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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](http://www.dep.wv.gov)

April 14, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3305200, 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: MCKINLEY 3H  
Farm Name: DAVIS, MIKE & BARBARA

**API Well Number: 47-3305200**

**Permit Type: Plugging**

Date Issued: 04/14/2015

**Promoting a healthy environment.**

**04/17/2015**

## 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.

33052009

WW-4B  
Rev. 2/01

1) Date November 10, 2014  
2) Operator's  
Well No. McKinley Unit 3H  
3) API Well No. 47-033 - 05200

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 1281' Watershed Right Fork  
District Union County Harrison Quadrangle Big Isaac

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 9) Plugging Contractor  
Address 601 57th Street, SE Name N/A - Antero will plug well.  
Charleston, WV 25304 Address \_\_\_\_\_

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

\*Conductor casing: 20" set to 66' KB - cemented to surface with Class A Cement on March 11, 2009.

Objective: Plug & Abandon Conductor - A plug from base of Conductor casing (66') will be set to within 3' of ground elevation (1281').

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.

*SDW*

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

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Office of Oil and Gas

NOV 17 2014

WV Department of  
Environmental Protection

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

Work order approved by inspector *Sam O'Connell* Date 11/14/2014

04/17/2015

33052004

Received  
Office of Oil & Gas

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: 11/11/2014  
API #: 47-033-05200

Farm name: Davis, Mike & Barbara Operator Well No.: McKinley Unit 3H

LOCATION: Elevation: 1281' Quadrangle: Big Isaac 7.5'

District: Union County: Harrison  
Latitude: 80°00' Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 14.400° Feet West of 80 Deg. 30 Min. 00 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#	66'	66'	38 Cu. Ft. Grout
Agent: <u>CT Corporation System</u>				
Inspector: <u>Sam Ward</u>				
Date Permit Issued: <u>2/9/2009</u>				
Date Well Work Commenced: <u>3/11/2009</u>				
Date Well Work Completed: <u>3/11/2009</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>66'</u>				
Total Measured Depth (ft): <u>66'</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

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.

Whit Steale  
Signature

11-11-14  
Date

04/17/2015



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Office of Oil & Gas

3305200P

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

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

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

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
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N/A

WW-4A  
Revised 6-07

1) Date: November 10, 2014  
2) Operator's Well Number  
McKinley Unit 3H  
3) API Well No.: 47 - 033 - 05200

**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>Mike &amp; Barbara Davis</u>	Name _____
Address <u>2327 Mineral Road</u>	Address _____
<u>Jane Lew, WV 26378</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.

KARA QUACKENBUSH  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 2014402829  
COMMISSION EXPIRES 11/10/18

Well Operator	<u>Antero Resources Corporation</u>
By:	<u>Ward McNeilly</u> <i>W. McNeilly</i>
Its:	<u>Vice President of Engineering</u>
Address	<u>1615 Wynkoop Street</u>
	<u>Denver, CO 80202</u>
Telephone	<u>303-357-7310</u>

Subscribed and sworn before me this 11th day of November 2014  
Kara Quackenbush Notary Public  
My Commission Expires July 21, 2018

**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).

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

### Coal Owner, Operator, Lessee(s) with Declarations:

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

Received  
Office of Oil & Gas  
NOV 12 2014

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

**Owner:** Eastern Associated Coal, LLC ✓  
**Address:** 500 Lee St. E Suite 202  
Charleston, WV 25301

**Owner:** Midland Enterprises, Inc. a NY Corp. ✓  
**Address:** 50 Broad Street  
New York, NY 10004

**Owner:** Midland Enterprises, Inc. a NY Corp. ✓  
**Address:** 1107 Broadway  
New York, NY 10010

**Owner:** Midland Enterprises, Inc. a NY Corp. ✓  
c/o Spiegel & Utrera, P.A., P.C.  
**Address:** 45 John Street Rm 711  
New York, NY 10038



**CERTIFIED MAIL RECEIPT**  
**MCKINLEY UNIT 3H, 4H, 7 and 8**  
**WW-4A AND WW-4B NOTICE OF APPLICATION TO PLUG AND**  
**ABANDON A WELL - TO SURFACE OWNER**

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Office of Oil & Gas  
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*Cut on dotted line.*

### Instructions

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**9410 8036 9930 0061 9345 51**

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Expected		Total:	<b>\$7.40</b>
Delivery Date:	11/14/2014		

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

**To:** MIKE & BARBARA DAVIS  
2327 MINERAL RD  
JANE LEW WV 26378-8875

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Expected		Total:	<b>\$7.40</b>
Delivery Date:	11/14/2014		

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

**To:** CONSOLIDATION COAL CO CONSOL INC  
CNX CENTER; ENGINEERING & OPS SUPPORT - COAL  
1000 CONSOL ENERGY DR  
ATTN:ANALYST  
CANONSBURG PA 15317-8506

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**ABANDON A WELL - TO COAL OWNER, OPERATOR, LESSEE(S)**  
**(NO DECLARATION FILED)**

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Print Date: 11/10/2014	Signature Confirmation: <b>\$2.35</b>
Ship Date: 11/11/2014	(Electronic Rate)
Expected	Total: <b>\$7.40</b>
Delivery Date: 11/14/2014	
<b>From:</b> ASHLIE STEELE ANTERO RESOURCES 1515 WYNKOOP ST DENVER CO 80202-1106	
<b>To:</b> EASTERN ASSOCIATED COAL, LLC ✓ 500 LEE ST E STE 202 CHARLESTON WV 25301-3201	
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Ship Date: 11/11/2014	(Electronic Rate)
Expected Delivery Date: 11/14/2014	Total: <b>\$7.40</b>
<b>From: ASHLIE STEELE</b> <b>ANTERO RESOURCES</b> <b>1615 WYNKOOP ST</b> <b>DENVER CO 80202-1106</b>	
<b>To: MIDLAND ENTERPRISES, INC. A NY CORP</b> <b>50 BROAD ST</b> <b>NEW YORK NY 10004-2307</b>	
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Expected	
Delivery Date:	11/14/2014
Priority Mail® Postage:	<b>\$5.05</b>
Signature Confirmation:	<b>\$2.35</b>
(Electronic Rate)	
Total:	<b>\$7.40</b>
<b>From:</b>	ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106
<b>To:</b>	MIDLAND ENTERPRISES, INC. A NY CORP 1107 BROADWAY NEW YORK NY 10010-2891
✓	
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3305200P

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<b>Signature Confirmation™ :</b>	
<b>9410 8036 9930 0061 9345 44</b>	
Trans. #: 315511486	Priority Mail® Postage: <b>\$5.05</b>
Print Date: 11/10/2014	Signature Confirmation: <b>\$2.35</b>
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<b>From:</b> ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106	
<b>To:</b> MIDLAND ENTERPRISES, INC. A NY CORP C/O SPEIGEL & UTRERA, P.A., P.C. 45 JOHN ST RM 711 NEW YORK NY 10038-3743	
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**04/17/2015**

3305200P

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 033 - 05200  
Operator's Well No. McKinley 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 Right Fork Quadrangle Big Isaac

Elevation 1281' County Harrison District Union

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

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 \_\_\_\_\_)

SDW  
11/14/2014

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 *Cole Kilstrom*  
Company Official (Typed Name) Cole Kilstrom  
Company Official Title Environmental Representative



Subscribed and sworn before me this 11<sup>th</sup> day of November, 20 14

*Megan C. Darling* Notary Public

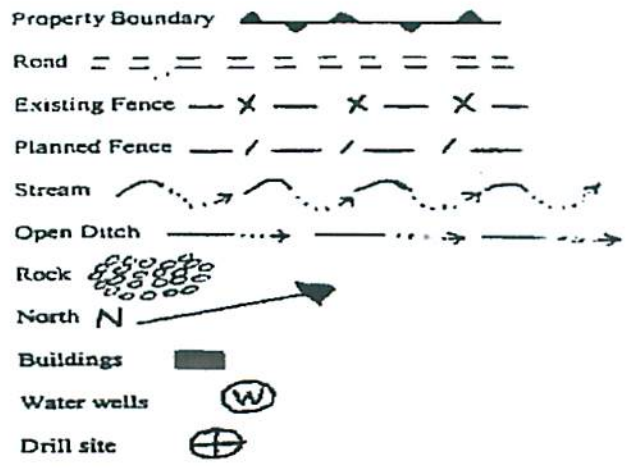
RECEIVED  
Office of Oil and Gas

NOV 17 2014

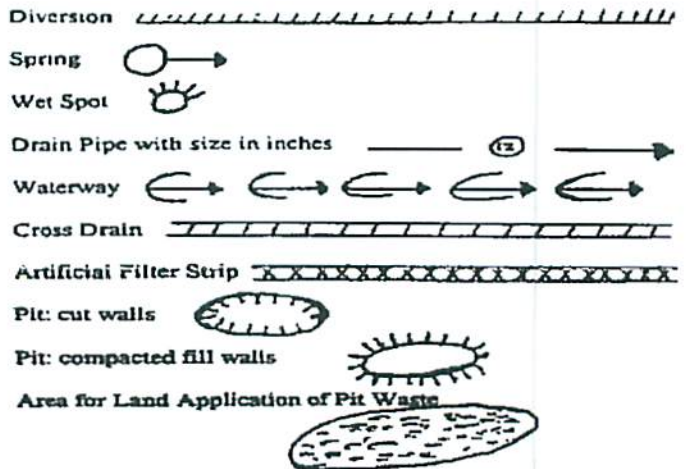
My commission expires July 17, 2018

WV Department of  
Environment 04/17/2015





LEGEND



(Approximate Disturbed Acreage: Existing Pad 3.66 + Existing Topsoil 0.23 + Existing Access Road 2.33 + Existing Fresh Water Impoundment 2.41 + Existing Additional Clearing 5.98 = 14.61 Existing Acres)

Proposed Revegetation Treatment: Acres Disturbed 0.00 (Existing 14.61) 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 (Chopped Straw or Wood Fiber Hydro mulch at rate of 30 bales per acre)

Seed Mixtures

Seed Type	Area I	lbs/acre
Annual Rye Grass		40

\*or type of grass seed requested by surface owner

Seed Type	Area II	lbs/acre
Tall Fescue		30
Crown Vetch		20

\*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.

RECEIVED Office of Oil and Gas

Plan Approved by: S. P. Dwanoff

NOV 17 2014

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

WV Department of Environmental Protection

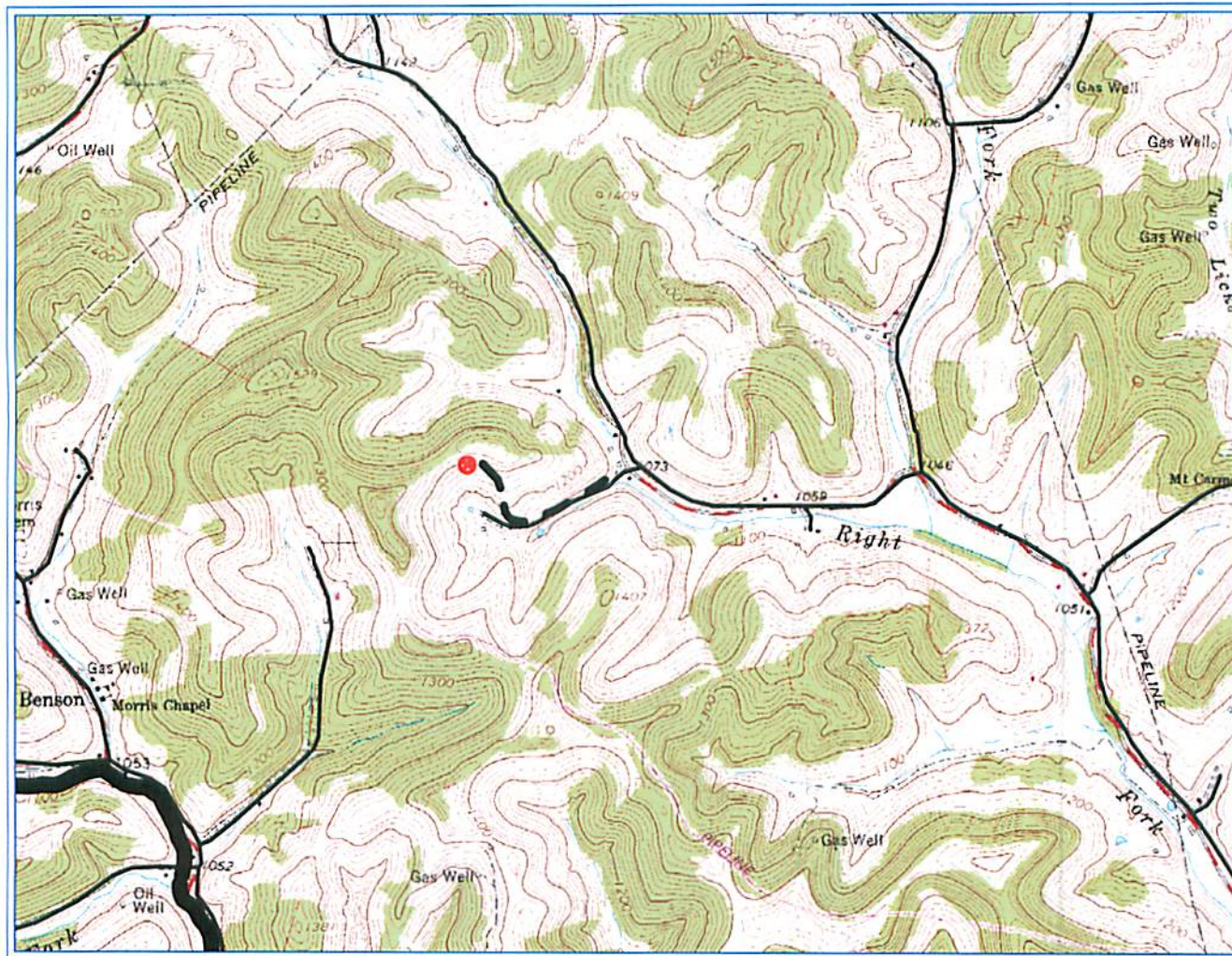
Title: Oil & Gas Inspector

Date: 11/14/2014

Field Reviewed? ( ) Yes ( X ) No



NOV 12 2014



PETRA 5/25/2010 11:15:42 AM

Antero Resources Corporation

APPALACHIAN BASIN

McKinley Unit 3H

Harrison County



REMARKS  
QUADRANGLE: BIG ISAAC  
WATERSHED: KINCHELOE CREEK  
DISTRICT: UNION

January 9, 2009 04/17/2015





3305200P

Received  
Office of Oil & Gas  
NOV 12 2014



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

November 11, 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: McKinley Unit 3H (API# 47-033-05200-00)**  
**McKinley Unit 4H (API# 47-033-05201-00)**  
**McKinley Unit 7 (API# 47-033-05435-00)**  
**McKinley Unit 8 (API# 47-033-05436-00)**

Ms. Laura Cooper:

Antero Resources Corporation (Antero) would like to submit the following applications for permits to plug and abandon the subject wells located on the existing Davis pad.

Attached you will find the following:

- Copies of the submitted interim Completion Reports (Form WR-35)
- Permit Application packages

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  
Permitting Supervisor  
Antero Resources Corporation

Enclosures

04/17/2015