

**Doddridge County Sheriff
Flood Plain Ordinance Fund**

1066
69-217/515

DATE November 5, 2013

PAY TO THE ORDER OF THE HERALD RECORD

\$ 108.70

One Hundred Eight dollars and 70/100

DOLLARS Security features included. Details on back.



West Union, WV 26456

MEMO #: 2841-2842-2856-2857-2858

Ralph Sanderson
Beth A. Rogers
MP Sheriff

⑈001066⑈ ⑈051502175⑈ 110964909⑈

BLUE TRADITIONAL

13-078
13-077
13-083
13-079
13-082

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <input checked="" type="checkbox"/> <i>Donna K Race</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to: 13-078</p> <p>Frank W. Race Jr. Donna K. Race 4274 Smithton Rd West Union, WV 26456</p>		<p>B. Received by (Printed Name) DONNA K RACE</p> <p>C. Date of Delivery 10/10/13</p>	
<p>2. Article Number (Transfer from service label) 7011 0470 0000 8523 2624</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004</p>		<p>Domestic Return Receipt 102595-02-M-1540</p>	

FILED
 OCT 11 AM 11:39
 BETH A. ROGERS
 COUNTY CLERK
 DODDRIDGE COUNTY, WV

**U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com
OFFICIAL USE

Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11

Postmark Here **2013**
 OCT 9 2013
 WEST UNION WV
 USPS 26456
 #13-078

Sent To Frank W. Jr., & Donna K. Race
 Street, Apt. No., or PO Box No. 4274 Smithton, Rd
 City, State, ZIP+4 West Union, WV 26456
 PS Form 3800, August 2006 See Reverse for Instructions

7011 0470 0000 8523 2624

**U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com
OFFICIAL USE

Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11

Postmark Here **2013**
 OCT 9 2013
 WEST UNION WV
 USPS 26456
 13-078

Sent To Delbert Leatherman
 Street, Apt. No., or PO Box No. 652 Deerfield Dr
 City, State, ZIP+4 Bridgeport WV 26330
 PS Form 3800, August 2006 See Reverse for Instructions

7011 0470 0000 8523 2624

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: 13-078

Delbert Leatherman
652 Deerfield Dr
Bridgeport, WV 26330

2. Article Number
(Transfer from service label)

7011 0470 0000 8523 2631

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Delbert E. Mathews

- Agent
 Addressee

B. Received by (Printed Name)

Delbert E. Mathews

C. Date of Delivery

- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No



3. Service Type

- Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

FILED

2013 OCT 15 PM 12:14

**BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV**

Sender, please print your name, address, and ZIP+4 in this box •

BETH A. ROGERS
DODDRIDGE COUNTY CLERK
118 E. COURT ST., RM 102
WEST UNION, WV 26456

6456129799





Vendor Name	Vendor No.	Date	Check Number	Check Total
DODDRIDGE COUNTY COMMISSION	43312	Oct-11-2013	40141	\$7,505.00

VOUCHER	VENDOR INV #	INV DATE	TOTAL AMOUNT	PRIOR PMTS & DISCOUNTS	NET AMOUNT
10-AP-7638	CANTONLOOP	10/11/13	7,505.00	0.00	7,505.00
Canton Loop Around Waterline					
TOTAL INVOICES PAID					7,505.00

FILED
 2013 OCT 15 PM 2:58
 BETH A. ROGERS
 COUNTY CLERK
 DODDRIDGE COUNTY, WV

#13-078

DETACH AND RETAIN FOR TAX PURPOSES

By: BH - MEH - AML
 Asst. Chief Tax Deputy

W. C. Underwood Jr.
 Sheriff of Doddridge County

The Person paying Money into the Treasury shall forthwith file one of these Receipts with the County Clerk

Doddridge County, West Virginia

No. 716

Date: October 21, 2013
 Customer copy

Received: #13-078 ANTEREO (CANTON LOOP AROUND WATERLINE) \$7,505.00

In Payment For: 318 Building Permits (LP)

For: 12-Flood Plain Ordinance #20 Fund

By: BH - MEH - AML
 Asst. Chief Tax Deputy

W. C. Underwood Jr.
 Sheriff of Doddridge County

DODDRIDGE COUNTY
FLOODPLAIN APPLICATION PERMIT FEES

Accessory Building and/or Appurtenant Structures ----- \$100.00
(examples: garage, storage or pole building, carport)
(the total cost of which do not exceed \$10,000.00)

Accessory Building and/or Appurtenant Structures, Additions and/or Substantial Improvement to Single Family Residential or Manufactured Homes, New Single or Multi-Family Residential and Commercial Structures or Substantial Improvement to existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities
(commercial structures includes buildings used for business purposes)
(the total costs of which exceed \$10,000.00 but do not exceed \$50,000.00) --- \$250.00

Accessory Building and/or Appurtenant Structures, Additions and/or Substantial Improvement to Single Family Residential or Manufactured Homes, New Single or Multi-Family Residential and Commercial Structures or Substantial Improvement to existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities
(commercial structures includes buildings used for business purposes)
(the total costs of which exceed \$50,000.00 = \$350.00 fee plus \$2.00 additional fee per \$1,000.00 in project costs to cover amounts over \$50,000.00) ----- \$350.00 flat fee up to \$100,000.00 in project costs

New Industrial Structures or Additions and/or Substantial Improvement to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes
(industrial structures includes oil and/or natural gas wells, roads, bridges, tank pads, and Buildings used or associated with oil and natural gas purposes)
(the total costs of which do not exceed \$100,000.00) ----- \$500.00

New Industrial Structures or Additions and/or Substantial Improvement to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes
(industrial structures includes oil and/or natural gas wells, roads, bridges, tank pads, and Buildings used or associated with oil and natural gas purposes)
(the total costs of which exceed \$100,000.00 = \$1,000.00 fee plus \$5.00 additional fee per \$1,000.00 in project costs over \$100,000.00) ----- \$1,000.00 flat fee up to \$100,000.00 in project costs

Maximum Fee: In no event shall any Floodplain Application Permit Fee charged under the Doddridge County Floodplain Ordinance exceed the sum of \$25,000.00.

REVISED

Doddridge County Flood Plain Application Fee Calculator (if in Flood Plain)	
Canton Loop Waterline	
Estimated Construction Costs	\$1,401,000.00
Amount over \$100,000	\$1,301,000.00
Drilling Oil and Gas Well Fee	\$1,000.00
\$5 per \$1,000 over \$100,000	\$6,505.00
Amount Due with application	\$7,505.00

FILED

2013 OCT 15 PM 2:58

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 8th day of October, 2013

**ANTERO RESOURCES-CANTON LOOP AROUND WATER LINE
13-078** filed an

application for a Floodplain Permit to develop land located at or
about: **SURFACE OWNERS: FRANK W JR. AND DONNA K RACE AND
DELBERT E. LEATHERMAN, DEED BOOK 248/678 AND 214/444,
MAP/PARCEL: 13/18,& 16/15.**

The Application is on file with the Clerk of the County Court and
may be inspected or copied during regular business hours.
Any interested persons who desire to comment shall present
the same in writing by **October 28, 2013.**

Delivered to the:
Clerk of the County Court
118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk
Dan Wellings, Doddridge County Flood Plain Manager

FILED

2013 OCT 15 PM 2:58

**BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV**



Antero Resources
1625 17th Street
Denver, Colorado 80202
Office 303.357.7310
Fax 303.357.7315

October 11, 2013

Doddridge County Commission
Attn: Dan Wellings, Doddridge County Floodplain Manager
118 East Court Street, Room 102
West Union, WV 26456

Mr. Wellings:

Please find enclosed two revised checks to correspond with the Doddridge County Floodplain permits submitted for the Willard Pad and the Canton Loop Waterline. Per your phone message on October 10, 2013, these checks are being re-submitted for the revised amounts to no longer include \$1,000 for additional charges. We have enclosed the revised application fee calculators for your reference.

The self-addressed and stamped envelope can be used to send us the previously submitted checks.

If you have any questions please feel free to contact me at (303) 357-6820.

Sincerely,



Shauna Redican
Permit Representative
Antero Resources Corporation

Enclosures

PERMIT NO. 13-078

DODDRIDGE COUNTY
FLOODPLAIN DEVELOPMENT
PERMIT

PURPOSE FOR PERMIT: PIPELINE - Canton Loop
Around

ISSUED TO ANTERO RESOURCES

1625 17TH STREET

ADDRESS: DENVER COL. 80202

PROJECT ADDRESS: US RT. 50 + BUCKEYE CREEK
NEAR ENGLANDS RUN

ISSUED BY: Dan Holman

DATE: 11/04/2013

CONSTRUCTION MUST START WITHIN 180 DAYS FROM ISSUED DATE. PERMIT EXPIRES IN 12 MONTHS FROM ISSUED DATE. IF EXTENTION IS NEEDED A REQUEST MUST BE MADE IN WRITING STATING A REASON FOR THE EXTENTION.

THIS PERMIT MUST BE POSTED ON THE PREMISES IN A CONSPICUOUS PLACE SO AS TO BE CLEARLY VISIBLE FROM THE STREET.



13-078
Antero -
Canton Loop
Around Water
line

Antero Resources
1625 17th Street
Denver, Colorado 80202
Office 303.357.7310
Fax 303.357.7315

2013 OCT -3 PM 4:50

October 2, 2013

Doddridge County Commission
Attn: Dan Wellings, Doddridge County Floodplain Manager
118 East Court Street, Room 102
West Union, WV 26456

Mr. Wellings:

Antero Resources Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Canton Loop Around Waterline project located in Doddridge County. The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and construction right-of-way. Per FEMA Map 54017C0140C and 54017C0145C, a small portion of the project will bore under the floodplain. Please note, no above-ground structures are proposed to be constructed within the 100 year floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application and Permit Fee
- A detailed set of plans signed by a WV licensed professional engineer
- Adjacent Surface Owner Data

If you have any questions please feel free to contact me at (303) 357-6820. Thank you in advance for your consideration.

Sincerely,

Shauna Redican
Permit Representative
Antero Resources Corporation

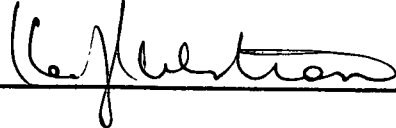
Enclosures

DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)

2013 OCT -3 PM 4:50

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. **I, THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.**

APPLICANT'S SIGNATURE 

DATE October 2, 2013

SECTION 2: PROPOSE DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME: Antero Resources Corporation - Kevin Kilstrom-VP of Production

ADDRESS: 1625 17th Street, Denver, CO 80202

TELEPHONE NUMBER: Contact Shauna Redican: 303-357-6820

BUILDER'S NAME: Antero Resources Corporation
ADDRESS: 1625 17th Street, Denver, CO 80202
TELEPHONE NUMBER: (303) 357-7310

ENGINEER'S NAME: Matthew Fluharty, PE, Thrasher
ADDRESS: 600 White Oaks Blvd Bridgeport, WV 26330
TELEPHONE NUMBER: 304-624-4108

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see attached table

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see attached table

DISTRICT:

DATE/FROM WHOM PROPERTY

PURCHASED: N/A

LAND BOOK DESCRIPTION: Please see attached table

DEED BOOK REFERENCE:

TAX MAP REFERENCE:

EXISTING BUILDINGS/USES OF PROPERTY: None

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY

To avoid delay in processing the application, please provide enough information to easily identify the project location.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

ACTIVITY

STRUCTURAL TYPE

- | | | | |
|-------------------------------------|-------------------------|--------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | New Structure | <input type="checkbox"/> | Residential (1 – 4 Family) |
| <input type="checkbox"/> | Addition | <input type="checkbox"/> | Residential (more than 4 Family) |
| <input type="checkbox"/> | Alteration | <input type="checkbox"/> | Non-residential (floodproofing) |
| <input type="checkbox"/> | Relocation | <input type="checkbox"/> | Combined Use (res. & com.) |
| <input type="checkbox"/> | Demolition | <input type="checkbox"/> | Replacement |
| <input type="checkbox"/> | Manufactured/Mobil Home | | |

B. OTHER DEVELOPMENT ACTIVITIES:

- | | | | | | | | |
|--------------------------|---|--------------------------|--------|--------------------------|----------|-------------------------------------|------------|
| <input type="checkbox"/> | Fill | <input type="checkbox"/> | Mining | <input type="checkbox"/> | Drilling | <input checked="" type="checkbox"/> | Pipelining |
| <input type="checkbox"/> | Grading | | | | | | |
| <input type="checkbox"/> | Excavation (except for STRUCTURAL DEVELOPMENT checked above) | | | | | | |
| <input type="checkbox"/> | Watercourse Altercation (including dredging and channel modification) | | | | | | |
| <input type="checkbox"/> | Drainage Improvements (including culvert work) | | | | | | |
| <input type="checkbox"/> | Road, Street, or Bridge Construction | | | | | | |
| <input type="checkbox"/> | Subdivision (including new expansion) | | | | | | |
| <input type="checkbox"/> | Individual Water or Sewer System | | | | | | |
| <input type="checkbox"/> | Other (please specify) | | | | | | |
-

C. STANDARD SITE PLAN OR SKETCH

1. **SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED.**
2. **IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:**
 SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.
3. **SIGN AND DATE THE SKETCH.**

ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$ 1,401,000.00

*See attached Floodplain Calculation Fee

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM) WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED).

NAME: Please see attached table

ADDRESS: _____

NAME: _____

ADDRESS: _____

NAME: _____

ADDRESS: _____

NAME: _____

ADDRESS: _____

1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY.

NAME: N/A

ADDRESS: _____

NAME: _____

ADDRESS: _____

NAME: _____

ADDRESS: _____

NAME: _____

ADDRESS: _____

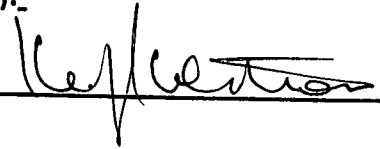
E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.

- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): Antero Resources Corporation - Kevin Kilstrom-VP of Production

SIGNATURE:  **DATE:** October 2, 2013

After completing SECTION 2, APPLICANT should submit form to Floodplain Administrator/Manager or his/her representative for review.

SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: 140 + 145
 Dated: 10/04/2011

Is **NOT** located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and **NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED**).

Is located in Special Flood Hazard Area.
 FIRM zone designation AE
 100-Year flood elevation is: 800 NGVD (MSL)

Unavailable

The proposed development is located in a floodway.
 FBFM Panel No. _____ Dated _____

See section 4 for additional instructions.

SIGNED Dan Welby

DATE 11/04/2013

SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by Floodplain Administrator/Manager or his/her representative)

The applicant must submit the documents checked below before the application can be processed.

- A plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.
- Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proffing of utilities located below the first floor and details of enclosures below the first floor. Also _____

- Subdivision or other development plans (if the subdivision or development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).
- Plans showing the extent of watercourse relocation and/or landform alterations.
- Top of new fill elevation _____ Ft. NGVD (MSL).
For floodproofing structures applicant must attach certification from registered engineer or architect.
- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.
- Manufactured homes located in a floodplain area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).

Other:

SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or his/her representative)

I have determined that the proposed activity **(type is or is not)** in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED _____ DATE _____

If the Floodplain Administrator/Manager found that the above was not in conformance with the provisions of the Doddridge County Floodplain Ordinance and/or denied that application, the applicant may complete an appealing process below.

APPEALS: Appealed to the County Commission of Doddridge County? Yes No
Hearing Date: _____
County Commission Decision - Approved Yes No

CONDITIONS: _____

SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued).

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

- 1 Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is _____ FT. NGVD (MSL)
- 2 Actual (As Built) elevation of floodproofing is _____ FT. NGVD (MSL)

Note: Any work performed prior to submittal of the above information is at risk of the applicant.

SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

INSPECTIONS:

DATE: 12/06/13 BY: Dan Welton
DEFICIENCIES? Y/N

COMMENTS Bore yet to start

SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative).

Certificate of Compliance issued: DATE: _____ BY: _____

**CERTIFICATE OF COMPLIANCE
FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA
(OWNER MUST RETAIN)**

PERMIT NUMBER: _____

PERMIT DATE: _____

PURPOSE –

CONSTRUCTION LOCATION: _____

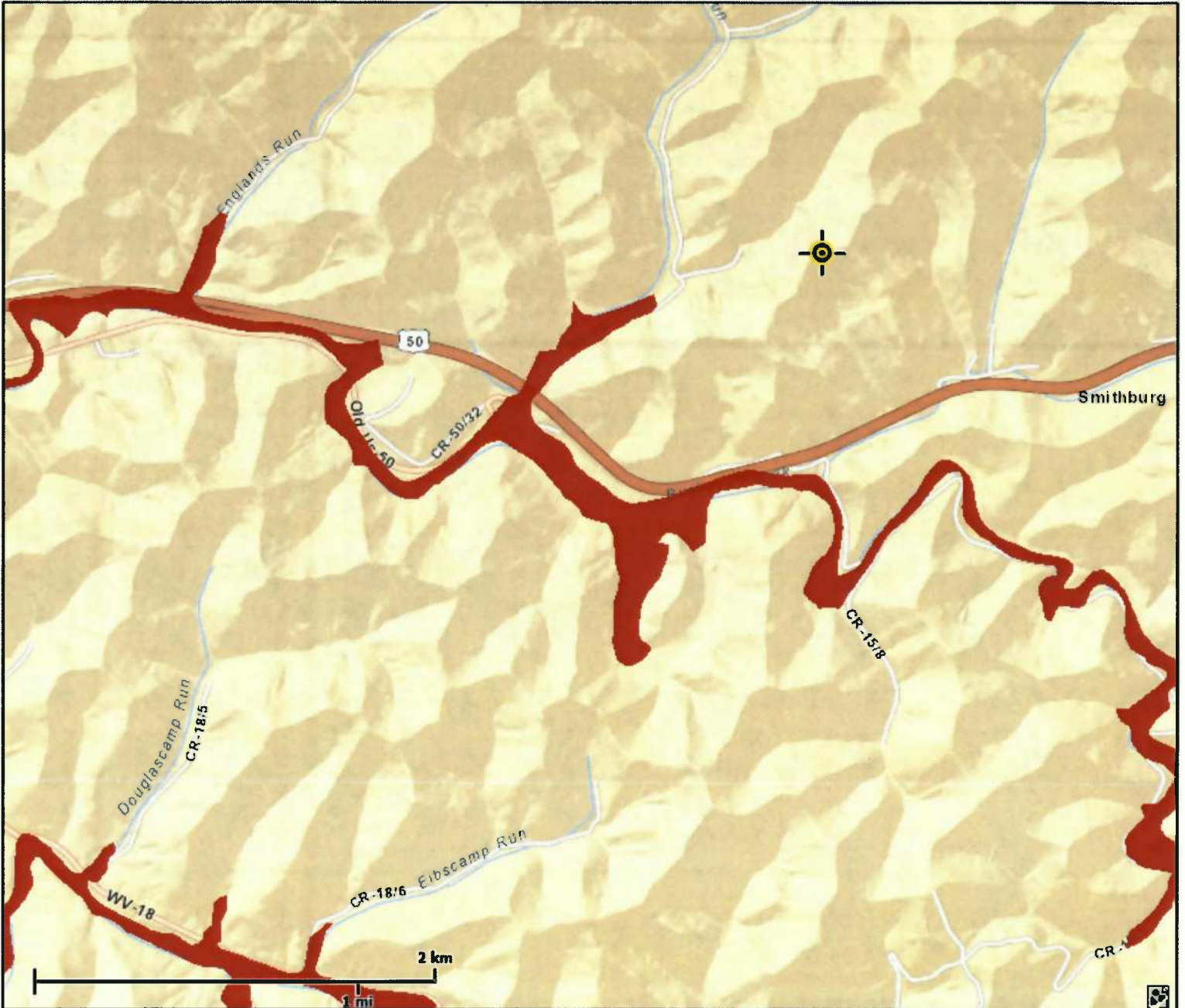
OWNER'S ADDRESS: _____

**THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN
ADMINISTRATOR/MANAGER OR HIS/HER AGENT.**

**COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE
FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF
DODDRIDGE COUNTY ON MAY 21, 2013.**



SIGNED _____ **DATE** _____

WV Flood Map



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map Created on 10/1/2013

 **Location of the mouse click**
 **Flood Hazard Zone (1% annual chance floodplain)**

User Notes:

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center (<http://www.MapWV.gov/flood>)

Flood Hazard Area: Selected site is NOT WITHIN any identified flood hazard area. Unmapped flood hazard areas may be present.

Elevation: About 1253 feet

Location (long, lat): 80.677694 W, 39.289356 N

Location (UTM 17N): (527795, 4348937)

FEMA Issued Flood Map: 54017C0145C

Contacts: Doddridge County

CRS Information: No CRS information available

Parcel Number:

Antero

13-078



Pipeline bore under
Buckeye Creek + U.S. Rt. 50

12/06/2013

DJW



DODDRIDGE COUNTY
UNINCORPORATED AREAS
540024



MAP SCALE 1" = 1000'



PANEL 0145C

FIRM

FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 145 OF 325
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY	NUMBER	ZONE	DATE
DODDRIDGE COUNTY	540145	AF	04

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
54017C0145C
MAP REVISED
OCTOBER 4, 2011
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-AMT Co-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

013-078

**Antero Resources
Corporation**

**Canton Loop Around
Water Line**

THRASHER PROJECT # 010-0715

DODDRIDGE COUNTY
FLOODPLAIN PERMIT



October 2, 2013

Mr. Dan Wellings
Doddridge County Commission
118 East Court Street
West Union, WV 26456

**RE: *Doddridge County Floodplain Permit
Antero Resources Corporation
Canton Loop Around Water Line – Adrian to Pearl Jean
Doddridge County, West Virginia
Thrasher Project # 101-010-0715***

Mr. Wellings:

On behalf of Antero Resources (Antero), The Thrasher Group, Inc. (Thrasher), is submitting to your office for review a proposed linear pipeline project in the USGS Smithburg 7.5 minute quadrangle of Doddridge County, WV. The proposed Canton Loop Around Water Line project is approximately 22,256.86 LF (4.22 miles) in length and contains roughly 47.16 acres within the proposed right-of-way (ROW). The proposed water line originates at the existing Tom's Fork pipeline right-of-way located at W80.718705/N39.272270. Termination of the proposed water line will occur at the existing Pearl Jean impoundment, W80.678238/N39.289250.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and construction right-of-way. No above-ground structures are proposed to be constructed within the 100 year floodplain. All material removed during excavation will be side-cast and used for backfill. The proposed ROW will be returned to the original contour, slope, and grade at the time of completion. Note that all required federal and state permit applications have been submitted for the project and are attached. Approvals will be forwarded to your office upon request.

Please see attached permit application, permit fee worksheet, and payment.

If any further documentation is required for this project, or if any questions may arise please feel free to contact me at your convenience at (304) 624-4108 or ddrennen@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.



DON DRENNEN
Environmental Scientist

Enclosures

R:\010-0715 Antero - Canton Waterline\Documents\Permitting\Environmental\Correspondence\Canton Loop Around Waterline\DCLIP\DoddCo_CantonLoop.docx

600 WHITE OAKS BLVD | P.O. BOX 940 | BRIDGEPORT | WV 26330
PH: 304-624-4108 | FAX: 304-624-7831

Canton Loop Around Water-Line Landowner Table

Dist. Name	Dist	Map	Par	Sub	Owner	Address	City, St., Zip	Location	Book	Page	Legal Desc.
NEW MIL TON	6	2	1		LAW RONALD L	RR 1 BOX 190 A TENT CHURCH RD	COLLIERS, WV 26035	OFF RT 18/5 DOUGLAS RUN	214	644	DOUGLAS CAMP 107 AC
NEW MIL TON	6	1	4		RILL ELWOOD P & ELIZABETH	4619 GLENVILLE RD	GLEN ROCK, PA 17327	OFF RT 18-SNOWBIRD RD	165	10	MEATHOUSE 43 AC
WEST UNION	8	17	2	1	BALLENGER JAMES M & RUBY C (SURV)	RT 2 BOX 86	WEST UNION, WV 26456	RT 50	279	170	BUCKEYE 4.5 AC
WEST UNION	8	16	6		BALLENGER JAMES M & RUBY C (SURV)	RT 2 BOX 86	WEST UNION, WV 26456	OFF OLD RT 50	279	170	BUCKEYE 9.87 AC
WEST UNION	8	17	2		BALLENGER JAMES M & RUBY C (SURV)	RT 2 BOX 86	WEST UNION, WV 26456	RT 50	279	170	BUCKEYE 30.25 AC
WEST UNION	8	13	18		RACE FRANK W JR & DONNA K (SURV)	4274 SMITHTON RD	WEST UNION, WV 26456	OLD RT #50	248	678	BUCKEYE 25A 115 PO
WEST UNION	8	13	16	3	HALL DRILLING LLC	P O BOX 249	ELLENBORO, WV 26346		279	628	6.4 AC BUCKEYE FK OF M I CK
WEST UNION	8	13	16	5	WASMER RODNEY L	2220 CORALTHOR N RD	BALTIMORE, MD 21220		273	507	58.55 AC BUCKEYE FK OF M I CREEK
WEST UNION	8	13	17		WASMER SEAN A ETAL	2220 CORALTHOR N RD	BALTIMORE, MD 21220	ENGLANDS RN 50/10	263	48	ENGLAND S RUN 85A
WEST UNION	8	13	15		COTTRILL TIMOTHY EDWARD & ERMA JANE (SURV)	RT 2 BOX 203	WEST UNION, WV 26456	ROTUE 1 MORGANSVILLE 50/10	285	518	ENGLAND S RUN 49 AC 69 PO
GRANT	3	16	14		BOWYER DAVID E	HC 69 BOX 28	ALMA, WV 26320	OFF RT 20 MORGAN RUN ROAD	220	56	BUCKEYE 260.21 INT O&G
GRANT	3	16	15		LEATHERMAN DELBERT E ET AL	652 DEERFIELD DRIVE	BRIDGEPORT, WV 26330		214	444	MORGANS RUN 209.48 AC INT O&G
GRANT	3	16	15	2	HASS RONALD M & JAMIE M (SURV) %FIRST AMERICAN REAL EST TAX	1 FIRST AMERICAN WAY	WESTLAKE, TX 76262	RT 20	240	696	80 AC MORGANS RUN 1/2 INT
GRANT	3	16	19		JETT GLORIA J	RR4 BOX 697A	FAIRMONT, WV 26554	RT 1 MORGANSVILLE	237	504	MORGANS RUN 157.27 AC
GRANT	3	19	7		JETT GLORIA J	RR4 BOX 697A	FAIRMONT, WV 26554	RT 50	237	504	BUCKEYE 70.43 AC

**ANTERO RESOURCES CORPORATION
CANTON LOOP AROUND WATER LINE**

Pipeline	Length of Line Pipeline (feet)	Construction in Floodplain (Y/N)	Installation Method	Unit Cost/Foot	Total
24" water line	2,335	No Yes	HDD	\$ 600	\$ 1,401,000
				Total Construction Cost Estimate =	\$ 1,401,000

Doddridge County Flood Plain Application Fee Calculator (if in Flood Plain)

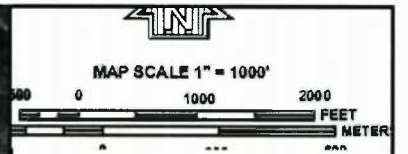
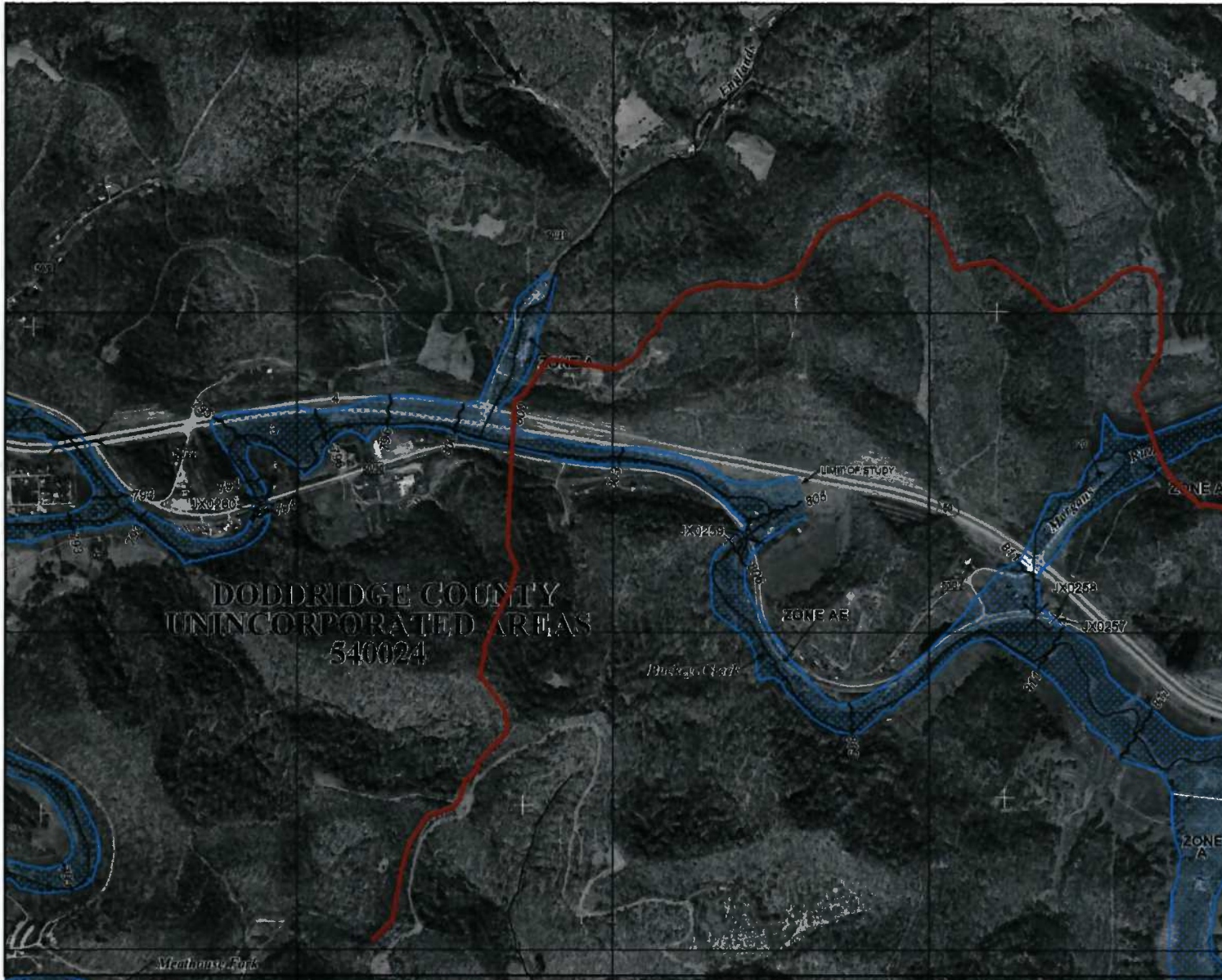
Canton Loop Waterline			
Estimated Construction Costs			\$1,401,000.00
Amount over \$100,000			\$1,301,000.00
Drilling Oil and Gas Well Fee			\$1,000.00
Deposit for additional charges			\$1,000.00
\$5 per \$1,000 over \$100,000			\$6,505.00
Amount Due with application			\$8,505.00

\$1,000 for first \$100,000
\$5 per \$1,000 in addition

\$1,000
+\$6,505

\$7,505

There is no longer a \$1,000 deposit for expenses required!



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0140C

FIRM

**FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS**

PANEL 140 OF 325
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY	NUMBER	PANEL	SHEET
DODDRIDGE COUNTY	54017C	0140C	01

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

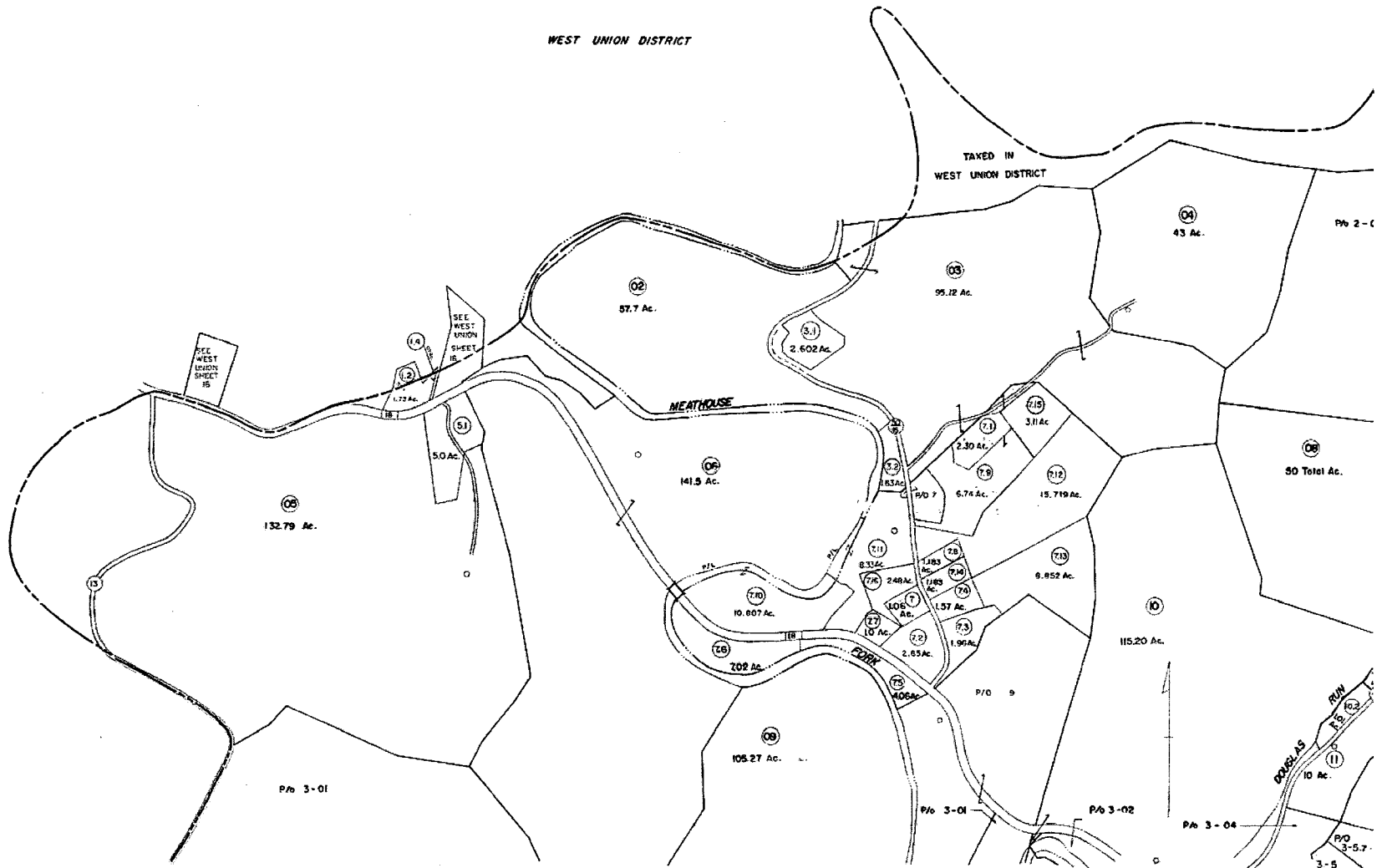


MAP NUMBER
54017C0140C

MAP REVISED
OCTOBER 4, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was prepared using FIRM On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.nrc.fema.gov



FOR TAX PURPOSES ONLY

Prepared by
L. ROBERT KIMBALL
 Consulting Engineer
 Ebensburg, Pennsylvania

Legend

Property line	-----
Edge of municipal property	-----
Cooperation line	-----
District line	-----
County line	-----

Revisions

No.	Date	Description	By	Checked
1	10/24/33	Initial	TRL	
2	11/21/33	Revised	TRL	
3	REV. 7-80	DA. P. 82	T. Orms	
4	75 JULY 1982	C.P.		
5	REVISED TO 7-1-83		OGIS	12-21-90
6	7-1-85	C.P.		
7	REV. 7-1-85	NCS		
8	7-1-86	C.P.		

STATE OF WEST VIRGINIA
 DODDRIDGE COUNTY

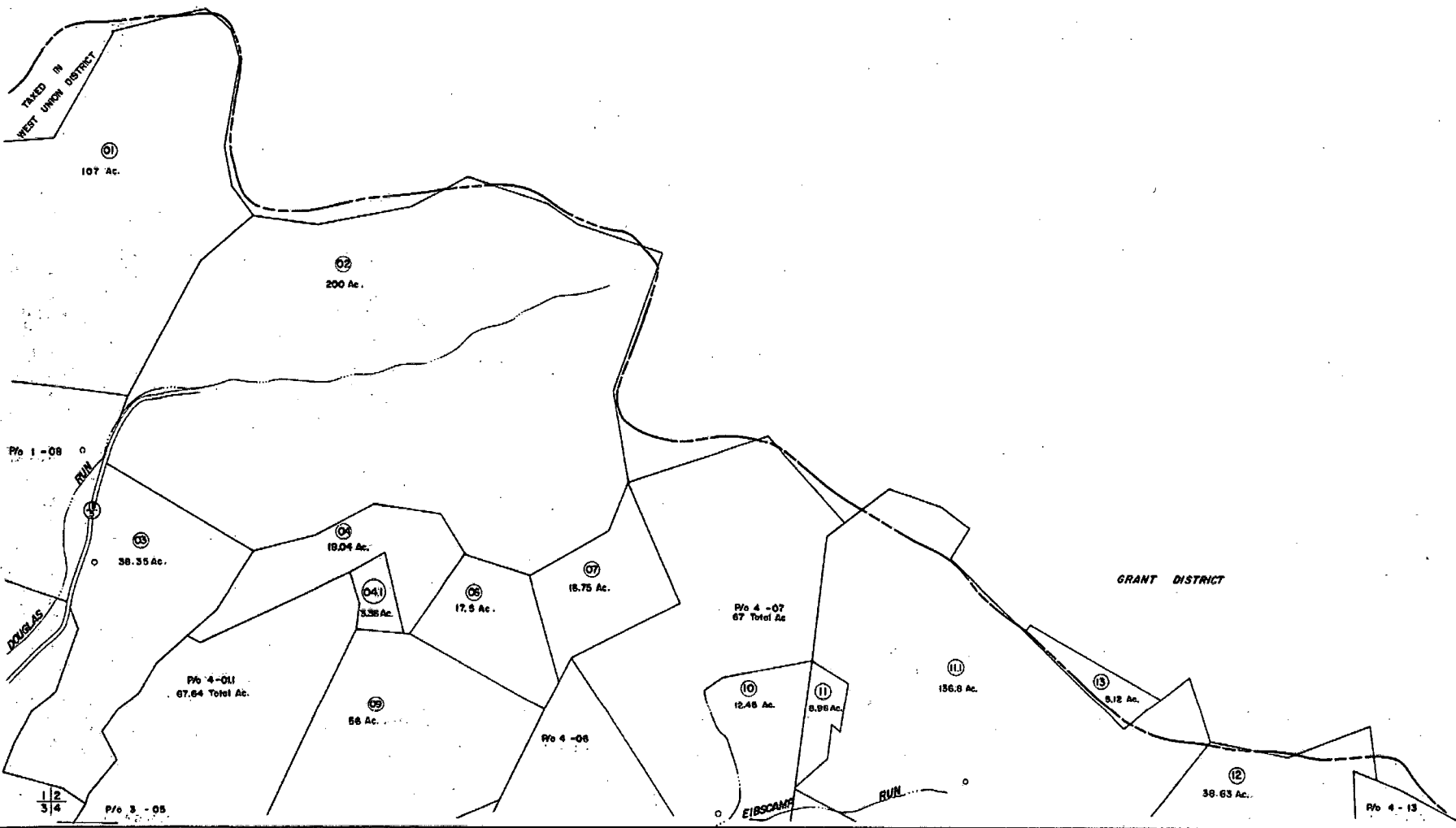
Office of Assessor

NEW MILTON DISTRICT
 SHEET 01

Date: Aerial Photography: APRIL, 1962
 Photo No: 758; 250
 Scale

12

WEST UNION DISTRICT



FOR TAX PURPOSES ONLY

Prepared by
L. ROBERT KIMBALL
 Consulting Engineer
 Ebensburg, Pennsylvania

Property line	Original lot line	01
Top of embankment or roadway	Deed lot number	02
Cooperatives line	Parcel or index number in map	03
District line	Improvement	04
County line	Railroad	05

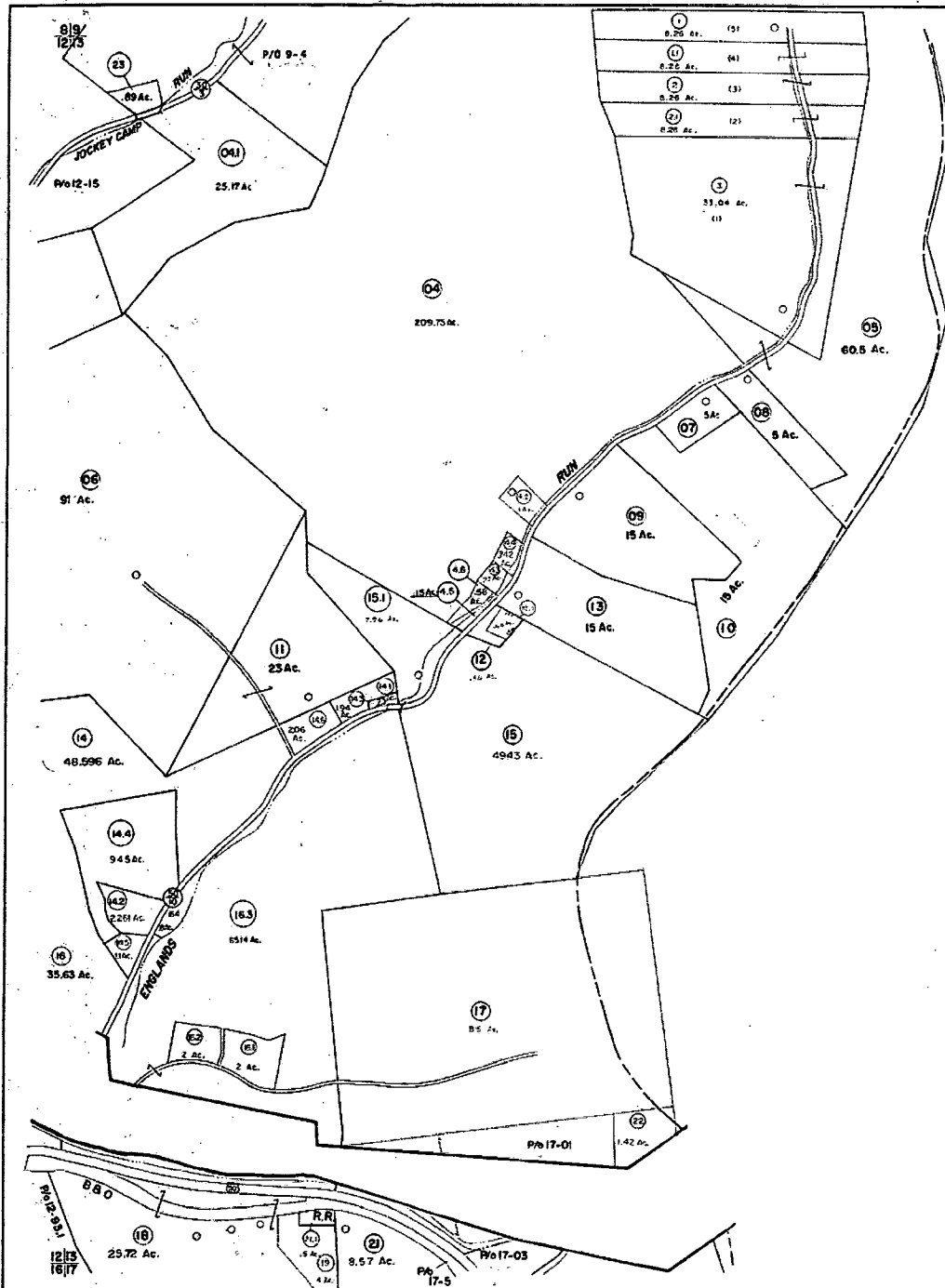
Legend

Revisions	
1	REVISED 2/20/74 JWP
2	REVISED 11/20/77
3	REV. 5-81 DR 5-81 T. Stone
4	REV TO 7-1-85 HCS
5	REVISED 12-1-85 EAG
6	
7	
8	

STATE OF WEST VIRGINIA
 DODDRIDGE COUNTY
 Office of Assessor

NEW MILTON DISTR
 SHEET 02

Date, Aerial Photography, 1962
 Photo No. 256 : 200



GRANT DISTRICT

FOR TAX PURPOSES ONLY

Prepared by
L. ROBERT KIMBALL
 Consulting Engineer
 Ebensburg, Pennsylvania

Property line
 Edge of pavement or surface
 Corporation line
 Division line
 Center line

Legend

Original lot line
 Dead lot number
 Parcel or lot number in map
 Improvement
 Railroad

Revisions

1	REVISED 3/11/64	1	SLS REC 3/13/00	JEW
2	REV TO 7-1-83	2	ES1 3/7/92	REK
3	OGIS 1-18-91	3	5/5/03	HBS
4	OGIS 12-18-92	4	5-5-05	HBS
5	OGIS 11-83	5		
6	OGIS 8-85	6		
7	OGIS 1-23-85	7		
8	OGIS 12-96	8		

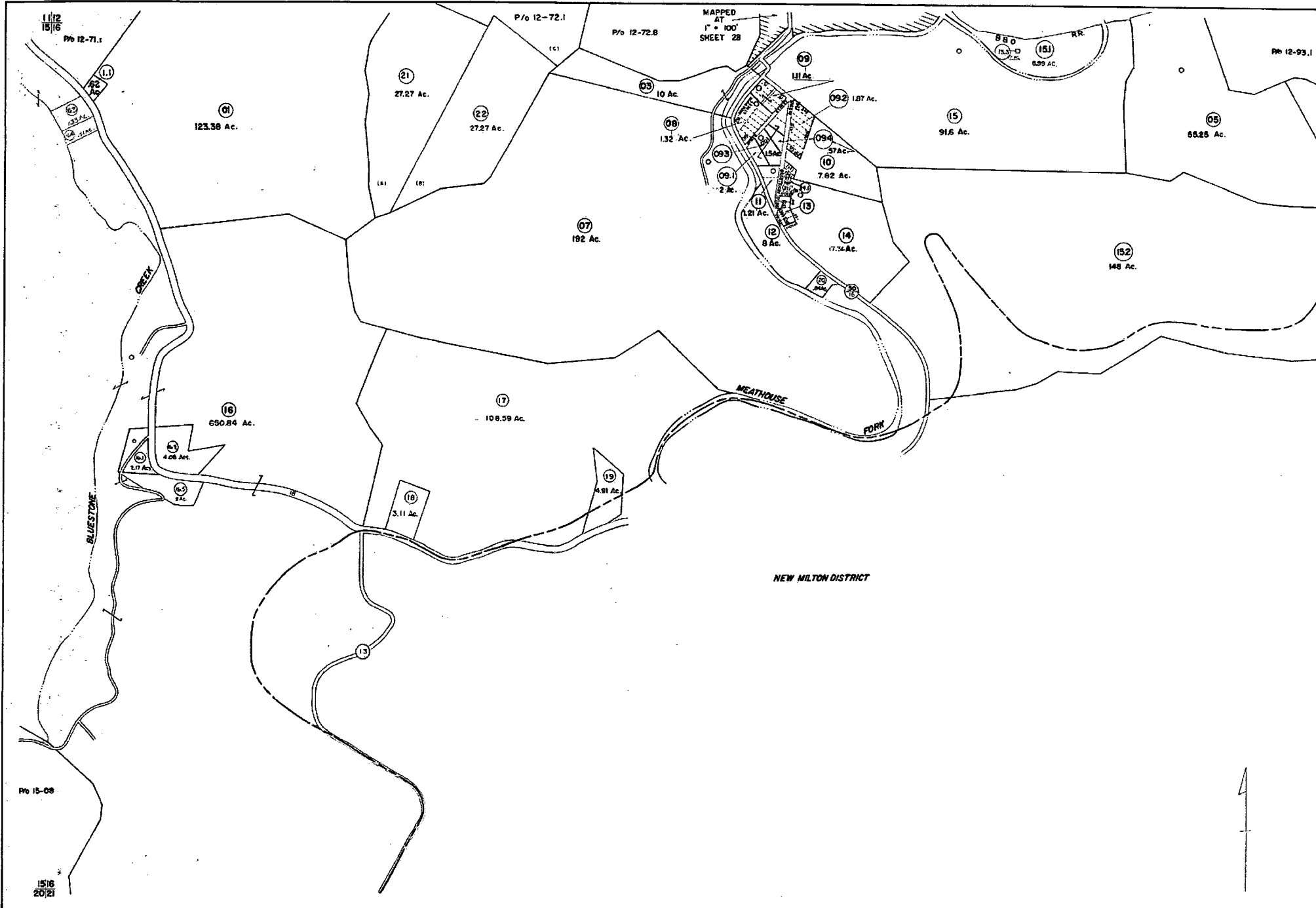
STATE OF WEST VIRGINIA
 DODDRIDGE COUNTY

Office of Assessor

WEST UNION DISTRICT
 SHEET 13

Date, Aerial Photography: 1962, 1968
 Photo No: 256

Dot
 Sca



FOR TAX PURPOSES ONLY

Prepared by
L. ROBERT KIMBALL
 Consulting Engineer
 Ebensburg, Pennsylvania

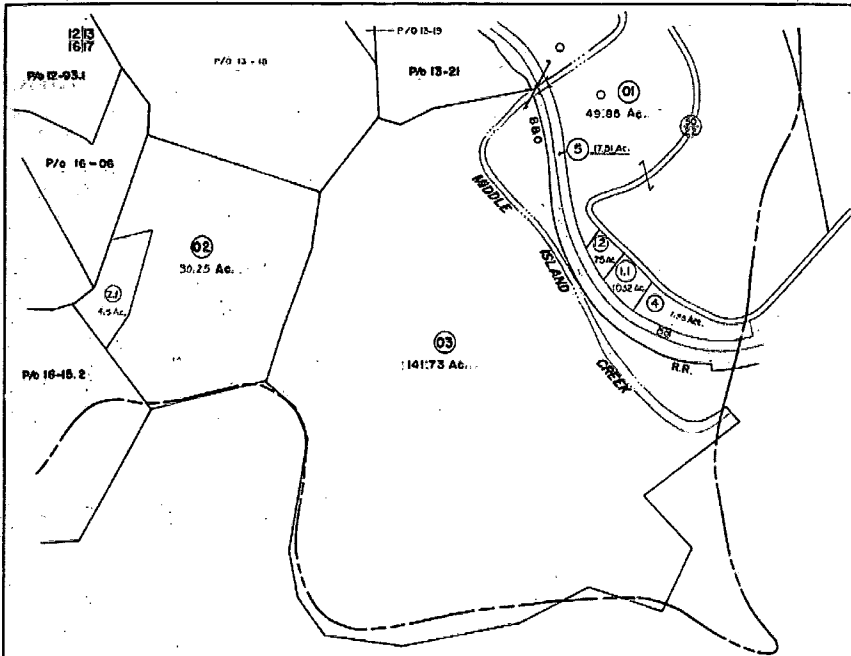
Legend	
Property line	Original tax line
Type of payment or number	Deed lot corner
Corporation line	Parent or sales number or sub
District line	Impressment
Covers line	Right-of-way

Revisions	
1 REVISED 3/1/64	Revised by <i>L. R. Kimball</i>
2 12-10-72	OGIS 11-18-81
3 6-30-70	OGIS 11-93
4 10/27/76	SLS INC. 3/15/70
5 6-1-82	REV. 7-41
6 REVISED 7-41	REV. TO 7-1-85

STATE OF WEST VIRGINIA
DODDRIDGE COUNTY
 Office of Assessor

WEST UNION DISTRICT
SHEET 16

Date, Aerial Photography: 1968, 1969
 Photo No: 256



NEW MILTON DISTRICT

16

FOR TAX PURPOSES ONLY

Prepared by
L. ROBERT KIMBALL
 Consulting Engineer
 Ebensburg, Pennsylvania

Property line	Original lot line
Map of parcel or number	Block lot number in book
Corporation line	Parcel or index number in map
District line	Improvement
County line	Halfacre

Legend



Original lot line	Block lot number in book	Parcel or index number in map	Improvement	Halfacre
1-18-98	01	01		
1-18-98	02	02		
1-18-98	03	03		
1-18-98	04	04		
1-18-98	05	05		
1-18-98	06	06		

Revisions

Original lot line	Block lot number in book	Parcel or index number in map	Improvement	Halfacre
1-18-98	01	01		
1-18-98	02	02		
1-18-98	03	03		
1-18-98	04	04		
1-18-98	05	05		
1-18-98	06	06		

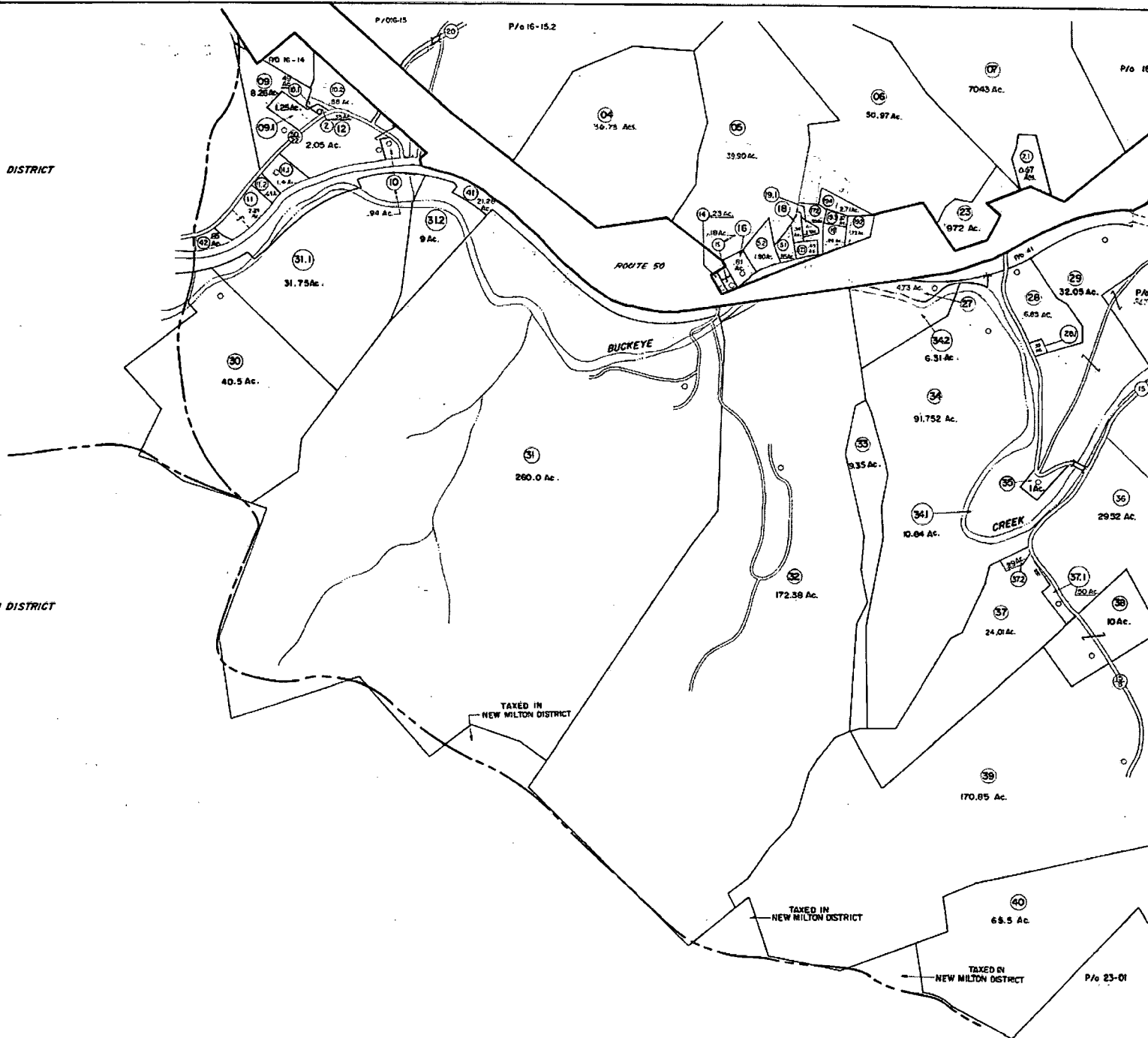
STATE OF WEST VIRGINIA
 DODDRIDGE COUNTY
 Office of Assessor

WEST UNION DISTRICT
 SHEET 17

Date, Aerial Photography: APR., 1927
 Photo No: 256

WEST UNION DISTRICT

NEW MILTON DISTRICT



FOR TAX PURPOSES ONLY

Prepared by
L. ROBERT KIMBALL
Consulting Engineer
Ebensburg, Pennsylvania

Legend

Property Line	Original lot line	⊕
Edge of pavement or roadway	Cont'd lot number or location	⊙
Corporation line	Parcel or index number in map	⊖
District line	Improvement	⊕
County line	Highway	—

Revisions

1	REVISED 8/21/84	1	REVISION 3-1-86	2	516 NS. 3/28/88
2	1-25-88	2	REVISION 2-1-88	3	EST 3/29/81
3	8-25-86	3	OGIS 1-17-91	4	REK
4	REVISED 7-81	4	OGIS 10-24-91	5	SBH
5	7/30/87 1982 C.D.	5	OGS 12-8-89	6	SBH
6	11-1-88	6	OGS 11-93	7	
7	4/1/1988	7	OGS 2-95	8	
8	REVISION 2-1-87	8	OGS 1-23-98	9	

STATE OF WEST VIRGINIA
DODDRIDGE COUNTY

Office of Assessor

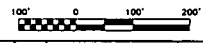
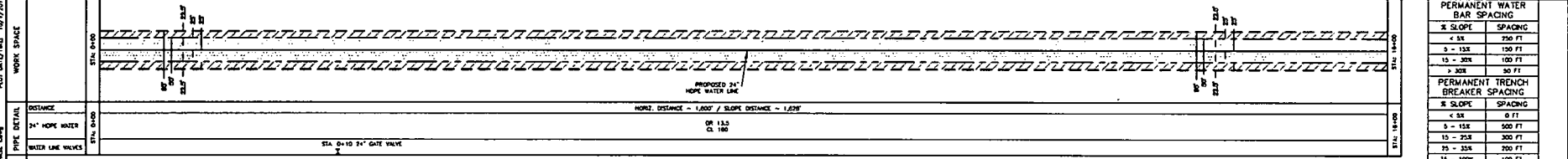
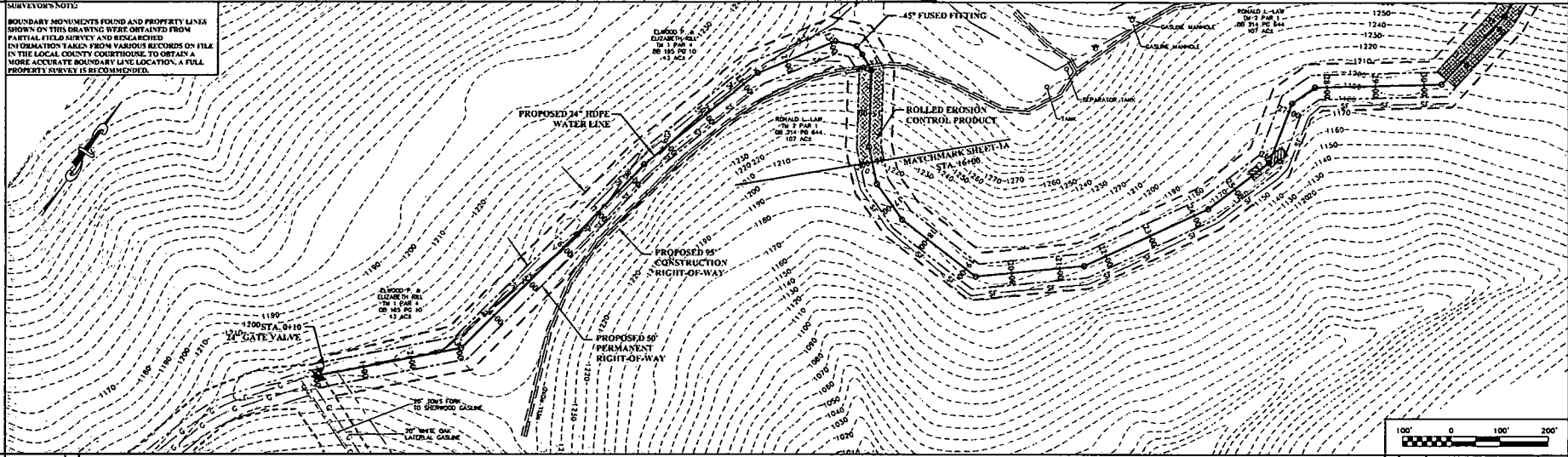
GRANT DISTRICT
SHEET 19

Date, Aerial Photography, APRIL, 1982
Photo No. 946, 270

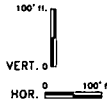
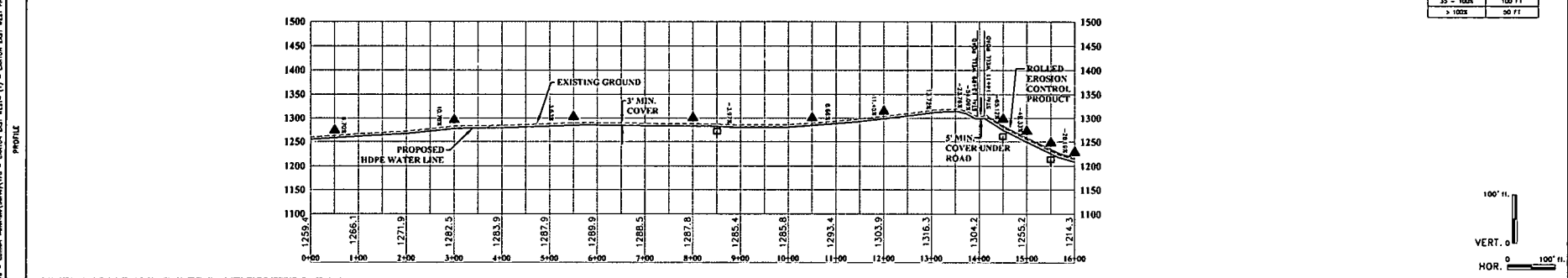
OWNER/EMP. PARCEL NO. PIPE LENGTH (FT)	RONALD LAW TM 2 PAR 1 HORIZONTAL DISTANCE = 867' 8"	ELWOOD P. & ELIZABETH PAUL TM 1 PAR HORIZONTAL DISTANCE = 345' 8"	RONALD LAW TM 2 PAR 1 HORIZONTAL DISTANCE = 2847' 4" (TOTAL)
--	---	---	--

STATIONING	STATIONING	STATIONING	STATIONING
------------	------------	------------	------------

SURVEYOR'S NOTE:
BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEYS AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.



PERMANENT WATER BAR SPACING	
% SLOPE	SPACING
< 3%	250 FT
3 - 15%	150 FT
15 - 30%	100 FT
> 30%	50 FT
PERMANENT TRENCH BREAKER SPACING	
% SLOPE	SPACING
< 5%	0 FT
5 - 15%	500 FT
15 - 25%	300 FT
25 - 35%	200 FT
35 - 100%	100 FT
> 100%	50 FT



ESTIMATED QUANTIFIED MATERIAL LIST			ESTIMATED QUANTIFIED MATERIAL LIST		
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	24" HDPE DR 13.5	1628'			
2	TRENCH FLAG	3 EA			
3	24" HDPE DR 45° FUSED FITTING	1 EA			

LEGEND/ABBREVIATIONS	
G	EXISTING GAS LINE
W	EXISTING WATER LINE
F	EXISTING FENCE
U	EXISTING UTILITY
M	UNDERGROUND UTILITY PANEL LINE
---	EXISTING RIGHT-OF-WAY
---	PERMANENT RIGHT-OF-WAY
---	CONSTRUCTION RIGHT-OF-WAY
---	PROPOSED 24" WATER LINE
---	EXISTING GROUND
---	PIPELINE PROFILE
---	CODE OF WOODS
---	CONTOUR
---	DELT FENCE
---	SUPER SALT FENCE
---	STRENGTH
---	ORANGE SAFETY FENCE
---	NETWORKS
---	ROLLED EROSION CONTROL PRODUCT
---	CONSTRUCTION RIGHT-OF-WAY
---	ADDITIONAL TEMPORARY WORKSPACE
---	PERMANENT RIGHT-OF-WAY
---	EXISTING ROAD
---	EXISTING ROAD
---	STONE CONSTRUCTION ENTRANCE
---	EXISTING ROAD
---	GAS LINE VENT
---	WELL (AS NOTED)
---	GAS METER
---	RECTIFIER
---	GAS LINE NUMBER
---	GAS VALVE
---	UTILITY POLE
---	PIPELINE WALK POST
---	PERMANENT WATER BAR
---	LAPSE TRENCH BREAKER
---	WATER VALVE
---	AIR RELEASE VALVE
---	LINE NUMBER
---	PARCEL NUMBER

PRELIMINARY PLANS



ANTERO RESOURCES CORPORATION
CANTON LOOP ROUND WATER LINE
PROJECT ADRIAN TO PEARL JEAN PAD
PLAN AND PROFILE
DODDRIIDGE COUNTY, WEST VIRGINIA

SHEET NO. 1

DATE: 10/15/2013
BY: [Signature]
CHECKED: [Signature]
SCALE: AS SHOWN
SOURCE: MDT, 7/27/13

010-0715

OWNERSHIP, PARCEL NO. & PIPE LENGTH (FT)

RONALD L. LAW
10 2 PAR 1
HORIZONTAL DISTANCE = 2511' ± (1014)

STATIONING

ELWOOD # 1
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

ELWOOD # 2
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

ELWOOD # 3
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

ELWOOD # 4
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

ELWOOD # 5
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

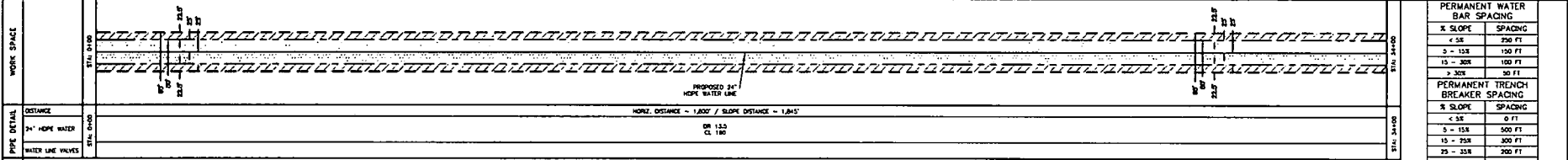
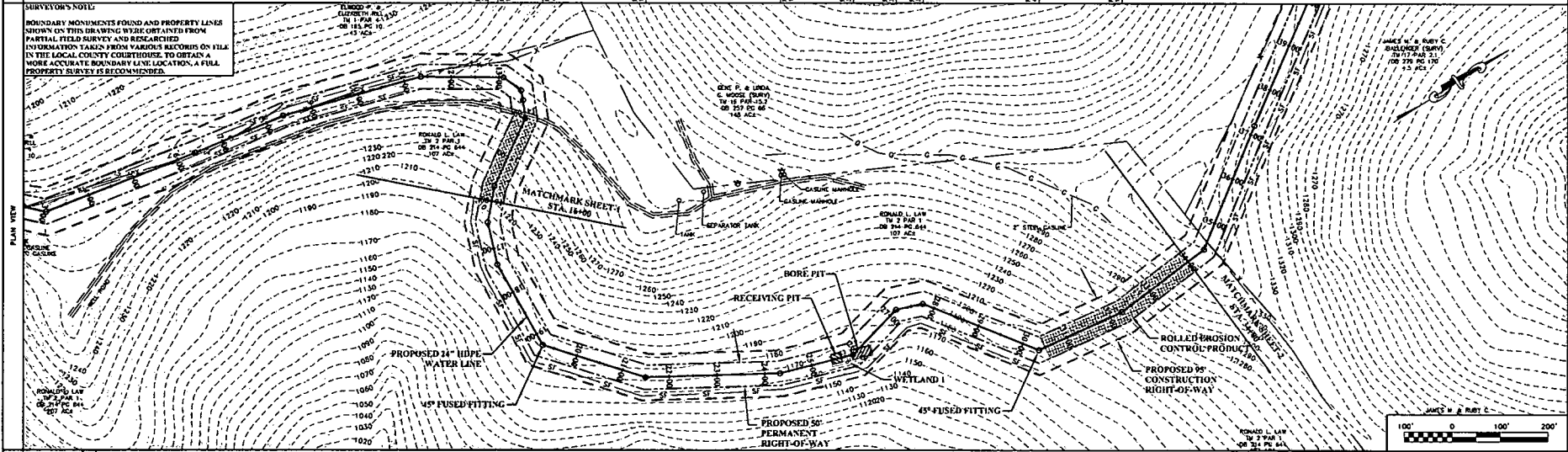
ELWOOD # 6
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

ELWOOD # 7
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

ELWOOD # 8
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

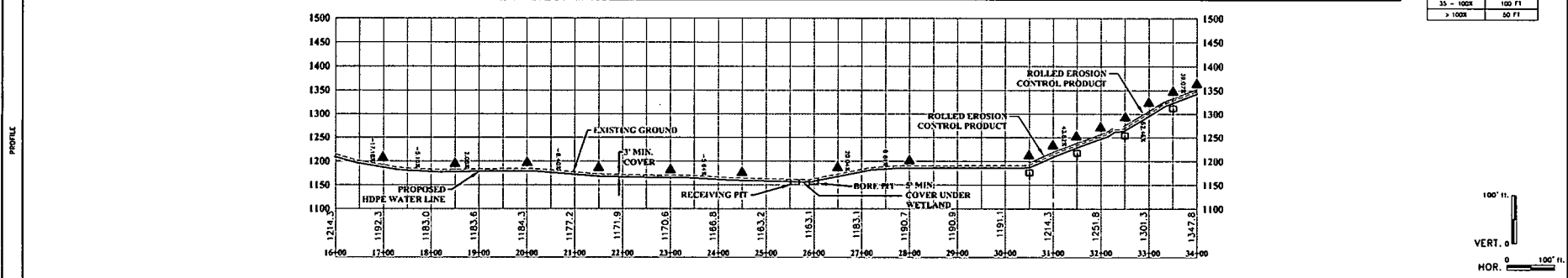
ELWOOD # 9
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±

ELWOOD # 10
CLOSURE WALL 14.50
TO 15 PAR 1
OR 257 PC 66
145 AC±



PERMANENT WATER BAR SPACING	
% SLOPE	SPACING
< 5%	250 FT
5 - 15%	150 FT
15 - 30%	100 FT
> 30%	50 FT

PERMANENT TRENCH BREAKER SPACING	
% SLOPE	SPACING
< 3%	0 FT
3 - 15%	500 FT
15 - 25%	300 FT
25 - 35%	200 FT
35 - 100%	100 FT
> 100%	50 FT



ESTIMATED QUANTIFIED MATERIAL LIST			ESTIMATED QUANTIFIED MATERIAL LIST		
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	24" HDPE DR 13.5	1865'	1	EXISTING GAS LINE	
2	TRENCH PLUG	4 EA	2	EXISTING WATER LINE	
3	24" HDPE DR 45° FUSED FITTING	2 EA	3	EXISTING UTILITY	

LEGEND/ABBREVIATIONS

- C - EXISTING GAS LINE
- W - EXISTING WATER LINE
- UT - EXISTING UTILITY
- U - UNDERGROUND UTILITY
- PL - PANEL LINE
- - EXISTING RIGHT-OF-WAY
- - - - PERMANENT RIGHT-OF-WAY
- - - - CONSTRUCTION RIGHT-OF-WAY
- - - - PROPOSED 24" WATER LINE
- - - - EXISTING GROUND
- - - - PIPELINE PROFILE
- - EDGE OF WOODS
- - CONTOUR
- - BAY FENCE
- - SUPER BAY FENCE
- - STAKE
- - ORANGE SAFETY FENCE
- - WETLANDS
- - ROLLED EROSION CONTROL PRODUCT
- - CONSTRUCTION RIGHT-OF-WAY
- - ADDITIONAL TEMPORARY WORKSPACE
- - PERMANENT RIGHT-OF-WAY
- - STONE CONSTRUCTION ENTRANCE
- - EXISTING ROAD
- - GAS LINE VOID
- - WELL (AS NOTED)
- - GAS METER
- - RECTIFIER
- - GAS LINE MANHOLE
- - GAS VALVE
- - UTILITY POLE
- - PIPELINE WIRE POST
- - PERMANENT WATER BAR
- - EARTH TRENCH BREAKER
- - WATER VALVE
- - AIR RELEASE VALVE
- - SIG. MHP NUMBER
- - PANEL HANDBOOK

PRELIMINARY PLANS

ANTERO RESOURCES CORPORATION

ANTERO RESOURCES

PROJECT: CANTON LOOP AROUND WATER LINE
 LOCATION: CANTON ADRIAN TO PEARL JEAN PAD
 COUNTY: DODDRIEGE COUNTY, WEST VIRGINIA

SHEET NO. **1A**

SCALE: AS SHOWN

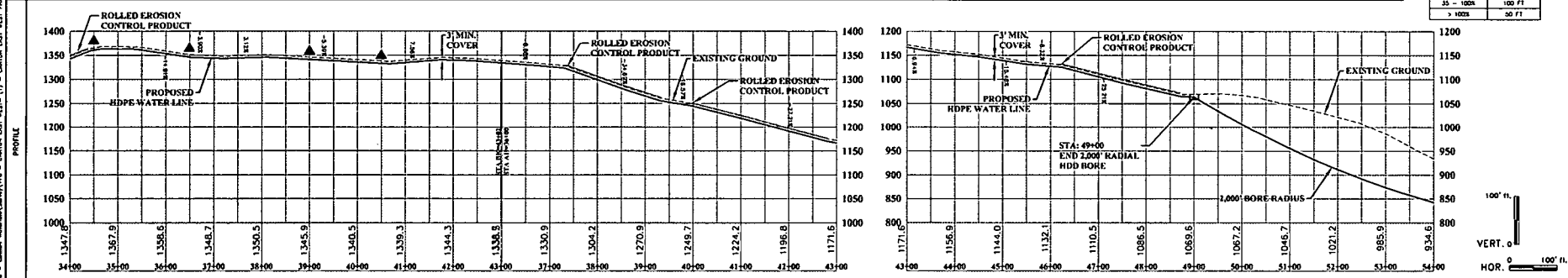
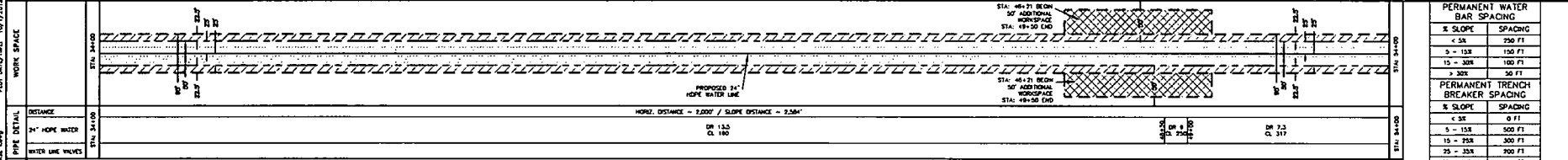
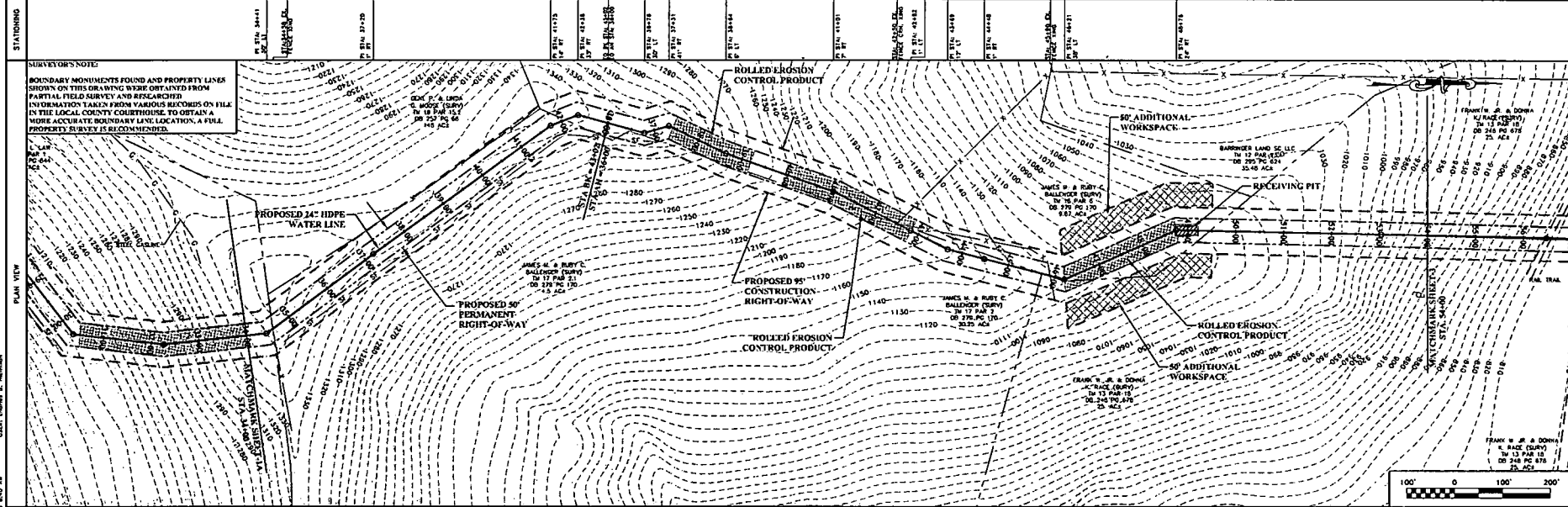
DATE: 01/15/2024

PROJECT NO. 2024-015

010-0715

ANTERO RESOURCES CORPORATION
 1000 10TH AVENUE
 COVINGTON, MISSISSIPPI 38901
 PHONE: (662) 234-1100
 FAX: (662) 234-1101
 WWW.ANTERO.COM

OWNER/SHIP PARCEL NO. & PIPE LENGTH (FT)	RONALD LAW IN 2 PAR 1 HORIZONTAL DISTANCE - 2551' ± (TOTAL)	JAMES H. & RUBY C. BALLENGER IN 17 PAR 2 HORIZONTAL DISTANCE - 752' ±	JAMES H. & RUBY C. BALLENGER IN 18 PAR 2 HORIZONTAL DISTANCE - 742' ±	JAMES H. & RUBY C. BALLENGER IN 19 PAR 2 HORIZONTAL DISTANCE - 827' ±	JAMES H. & RUBY C. BALLENGER IN 20 PAR 2 HORIZONTAL DISTANCE - 374' ±	FRANK W. JR. & DONNA K. RACE (SURV) IN 13 PAR 18 HORIZONTAL DISTANCE - 1,380' ± (TOTAL)
---	--	---	---	---	---	---



NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	3\"/>				

NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	3\"/>				

SYMBOL	DESCRIPTION
(Symbol)	EXISTING GAS LINE
(Symbol)	EXISTING WATER LINE
(Symbol)	EXISTING FENCE
(Symbol)	EXISTING ROAD
(Symbol)	EXISTING UTILITY
(Symbol)	UNDERGROUND UTILITY
(Symbol)	PAVED LINE
(Symbol)	EXISTING RIGHT-OF-WAY
(Symbol)	PERMANENT RIGHT-OF-WAY
(Symbol)	PROPOSED 24\"/>

PRELIMINARY PLANS

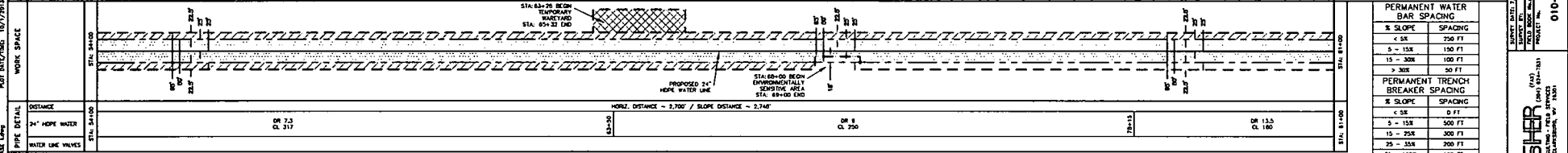
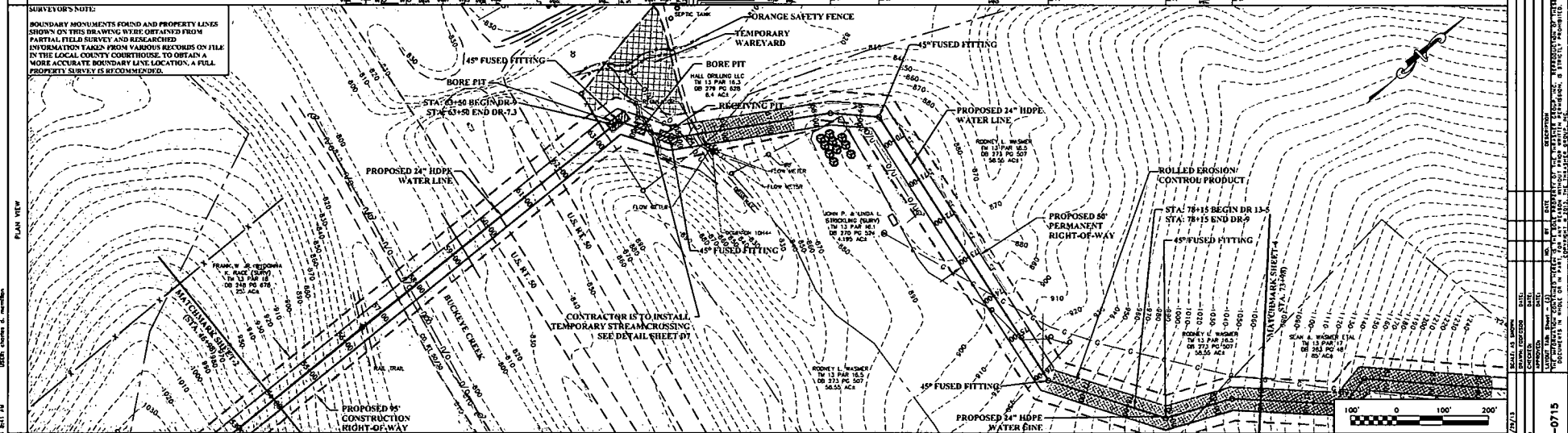
ANTERO RESOURCES

ANTERO RESOURCES CORPORATION
CANTON LOOP AROUND WATER LINE
PROJECT PLAN AND PROFILE
JEAN PAD
DODD BRIDGE COUNTY, WEST VIRGINIA

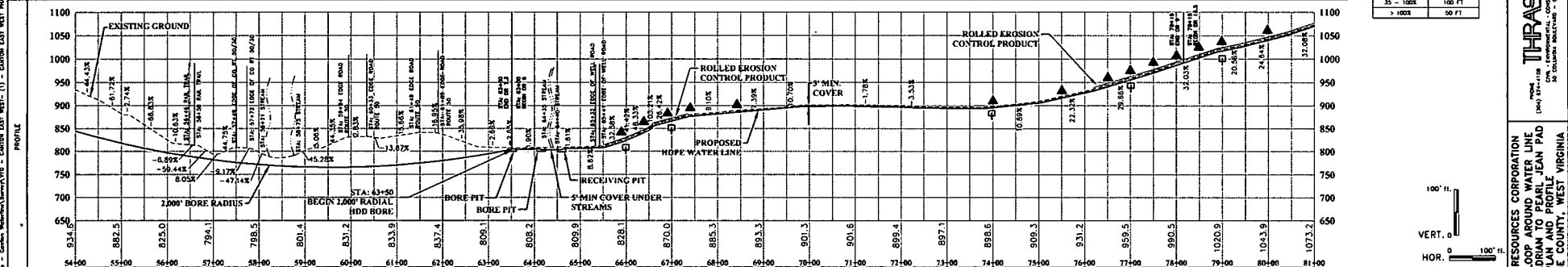
SHEET NO. 2

OWNERSHIP, PARCEL NO. & PIPE LENGTH (FT)	FRANK W. JR. & DONNA R. FAZE, TR 13 PAR 18 HORIZONTAL DISTANCE - 1,360' ± (TOTAL)	HALL DRILLING LLC, TR 13 PAR 18.3 HORIZONTAL DISTANCE - 260' ±	RODNEY L. WARDER, TR 13 PAR 18.4 HORIZONTAL DISTANCE - 1,187' ±	SEAN WARDER ET AL, TR 13 PAR 15 HORIZONTAL DISTANCE - 1,137' ± (TOTAL)
--	---	--	---	--

STATIONING	STA. 71+00	STA. 71+25	STA. 71+50	STA. 71+75	STA. 72+00	STA. 72+25	STA. 72+50	STA. 72+75	STA. 73+00	STA. 73+25	STA. 73+50	STA. 73+75	STA. 74+00	STA. 74+25	STA. 74+50	STA. 74+75	STA. 75+00	STA. 75+25	STA. 75+50	STA. 75+75	STA. 76+00	STA. 76+25	STA. 76+50	STA. 76+75	STA. 77+00	STA. 77+25	STA. 77+50	STA. 77+75	STA. 78+00	STA. 78+25	STA. 78+50	STA. 78+75	STA. 79+00	STA. 79+25	STA. 79+50	STA. 79+75	STA. 80+00	STA. 80+25	STA. 80+50	STA. 80+75	STA. 81+00
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PERMANENT WATER BAR SPACING	
% SLOPE	SPACING
< 5%	75 FT
5 - 15%	150 FT
15 - 30%	100 FT
> 30%	50 FT
PERMANENT TRENCH BREAKER SPACING	
% SLOPE	SPACING
< 5%	D FT
5 - 15%	500 FT
15 - 25%	300 FT
25 - 100%	100 FT
> 100%	50 FT



ESTIMATED QUANTIFIED MATERIAL LIST			ESTIMATED QUANTIFIED MATERIAL LIST		
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	24\"/>				

LEGEND (SYMBOLS)

- G — EXISTING GAS LINE
- W — EXISTING WATER LINE
- F — EXISTING FENCE
- U — EXISTING UTILITY
- P — UNDERGROUND UTILITY
- L — PARALLEL LINE
- R — EXISTING RIGHT-OF-WAY
- P — PERMANENT RIGHT-OF-WAY
- C — CONSTRUCTION RIGHT-OF-WAY
- G — EXISTING GRADE
- P — PIPELINE PROFILE

LEGEND (SYMBOLS)

- P — PERMANENT RIGHT-OF-WAY
- S — STONE COLLECTION DRAINAGE
- C — EXISTING ROAD
- G — GAS LINE VENT
- W — WELL (AS NOTED)
- M — GAS METER
- R — RECEIVERS
- W — GAS LINE WARDER
- G — GAS VALVE
- V — UTILITY POLE
- P — PIPELINE WIRE POST
- W — PERMANENT WATER BAR
- B — CATCH TRENCH BREAKER
- W — WATER VALVE
- A — AIR RELEASE VALVE
- H — T&E W&P HANDBOOK
- H — PARCEL HANDBOOK

PRELIMINARY PLANS

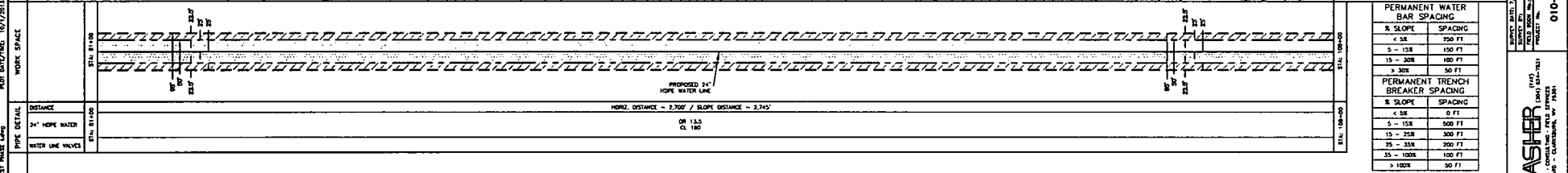
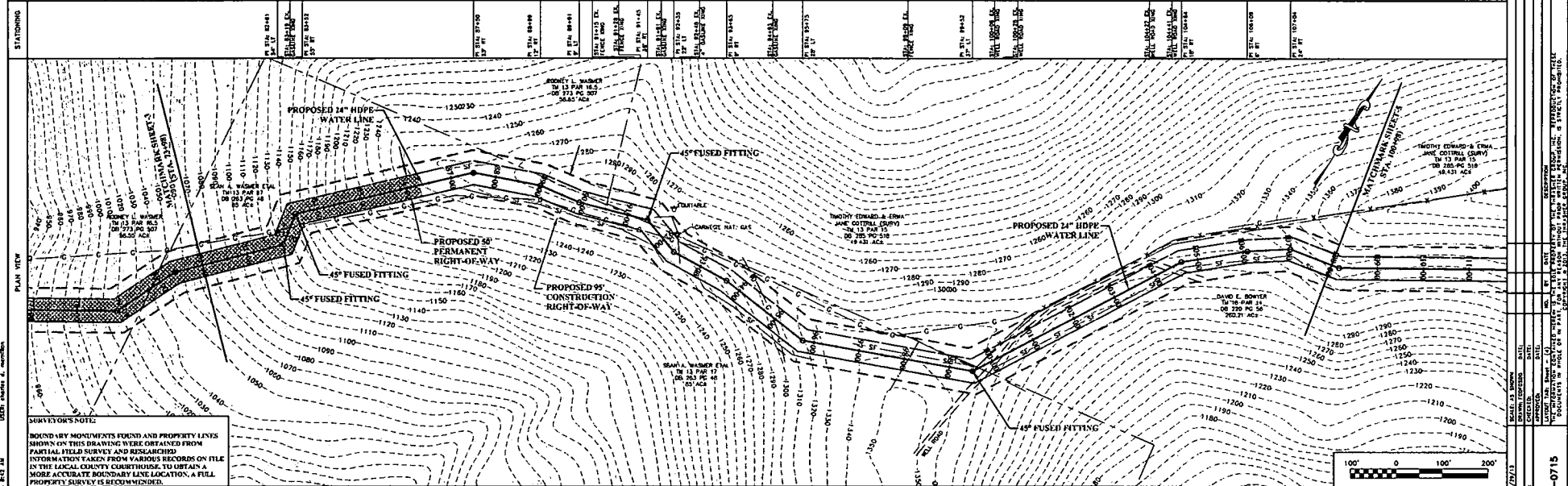
ANTERO RESOURCES

ANTERO RESOURCES CORPORATION
 CANYON LOOP ROUND WATER LINE
 PROJECT ADRIAN TO PEARL JEAN PAD
 DODDRIIDGE COUNTY, WEST VIRGINIA

SHEET NO. 3

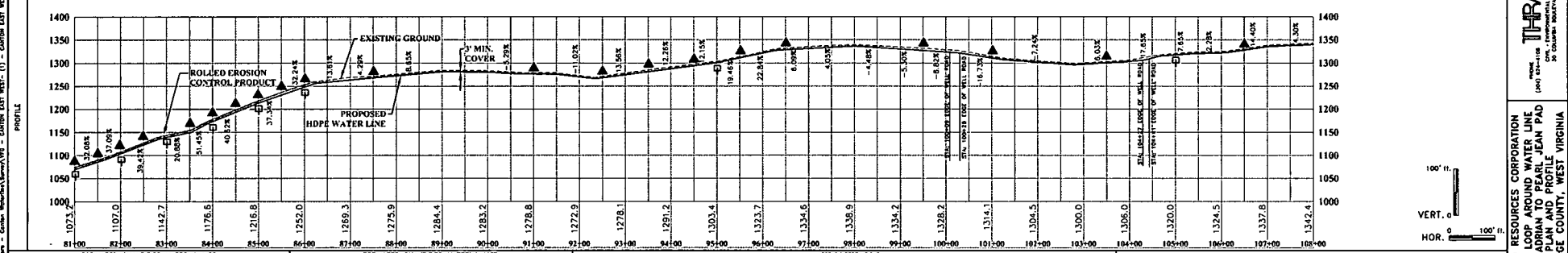
DATE: 10/27/2014
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT NO.: 010-0715

OWNERSHIP, PARCEL NO. & PIPE LENGTH (FT)	SEAN A. WADSWER ET AL IN 13 PAR 17 HORIZONTAL DISTANCE = 1,427' ± (TOTAL)	TIMOTHY EDWARDS & ERMA ANNE COTTELL IN 13 PAR 13 HORIZONTAL DISTANCE = 45' ±	SEAN A. WADSWER ET AL IN 13 PAR 17 HORIZONTAL DISTANCE = 811' ±	DAVID E. ROYER IN 18 PAR 14 HORIZONTAL DISTANCE = 3,481' ± (TOTAL)
--	--	--	--	---



100' 0 100' 200'

PERMANENT WATER BAR SPACING	
% SLOPE	SPACING
< 3%	750 FT
3 - 15%	150 FT
15 - 30%	100 FT
> 30%	50 FT
PERMANENT TRENCH BREAKER SPACING	
% SLOPE	SPACING
< 3%	0 FT
3 - 15%	500 FT
15 - 25%	300 FT
25 - 35%	200 FT
35 - 100%	100 FT
> 100%	50 FT



ESTIMATED QUANTIFIED MATERIAL LIST			ESTIMATED QUANTIFIED MATERIAL LIST		
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	24" HDPE DR 13.5	3745'	1	EXISTING GAS LINE	
2	TRENCH FLAG	8 EA	2	EXISTING WATER LINE	
3	24" HDPE DR-45° FUSED FITTING	4 EA	3	EXISTING FENCE	

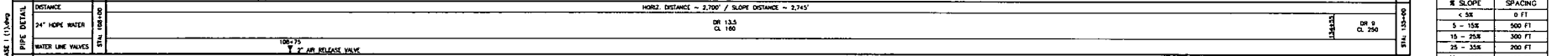
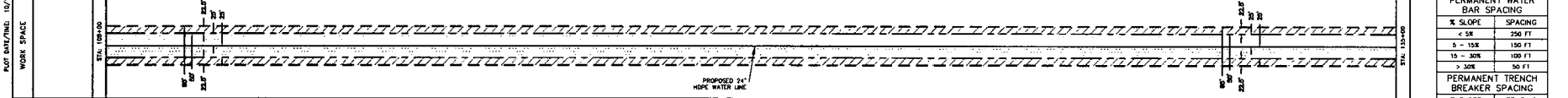
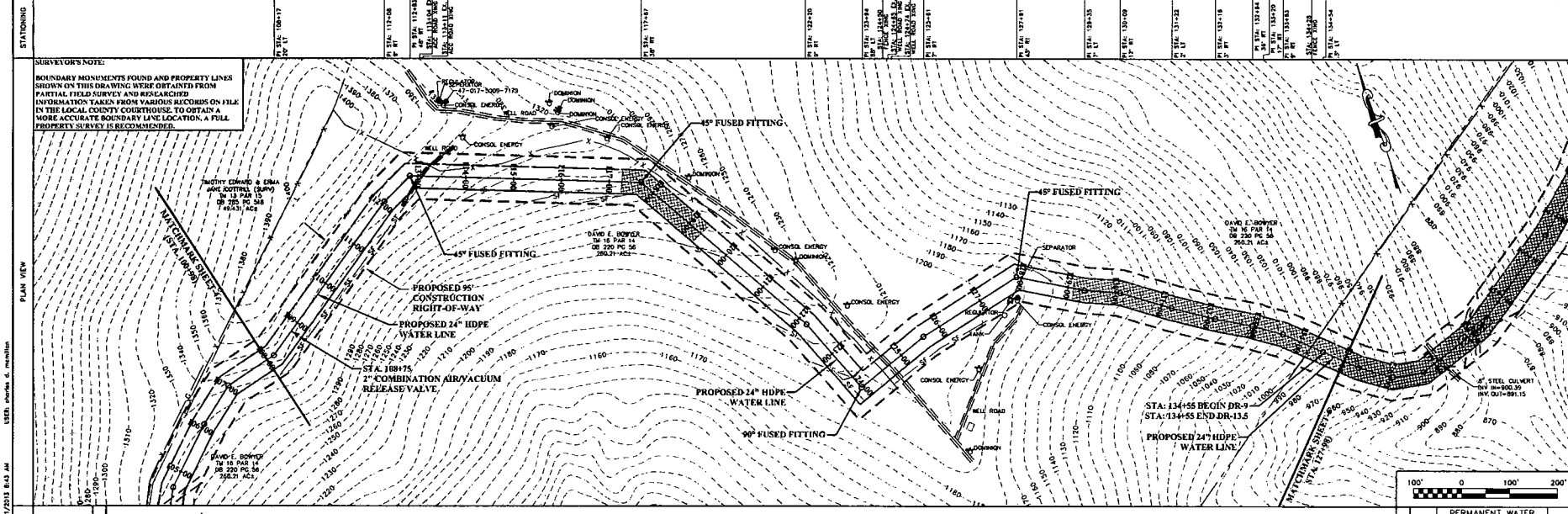
PRELIMINARY PLANS

ANTERO RESOURCES CORPORATION
CANTON LOOP AROUND WATER LINE
PROJECT
ADRIAN TO PEARL JEAN PAD
PLAN AND PROFILE
DODDRIIDGE COUNTY, WEST VIRGINIA

SHEET NO. 4

ANTERO RESOURCES

OWNERSHIP, PARCEL NO. & PIPE LENGTH (FT)	DAVID E. BOWSER TM 18 PAR 14 DB 200 PG 56 HORIZONTAL DISTANCE 5,447 FT (TOTAL)	DELMET C. LEATHERMAN TM 18 PAR 15 DB 216 PG 44 HORIZONTAL DISTANCE 5,417 FT (TOTAL)
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PERMANENT WATER BAR SPACING	
% SLOPE	SPACING
< 3%	250 FT
5 - 15%	150 FT
15 - 30%	100 FT
> 30%	50 FT
PERMANENT TRENCH BREAKER SPACING	
% SLOPE	SPACING
< 3%	0 FT
5 - 15%	500 FT
15 - 25%	300 FT
25 - 35%	200 FT
35 - 100%	100 FT
> 100%	50 FT

NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	24" HDPE DR 9	47'	1	EXISTING GAS LINE	
2	24" HDPE DR 13.5	2,698'	2	EXISTING WATER LINE	
3	TRENCH BREAKER	8 EA	3	EXISTING FENCE	
4	2" COMBINATION AIR/VACUUM RELEASE VALVE	1 EA	4	OVERHEAD UTILITY	
5	24" HDPE DR-9 45° FUSED FITTING	3 EA	5	UNDERGROUND UTILITY	
6	24" HDPE DR-9 90° FUSED FITTING	1 EA	6	PARCEL LINE	

ESTIMATED QUANTIFIED MATERIAL LIST		ESTIMATED QUANTIFIED MATERIAL LIST			
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	24" HDPE DR 9	47'	1	EXISTING GAS LINE	
2	24" HDPE DR 13.5	2,698'	2	EXISTING WATER LINE	
3	TRENCH BREAKER	8 EA	3	EXISTING FENCE	
4	2" COMBINATION AIR/VACUUM RELEASE VALVE	1 EA	4	OVERHEAD UTILITY	
5	24" HDPE DR-9 45° FUSED FITTING	3 EA	5	UNDERGROUND UTILITY	
6	24" HDPE DR-9 90° FUSED FITTING	1 EA	6	PARCEL LINE	

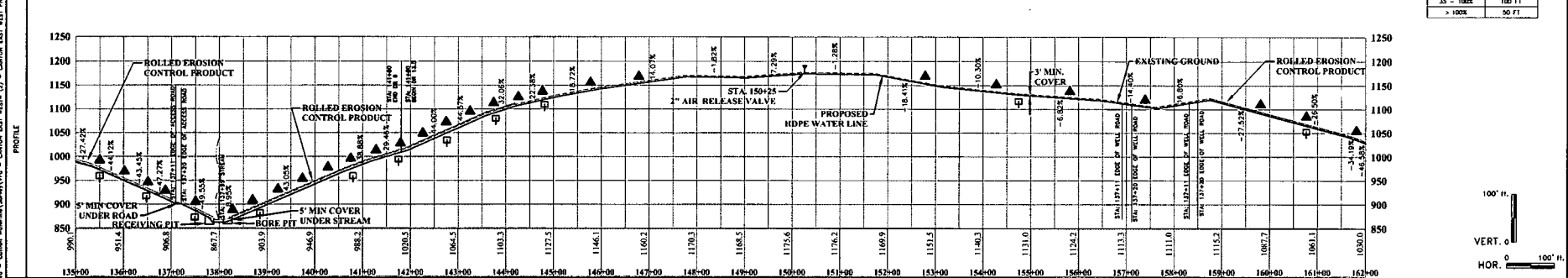
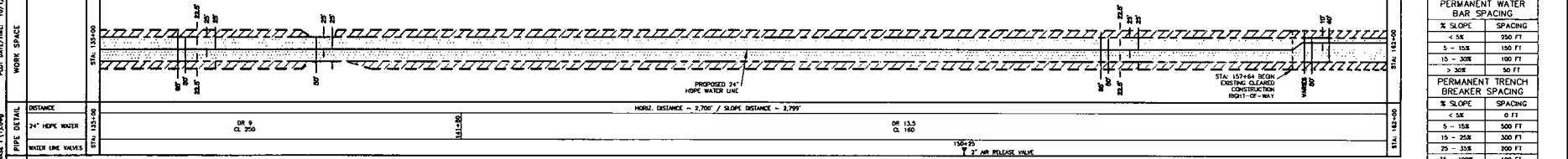
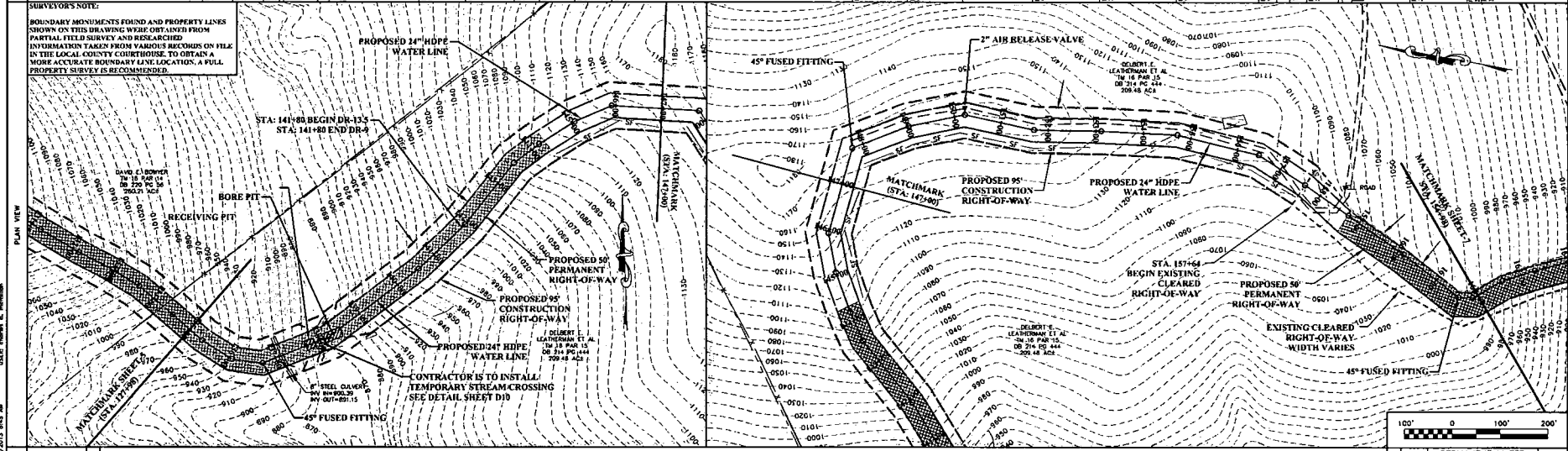
ANTERO RESOURCES CORPORATION
WATER LINE CONSTRUCTION PROJECT
PLAN AND PROFILE
 DODDRIDGE COUNTY, WEST VIRGINIA

ANTERO RESOURCES

DATE: 05/01/2018
 USER: mitchell, s. mitchell
 USER: mitchell, s. mitchell
 DATE: 05/01/2018 8:43 AM
 PROJECT NO.: 1010-0715
 SHEET NO.: 5

OWNERSHIP PARCEL NO.	DEWEY E. LEATHERMAN TR 16 PAR 15 DB 214 PG 444 HORIZONTAL DISTANCE 3,417 FT (TOTAL)	OWNERSHIP PARCEL NO.	DEWEY E. LEATHERMAN TR 16 PAR 15 DB 214 PG 444 HORIZONTAL DISTANCE 3,417 FT (TOTAL)
PIPE LENGTH (FT)			

STATIONING	ST. 13+00 ST. 13+10 ST. 13+20 ST. 13+30 ST. 13+40 ST. 13+50 ST. 13+60 ST. 13+70 ST. 13+80 ST. 13+90 ST. 14+00 ST. 14+10 ST. 14+20 ST. 14+30 ST. 14+40 ST. 14+50 ST. 14+60 ST. 14+70 ST. 14+80 ST. 14+90 ST. 15+00 ST. 15+10 ST. 15+20 ST. 15+30 ST. 15+40 ST. 15+50 ST. 15+60 ST. 15+70 ST. 15+80 ST. 15+90 ST. 16+00
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NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	24" HDPE DR 9	734'	1	45° FUSED FITTING	1 EA
2	24" HDPE DR 13.5	7064'	2	2" AIR RELEASE VALVE	2 EA
3	TRENCH BREAKER	1 EA	3	24" HDPE DR-7.3 45° FUSED FITTING	1 EA
4	2" AIR RELEASE VALVE	1 EA	4	24" HDPE DR-9 45° FUSED FITTING	1 EA

ANTERO RESOURCES CORPORATION
CANTON LOOP AROUND WATER LINE
PROJECT ADRIAN TO PEARL JEAN PAD
PLAN AND PROFILE
DODDRIIDGE COUNTY, WEST VIRGINIA

ANTERO RESOURCES

THRASHER
CIVIL, ENVIRONMENTAL, CONSULTING, FIELD SERVICES
20 COLLEEN DRIVE - CLINTON, WV 25705

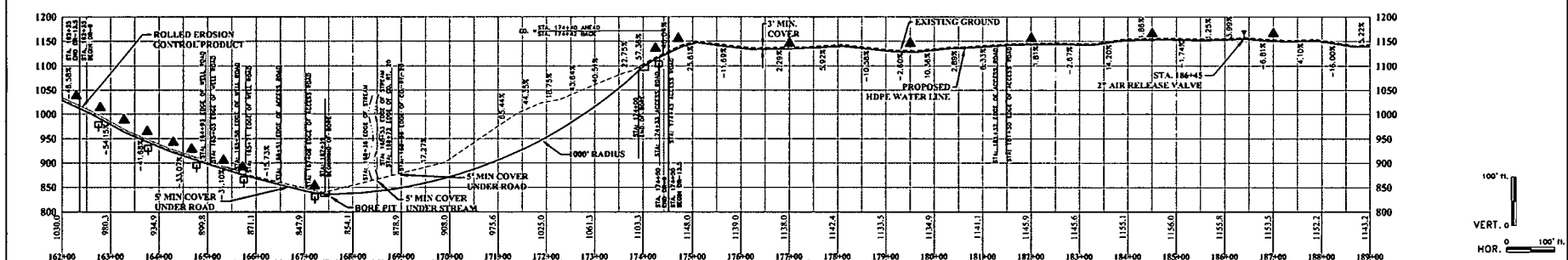
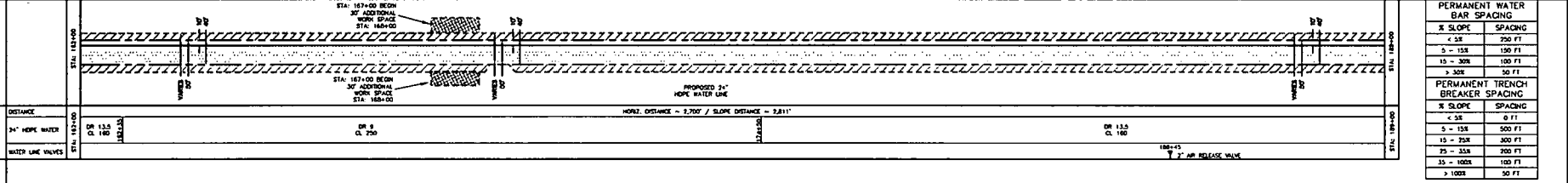
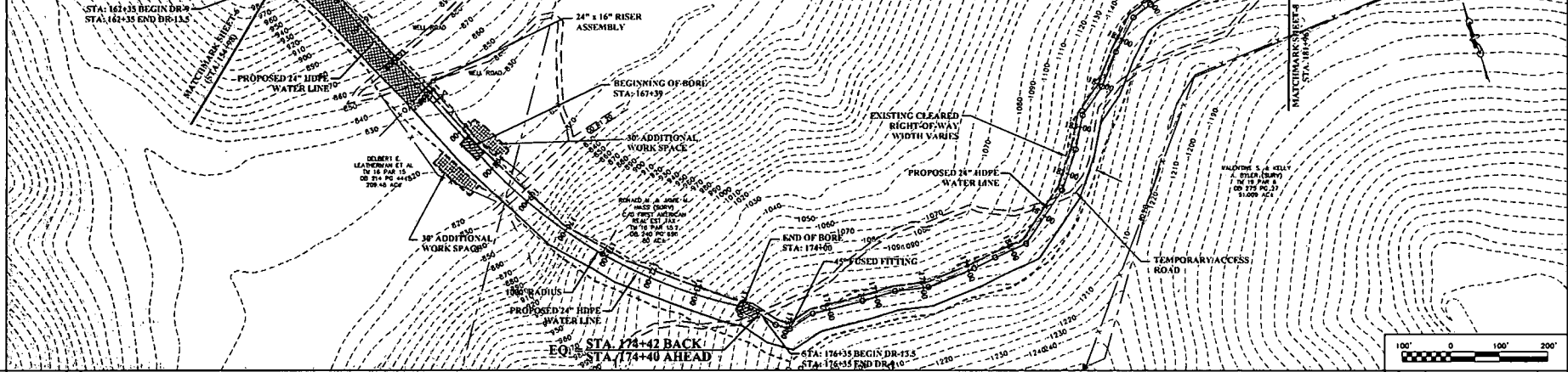
SCALE: 1" = 20'

VERT. 0 100' H. 100' H.

SHEET NO. 6

OWNER/PROP. PARCEL NO. & PIPE LENGTH (FT)	DEWEY E. LEATHERMAN TO 16 PAD 15 OR 214 PG 444 HORIZONTAL DISTANCE 3,417 FT (TOTAL)	RONALD W. & JAMES H. HASS TO 18 PAD 15.2 OR 240 PG 498 HORIZONTAL DISTANCE 27 FT	CO ROUTE 70 HORIZONTAL DISTANCE 14 FT (TOTAL)	RONALD W. & JAMES H. HASS TO 18 PAD 15.2 OR 240 PG 498 HORIZONTAL DISTANCE 3,143 FT (TOTAL)
STATIONING	STA. 162+00 TO STA. 167+00	STA. 167+00 TO STA. 167+39	STA. 167+39 TO STA. 174+40	STA. 174+40 TO STA. 189+00

SURVEYOR'S NOTE:
BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION. A FULL PROPERTY SURVEY IS RECOMMENDED.



PERMANENT WATER BAR SPACING	
R SLOPE	SPACING
< 2%	250 FT
2 - 15%	150 FT
15 - 30%	100 FT
> 30%	50 FT

PERMANENT TRENCH BREAKER SPACING	
R SLOPE	SPACING
< 2%	0 FT
2 - 15%	500 FT
15 - 30%	300 FT
30 - 100%	200 FT
> 100%	50 FT

ESTIMATED QUANTIFIED MATERIAL LIST	ESTIMATED QUANTIFIED MATERIAL LIST																																																																		
<table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>QUANTITY</th> <th>NO.</th> <th>DESCRIPTION</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>24" HDPE DR 11.5</td> <td>1458'</td> <td>1</td> <td>EXISTING GAS LINE</td> <td></td> </tr> <tr> <td>2</td> <td>24" HDPE DR 9</td> <td>1315'</td> <td>2</td> <td>EXISTING WATER LINE</td> <td></td> </tr> <tr> <td>3</td> <td>TRENCH PLUG</td> <td>4 EA</td> <td>3</td> <td>EXISTING 6" WATER LINE</td> <td></td> </tr> <tr> <td>4</td> <td>2" AIR RELEASE VALVE</td> <td>1 EA</td> <td>4</td> <td>EXISTING UNDERGROUND UTILITY</td> <td></td> </tr> <tr> <td>5</td> <td>24" HDPE DR 2.5" FUSED FITTING</td> <td>1 EA</td> <td>5</td> <td>EXISTING RIGHT-OF-WAY</td> <td></td> </tr> </tbody> </table>	NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY	1	24" HDPE DR 11.5	1458'	1	EXISTING GAS LINE		2	24" HDPE DR 9	1315'	2	EXISTING WATER LINE		3	TRENCH PLUG	4 EA	3	EXISTING 6" WATER LINE		4	2" AIR RELEASE VALVE	1 EA	4	EXISTING UNDERGROUND UTILITY		5	24" HDPE DR 2.5" FUSED FITTING	1 EA	5	EXISTING RIGHT-OF-WAY		<table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>QUANTITY</th> <th>NO.</th> <th>DESCRIPTION</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>EXISTING GROUND</td> <td></td> <td>1</td> <td>PERMANENT RIGHT-OF-WAY</td> <td></td> </tr> <tr> <td>2</td> <td>CONSTRUCTION RIGHT-OF-WAY</td> <td></td> <td>2</td> <td>CONSTRUCTION RIGHT-OF-WAY</td> <td></td> </tr> <tr> <td>3</td> <td>PROPOSED 24" WATER LINE</td> <td></td> <td>3</td> <td>EXISTING GROUND</td> <td></td> </tr> <tr> <td>4</td> <td>PIPELINE PROFILE</td> <td></td> <td>4</td> <td>ADDITIONAL TEMPORARY WORKSPACE</td> <td></td> </tr> </tbody> </table>	NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY	1	EXISTING GROUND		1	PERMANENT RIGHT-OF-WAY		2	CONSTRUCTION RIGHT-OF-WAY		2	CONSTRUCTION RIGHT-OF-WAY		3	PROPOSED 24" WATER LINE		3	EXISTING GROUND		4	PIPELINE PROFILE		4	ADDITIONAL TEMPORARY WORKSPACE	
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY																																																														
1	24" HDPE DR 11.5	1458'	1	EXISTING GAS LINE																																																															
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4	2" AIR RELEASE VALVE	1 EA	4	EXISTING UNDERGROUND UTILITY																																																															
5	24" HDPE DR 2.5" FUSED FITTING	1 EA	5	EXISTING RIGHT-OF-WAY																																																															
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY																																																														
1	EXISTING GROUND		1	PERMANENT RIGHT-OF-WAY																																																															
2	CONSTRUCTION RIGHT-OF-WAY		2	CONSTRUCTION RIGHT-OF-WAY																																																															
3	PROPOSED 24" WATER LINE		3	EXISTING GROUND																																																															
4	PIPELINE PROFILE		4	ADDITIONAL TEMPORARY WORKSPACE																																																															

PRELIMINARY PLANS

ANTERO RESOURCES

ANTERO RESOURCES CORPORATION
CANTON LOOP AROUND WATER LINE
PROJECT ADRIAN TO PEARL JEAN PAD
PLAN AND PROFILE
DODDRIEGE COUNTY, WEST VIRGINIA

SHEET NO. 7

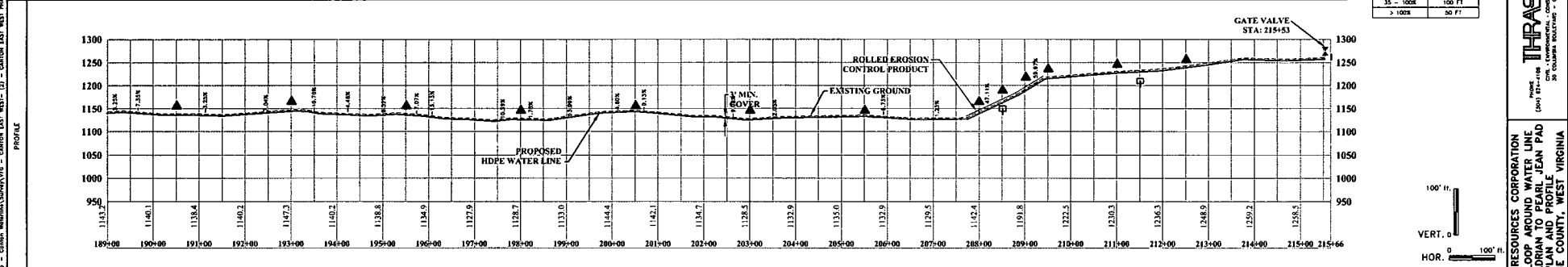
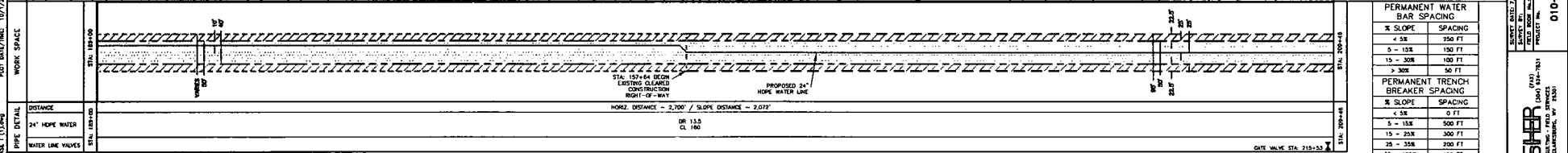
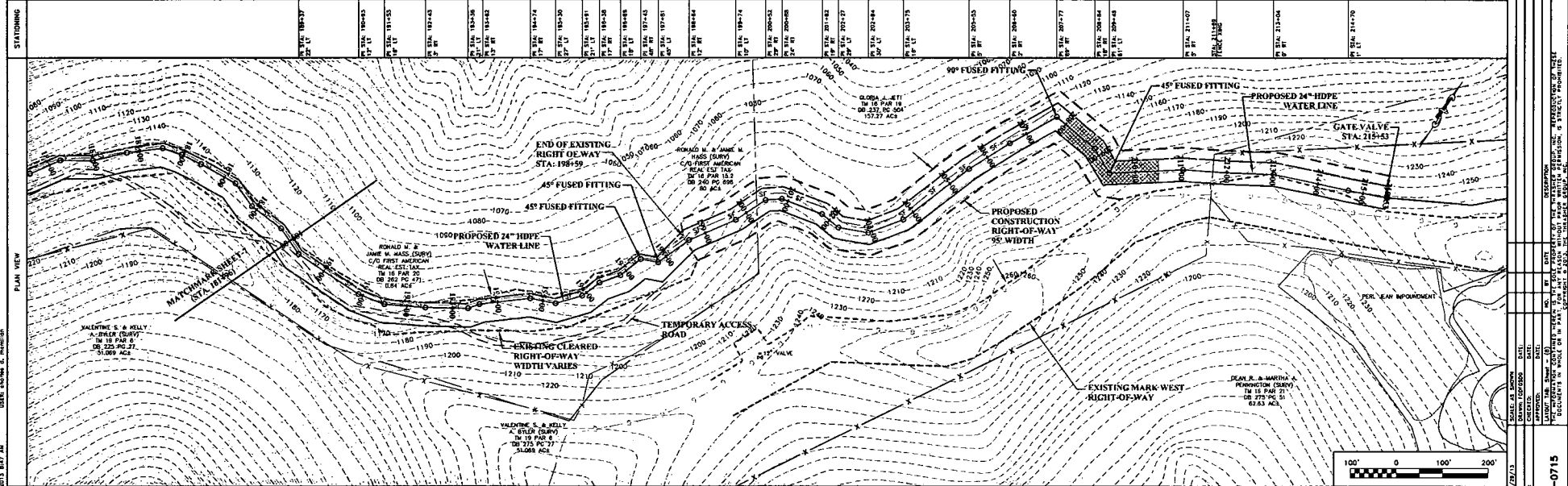
DATE: 10/27/2011 10:00 AM
USER: andrew.a.williams

SCALE: AS SHOWN
DATE: 10/27/2011
PROJECT NO.: 1010-0715

ANTERO RESOURCES CORPORATION
CANTON LOOP AROUND WATER LINE
PROJECT ADRIAN TO PEARL JEAN PAD
PLAN AND PROFILE
DODDRIEGE COUNTY, WEST VIRGINIA

SHEET NO. 7

OWNERSHIP, PARCEL NO. & PIPE LENGTH (FT)	RONALD W. & JANE M. HASS IN 18 PAR 15.2 DB 237 PG 504 HORIZONTAL DISTANCE 3,148 FT (TOTAL)	GLORIA J. JETT IN 18 PAR 18 DB 237 PG 504 HORIZONTAL DISTANCE 1,142 FT	GLORIA J. JETT IN 18 PAR 7 DB 237 PG 504 HORIZONTAL DISTANCE 384 FT
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ESTIMATED QUANTIFIED MATERIAL LIST			ESTIMATED QUANTIFIED MATERIAL LIST		
NO.	DESCRIPTION	QUANTITY	NO.	DESCRIPTION	QUANTITY
1	TRENCH BREAKER	3	1	EXISTING GAS LINE	1
2	24" HDPE DR 13.5	2,684'	2	EXISTING WATER LINE	1
3	24" HDPE DR-9 45° FUSED FITTING	3 E.A.	3	EXISTING UTILITY	1
4	24" HDPE DR-9 90° FUSED FITTING	1 E.A.	4	UNDERGROUND UTILITY	1

LEGEND/ABBREVIATIONS	
— G —	EXISTING GAS LINE
— W —	EXISTING WATER LINE
— U —	EXISTING UTILITY
— UN —	UNDERGROUND UTILITY
— PL —	PARCEL LINE
— CR —	EXISTING RIGHT-OF-WAY
— CC —	CONSTRUCTION RIGHT-OF-WAY
— EG —	EXISTING GROUND
— P —	PIPELINE PROFILE
—	EDGE OF WOODS
—	CONTOUR
—	3' X 3' FENCE
—	SUPER SALT FENCE
—	TREELINE
—	ORANGE SAFETY FENCE
—	WETLANDS
—	ROLLED EROSION CONTROL PRODUCT
—	CONSTRUCTION RIGHT-OF-WAY
—	ADDITIONAL TEMPORARY WORKSPACE
—	PERMANENT RIGHT-OF-WAY
—	STONE CONSTRUCTION ENTRANCE
—	EXISTING ROAD
—	GAS LINE VENT
—	WELL (AS NOTED)
—	DOG WHEEL
—	RECTIFIER
—	DOG LINE MARKER
—	GAS VALVE
—	UTILITY POLE
—	PIPELINE WALK POST
—	PERMANENT WATER BAR
—	CARPEN TRENCH BREAKER
—	WATER VALVE
—	AIR RELEASE VALVE
—	T&E MAP NUMBER
—	PARCEL MARKER

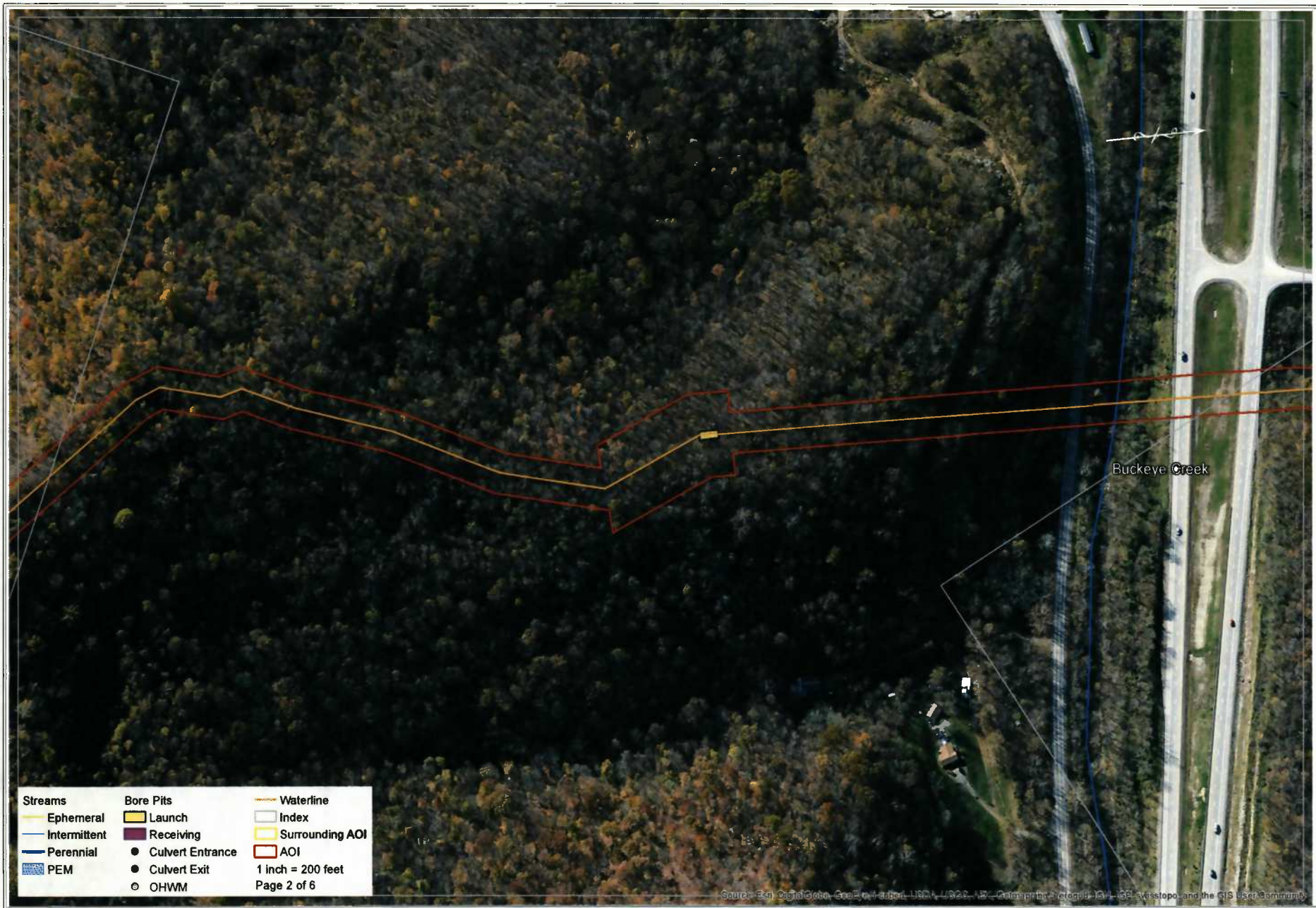
PRELIMINARY PLANS

ANTERO RESOURCES CORPORATION
CANTON LOOPS AROUND WATER LINE
PROJECT PLAN AND PROFILE
JEAN PAD
DODDRIEGE COUNTY, WEST VIRGINIA

SHEET NO. 8

JOB FILE: 18-010-0118 - CANTON WATERLINE/AVI - CANTON EAST WEST - (D) - CANTON EAST WEST JEAN PAD
 DATE: 10/27/2015 8:57 AM
 USER: tommy.s. mitchell

SCALE: AS SHOWN
 DATE: 10/27/15
 DRAWN: JEFFREY
 CHECKED: JEFFREY
 PROJECT NO.: 18-010-0118
 SHEET NO.: 8 OF 10
 010-0715
 ANTHERO RESOURCES CORPORATION
 CANTON LOOPS AROUND WATER LINE
 PROJECT PLAN AND PROFILE
 JEAN PAD
 DODDRIEGE COUNTY, WEST VIRGINIA
 SHEET NO. 8



Source: Esri, DigitalGlobe, GeoEye, IGN, USDA, USDA, AeroGRID, IGN, Esri, Swisstopo, and the GIS User Community

Streams	Bore Pits	Waterline
— Ephemeral	■ Launch	— Waterline
— Intermittent	■ Receiving	□ Index
— Perennial	● Culvert Entrance	□ Surrounding AOI
▨ PEM	● Culvert Exit	□ AOI
	○ OHWM	1 inch = 200 feet

Page 2 of 6

Figure 4: Delineation
 Canton Loop Around Waterline
 Doddridge County - West Virginia

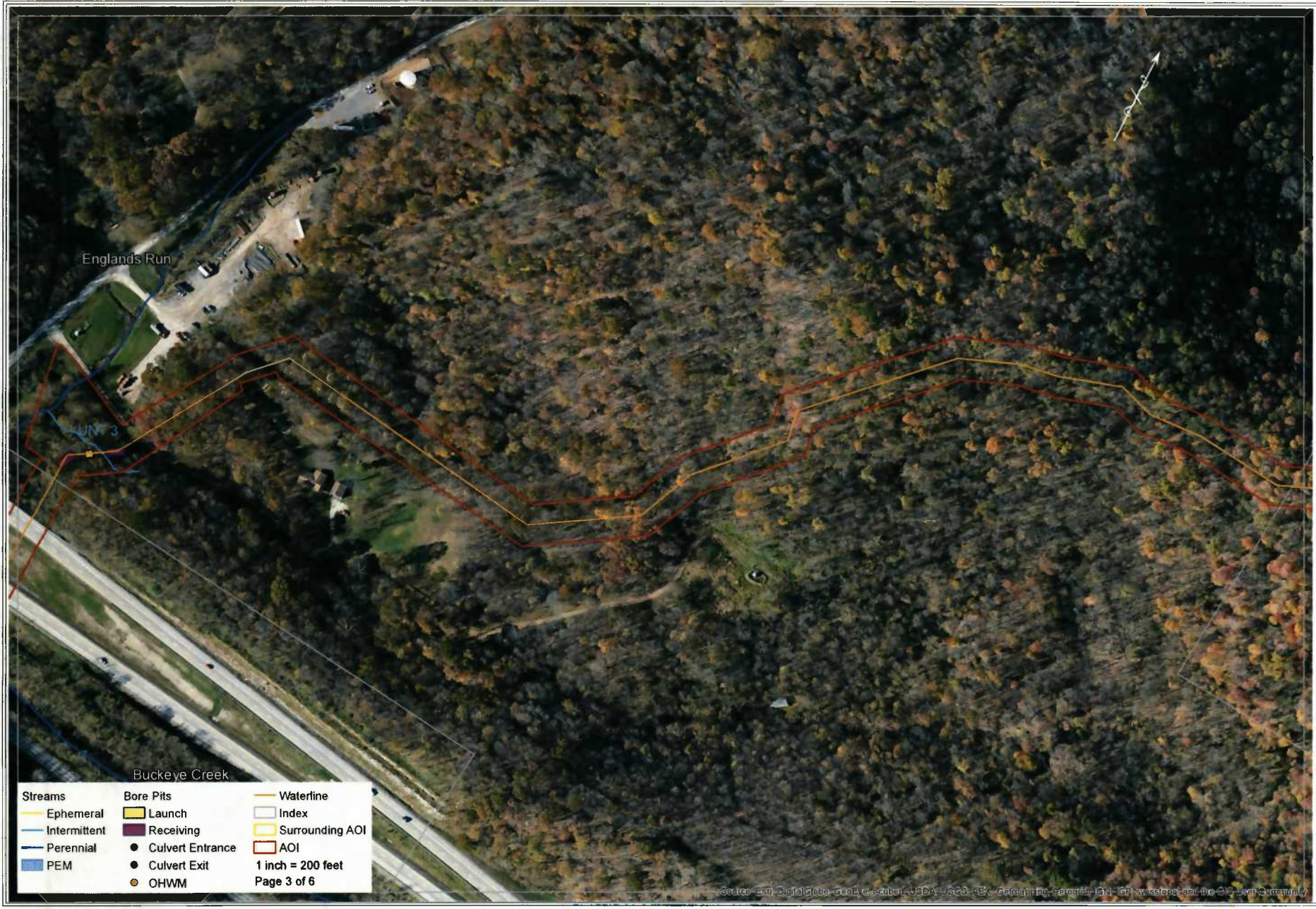


Figure 4: Delineation
 Canton Loop Around Waterline
 Doddridge County - West Virginia

Streams	Bore Pits	Waterline
— Ephemeral	■ Launch	— Index
— Intermittent	■ Receiving	— Surrounding AOI
— Perennial	● Culvert Entrance	■ AOI
■ PEM	● Culvert Exit	1 inch = 200 feet
	● OHWM	Page 3 of 6

Source: Esri, DigitalGlobe, GeoEye, Earthstar (USA), USGS, Aero, IGN, CNR, IGN, GEBCO, and the OpenStreetMap contributors

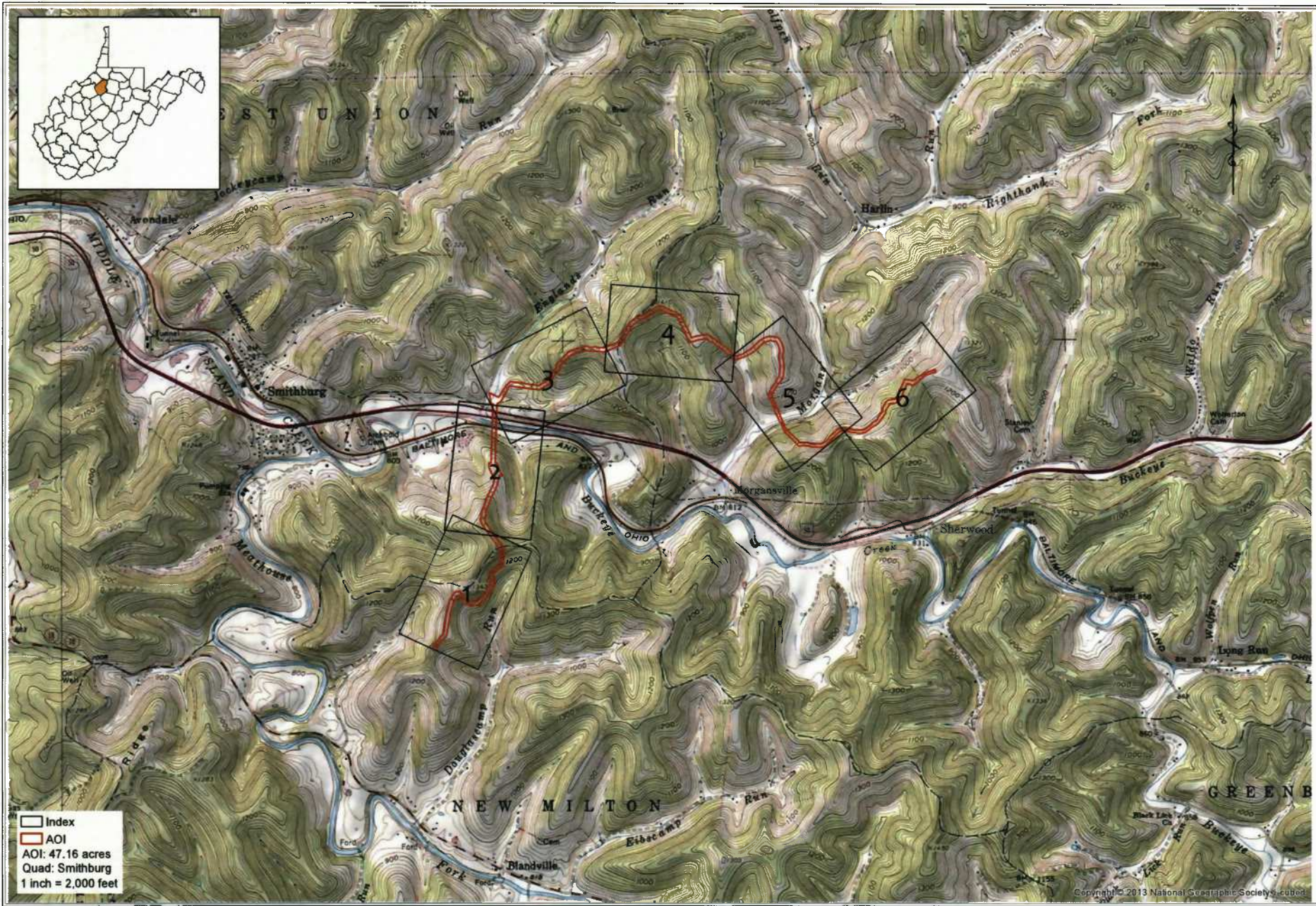


Figure 1: Site Location
 Canton Loop Around Waterline
 Doddridge County - West Virginia

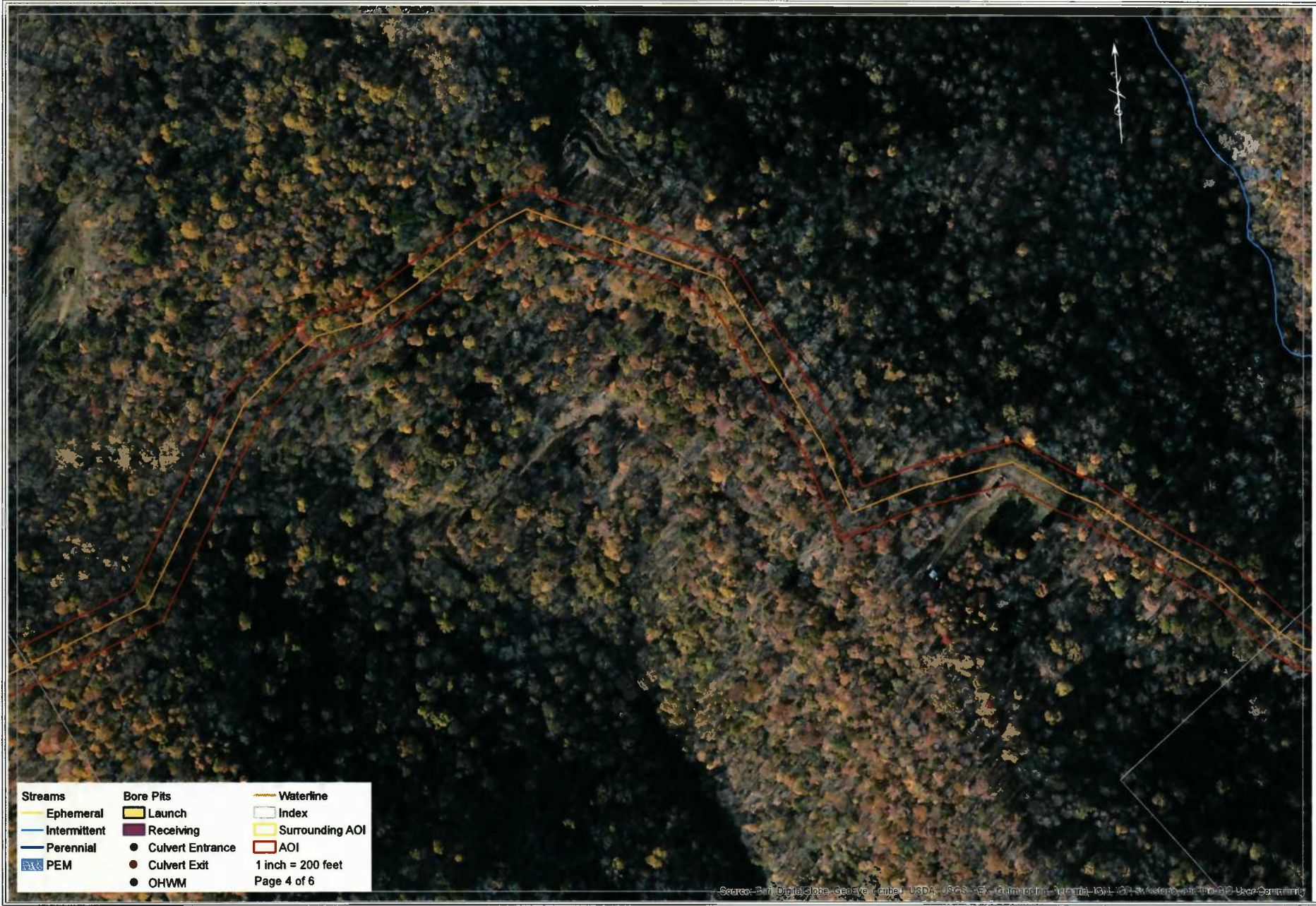


Figure 4: Delineation
Canton Loop Around Waterline
Doddridge County - West Virginia



Source: Esri, DigitalGlobe, GeoEye, IGN, GeoEye, USDA, USGS, AeroGRID, IGN, Esri, Swire, and the GIS User Community

Figure 4: Delineation
Canton Loop Around Waterline
Doddridge County - West Virginia

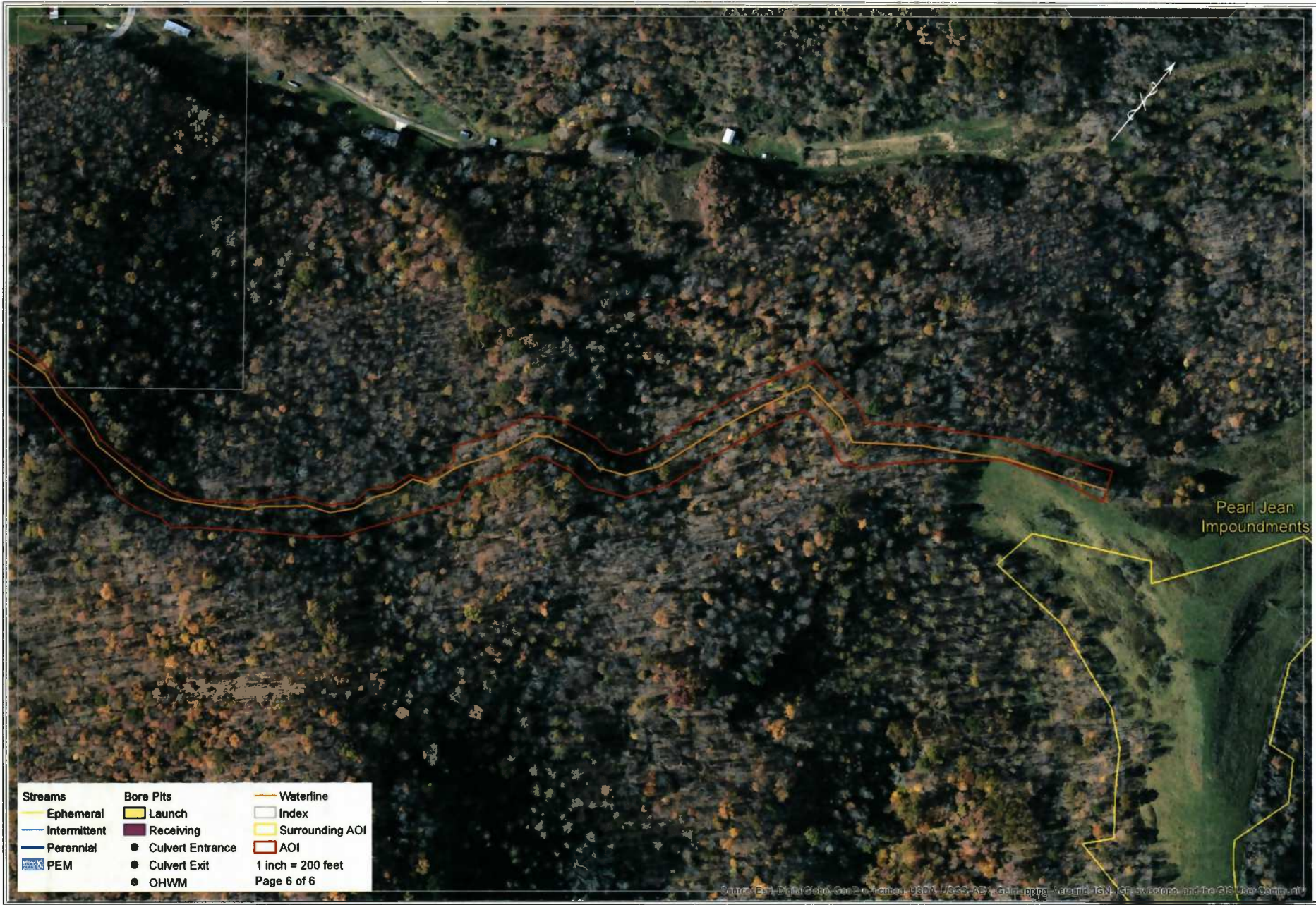


Figure 4: Delineation
Canton Loop Around Waterline
Doddridge County - West Virginia



Figure 4: Delineation
Canton Loop Around Waterline
Doddridge County - West Virginia

Source: Best Digital Globe, GeoEye, Earthstar, USDA, USGS, AeroGRID, IGN, IGP, Swisstopo, and The GeoEye Company

October 1, 2013

U.S. Fish and Wildlife Service
West Virginia Field Office
694 Beverly Pike
Elkins, WV 26241

**RE: *Project Review Request
Antero Resources Corporation
Canton Loop Around Water Line Project – Adrian to Pearl Jean
Doddridge County, West Virginia
Thrasher Project #101-010-0715***

To whom it may concern:

On behalf of Antero Resources (Antero), The Thrasher Group, Inc. (Thrasher), is submitting to your office for review a proposed linear pipeline project in the USGS Smithburg 7.5 minute quadrangle of Doddridge County, WV. The proposed Canton Loop Around Water Line project is approximately 22,256.86 LF (4.22 miles) in length and contains roughly 47.16 acres within the proposed right-of-way (ROW). Proposed forested impacts, due to timber clearing, will occur on approximately 42.23 acres. All timber felling activities will occur between November 15 and March 31, 2013. The proposed waterline originates at the existing Tom's Fork pipeline right-of-way located at W80.718705/N39.272270. Termination of the proposed waterline will occur at the existing Pearl Jean impoundment, W80.678238/N39.289250.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and construction right-of-way. All aquatic resources within the proposed ROW have been identified and delineated by Thrasher staff. Nine (9) streams and one (1) wetland were identified during the field delineation. None of the identified aquatic resources are proposed to be impacted during construction of the waterline. Best Management Practices, as defined in the WV DEP erosion and sediment control BMP manual, will be utilized to avoid impact to the resources during construction. The attached delineation mapping depicts these findings. The attached photo log displays all aquatic resources identified within or near the ROW, as well as typical habitat along the proposed ROW. No specific Indiana bat habitat was discovered within the proposed ROW, during on-site investigations. Investigations included the documentation of possible, portals or caves, tree habitat featuring exfoliating bark, such as Shag Bark Hickory or dead snags, and possible fly corridors.

600 WHITE OAKS BLVD | P.O. BOX 940 | BRIDGEPORT | WV 26330
PH: 304-624-4108 | FAX: 304-624-7831

Page Two
USFWS
October 1, 2013

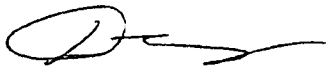
The proposed water line will include four (4) stream crossings. Two (2) of the proposed stream crossings, Buckeye Creek and Morgans Run, will be traversed utilizing a directional bore construction method, avoiding impact to the resources and any possible protected populations. Buckeye Creek is considered a high quality stream by the West Virginia Division of Natural Resources and is known to harbor both fish spawning and freshwater mussel populations. Two (2) additional stream crossings, an unnamed tributary of England's Run and an unnamed tributary of Morgans Run will be crossed utilizing a conventional bore construction method, avoiding impact to the resources. One (1) wetland will be crossed using a conventional bore construction method, avoiding impact to the resource. One (1) stream, Englands Run, falls inside of the ROW, but will not be crossed by the proposed water line, and will not be impacted during construction of the ROW. Four (4) additional streams, unnamed tributaries of Morgans Run, Englands Run and Douglascamp Run, fall outside of the proposed ROW, and are not proposed to be impacted during construction.

All material removed during excavation will be side-cast and used for backfill. The proposed ROW will be returned to the original contour, slope, and grade at the time of completion. In addition, the West Virginia Erosion and Sediment Control Best Management Practice Manual 2006, issued by the WV Department of Environmental Protection, shall be utilized to implement erosion and sedimentation control measures before, during and after the installation of the water line.

If any question or concerns should arise please feel free to contact me at (304) 624-4108 or ddrennen@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.



DON DRENNEN
Environmental Scientist

Enclosures

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October 1, 2013

Mr. Joe Scarberry, Supervisor
Office of Land and Streams
WV Division of Natural Resources, Office of Land and Streams
324 Fourth Avenue, Room 200
South Charleston, WV 25303-1228

**RE: *Stream Activity Application
Antero Resources Corporation
Canton Loop Around Water Line Project – Adrian to Pearl Jean
Doddridge County, West Virginia
Thrasher Project #101-010-0715***

Dear Mr. Scarberry:

On behalf of Antero Resources (Antero), The Thrasher Group, Inc. (Thrasher), is submitting to your office for review a proposed linear pipeline project in the USGS Smithburg 7.5 minute quadrangle of Doddridge County, WV. The proposed Canton Loop Around Water Line project is approximately 22,256.86 LF (4.22 miles) in length and contains roughly 47.16 acres within the proposed right-of-way (ROW). The proposed waterline originates at the existing Tom's Fork pipeline right-of-way located at W80.718705/N39.272270. Termination of the proposed waterline will occur at the existing Pearl Jean impoundment, W80.678238/N39.289250.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and construction right-of-way. All aquatic resources within the proposed ROW have been identified and delineated by Thrasher staff. Nine (9) streams and one (1) wetland were identified during the field delineation. None of the identified aquatic resources are proposed to be impacted during construction of the waterline. Best Management Practices, as defined in the WV DEP erosion and sediment control BMP manual, will be utilized to avoid impact to the resources during construction. The attached delineation mapping depicts these findings. The attached photo log displays all aquatic resources identified within or near the ROW, as well as typical habitat along the proposed ROW.

The proposed waterline will cross four (4) streams and one (1) wetland. Two (2) of the proposed stream crossings, Buckeye Creek and Morgan's Run, will be crossed using a directional bore construction method, avoiding impact to the resources and any possible protected populations. Buckeye Creek is considered a high quality stream by the West Virginia Division of Natural Resources and is known to harbor both fish spawning and freshwater mussel populations. Two (2) additional stream crossings, an unnamed tributary of England's Run and an unnamed tributary of Morgan's Run will be crossed using a

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Page Two
Mr. Scarberry
October 1, 2013

conventional bore construction method, avoiding impact to the resources. One (1) wetland will also be crossed using a conventional bore construction method. Five (5) additional streams, identified during the field delineation, are not proposed to be crossed or impacted during construction.

All material removed during excavation will be side-cast and used for backfill. The proposed ROW will be returned to the original contour, slope, and grade at the time of completion. In addition, the West Virginia Erosion and Sediment Control Best Management Practice Manual 2006, issued by the WV Department of Environmental Protection, shall be utilized to implement erosion and sedimentation control measures before, during and after the installation of the water line.

If any questions may arise please feel free to contact me at your convenience at (304) 624-4108 or ddrennen@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.



DON DRENNEN
Environmental Scientist

Enclosures

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October 1, 2013

Ms. Barbara Sargent, Environmental Resources Specialist
Wildlife Diversity Unit
WV Division of Natural Resources, Wildlife Resources Division
P.O. Box 67
Elkins, WV 26241

**RE: *Project Review Request
Antero Resources Corporation
Canton Loop Around Water Line Project – Adrian to Pearl Jean
Doddridge County, West Virginia
Thrasher Project #101-010-0715***

Dear Ms. Sargent:

On behalf of Antero Resources (Antero), The Thrasher Group, Inc. (Thrasher), is submitting to your office for review a proposed linear pipeline project in the USGS Smithburg 7.5 minute quadrangle of Doddridge County, WV. The proposed Canton Loop Around Water Line project is approximately 22,256.86 LF (4.22 miles) in length and contains roughly 47.16 acres within the proposed right-of-way (ROW). Proposed forested impacts, due to timber clearing, will occur on approximately 42.23 acres. All timber felling activities will occur between November 15 and March 31, 2013. The proposed waterline originates at the existing Tom's Fork pipeline right-of-way located at W80.718705/N39.272270. Termination of the proposed waterline will occur at the existing Pearl Jean impoundment, W80.678238/N39.289250.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and construction right-of-way. All aquatic resources within the proposed ROW have been identified and delineated by Thrasher staff. Nine (9) streams and one (1) wetland were identified during the field delineation. None of the identified aquatic resources are proposed to be impacted during construction of the waterline. Best Management Practices, as defined in the WV DEP erosion and sediment control BMP manual, will be utilized to avoid impact to the resources during construction. The attached delineation mapping depicts these findings. The attached photo log displays all aquatic resources identified within or near the ROW, as well as typical habitat along the proposed ROW. No specific Indiana bat habitat was discovered within the proposed ROW, during on-site investigations. Investigations included the documentation of possible, portals or caves, tree habitat featuring exfoliating bark, such as Shag Bark Hickory or dead snags, and possible fly corridors.

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Page Two
Ms. Sargent
October 1, 2013

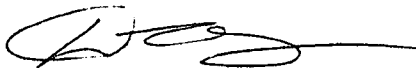
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All material removed during excavation will be side-cast and used for backfill. The proposed ROW will be returned to the original contour, slope, and grade at the time of completion. In addition, the West Virginia Erosion and Sediment Control Best Management Practice Manual 2006, issued by the WV Department of Environmental Protection, shall be utilized to implement erosion and sedimentation control measures before, during and after the installation of the water line.

If any questions may arise please feel free to contact me at your convenience at (304) 624-4108 or ddrennen@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.



DON DRENNEN
Environmental Scientist

Enclosures

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Canton Loop Around Water Line Landowner Table

Dist. Name	Dist	Map	Par	Sub	Owner	Address	City, St., Zip	Location	Book	Page	Legal Desc.
NEW MILTON	6	2	1		LAW RONALD L	RR 1 BOX 190 A TENT CHURCH RD	COLLIERS, WV 26035	OFF RT 18/5 DOUGLAS RUN	214	644	DOUGLAS CAMP 107 AC
NEW MILTON	6	1	4		RILL ELWOOD P & ELIZABETH	4619 GLENVILLE RD	GLEN ROCK, PA 17327	OFF RT 18-SNOWBIRD RD	165	10	MEATHOUSE 43 AC
WEST UNION	8	17	2	1	BALLENGER JAMES M & RUBY C (SURV)	RT 2 BOX 86	WEST UNION, WV 26456	RT 50	279	170	BUCKEYE 4.5 AC
WEST UNION	8	16	6		BALLENGER JAMES M & RUBY C (SURV)	RT 2 BOX 86	WEST UNION, WV 26456	OFF OLD RT 50	279	170	BUCKEYE 9.87 AC
WEST UNION	8	17	2		BALLENGER JAMES M & RUBY C (SURV)	RT 2 BOX 86	WEST UNION, WV 26456	RT 50	279	170	BUCKEYE 30.25 AC
WEST UNION	8	13	18		RACE FRANK W JR & DONNA K (SURV)	4274 SMITHTON RD	WEST UNION, WV 26456	OLD RT #50	248	678	BUCKEYE 25A 115 PO
WEST UNION	8	13	16	3	HALL DRILLING LLC	P O BOX 249	ELLENBORO, WV 26346		279	628	6.4 AC BUCKEYE FK OF MI CREEK
WEST UNION	8	13	16	5	WASMER RODNEY L	2220 CORALTHON N RD	BALTIMORE, MD 21220		273	507	58.55 AC BUCKEYE FK OF MI CREEK
WEST UNION	8	13	17		WASMER SEAN A ETAL	2220 CORALTHON N RD	BALTIMORE, MD 21220	ENGLANDS RN 50/10	263	48	ENGLAND S RUN 85A
WEST UNION	8	13	15		COTTRILL TIMOTHY EDWARD & ERMA JANE (SURV)	RT 2 BOX 203	WEST UNION, WV 26456	ROTUE 1 MORGANSVILLE 50/10	285	518	ENGLAND S RUN 49 AC 69 PO
GRANT	3	16	14		BOWYER DAVID E	HC 69 BOX 28	ALMA, WV 26320	OFF RT 20 MORGAN RUN ROAD	220	56	BUCKEYE 260.21 INT O&G
GRANT	3	16	15		LEATHERMAN DELBERT E ETAL	652 DEERFIELD DRIVE	BRIDGEPORT, WV 26330		214	444	MORGANS RUN 209.48 AC INT O&G
GRANT	3	16	15	2	HASS RONALD M & JAMIE M (SURV) %FIRST AMERICAN REAL EST TAX	1 FIRST AMERICAN WAY	WESTLAKE, TX 76262	RT 20	240	696	80 AC MORGANS RUN 1/2 INT
GRANT	3	16	19		JETT GLORIA J	RR4 BOX 697A	FAIRMONT, WV 26554	RT 1 MORGANSVILLE	237	504	MORGANS RUN 157.27 AC
GRANT	3	19	7		JETT GLORIA J	RR4 BOX 697A	FAIRMONT, WV 26554	RT 50	237	504	BUCKEYE 70.43 AC

I, Virginia Nicholson, Editor of THE HERALD RECORD, a weekly newspaper published regularly, in Doddridge County, West Virginia, Do Hereby Certify Upon Oath That the Accompanying Legal Notice Entitled:

Floodplain Permit Application # 13-078

was published in said paper for 1 successive weeks beginning with the issue of October 15 2013 and ending with the issue of

October 15 2013 and

that said notice contains 189

WORD SPACE at 115 cents a word

amounts to the sum of \$ 21.74

FOR FIRST PUBLICATION, SECOND PUBLICATION IS 75% OF THE FIRST PUBLICATION

\$ 0 and each publication thereafter

\$ 21.74 TOTAL

EDITOR

Virginia Nicholson

SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE 17 DAY OF October 2013

NOTARY PUBLIC

Laura J. Adams

THE HERALD RECORD Legal Advertisement Doddridge County Floodplain Permit Application Please take notice that on the 8th day of October, 2013 ANTERO RESOURCES CANTON LOOP AROUND WATER LINE (#13-078) filed an application for a Floodplain Permit to develop land located at or about: SURFACE OWNERS: FRANK W. JR. AND DONNA K RAGE AND DELBERT E. LEATHERMAN, DEED BOOK 248/678 AND 214/444, MAP/PARCEL 13/18 & 16/15. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by October 28, 2013. Delivered to the Clerk of the County Court 1118 E. Court Street, West Union, WV 26456 Beth A. Rogers, Doddridge County Clerk Dan Wellings, Doddridge County Flood Plain Manager 10-15-tab

