEL (200) 000 2420

ALRON KINZZEN - CONSTRUCTION SUPERVISOR (ELL (606) ELT-0345

ROOTET 9 MUNT + FIELD LINCINGER PRYCE (304) 842-4139 COL [304] 527-7405

MARK MOLUCION - TURNEYING COORDINATOR OFFICE (304) 042-4150 DELL (304) 710-6449

RECHARD IN ER - LANT ADENT

DIGIUS S KUMP PE - PESIDET MANAGER/ENGINEES UPPER 1868) 862 4135 TILL 1540 668-6747

PNVIRONMENTAL ALLITHE ROCHORY LATALLITHE ROCHORY LATATABL WARD ENVIRONMENTAL SCIENTIST
UNVICE NEW 223 - 838 CELL (OM) 893 7477

GEOTECHNICAL
PIDOSYLVANIA SOIL & HOCK INC.
CHRISTOPHER B. FAMING - PHOJECT ENGINERAL
UTFUR 1450 373 4000 CELL 14521 549 0065

RESTRICTIONS NOTES DE LIGHT TANANG, TRUITED. THERE ARE NO PREZIONAL STREAMS LAKES, PONDS, OR RESERVOIRS WITHIN OR PETS OF THE WILL PAID AND LOD. THERE IS A WELLAND DEPOSIT THAT THAT THAT HAS PEEN PERDUTTED BY THE AUPROPRIATE ACRESSION.

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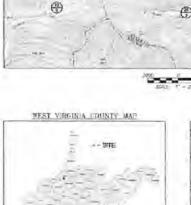
S. THERE ARE NO DOCUMED OWNERING STRUCTURES WITHIN SES ITEM OF THE CONTEN OF THE WILL FAD

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REPRODUCTION NOTE

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REFERENCE LONGRISH ATTACHED HISBOT RAVI,
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STEY VINCINE COOS OF STATE RUILEZ, DIVISION
OF ENGINEENTAL PROFECTION, OFFICE OF OIL
AND GRS CHE 35-0.



WELL PAD/ WATER CONTAINMENT PAD

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

SHEET INDEX:

- COVER SHEET INDEX
 LECTION
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 PLAN SHEET INDEX
 THE SHEET INDEX
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PYLE RUN LIMITS OF DISTURBANCE A	REA(AC)
Total Site	-
Access Flowd "A" (2,176)	10.94
Access Road "8" (54)	0.09
Access Road 'C" (92')	0.15
Staging Area	1.77
Wat Pad	10.67
Excess/Topsel Mesental Stockpiles	6.05
Total Affected Area	29.70
Total Wooded Acres Distanced	23.65
Impacts to Laren Bagley TM 11-	1
Access Road "B" (54")	0.06
Singing Area	1.74
WetPast	1.46
Express/Topsed Vateral Stockolles	5.01
Total Affected Area	8.21
Total Wooded Astres Disturbed	5.85
Impacts to Tyrone L. & Diana J. Stein	TM ST-F
Access Road "A" (2 178)	100
Access Road "B" (C')	0.01
Access Road C (NJ)	0,15
Staging Area	0.03
Wel Pad	0.10
Excess/Topanil Wateriet Stockpiles	1.07
Yetal Affected Area	21,21
Total Wooded Acres Disturbed	5760

Proposed Well Name	NAC IT	WAS ES	Zone 17	WAD BILLY & Long
Heinternin	N 230977 18	11/330001,66	11 4301189 07	LAT 29.04.00.5001.
Unit 111	E 1603174 BC	E 1571733.86	E 635258 42	LONG -80-51-84 9371
Heinberen	N 12551 42	N 337965 82	944303188-45	LAT 2042H CO 3904
Um 2H	B mineral ta	E (STITEZE)	E 305254 III	CONTRACTOR FIRE
Hisintaman	# 23XXX.90	N 13/4/12 16	01-1201100-74	VAT 29/24 00:8422
John 2H	E 1605187 JH	17 1671751 69	E 505260 10	LONG-80 EASH 8041
Beem	16 330607 47	14 3031001.00	N 490126078	LAT 39:34 805 901'S
Link 3H	E HUNDRY TO	E 157181981	E AGENTAL AN	CHILDRICATION TOTAL
Specia	PL2759/1.71	N 731001 21	14.8385200.12	LATERCHANDING
Upit 1H	IN MORROW IN	C 1571628 NT	E 109294 17	LONG STEA 12 SETS
Spock	PH 500975 RD	N 331018 A4	N 4301293 45	LAT SHOWEN CONT.
Unit 2H	T TRATETE AT	ET PERSON TOTAL	E 309376 50	LDMS-80-54-67-5167
Speci.	PH 330090 19	N 331014 56	14 438120479	LAT 300 F-01.0VC-2
Unit 3H	E 1603297 87	E:1571848.78	E 503289 64	CD402-80-54-12-4017
Viell Part Elevetion	1,115.0			

PYLE RUH WEYLAND IMPACT (SQUARE FEET)					
Wetland and Impact Cause	FRISFI	Total Impact	Total Impac (AU)		
PEM Websel 2 (Staging Area)	151	161	0.00		

A S P. AND CHARLES	Permanent Impacts		Temps Impacts	Terrey, Distant,	Total
Sheart and Impact Cours			Controls (t.F)		Disturbance (LF)
Stream 13 (Well Pad)	0	q	33	44	377
Stream 10 (Stockpile Ama B)	0	0	. 0	47	42

47-095-02472

47-095-02473

47-005-02474

47-095-02478

- ALL COMPUSE WHAT HEARING THE FLORT FOR FLORT FOR MALE AFFOR THE FOR LINE OF THE THROUGH AND FOR THE F
- THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE ATTER CONFIDENCE IN CONFIDENCE IN THE STABILIZATION MUST BE INTERPRET FOR LATER THAN Y DAYS AFTER SEACHING THAN GRADE THAN STRUCTURE AND ASSESSMENT OF THAN STRUCTURE AND SHOULD SHOULD SERVE AS SOCIETY OF THE STABILIZATION OF THAT THE SEACHING SHOULD SHOU
- ALL PERMANENT SEDIMENT CONTIOL MEASURES CAN DE ROMOVED AFTER THE SITE IS PERMANENTLY STABULZED AND APPROVAL IS RECEIVED FROM THE WORLD
- 4. ANY ARREST DIFFERENCE OF REMOVAL OF CONTROLS SHALL BE REPAIRED STABILIZED, AND PLANAMENTS
- THE AS-BUILT DEFORMATION SHOWN HEREON REPLECTS FIELD CATA COLLECTED RELATING TO THE FIN GRACIES OF THE DISTRIBUTE AREA AS OF APPLY SO, DOIN MANTHOUT PRODUCTION IS NOT RESPONSIBLE FINE ASY CHARGES MADE TO THE SUFFE THE ASYMPT HEREONED DATES.
- THE EXISTING CONTAINMENT BERN ARRIVED THE WILL PAD STALL BE PEPARED AS SECESSARY TO EXSURE 1000 COSTAINMENT OF ALL FILLIES PRICE OF BUILDING OPERADIOS.
- THE EXISTING EGHESIS TO THE WILL PAR SHOEL HAVE THE HUGHRACE SERVE REPAIRED AS MECHESIARY TO ENGLISH STOT CONTAINMENT OF ALL FILLING PERSONS OF PRACTICALS

