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**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

February 24, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3305223, issued to ANTERO RESOURCES CORPORATION, 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 all 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: MORRISON UN. 3H  
Farm Name: MALE, KIMBERLY A.

**API Well Number: 47-3305223**

**Permit Type: Plugging**

Date Issued: 02/24/2015

**Promoting a healthy environment.**

**02/27/2015**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 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

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

3305223P

WW-4B  
Rev. 2/01

1) Date November 12, 2014  
2) Operator's Well No. Morrison Unit 3H  
3) API Well No. 47-033 - 06223

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X
- 5) Location: Elevation 1217' Watershed Limestone Run  
District Coal County Harrison Quadrangle Wolf Summit
- 6) Well Operator Antero Resources Corporation 7) Designated Agent CT Corporation System- Dianna Stamper  
Address 1615 Wynkoop Street Address 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313
- 8) Oil and Gas Inspector to be notified Name Sam Ward  
Address 601 57th Street, SE  
Charleston, WV 25304
- 9) Plugging Contractor Name N/A - Antero will plug well.  
Address \_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:

\*Conductor casing: 20" set to 42' KB - cemented to surface with Class A Cement on August 10, 2010.

Objective: Plug & Abandon Conductor - A plug from base of Conductor casing (42') will be set to within 3' of ground elevation (1217).

Procedure: Dig out around Conductor. Run 1" pipe to bottom of conductor and cement back to surface with Class A Cement @ 1.18 cu. ft./sk cement

Remove 1" pipe from conductor. ~~Weld dry hole cap, weld well name and API on top of cap~~ 3 feet below ground elevation. Back fill hole dug around conductor.

SPW

\*\*Please note that the monument will comply with requirements outlined in CSR 34-5.5b

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector S. P. D. [Signature] Date 11/14/2014

02/27/2015

3305223P

WR-35  
Rev (9-11)

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: 11/12/2014  
API #: 47-033-05223

Farm name: Male, Kimberly A. Operator Well No.: Morrison Unit 3H

LOCATION: Elevation: 1208' Quadrangle: Wolf Summit

District: Coal County: Harrison  
Latitude: 10.018' Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude 12.551' Feet West of 80 Deg. 22 Min. 30 Sec.

Company: Antero Resources Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1615 Wynkoop Street Denver, CO 80202	20" 94#	42'	42'	40 Cu. Ft.
Agent: <u>CT Corporation System</u>				
Inspector: <u>Sam Ward</u>				
Date Permit Issued: <u>3/23/2009</u>				
Date Well Work Commenced: <u>8/10/2010</u>				
Date Well Work Completed: <u>8/10/2010</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>42'</u>				
Total Measured Depth (ft): <u>42'</u>				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>No</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation N/A Pay zone depth (ft) N/A

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Ashlee Steele  
Signature

11-12-14  
Date

02/27/2015

Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes \_\_\_\_\_ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list No.

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

N/A- Only Conductor Set

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered:	Top Depth	Bottom Depth
Surface:		

N/A

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Revised 6-07  
NOV 17 2014

1) Date: November 12, 2014  
2) Operator's Well Number  
Morrison Unit 3H  
3) API Well No.: 47 - 033 - 05223

WV Department of Environmental Protection  
**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Kimberly A. Male</u>	Name _____
Address <u>78 O'Neil Hollow Road</u>	Address _____
<u>Clarksburg, WV 26301</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>PLEASE SEE ATTACHMENT</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>601 57th Street SE</u>	Name _____
<u>Charleston, WV 25304</u>	Address _____
Telephone <u>304-389-7583</u>	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

**SAMANTHA MARSH**  
**NOTARY PUBLIC**  
**STATE OF COLORADO**  
**NOTARY ID 20134079428**  
**MY COMMISSION EXPIRES DECEMBER 20, 2017**

Well Operator Antero Resources Corporation  
By: Ward McNeilly  
Its: Vice President of Engineering  
Address 1615 Wynkoop Street  
Denver, CO 80202  
Telephone 303-357-7310

Subscribed and sworn before me this 13th day of November 2014  
Samantha Marsh Notary Public  
My Commission Expires December 20, 2017

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

02/27/2015

**WW-4A Notice of Application to Plug and Abandon a Well Attachment:**

**Coal Owner, Operator, Lessee(s) with Declarations or Mining Permit:**

**Name:** Consolidation Coal Company ✓  
Consol Energy, Inc., CNX Center  
Engineering & Operations Support - Coal  
Attn: Analyst  
**Address:** 1000 Consol Energy Drive  
Canonsburg, PA 15317

**Name:** Ten A Coal Company ✓  
**Address:** Rural Route 4 Box 253  
Clarksburg, WV 26301

**Name:** Patrick & Frank Cunningham  
**Address:** Rural Route 4 Box 253 ✓  
Clarksburg, WV 26301

**Name:** The Pursglove Coal Company ✓  
**Address:** 321 W Main Street Building 424  
Clarksburg, WV 26301

**Name:** James Robinson, Inc. ✓  
**Address:** 25 South Queens Court  
Huntington, WV 25705

**Coal Owner, Operator, Lessee(s) Previously Notified on Original Permit Application  
(\*\*NO DECLARATIONS FILED\*\*):**

**Name:** Three Musketeers Inc. ✓  
**Address:** P.O. Box 69  
Clarksburg, WV 26302

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**CERTIFIED MAIL RECEIPT**  
**MORRISON UNIT 3H**  
**WW-4A AND WW-4B NOTICE OF APPLICATION TO PLUG AND**  
**ABANDON A WELL - TO SURFACE OWNER**

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<b>Signature Confirmation™ :</b>	
<b>9410 8036 9930 0062 0089 16</b>	
Trans. #:	315748383
Print Date:	11/12/2014
Ship Date:	11/13/2014
Expected Delivery Date:	11/17/2014
Priority Mail® Postage:	<b>\$5.05</b>
Signature Confirmation: (Electronic Rate)	<b>\$2.35</b>
<b>Total:</b>	<b>\$7.40</b>
From:	ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1108
To:	KIMBERLY A MALE 78 ONEIL HOLLOW RD CLARKSBURG WV 26301-6545
<small>* Commercial Base Pricing Priority Mail rates apply. There is no fee for USPS Tracking™ service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.</small>	



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**WW-4A AND WW-4B NOTICE OF APPLICATION TO PLUG AND**  
**ABANDON A WELL - TO COAL OWNER, OPERATOR, LESSEE(S)**

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*Cut on dotted line.*

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Priority Mail® Postage:	<b>\$5.05</b>
Signature Confirmation:	<b>\$2.35</b>
(Electronic Rate)	
<b>Total:</b>	<b>\$7.40</b>
<b>From:</b>	ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106
<b>To:</b>	CONSOLIDATION COAL CO. / CONSOL ENERGY, INC. CNX CENTER,ENGINEERING & OPERATIONS SUPPORT -COAL 1000 CONSOL ENERGY DR ATTN: ANALYST CANONSBURG PA 15317-6506
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**WW-4A AND WW-4B NOTICE OF APPLICATION TO PLUG AND**  
**ABANDON A WELL - TO COAL OWNER, OPERATOR, LESSEE(S)**

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Trans. #: 315746383	Priority Mail® Postage: <b>\$5.05</b>
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Ship Date: 11/13/2014	(Electronic Rate)
Expected Delivery Date: 11/17/2014	Total: <b>\$7.40</b>
<b>From:</b> ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106	
<b>To:</b> THE PURSGLOVE COAL COMPANY ✓ 321 W MAIN ST BLDG 424 CLARKSBURG WV 26301-2929	
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Signature Confirmation:	<b>\$2.35</b>
(Electronic Rate)	
<b>Total:</b>	<b>\$7.40</b>
<b>From:</b>	NATALIE KOMP ANTERO RESOURCES 1815 WYNKOOP ST DENVER CO 80202-1106
<b>To:</b>	TEN A COAL COMPANY ✓ RR 4 BOX 253 CLARKSBURG WV 26301-9446
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Trans. #:	315746383
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Ship Date:	11/13/2014
Expected Delivery Date:	11/17/2014
Priority Mail® Postage:	<b>\$5.05</b>
Signature Confirmation:	<b>\$2.35</b>
(Electronic Rate)	
<b>Total:</b>	<b>\$7.40</b>
<b>From:</b>	ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106
<b>To:</b>	PATRICK & FRANK CUNNINGHAM ✓ RR 4 BOX 253 CLARKSBURG WV 26301-9446
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<b>9410 8036 9930 0062 0088 93</b>			
Trans. #:	315746383	Priority Mail® Postage:	<b>\$5.05</b>
Print Date:	11/12/2014	Signature Confirmation:	<b>\$2.35</b>
Ship Date:	11/13/2014	(Electronic Rate)	
Expected		Total:	<b>\$7.40</b>
Delivery Date:	11/15/2014		
<b>From:</b> ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106			
<b>To:</b> JAMES ROBINSON, INC. 25 S QUEENS CT HUNTINGTON WV 25705-3635			
<small>* Commercial Base Pricing Priority Mail rates apply. There is no fee for USPS Tracking™ service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.</small>			



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**CERTIFIED MAIL RECEIPT**  
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**(NO DECLARATION FILED)**

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**Click-N-Ship® Label Record**

<b>Signature Confirmation™ :</b>	
<b>9410 8036 9930 0062 0089 09</b>	
Trans. #:	315746383
Print Date:	11/12/2014
Ship Date:	11/13/2014
Expected Delivery Date:	11/17/2014
Priority Mail® Postage:	<b>\$5.05</b>
Signature Confirmation:	<b>\$2.35</b>
	(Electronic Rate)
<b>Total:</b>	<b>\$7.40</b>
<b>From:</b>	ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106
<b>To:</b>	THREE MUSKETEERS, INC. PO BOX 69 CLARKSBURG WV 26302-0069
* Commercial Base Pricing Priority Mail rates apply. There is no fee for USPS Tracking™ service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.	



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02/27/2015

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Antero Resources Corporation OP Code 494488557

Watershed Limestone Run Quadrangle Wolf Summit

Elevation 1217' County Harrison District Coal

Description of anticipated Pit Waste: No pit will be used at this site (All fluids will be stored in tanks and either reused or hauled off site.)

Will a synthetic liner be used in the pit? N/A

*SDW*  
*11/14/2014*

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ Future permitted well locations when applicable. API# will be provided on Form WR-34)
- Off Site Disposal (Meadowfill Landfill Permit #SWF-1032-98)
- Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature *W. McNeilly*

Company Official (Typed Name) Ward McNeilly

Company Official Title Vice President of Engineering



Subscribed and sworn before me this 13<sup>th</sup> day of November, 20 14

*Natalie Komp* Notary Public

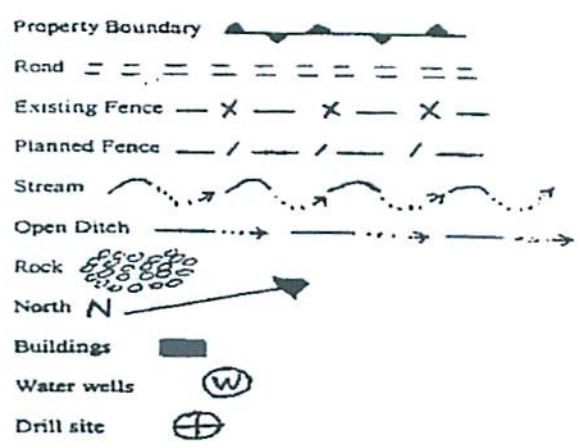
My commission expires July 18, 2018

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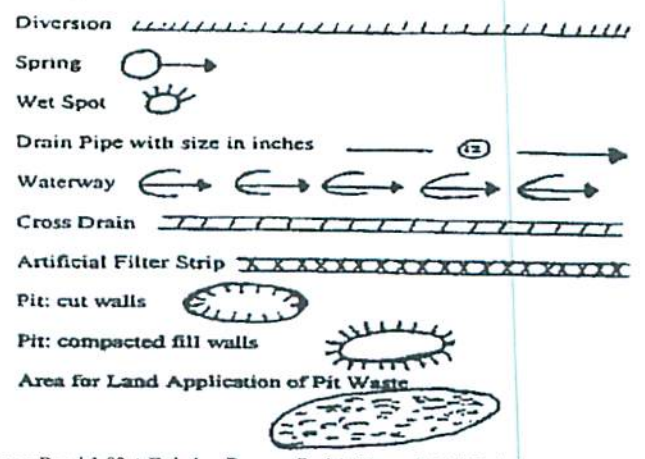
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Environmental Protection

02/27/2015



LEGEND



(Approximate Disturbed Acreage: Existing Pad 5.5 + Existing Access Road 1.93 + Existing Borrow Pad 1.37 = 10.61 Existing Acres)

Proposed Revegetation Treatment: Acres Disturbed 0.00 (Existing 10.61) Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2-3 Tons/acre (Hay, straw or wood fiber (will be used where needed))

Seed Mixtures

Seed Type	Area I	lbs/acre
Tall Fescue		40
Annual Rye		10

\*or type of grass seed requested by surface owner

Seed Type	Area II	lbs/acre
Tall Fescue		40
Annual Rye		10

\*or type of grass seed requested by surface owner

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. Ward/H

Comments: \_\_\_\_\_

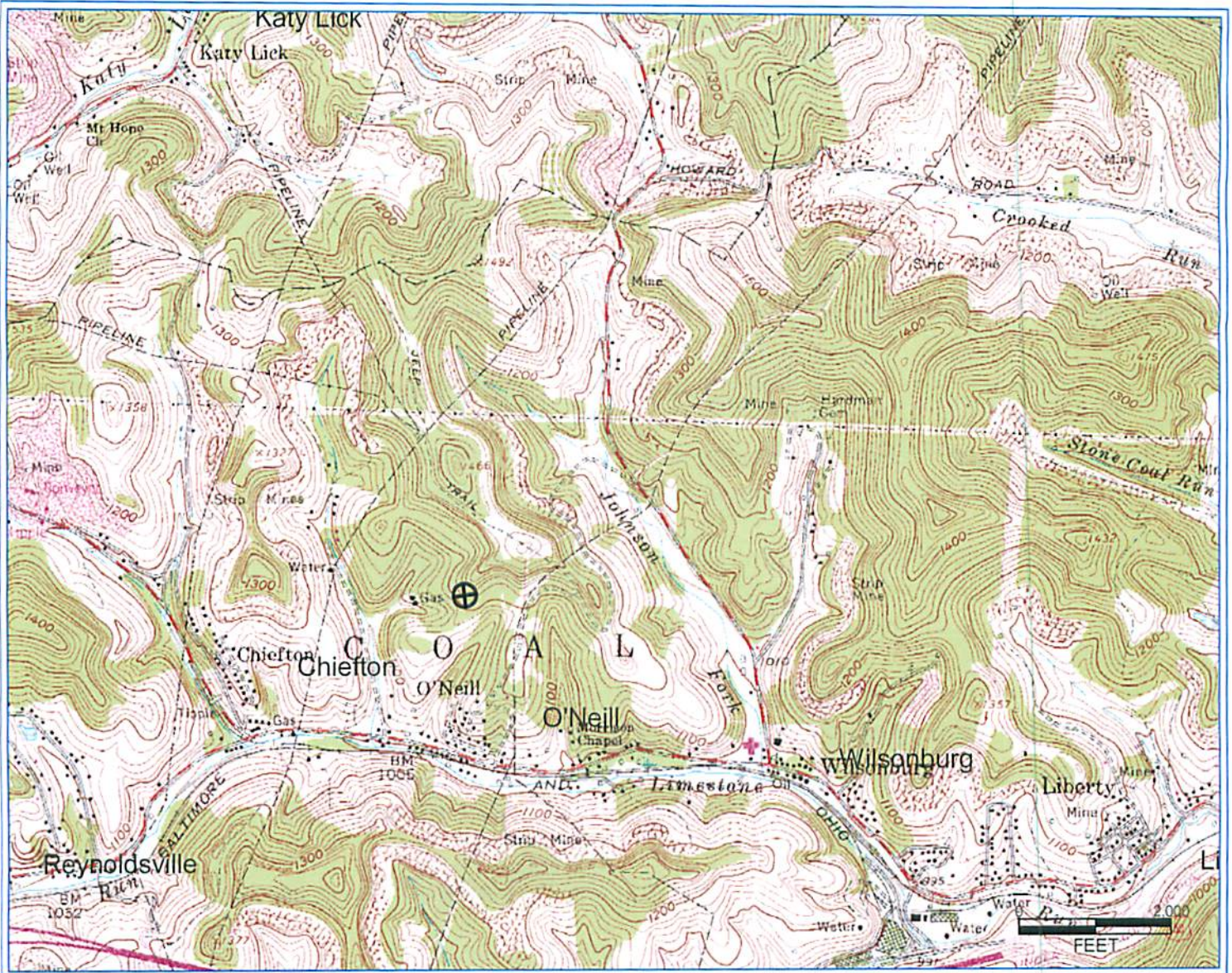
Title: Oil & Gas Inspector

Date: 11/14/2014

Field Reviewed? ( ) Yes ( X ) No

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Antero Resources Corporation
APPALACHIAN BASIN
Morrison Unit 3H
Harrison County
REMARKS QUADRANGLE: WOLF SUMMIT WATERSHED: WEST FORK DISTRICT: COAL
January 9, 2009 <b>02/27/2015</b>

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-033-05223-00 WELL NO.: Morrison Unit 3H

FARM NAME: Male, Kimberly A.

RESPONSIBLE PARTY NAME: Antero Resources Corporation

COUNTY: Harrison DISTRICT: Coal

QUADRANGLE: Wolf Summit

SURFACE OWNER: Kimberly A. Male

ROYALTY OWNER: Michael J. Francis

UTM GPS NORTHING: 4350085.34

UTM GPS EASTING: 550899.41 GPS ELEVATION: 1219'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:  
Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

*Ashli Steele*  
Signature

Permitting Supervisor  
Title

12/30/2014  
Date

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Environmental Protection

3305223P



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

November 12, 2014

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Ms. Laura Cooper  
601 57<sup>th</sup> Street  
Charleston, WV 25304

**RE: Morrison Unit 3H (API# 47-033-05223-00)**

Ms. Laura Cooper:

Antero Resources Corporation (Antero) would like to submit the following application for a permit to plug and abandon the subject well located on the existing Male pad.

Attached you will find the following:

- Copy of the submitted interim Completion Report (Form WR-35)
- Permit Application package

If you have any questions please feel free to contact me at (303) 357-7323.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in blue ink that reads "Ashlie Steele".

Ashlie Steele  
Permitting Supervisor  
Antero Resources Corporation

Enclosures

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