west virginia department of environmental protection

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 penalities 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.

3305223P

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

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'
District Coal
Watershed Limestone Run
County Harrison Quadrangle Wolf Summit

6) Well Operator Antero Resources Corporation
Address 1615 Wynkoop Street
Denver, CO 80202

7) Designated Agent CT Corporation System- Dianna Stamper
Address 5400 D Big Tyler Road
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 [signature] Date 11/14/2014

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: 10,016' 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: 1615 Wynkoop Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	42'	42'	40 Cu. Ft.
Agent: CT Corporation System				
Inspector: Sam Ward				
Date Permit Issued: 3/23/2009				
Date Well Work Commenced: 8/10/2010				
Date Well Work Completed: 8/10/2010				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 42'				
Total Measured Depth (ft): 42'				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) No				

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.

Ashlei Steele
Signature

11-12-14
Date

3305223P

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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WW-4A
Revised 6-07

1) Date: November 12, 2014
2) Operator's Well Number
Morrison Unit 3H

3) API Well No.: 47 - 033 - 05223

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Kimberly A. Male
Address: 78 O'Neil Hollow Road
Clarksburg, WV 26301

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Sam Ward
Address: 601 57th Street SE
Charleston, WV 25304
Telephone: 304-389-7583

5) (a) Coal Operator
Name:
Address:

(b) Coal Owner(s) with Declaration
Name: PLEASE SEE ATTACHMENT
Address:

Name:
Address:

(c) Coal Lessee with Declaration
Name:
Address:

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 depprivacyoffier@wv.gov.

3305223P

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

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: 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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Instructions

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From: ASHLIE STEELE
ANTERO RESOURCES
1615 WYNKOOP ST
DENVER CO 80202-1106

To: KIMBERLY A MALE
76 ONEIL HOLLOW RD
CLARKSBURG WV 26301-6545

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Cut on dotted line.

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From: ASHLIE STEELE
ANTERO RESOURCES
1615 WYNKOOP ST
DENVER CO 80202-1106

To: 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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Expected Delivery Date:	11/17/2014	Total:	$7.40

From: ASHLIE STEELE
ANTERO RESOURCES
1615 WYNKOOP ST
DENVER CO 80202-1106

To: THE PURSGLOVE COAL COMPANY
321 W MAIN ST BLDG 424
CLARKSBURG WV 26301-2929

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From: NATALIE KOMP
ANTERO RESOURCES
1615 WYNKOOP ST
DENVER CO 80202-1106

To: TEN A COAL COMPANY
RR 4 BOX 253
CLARKSBURG WV 26301-9446

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From: ASHLIE STEELE
ANTERO RESOURCES
1615 WYNKOOP ST
DENVER CO 80202-1106

To: PATRICK & FRANK CUNNINGHAM
RR 4 BOX 253
CLARKSBURG WV 26301-9446

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From: ASHLIE STEELE
ANTERO RESOURCES
1615 WYNKOOP ST
DENVER CO 80202-1106

To: JAMES ROBINSON, INC.
25 S QUEENS CT
HUNTINGTON WV 25705-3635

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Expected Delivery Date:	11/17/2014	Total:	$7.40

From: ASHLIE STEELE
ANTERO RESOURCES
1615 WYNKOOP ST
DENVER CO 80202-1106

To: THREE MUSKETEERS, INC.
PO BOX 69
CLARKSBURG WV 26302-0069

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WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 033 - 05223
Operator's Well No. Morrison Unit 3H

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 _____)
X Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34)
X Off Site Dispposal (Meadowfill Landfill Permit #SWF-1032-98)
_____ Other (Explain _____

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover _____ Plugging
_____ Other (Explain _____

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

NATALIE KOMP
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID # 20144028170
MY COMMISSION EXPIRES JULY 18, 2018

Subscribed and sworn before me this 13th day of November, 20 14

Natalie Komp Notory Public

My commission expires July 18, 2018

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WV Department of
Environmental Protection

3305223P

Form WW-9

Operator's Well No. Morrison Unit 3H

LEGEND

Property Boundary	Diversion
Road	Spring
Existing Fence	Wet Spot
Planned Fence	Drain Pipe with size in inches
Stream	Waterway
Open Ditch	Cross Drain
Rock	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	

(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

Area I Seed Type	lbs/acre	Area II Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Annual Rye	10	Annual Rye	10
*or type of grass seed requested by surface owner		*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 II

Comments: _____

Title: Oil & Gas Inspector Date: 11/14/2014

Field Reviewed? (____) Yes (X) No

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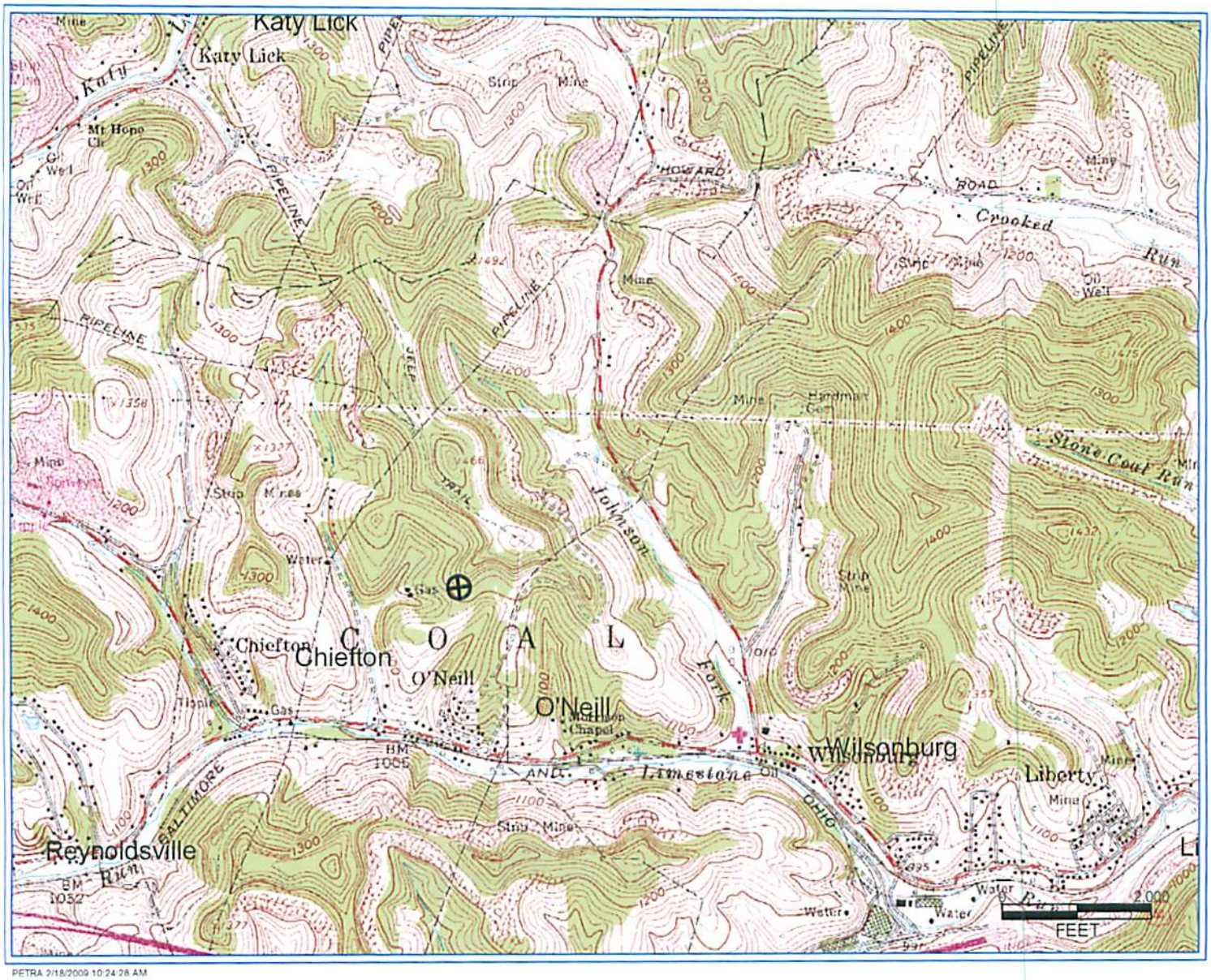
3305223H



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Antero Resources Corporation
APPALACHIAN BASIN
Morrison Unit 3H
Harrison County
0 2,000 4,000 FEET
REMARKS QUADRANGLE: WOLF SUMMIT WATERSHED: WEST FORK DISTRICT: COAL
January 9, 2009

3305223P

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 X : Post Processed Differential X

Real-Time Differential ____

Mapping Grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

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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.

Ashlie Steele — Signature
Permitting Supervisor — Title
12/30/2014 — Date

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 57th 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,

Ashlie Steele

Ashlie Steele
Permitting Supervisor
Antero Resources Corporation

Enclosures

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