



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

April 14, 2015

WELL WORK PLUGGING PERMIT


Plugging

This permit, API Well Number: 47-3305435, 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 UNIT 7
Farm Name: DAVIS, MICHAEL & BARBARA
API Well Number: 47-3305435
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

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.

3305435P

WW-4B
Rev. 2/01

1) Date November 10, 2014
2) Operator's
Well No. McKinley Unit 7
3) API Well No. 47-033 - 05435

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

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

*Conductor casing: 20" set to 40' - ~~cemented to surface with Class A Cement~~ backfilled with dirt on June 16, 2010.
cap

Objective: Plug & Abandon Conductor - A plug from base of Conductor casing (40') 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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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector S. D. Ward Date 11/14/2014

04/17/2015

33044350

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 #: 47-033-05435

Farm name: Davis, Mike & Barbara Operator Well No.: McKinley Unit 7

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

Am

District: Union County: Harrison
Latitude: 10.010' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 14.415' 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#	20'	20'	*Back filled with dirt
Agent: <u>CT Corporation System</u>				
Inspector: <u>Sam Ward</u>				
Date Permit Issued: <u>6/15/2010</u>				
Date Well Work Commenced: <u>6/16/2010</u>				
Date Well Work Completed: <u>6/16/2010</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>20'</u>				
Total Measured Depth (ft): <u>20'</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.

Ashley Steele
Signature

11-11-14
Date

04/17/2015

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**

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
<u>Surface:</u>			

N/A

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WW-4A
Revised 6-07

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1) Date: November 10, 2014
2) Operator's Well Number
McKinley Unit 7
3) API Well No.: 47 - 033 - 05435

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 & 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 11/11/18

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

Subscribed and sworn before me this 11th day of November 2014
[Signature] 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.

04/17/2015

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

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**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

3305435P

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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Instructions

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9410 8036 9930 0061 9345 51	
Trans. #:	315511486
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Ship Date:	11/11/2014
Expected Delivery Date:	11/14/2014
Priority Mail® Postage:	\$5.05
Signature Confirmation:	\$2.35
(Electronic Rate)	
Total:	\$7.40
From:	ASHLIE STEELE ANTERO RESOURCES 1616 WYNKOOP ST DENVER CO 80202-1106
To:	MIKE & BARBARA DAVIS 2327 MINERAL RD JANE LEW WW 26378-6875
<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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Expected Delivery Date:	11/14/2014
Priority Mail® Postage:	\$5.05
Signature Confirmation:	\$2.36
(Electronic Rate)	
Total:	\$7.40
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 15317-6506
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(NO DECLARATION FILED)

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Expected Delivery Date:	11/14/2014
Priority Mail® Postage:	\$5.06
Signature Confirmation:	\$2.35
(Electronic Rate)	
Total:	\$7.40
From:	ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106
To:	EASTERN ASSOCIATED COAL, LLC 500 LEE ST E STE 202 CHARLESTON WV 25301-3201
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ABANDON A WELL - TO COAL OWNER, OPERATOR, LESSEE(S)
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Trans. #: 315511486	Priority Mail® Postage: \$5.05
Print Date: 11/10/2014	Signature Confirmation: \$2.35
Ship Date: 11/11/2014	(Electronic Rate)
Expected Delivery Date: 11/14/2014	Total: <u>\$7.40</u>
From: ASHLIE STEELE	
ANTERO RESOURCES	
1615 WYNKOOP ST	
DENVER CO 80202-1108	
To: MIDLAND ENTERPRISES, INC. A NY CORP	
50 BROAD ST	
NEW YORK NY 10004-2307	
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Expected Delivery Date:	11/14/2014
Priority Mail® Postage:	\$5.05
Signature Confirmation:	\$2.35
	(Electronic Rate)
Total:	\$7.40
From:	ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106
To:	MIDLAND ENTERPRISES, INC. A NY CORP 1107 BROADWAY NEW YORK NY 10010-2891
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Signature Confirmation™ :	
9410 8036 9930 0061 9345 44	
Trans. #: 315511486	Priority Mail® Postage: \$5.05
Print Date: 11/10/2014	Signature Confirmation: \$2.35
Ship Date: 11/11/2014	(Electronic Rate)
Expected Delivery Date: 11/14/2014	Total: \$7.40
From: ASHLIE STEELE ANTERO RESOURCES 1615 WYNKOOP ST DENVER CO 80202-1106	
To: 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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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 _____)

Proposed Work For Which Pit Will Be Used:

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

SDW
11/14/2014

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 11th day of November, 2014

Megan C. Darling Notary Public

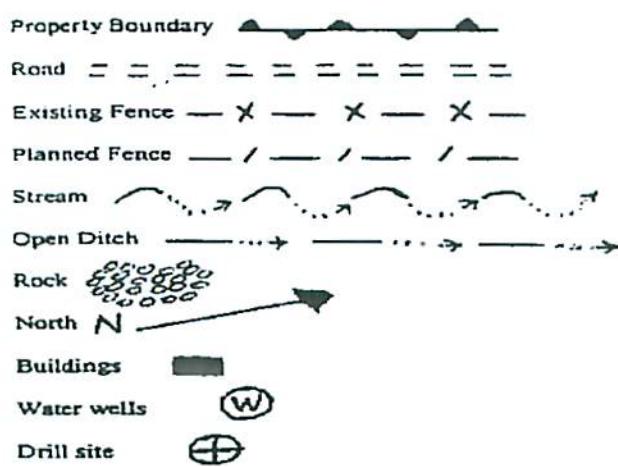
My commission expires July 17, 2018

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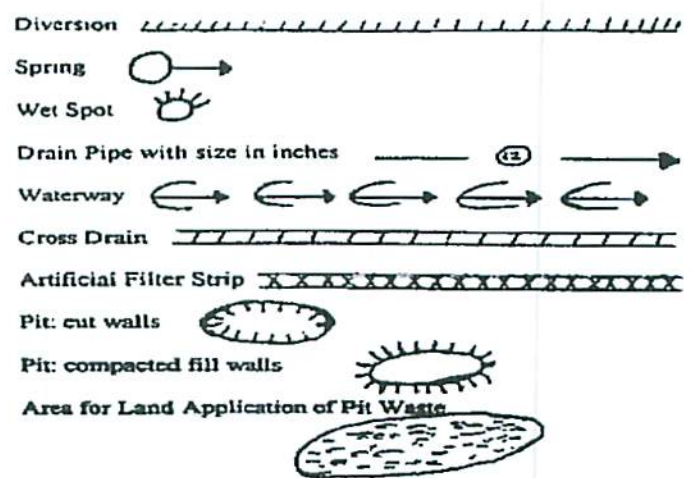
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04/17/2015



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.

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Office of Oil and Gas

Plan Approved by: [Signature]

NOV 17 2014

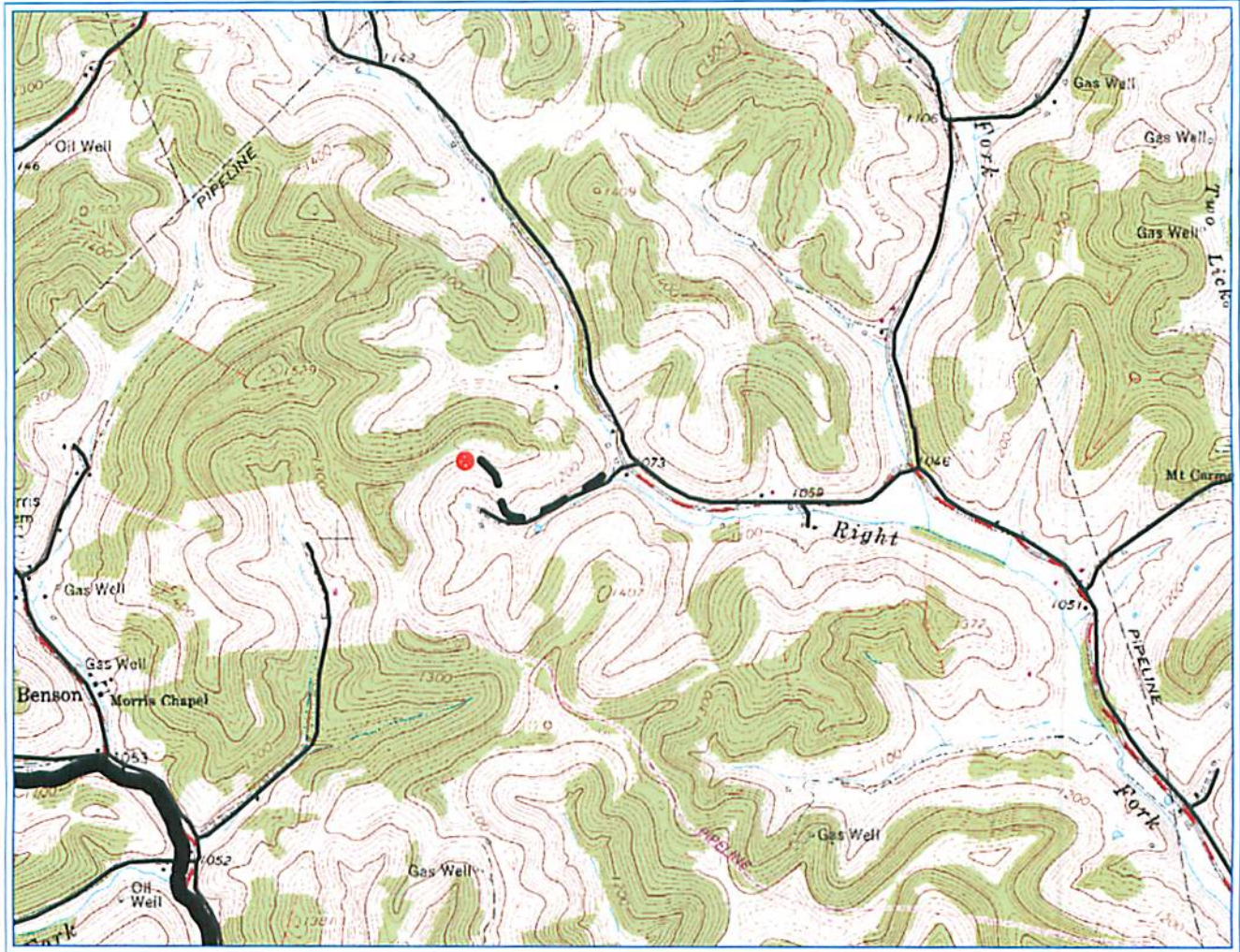
Comments: _____

WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 11/14/2014

Field Reviewed? () Yes (X) No



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

Received
 Office of Oil & Gas
 NOV 12 2014

Antero Resources Corporation
APPALACHIAN BASIN
McKinley Unit 7
Harrison County
REMARKS QUADRANGLE: BIG ISAAC WATERSHED: KINCHELOE CREEK DISTRICT: UNION
January 9, 2009 04/17/2015

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-05435-00 WELL NO.: McKinley Unit 7

FARM NAME: Davis, Michael & Barbara

RESPONSIBLE PARTY NAME: Antero Resources Corporation

COUNTY: Harrison DISTRICT: Union

QUADRANGLE: Big Isaac 7.5'

SURFACE OWNER: Michael & Barbara Davis

ROYALTY OWNER: E.J. Rightmire, et al

UTM GPS NORTHING: 4335661.59 *Converted UTM coordinates per Permitted Survey Plat

UTM GPS EASTING: 540064.00 GPS ELEVATION: 1291'

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.

Ashlee Steele
Signature

Permitting Supervisor
Title

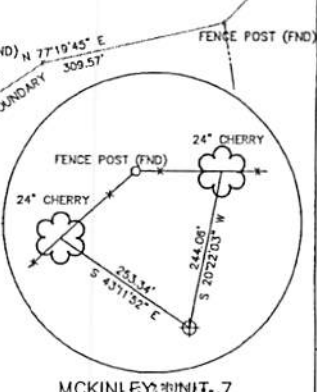
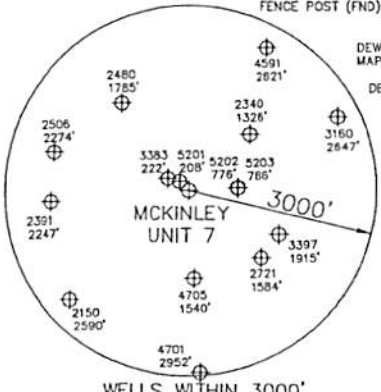
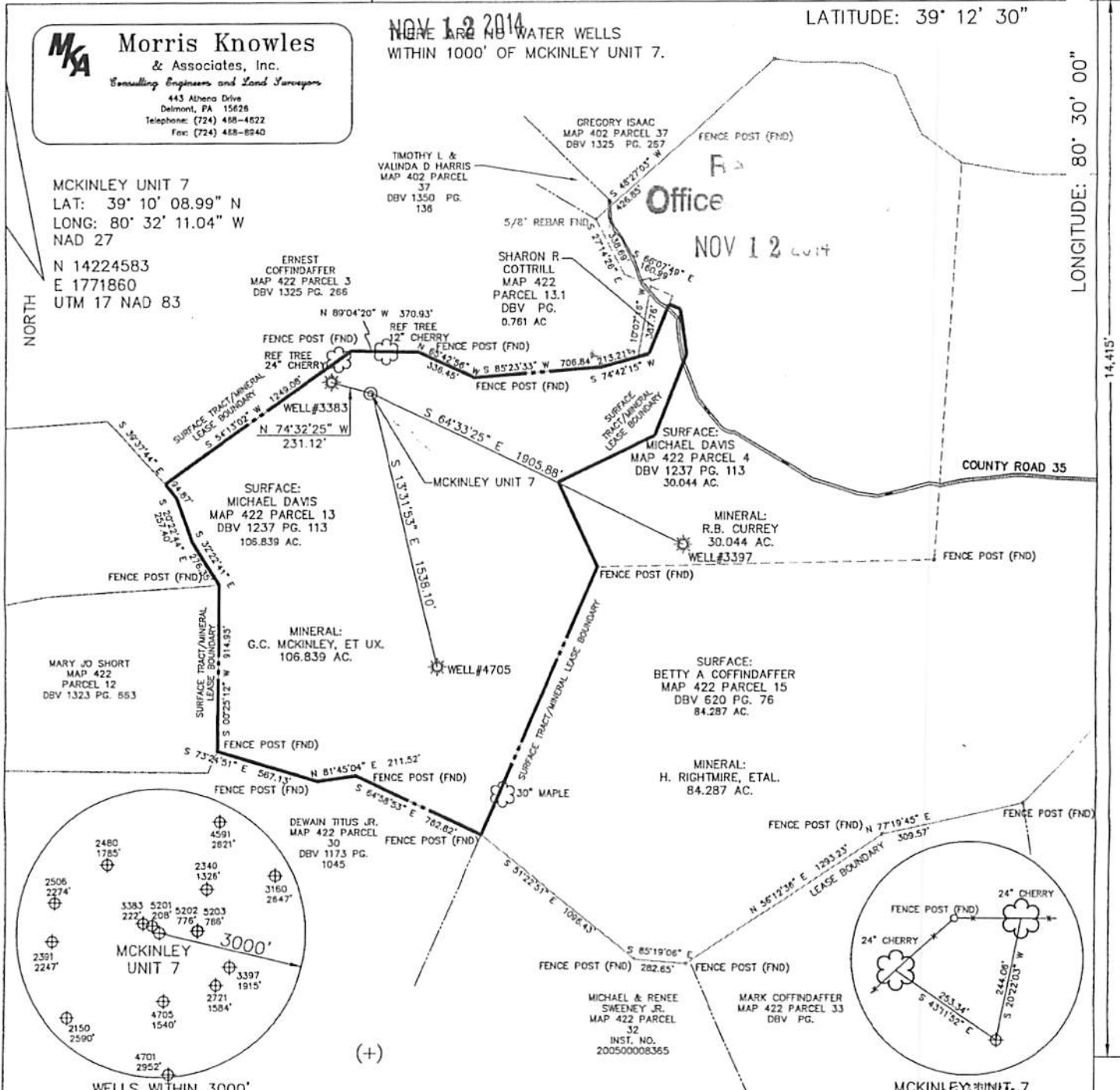
4/13/2015
Date

MKA Morris Knowles
& Associates, Inc.
Consulting Engineers and Land Surveyors
443 Albano Drive
Delmont, PA 15626
Telephone: (724) 488-4622
Fax: (724) 488-8940

NOV 12 2014
HERE ARE NO WATER WELLS
WITHIN 1000' OF MCKINLEY UNIT 7.

MCKINLEY UNIT 7
LAT: 39° 10' 08.99" N
LONG: 80° 32' 11.04" W
NAD 27

N 14224583
E 1771860
UTM 17 NAD 83



FILE #: 9ANTMCKY
DRAWING #: A-25198
SCALE: 1"=800'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: DGPS/OPUS

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: *Charles S. Hammon*
5-25-10
R.P.E.: _____ L.L.S.: 1212



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: MAY 25, 2010
OPERATOR'S WELL #: McKinley Unit 7
API WELL #: 47 033
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP
 GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: RIGHT FORK ELEVATION: 1281' NAVD 88

COUNTY/DISTRICT: HARRISON COUNTY / UNION QUADRANGLE: BIG ISAAC 7.5

SURFACE OWNER: MICHAEL AND BARBARA DAVIS ACREAGE: 106.839 ACRES

OIL & GAS ROYALTY OWNER: G.C. MCKINLEY, ET UX. ACREAGE: 106.839 ACRES

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

PHYSICAL CHANGE IN WELL (SPECIFY): _____

TARGET FORMATION: MARCELLUS FORMATION ESTIMATED DEPTH: 7250' MD

WELL OPERATOR: Antero Resources Appalachian Corp. DESIGNATEED AGENT: CT Corporation System

ADDRESS: 1625 17th STREET SUITE 300 ADDRESS: 707 Virginia Street 16th Floor
CITY: DENVER STATE: CO ZIP CODE: 80202 CITY: Charleston STATE: WV ZIP CODE: 25301

04/17/2015