

**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: #13-104

Thelma J. Pasco  
 James P. Charles  
 P.O. Box 309  
 Ellenboro, WV 26346

2. Article Number  
 (Transfer from service label)

7010 1670 0001 1415 5180

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x *T. G. Nettall*

Agent

Addressee

B. Received by (Printed Name)

*T. G. Nettall*

C. Date of Delivery

*12/23/13*

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)<sup>†</sup>

Yes

UNITED STATES POSTAL SERVICE



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

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

Dan Wellings  
Doddridge Co Flood Plain M  
Room 102  
118 E Court St  
West Union, WV 26456

BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

2013 DEC 27 PM 2:05

FILED



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

Michael Headley  
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. 1144

Date: December 23, 2013  
\*\*\*Customer copy\*\*\*

Received: #13-104 thrasher group, crestwood banner compressor site \$500.00

In Payment For: 318 Building Permits (LP)

For: 12-Flood Plain Ordinance #20 Fund

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

Michael Headley  
Sheriff of Doddridge County

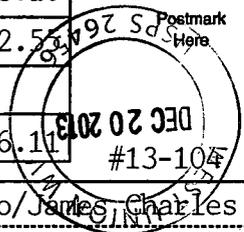
7010 1670 0001 1415 5160

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

For delivery information visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

Postage	\$ .46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 6.11</b>



Sent To **Thelma J. Pasco/James Charles**

Street, Apt. No.;  
or PO Box No. **P.O. Box 309**

City, State, ZIP+4<sup>®</sup> **Ellenboro, WV 26346**

**LOCATION PERMIT FEES**

<b><u>Accessory Building and/or Structures</u></b> .....	<b>\$ 5.00</b>
(examples: garage, storage or farm building, carport)	
<b><u>Additions and/or Renovations to Single Family Residential <sup>or</sup> Manufacture Homes</u></b> <b><u>UP TO \$50,000.00</u></b> .....	<b>\$10.00</b>
<b><u>Additions and/or Renovations to Single Family Residential or Manufacture Homes</u></b> <b><u>OVER \$50,000.00</u></b> .....	<b>\$10.00</b>
<b><u>Single Family Residential UP TO \$50,000.00</u></b> .....	<b>\$25.00</b>
<del><b><u>Manufactured Homes</u></b> - described as having permanent axle and frame .....</del>	<del><b>NONE</b></del>
<b><u>Multi-Family</u></b> .....	<b>\$25.00</b>
Residential and other buildings and structures, including additions and renovations to existing structures.	
<b><u>New Commercial Structures or Renovations to existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities</u></b> .....	<b>\$250.00</b>
<i>(Includes buildings used for business purposes the total costs of which do not exceed \$50,000.00.)</i>	
<b><u>New commercial Structures or Additions or Renovations to Existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities</u></b> .....	<b>\$350.00</b>
<i>(the total costs of which exceed \$50,000.00 plus \$2.00 per \$1,000.00 to cover costs over \$50,000.00)</i>	
<b><u>New Industrial Structures or Additions or Renovations to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes.</u></b> .....	<b>\$500.00</b>
<i>(the total costs of which do not exceed \$100,000.00)</i>	
<b><u>New Industrial Structures or Additions or Renovations to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes.</u></b> .....	<b>\$1,000.00</b>
<i>(the total costs of which exceed \$100,000.00 plus \$5.00 per \$1,000.00 in costs over \$100,000.00.)</i>	
<b><u>FEE FOR DRILLING OIL &amp; GAS WELL</u></b> .....	<b>\$1,000.00</b>
<i>IN FEMA DESIGNATED FLOOD PLAIN</i>	
<b><u>Maximum Fee: In no event shall any Location Permit Fee charged under this Ordinance exceed the sum of \$100,000.00.</u></b>	

---

Doddridge County Sheriff  
Flood Plain Ordinance Fund

1070  
69-217/515

DATE January 7, 2014

PAY TO THE ORDER OF THE HERALD RECORD

\$ 120.86

One Hundred Twenty Dollars and 86/100

DOLLARS

Security features included. Details on back.



Inv#3017/#3018/#3023/#3024/#3031/#3032

MEMO

#13-101/#13-102/#13-105/#13-104/#13-089/#13-107

⑈001070⑈ ⑆051502175⑆

1109649009⑈

*Ralph Sandowh*  
*Beth A. Rogers*  
Sheriff

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

*Delivered to  
\* Wrong Address*

Please take notice that on the 20<sup>th</sup> December, 2013  
**CRESTWOOD MARCELLUS MIDSTREAM, LLC – BANNER  
COMPRESSOR SITE # 13-104**

filed an

application for a Floodplain Permit to develop land located at or  
about: **SURFACE OWNERS: THELMA JO PASCO & CHARLES JAMES  
PAUL, NEW MILTON DISTRICT, MEATHOUSE 47.9 AC, W/B 43/508  
AND MAP 16 PARCEL 24.**

The Application is on file with the Clerk of the County Court and  
may be inspected or copied during regular business hours.

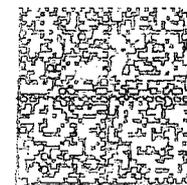
Any interested persons who desire to comment shall present  
the same in writing by **JANUARY 9 , 2013.**

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

Dan Wellings  
Doddridge Co Flood Plain MGT  
Room 102  
118 East Court St.  
West Union, WV 26456

12/21



015414112400  
\$6.11  
12/20/13  
Mailed From 26456  
US POSTAGE

THELMA J PASCO  
JAMES P CHARLES  
P.O. BOX 309  
ELLENBORO, WV 26346

← \* Wrong Address

26346030909



Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 20<sup>th</sup> December, 2013  
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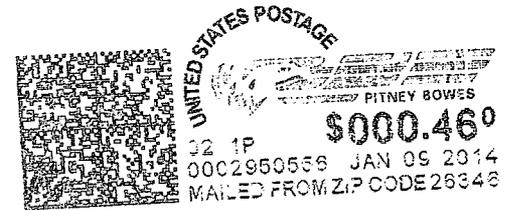
Delivered to the:  
Clerk of the County Court  
118 E. Court Street, West Union, WV 26456.

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



Antero Resources  
981 E Washington Ave  
PO Box 309  
Ellenboro, WV 26346

Dan Wellings  
Clerk of the County Court  
118 E. Court Street  
West Union, WV 26456



**Antero Resources**

981 E. Washington Avenue  
Ellenboro, WV 26346  
Fax # (304) 869-3408

# Fax

**To:**  
Dan Wellings  
ATTN: Katie

**From:** Antero Resources  
Annalisa Dobbins

---

**Fax:** 304-873-1840

**Pages:** Incl. Cover Sheet- 2

---

**Re:** Floodplain  
Permit

**Date:** 1/9/2014

---

**Antero Resources**

981 E. Washington Avenue  
Ellenboro, WV 26346  
Fax # (304) 869-3408

# Fax

**To:**  
Dan Wellings  
ATTN: Katie

**From:** Antero Resources  
Annalisa Dobbins

**Fax:** 304-873-1840

**Pages:** Incl. Cover Sheet- 2

**Re:** Floodplain  
Permit

**Date:** 1/9/2014

01/09/2014 14:37

P.001

\*\*\*\*\*  
\*\*\* TX REPORT \*\*\*  
\*\*\*\*\*

JOB NO.	MODE	NO.	DESTINATION TEL/ID	START TIME	PAGE	RESULT
0293	TX ECM	001	913048731840	01/09 14:36	002	OK 00'24

## Letter of Transmittal

TO: Dan Wellings  
Dodderidge County Commission  
118 East Court Street  
West Union WV 26456

DATE	<u>12/12/13</u>	PROJECT #	<u>101-015-0190</u>
ATTN:	_____		
RE:	_____		
	_____		
	_____		

WE ARE SENDING  ATTACHED  ENCLOSED  
 \_\_\_\_\_ UNDER SEPARATE COVER VIA \_\_\_\_\_

THE FOLLOWING ITEMS

- SHOP DRAWINGS   
  PRINTS   
  PLANS   
  SAMPLES   
  SPECIFICATIONS  
 COPY OF LETTER   
  CHANGE ORDER   
  TESTING REPORTS   
 OTHER

COPIES	DATE	NO.	DESCRIPTION
<u>1</u>	<u>12/12/13</u>	<u>Check #10885</u>	<u>DCLIP check #10885 (Permit Fee)</u>

THESE ARE TRANSMITTED AS CHECKED BELOW:

- |   |   |                                   |  |
|---|---|-----------------------------------|--|
| <input type="checkbox"/> For Approval                 | <input type="checkbox"/> Approved as Submitted    | <input type="checkbox"/> Resubmit | <input type="checkbox"/> Copies for Approval |
| <input type="checkbox"/> For Your Use                 | <input type="checkbox"/> Approved as Noted        | <input type="checkbox"/> Submit   | <input type="checkbox"/> Copies for Approval |
| <input type="checkbox"/> As Requested                 | <input type="checkbox"/> Returned for Corrections | <input type="checkbox"/> Return   | <input type="checkbox"/> Corrected Prints    |
| <input type="checkbox"/> For Signature and Processing |   |                                   |  |

FOR BIDS DUE \_\_\_\_\_ PRINTS RETURNED AFTER LOAN TO US \_\_\_\_\_

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CC: \_\_\_\_\_ SIGNED [Signature]

# THRASHER

December 12, 2013

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

**RE: *Doddridge County Location Improvement Permit  
Crestwood Marcellus Midstream LLC  
Banner Compressor Site, Doddridge County, West Virginia  
Thrasher Group Project # 101-015-0190***

Mr. Wellings:

Attached to this document is payment for the Doddridge County Location Improvement Permit fee for the Banner Compressor Station. Construction costs in the 100 year flood elevation area are less than \$100,000.00 thus a fee of \$500.00 has been made payable to: Doddridge County Commission.

The proposed Banner Compressor Station is located completely outside of the 100-year flood elevation area; however a portion of the access road will be constructed within the 100-year flood elevation area. This work will include the excavation and removal of approximately 150 cubic yards of material and the installation of approximately 30 tons of gravel. The total costs of work within the floodplain have been estimated to be:

150 cubic yards of excavation X \$8.00/yd <sup>3</sup>	=	\$1,200.00
30 tons of gravel installed X \$30.00/ton	=	\$ 900.00
<b>TOTAL COST</b>	=	<b>\$2,100.00</b>

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

Sincerely,

THRASHER GROUP, INC.

Ryan S. Boustany  
Staff Engineer

13-104

# THRASHER

December 9, 2013

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

**FILED**  
2013 DEC 11 PM 3:19  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

**RE: *Doddridge County Location Improvement Permit  
Crestwood Marcellus Midstream LLC  
Banner Compressor Site, Doddridge County, West Virginia  
Thrasher Group Project # 101-015-0190***

Mr. Wellings:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group Inc. (Thrasher), is submitting to your office for review and approval an application package for a Doddridge County Location Improvement Permit for a proposed project in the USGS New Milton 7.5 minute quadrangle of Doddridge County, West Virginia.

Crestwood plans to construct a compressor station which will be used to provide dehydration, separation, and compression of raw natural gas from producing gas wells in this area to market. Additionally, an access road will be constructed from Meathouse Fork Road to the pad site.

The proposed compressor site will be located off of Meathouse Fork Road approximately 2.5 air miles from the town of New Milton, in Doddridge County, West Virginia. The approximate center coordinates of the compressor site are 39°12'24.1415"N, 80°39'27.3153"W.

The USGS topographical map, aerial imagery map, FIRM map, and WV Flood Tool Map contained herein depict the proposed limits of disturbance associated with the proposed construction.

In addition, the proposed Banner Compressor Station pad is located completely outside of the 100-year flood elevation area, while a portion of the access road will be constructed within the 100-year flood elevation area. This work will include the excavation and removal of approximately 150 cubic yards of material and the installation of approximately 30 tons of gravel. The total costs of work within the floodplain have been estimated to be:

150 cubic yards of excavation X \$8.00/yd <sup>3</sup>	=	\$1,200.00
30 tons of gravel installed X \$30.00/ton	=	\$ 900.00
<b>TOTAL COST</b>	=	<b>\$2,100.00</b>

Mr. Wellings  
12/9/13  
Page 2 of 2

Please be aware that while construction activities shall be occurring in the floodplain, this excavation shall not have any adverse impacts to the existing floodplain. The construction activities which are proposed to be performed include cutting the permanent access road into the hillside and the installation of gravel on said road. There shall be no fill activities associated with this work and this work shall in no way raise any of the existing elevations in this area. Please see the attached plan sheets depicting the proposed and existing grades for the access road in this area.

Please see attached permit application, permit fee worksheet and payment, as well as copies of all required federal and state permit applications.

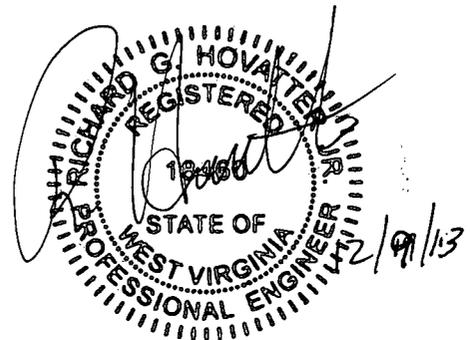
If any further documentation is required for this project, or if any questions may arise, please feel free to contact me at your earliest convenience at (304) 624-4108 or [rhovatter@thrashereng.com](mailto:rhovatter@thrashereng.com).

Sincerely,

THRASHER GROUP, INC.



RICHARD HOVATTER JR., P.E.  
Project Manager



Enclosures

R:\015-0190 Crestwood - Banner Compressor Station\Documents\Permitting\Environmental\Correspondence\DCLIP\Cover Letter.docx

**THRASHER**

**Crestwood Marcellus  
Midstream LLC**

**Banner Compressor Pad**

**THRASHER GROUP, INC. PROJECT # 101-015-  
0190**

**DODDRIDGE COUNTY LOCATION**  
**IMPROVEMENT PERMIT**



December 2013

PERMIT NO. 13-104

**DODDRIDGE COUNTY**  
**FLOODPLAIN DEVELOPMENT**  
**PERMIT**

PURPOSE FOR PERMIT: WELL ACCESS ROAD  
BANNER COMPRESSOR SITE

ISSUED TO CRESTWOOD MARCELLUS MIDSTREAM  
801 CHERRY ST., SUITE 3800, UNIT 20 LLC

ADDRESS: FORT WORTH, TX 76102

PROJECT ADDRESS: NEAR MOUTH OF SNAKE RUN  
OF MEATHOUSE FORK

ISSUED BY: Dan Welton

DATE: 01/09/2014

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.

#13-104  
Crestwood  
Banner Compressor  
Site

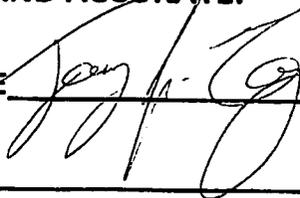
# DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

FILED  
2013 DEC 11 PM 3:18  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WY

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made hereon.
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

 - Thomas J. Marion - Agent  
DATE 12/10/13

## 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: Crestwood Marcellus Midstream, LLC  
ADDRESS: 801 Cherry Street, Suite 3800, Unit 20, Fort Worth TX, 76102  
TELEPHONE NUMBER: (817) 339-5400

**BUILDER'S NAME:** UNKNOWN AT THIS TIME.

~~UNKNOWN AT THIS TIME.~~

**ADDRESS:** \_\_\_\_\_

**TELEPHONE NUMBER:** \_\_\_\_\_

**ENGINEER'S NAME:** RICHARD G. HOVATTER JR., P.E., The Thrasher Group, Inc

~~RICHARD G. HOVATTER JR., P.E., The Thrasher Group, Inc~~

**ADDRESS:** 600 White Oaks Boulevard, PO Box 940 Bridgeport WV 26330

~~600 White Oaks Boulevard, PO Box 940 Bridgeport WV 26330~~

**TELEPHONE NUMBER:** (304) 624-4108

~~(304) 624-4108~~

**PROJECT LOCATION:**

**NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** \_\_\_\_\_

THELMA JO PASCO & CHARLES JAMES PAUL

~~THELMA JO PASCO & CHARLES JAMES PAUL~~

**ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** \_\_\_\_\_

P.O. BOX 309, ELLENBORO, WV 26346

~~P.O. BOX 309, ELLENBORO, WV 26346~~

**DISTRICT:** NEW MILTON

~~NEW MILTON~~

**DATE/FROM WHOM PROPERTY**

**PURCHASED:** \_\_\_\_\_

**LAND BOOK DESCRIPTION:** MEATHOUSE 47.9 AC

~~MEATHOUSE 47.9 AC~~

**DEED BOOK REFERENCE:** WB43, Pg. 508

~~WB43, Pg. 508~~

**TAX MAP REFERENCE:** MAP 16 PARCEL 24

~~MAP 16 PARCEL 24~~

**EXISTING BUILDINGS/USES OF PROPERTY:** ABANDONED HOME/UNDEVELOPED

~~ABANDONED HOME/UNDEVELOPED~~

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

**PROPERTY** N/A

~~N/A~~

**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 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:**

- Fill             Mining             Drilling             Pipelining
- Grading
- X  Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Altercation (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction
- Subdivision (including new expansion)
- Individual Water or Sewer System
- 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 \$ \_\_\_\_\_**

**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: \_\_\_\_\_  
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: \_\_\_\_\_  
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.

DIST NAME	DIST	MAP	PAR	SUB	OWNER	ADDRESS	CITY, ST ZIP	LOC	BOOK	PAGE	LEGAL DESC
NEW MILTON	6	16	24	-	PASCO THELMA JO & JAMES PAUL CHARLES % ANTERO RESOURCES	P.O. BOX 309	ELLENBORO, WV 26346	NEW MILTON RT 25	WB43	508	MEATHOUSE 47.9 AC

- (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): \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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: \_\_\_\_\_ 235 \_\_\_\_\_

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 \_\_\_\_\_ A \_\_\_\_\_  
 100-Year flood elevation is: \_\_\_\_\_ N/A \_\_\_\_\_ NGVD (MSL)

Unavailable

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

See section 4 for additional instructions.

SIGNED *Dan Williams*

DATE 01/09/2014

**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: \_\_\_\_\_ BY: \_\_\_\_\_  
DEFICIENCIES ?      Y/N

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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 12/4/2013



Location of the mouse click



**Flood Hazard Zone**  
(1% annual chance floodplain)

### User Notes:

Crestwood Marcellus Midstream LLC - Banner Compressor Site

### 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](http://www.msc.fema.gov).

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center

**Flood Hazard Area:** Selected site is **WITHIN** the FEMA 100-year floodplain.

**Elevation:** About 864 feet

**Location (long, lat):** 80.656546 W, 39.204131 N

**Location (UTM 17N):** (529655, 4339486)

**FEMA Issued Flood Map:** 54017C0235C

**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Parcel Number:**

# 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 12/4/2013

-  Location of the mouse click
-  Approximate Study (Zone A)
-  Detailed Study (Zone AE, AH, AO)
-  Floodway
-  Flood Water Depth (HEC-RAS)
-  Cross Section Line
-  Base Flood Elevation Line
-  DFIRM Panel (Map) Index

**User Notes:**

Crestwood Marcellus Midstream LLC - Banner Compressor Site

**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](http://www.msc.fema.gov).

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center

**Flood Hazard Area:** Selected site is **WITHIN** the FEMA 100-year floodplain.

**Flood Zone:** A

**Advisory Flood Height:** About 865 feet

**Water Depth:** About 1.93 feet (Source: HEC\_RAS)

**Elevation:** About 864 feet

**Location (long, lat):** 80.656482 W, 39.204077 N

**Location (UTM 17N):** (529660, 4339480)

**FEMA Issued Flood Map:** 54017C0235C

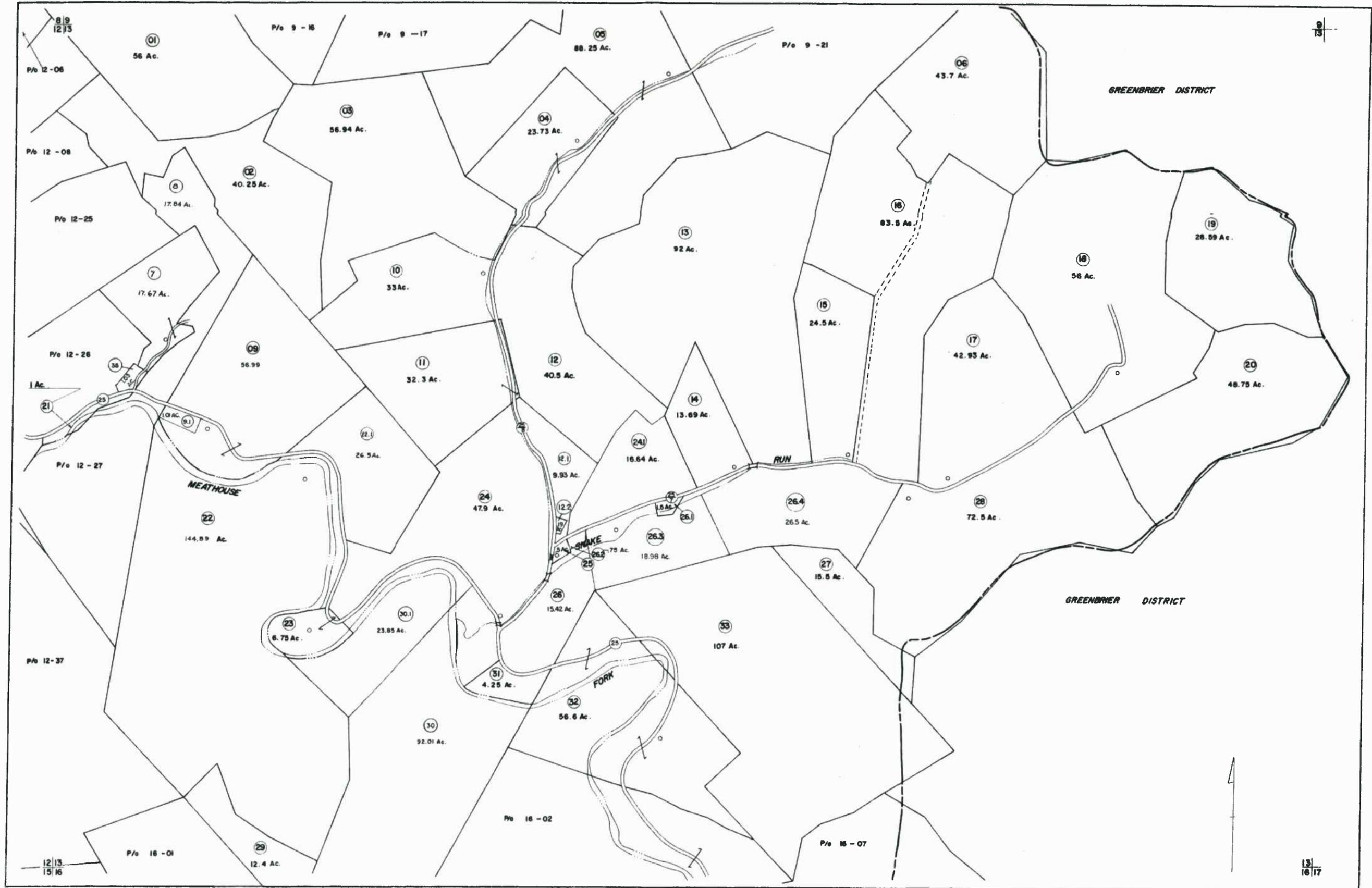
**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Flood Profile:** No Profile

**HEC-RAS Model:** No Model

**Parcel Number:**



FOR TAX PURPOSES ONLY

Prepared by  
**L. ROBERT KIMBALL**  
 Consulting Engineer  
 Ebensburg, Pennsylvania

Legend	
Property line	Original lot line
Edge of parcel or roadway	Parcel lot number
Corporate line	Parcel or index number
District line	Improvement
County line	Feet road

Revisions					
1	REVISED 3/20/84	JWP	SLB INC.	3/23/00	JAW
1	REVISED 1/20/76	JWP	ESJ	3/27/01	REK
1	REVISED 7-8-80	JWP	ESJ	2/28/02	REK
1	REVISED 7-8-80	JWP	ESJ	3/3/03	HBS
1	REVISED 7-8-80	JWP	ESJ	4/6/07	S&H
1	REVISED 7-8-80	JWP	ESJ		
1	DIGS 12-31-90	JWP			
1	DIGS 12-96	HO			

STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY  
 Office of Assessor

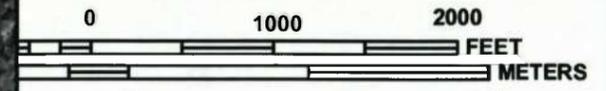
NEW MILTON DISTRICT  
 SHEET 13

Date, Aerial Photography, APRIL, 1962 Date, Map, JULY, 1963  
 Photo No: 208,209 Scale: 1"=100'

UNINCORPORATED AREAS  
540024



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0235C

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

PANEL 235 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0235	C

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  
54017C0235C  
MAP REVISED  
OCTOBER 4, 2011

Federal Emergency Management Agency

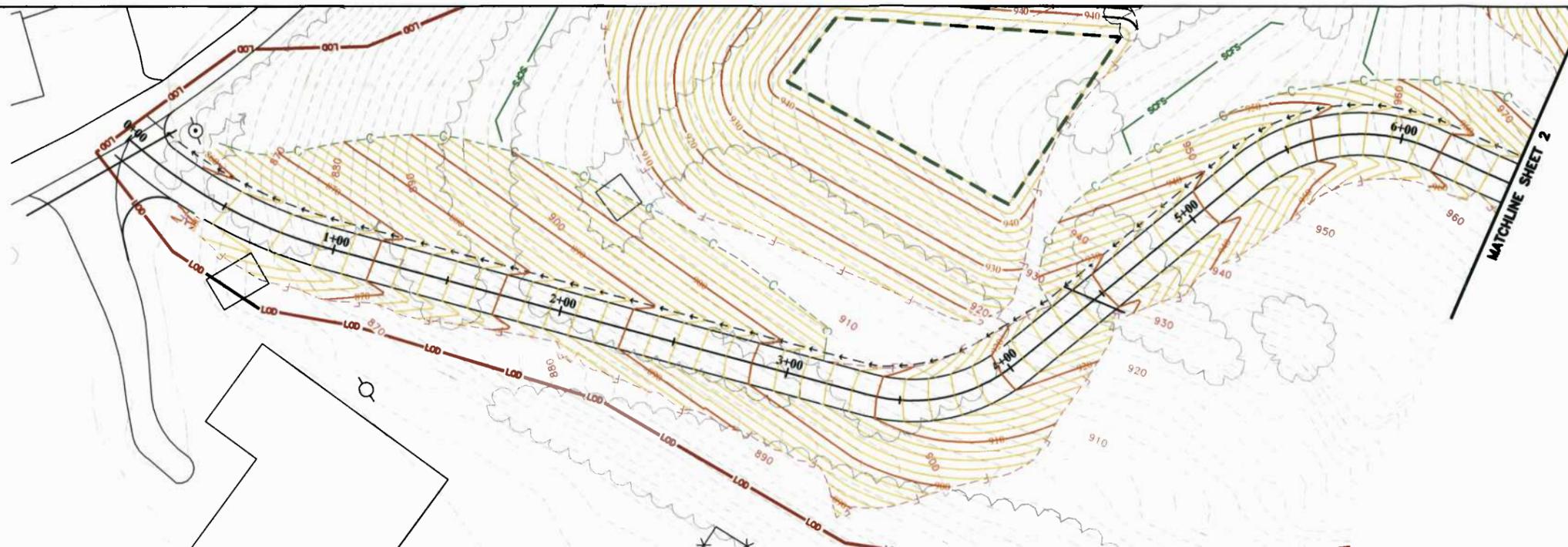
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program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

### PLAN LEGEND

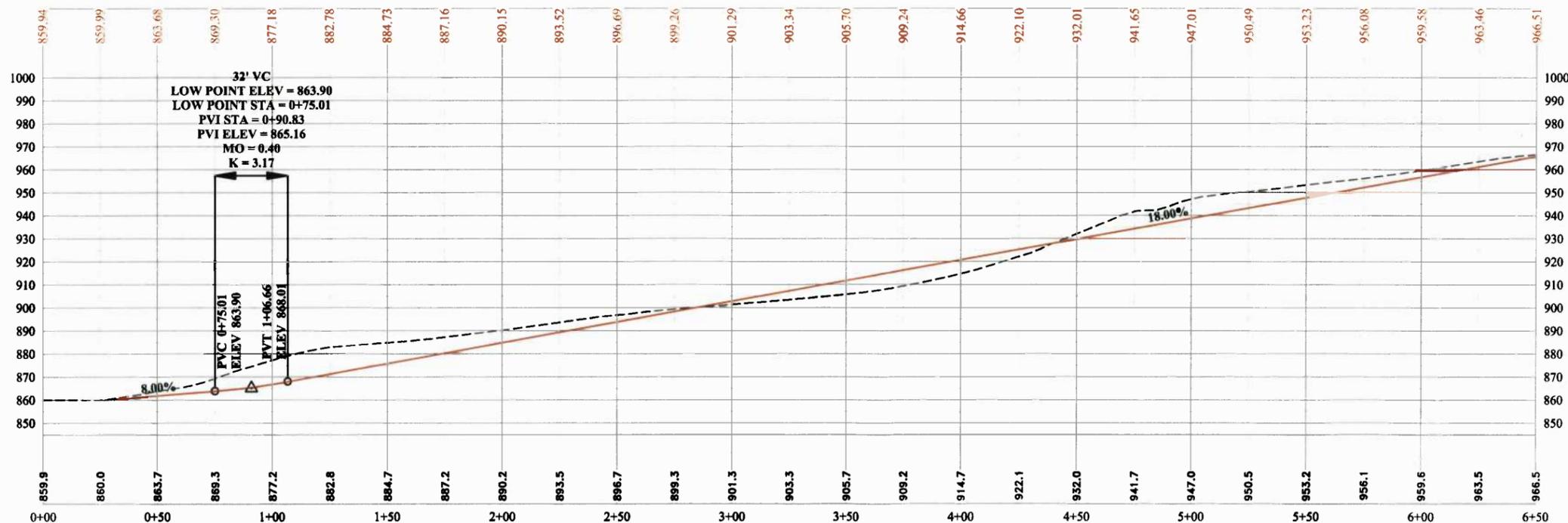
- EXISTING STREAM
- EXISTING POND
- EXISTING WETLAND
- PROPERTY LINE
- EXISTING EDGE OF GRAVEL
- EXISTING CONTOURS MAJOR / MINOR
- LIMIT OF DISTURBANCE
- PROPOSED CONTOURS MAJOR / MINOR
- PROPOSED STACKED COMPOST FILTER SOCK
- PROPOSED CUT LIMIT
- PROPOSED FILL LIMIT
- PROPOSED FARM FENCE
- PROPOSED INTERCEPTION / DIVERSION DITCH
- PROPOSED CULVERT
- PROPOSED EDGE OF GRAVEL
- PROPOSED TEMPORARY TOPSOIL STOCKPILE
- PROPOSED SEDIMENT TRAP
- PROPOSED OUTLET PROTECTION
- PROPOSED SOIL KEYWAY
- PROPOSED ROCK CHECK DAM

### NOTES

1. PROPERTY LINES SHOWN ARE BASED ON FIELD SURVEY PERFORMED BY THE THRASHER GROUP.
2. STREAM AND WETLAND DELINEATION PERFORMED BY THE THRASHER GROUP.

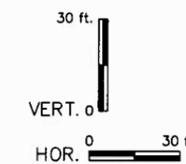


### ACCESS ROAD PROFILE



### PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE



LAYOUT TAB: AR P&P 1  
 CAD FILE: R:\015-0190-Crestwood - Banner Compressor Station\Drawings\0190-ACCESS ROAD & PAD PLAN-PROFILE.dwg  
 PLOT DATE/TIME: 12/10/2013 8:17 AM

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NO.	BY	DATE	DESCRIPTION

SCALE:	
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

**THRASHER**  
 THE THRASHER GROUP, INC.  
 30 COLUMBIA BOULEVARD, CLARKSBURG, WV 26301

PHONE (304) 624-4108 (FAX) (304) 624-7831

PHASE No.	
CONTRACT No.	
PROJECT No.	1-01-015-0190

**CRESTWOOD MARCELLUS MIDSTREAM LLC**  
**BANNER COMPRESSOR PAD**  
**GRADING AND E&S PLANS**  
**DODDRIDGE COUNTY, WEST VIRGINIA**  
**ACCESS ROAD PLAN & PROFILE SHEET 1**

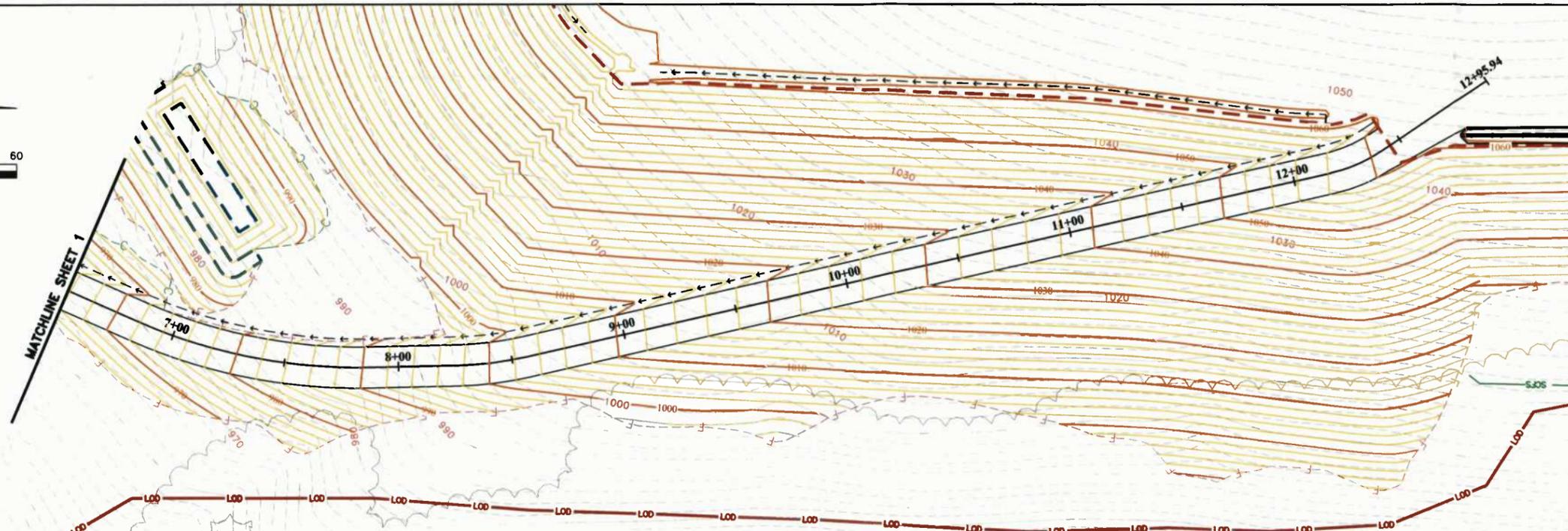
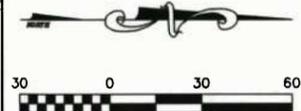
SHEET No.	<b>1</b>
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**PLAN LEGEND**

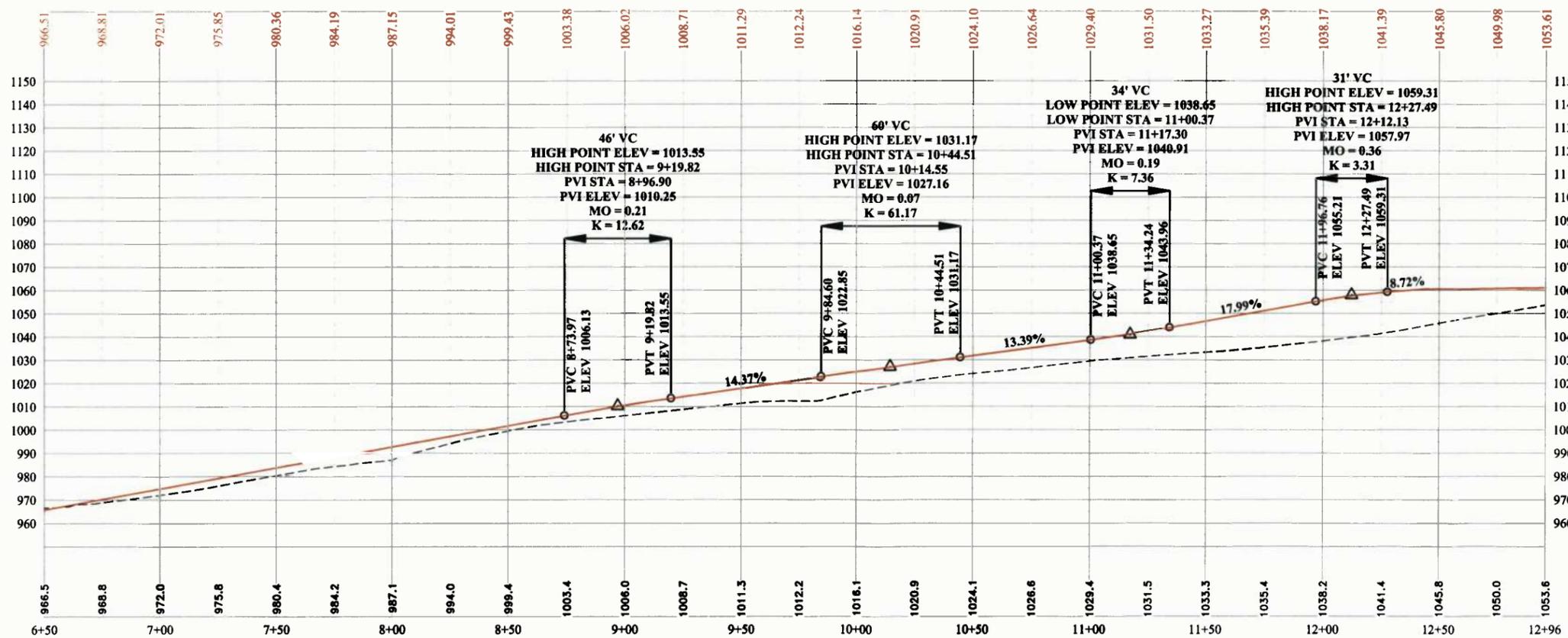
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- EXISTING POND
- EXISTING WETLAND
- PROPERTY LINE
- EXISTING EDGE OF GRAVEL
- EXISTING CONTOURS MAJOR / MINOR
- LIMIT OF DISTURBANCE
- PROPOSED CONTOURS MAJOR / MINOR
- PROPOSED STACKED COMPOST FILTER SOCK
- PROPOSED CUT LIMIT
- PROPOSED FILL LIMIT
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- PROPOSED TEMPORARY TOPSOIL STOCKPILE
- PROPOSED SEDIMENT TRAP
- PROPOSED OUTLET PROTECTION
- PROPOSED SOIL KEYWAY
- PROPOSED ROCK CHECK DAM

**NOTES**

1. PROPERTY LINES SHOWN ARE BASED ON FIELD SURVEY PERFORMED BY THE THRASHER GROUP.
2. STREAM AND WETLAND DELINEATION PERFORMED BY THE THRASHER GROUP.

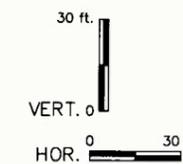


**ACCESS ROAD PROFILE**



**PROFILE LEGEND**

- EXISTING GROUND
- PROPOSED GRADE



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 PLOT DATE/TIME: 12/10/2013 8:22 AM  
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No.	BY	DATE	DESCRIPTION

SCALE:	
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

**THRASHER**  
 THE THRASHER GROUP INC.  
 30 COLUMBIA BOULEVARD, CLARKSBURG, WV 26301

PHONE (304) 624-4108      (FAX) (304) 624-7831

PHASE No.	
CONTRACT No.	
PROJECT No.	1-01-015-0190

**CRESTWOOD MARCELLUS MIDSTREAM LLC**  
**BANNER COMPRESSOR PAD**  
**GRADING AND E&S PLANS**  
**DODDRIDGE COUNTY, WEST VIRGINIA**  
**ACCESS ROAD PLAN & PROFILE SHEET 2**

# THRASHER

December 3, 2013

Ms. Barbara Sargent  
Wildlife Resources Section  
West Virginia Division of Natural Resources  
P.O. Box 67  
Elkins, WV 26241

**RE: *Rare, Threatened and Endangered Species Review for Environmental Due Diligence  
Crestwood Marcellus Midstream LLC  
Banner Compressor Site, Doddridge County, West Virginia  
Thrasher Project #101-015-0190***

Dear Ms. Sargent:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), the Thrasher Group, Inc. (Thrasher) is submitting to your office a project review request for environmental due diligence, for a proposed compressor site in the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV. The proposed area of interest (AOI) for the Banner compressor site will be located off of Meathouse Fork Road, approximately 2.25 air miles from the Town of New Milton, in Doddridge County, West Virginia. Approximate center coordinates of the compressor site are 39°12'24.1415"N, 80°39'27.3153"W.

This proposed project shall consist of the construction of a large, flat pad to facilitate the construction of a compressor station. Also, associated with this project is the construction of an access road, located within the depicted AOI, to access the future compressor pad site. This proposed station will be used to provide dehydration, separation, and compression for raw natural gas from producing gas wells near this area to market.

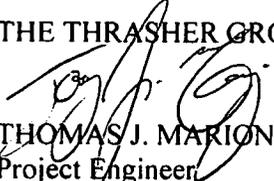
The USGS topographical map and aerial imagery map contained herein depict the proposed site AOI. The included photo log displays all aquatic resources located near the AOI as well as typical habitat within and surrounding the intended AOI.

All streams and wetlands near the proposed AOI have been identified and delineated by Thrasher staff. No aquatic resources were found to be within the extent of the proposed Banner compressor site AOI. The attached delineation mapping depicts all findings associated with or located near the proposed Banner compressor site 17.40 acre AOI.

If any question or concerns should arise please feel free to contact me at your earliest convenience at (304) 624-4108 or [tm Marion@thrashereng.com](mailto:tm Marion@thrashereng.com).

Sincerely,

THE THRASHER GROUP, INC.

  
THOMAS J. MARION  
Project Engineer

Enclosures

# THRASHER

December 3, 2013

U.S. Fish and Wildlife Service  
West Virginia Field Office  
694 Beverly Pike  
Elkins, WV 26241  
Attn: Project Review Request

**RE: *Project Review Request for Environmental Due Diligence  
Crestwood Marcellus Midstream LLC  
Banner Compressor Site, Doddridge County, West Virginia  
Thrasher Project #101-015-0190***

To whom it may concern:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), the Thrasher Group, Inc. (Thrasher) is submitting to your office a project review request for environmental due diligence for a proposed compressor site in the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV. The proposed area of interest (AOI) for the Banner compressor site will be located off of Meathouse Fork Road, approximately 2.25 air miles from the town of New Milton, in Doddridge County, West Virginia. Approximate center coordinates of the compressor site are 39°12'24.1415"N, 80°39'27.3153"W.

This proposed project shall consist of the construction of a large, flat pad to facilitate the construction of a compressor station. Also associated with this project is the construction of an access road, located within the depicted AOI, to access the future compressor pad site. This proposed station will be used to provide dehydration, separation, and compression for raw natural gas from producing gas wells near this area to market.

The USGS topographical map and aerial imagery map contained herein depict the proposed site AOI. The included photo log displays all aquatic resources located near the AOI as well as typical habitat within and surrounding the intended AOI. The flash drive included with this submittal contains a shapefile depicting the extent of the AOI as well as a .PDF copy of this submittal package.

All streams and wetlands near the proposed AOI have been identified and delineated by Thrasher staff. No aquatic resources were found to be within the extent of the proposed Banner compressor site AOI. The attached delineation mapping depicts all findings associated within or located near the proposed Banner compressor site AOI.

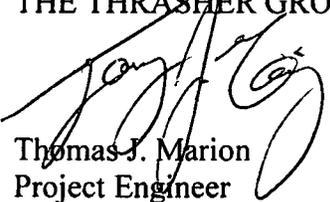
Project Review Request  
Page 2 of 2  
December 3, 2013

Of the 17.40 acres contained within the AOI, 8.07 acres are forested and timbering activities are expected to occur. The entire 17.04 acres will contain some amount of ground disturbance ranging from cut and fill excavation to the installation of compost filter socks to minimize sediment and erosion. Please see the attached forested acreage map. In addition, no specific Indiana bat habitat, portals, or caves were identified within the intended AOI during on site investigations. To Thrasher's knowledge there have not been any previous mining activities associated with this location's AOI.

If any question or concerns should arise please feel free to contact me at your earliest convenience at (304) 624-4108 or [tmarion@thrashereng.com](mailto:tmarion@thrashereng.com).

Sincerely,

THE THRASHER GROUP, INC.



Thomas J. Marion  
Project Engineer

Enclosures

R:\015-0190 Crestwood - Banner Compressor Station\Documents\Permitting\Environmental\Correspondence\USFWS\USFWS  
letter.docx

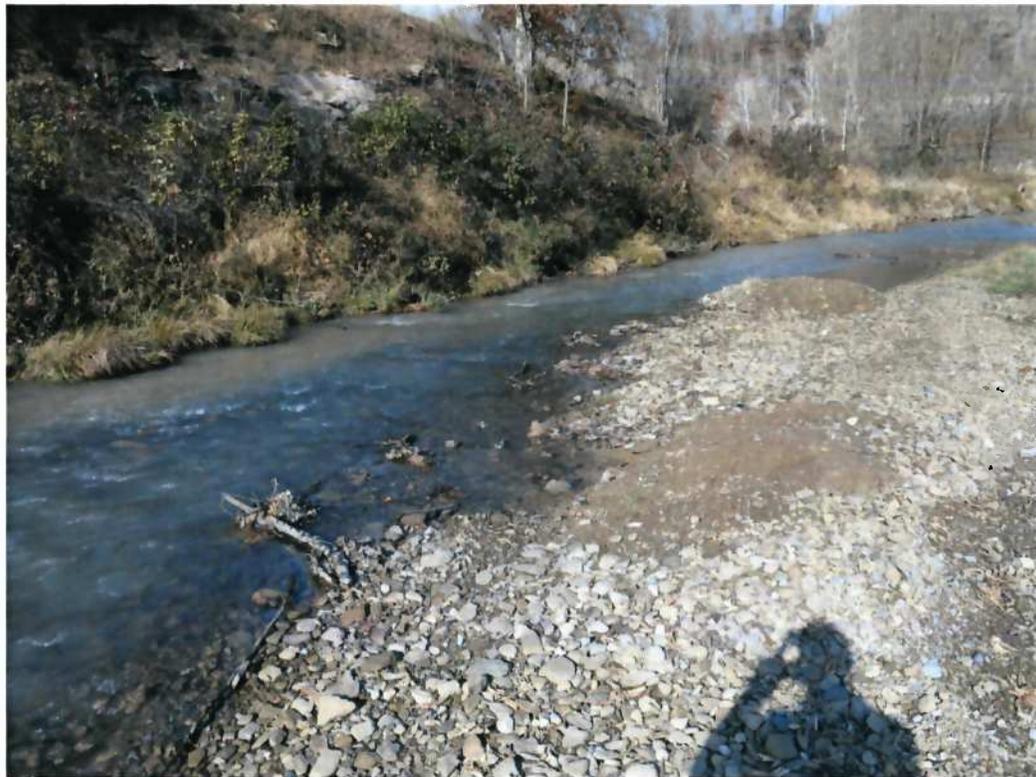
Crestwood Marcellus Midstream, LLC  
Banner Compressor Station

Photo Log  
Stream and Wetland Delineation  
11/8/13

- 1) Meathouse Fork (perennial) facing upstream
- 2) Meathouse Fork (perennial) facing downstream
- 3) Snake Run (perennial) facing upstream
- 4) Snake Run (perennial) facing downstream
- 5) UNT-1 (intermittent) facing upstream
- 6) UNT-1 (intermittent) facing downstream
- 7) UNT-2 (ephemeral) facing upstream
- 8) UNT-2 (ephemeral) facing downstream
- 9) UNT-3 (ephemeral) facing upstream
- 10) UNT-3 (ephemeral) facing downstream
- 11) UNT-4 (ephemeral) facing upstream
- 12) UNT-4 (ephemeral) facing downstream
- 13) UNT-5 (ephemeral) facing upstream
- 14) UNT-5 (ephemeral) facing downstream



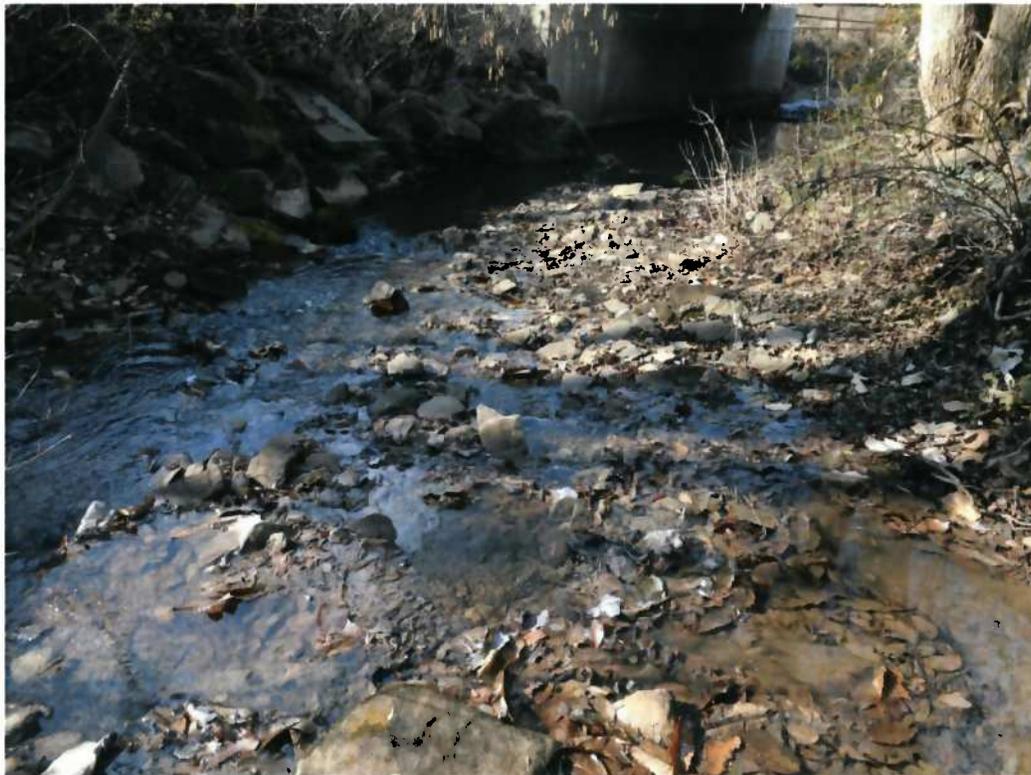
1) Meathouse Fork (perennial) facing upstream



2) Meathouse Fork (perennial) facing downstream



3) Snake Run (perennial) facing upstream



4) Snake Run (perennial) facing downstream



**5) UNT-1 (intermittent) facing upstream**



**6) UNT-1 (intermittent) facing downstream**



7) UNT-2 (ephemeral) facing upstream



8) UNT-2 (ephemeral) facing downstream



9) UNT-3 (ephemeral) facing upstream



10) UNT-3 (ephemeral) facing downstream



11) UNT-4 (ephemeral) facing upstream



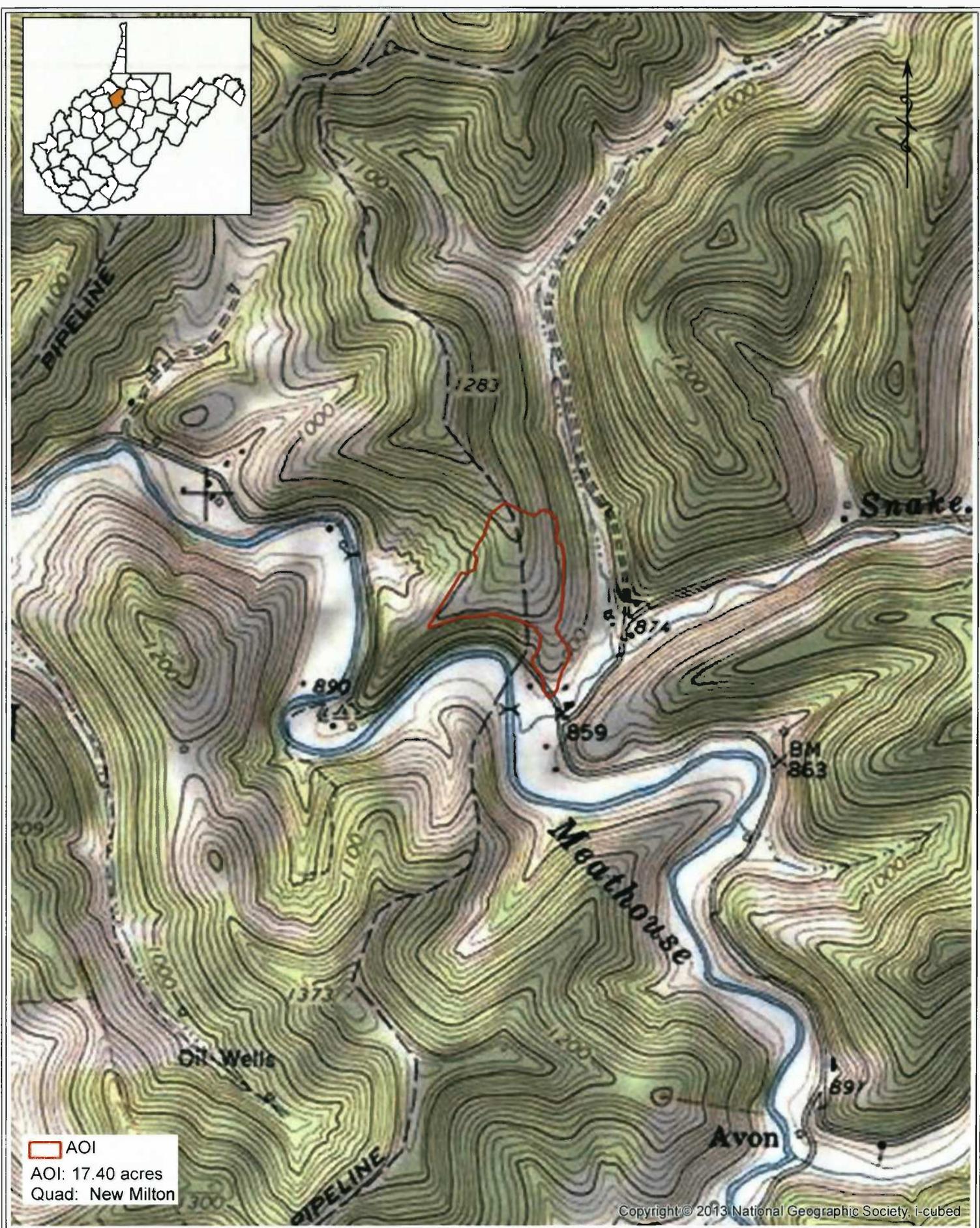
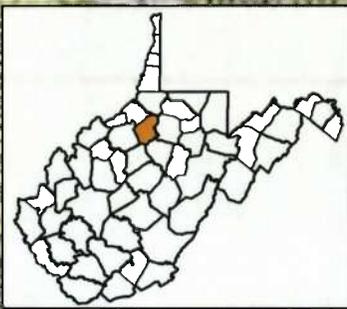
12) UNT-4 (ephemeral) facing downstream



13) UNT-5 (ephemeral) facing upstream



14) UNT-5 (ephemeral) facing downstream



 AOI  
AOI: 17.40 acres  
Quad: New Milton

Copyright © 2013 National Geographic Society, i-cubed



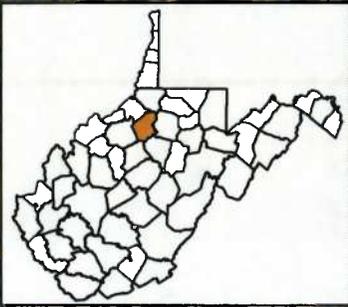
Figure 1: Site Location  
Banner Compressor Station  
Doddridge County - West Virginia



1 inch = 1,000 feet

12/2/2013

By: clemasters



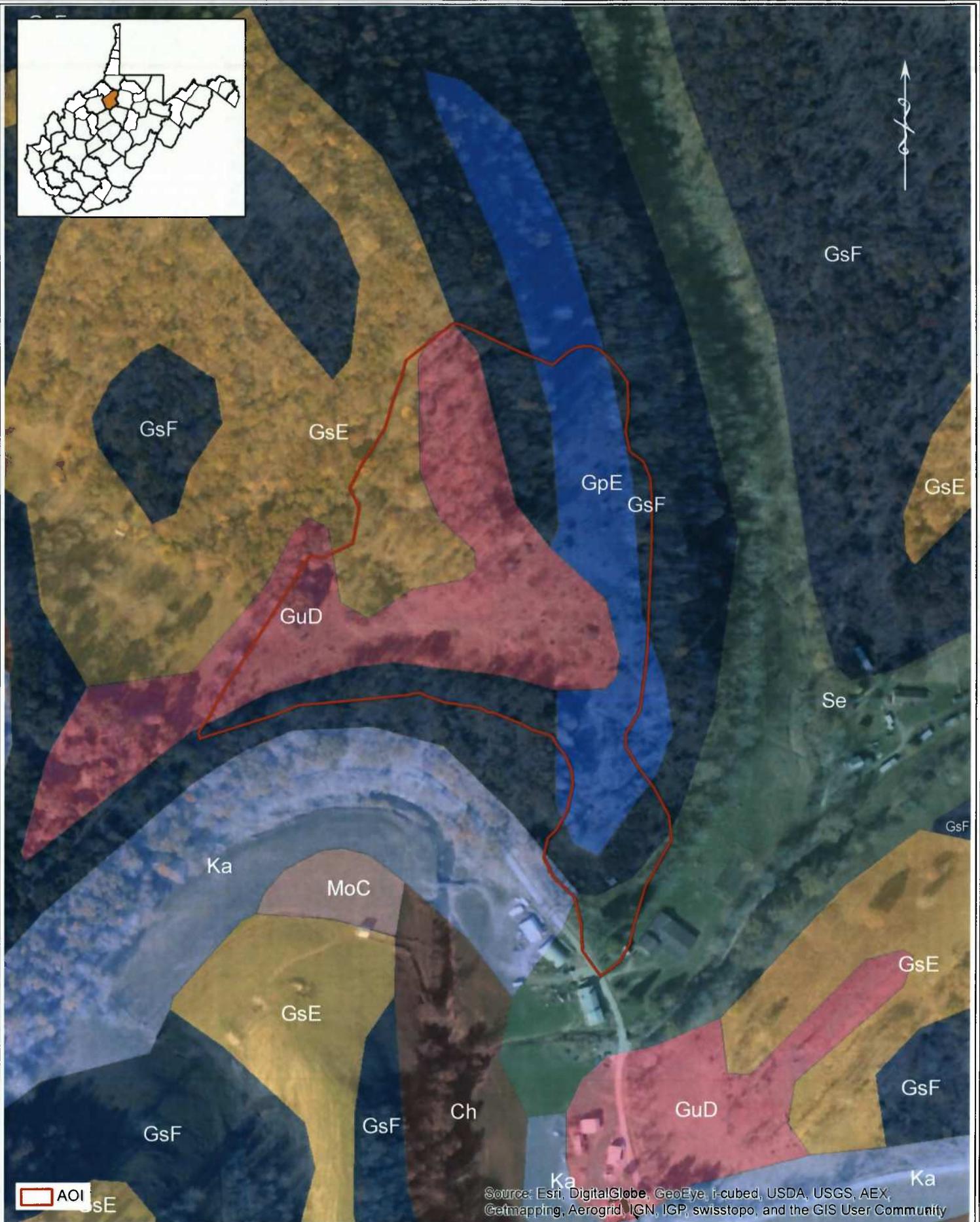
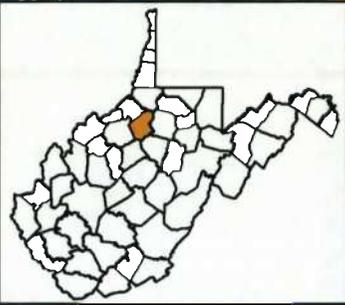
**Note:** NWI data is downloaded from the US Fish & Wildlife website and used without any edits or modifications. There are no wetland areas near this location according to this data.

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Figure 2: NWI Mapper  
Banner Compressor Station  
Doddridge County - West Virginia





Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



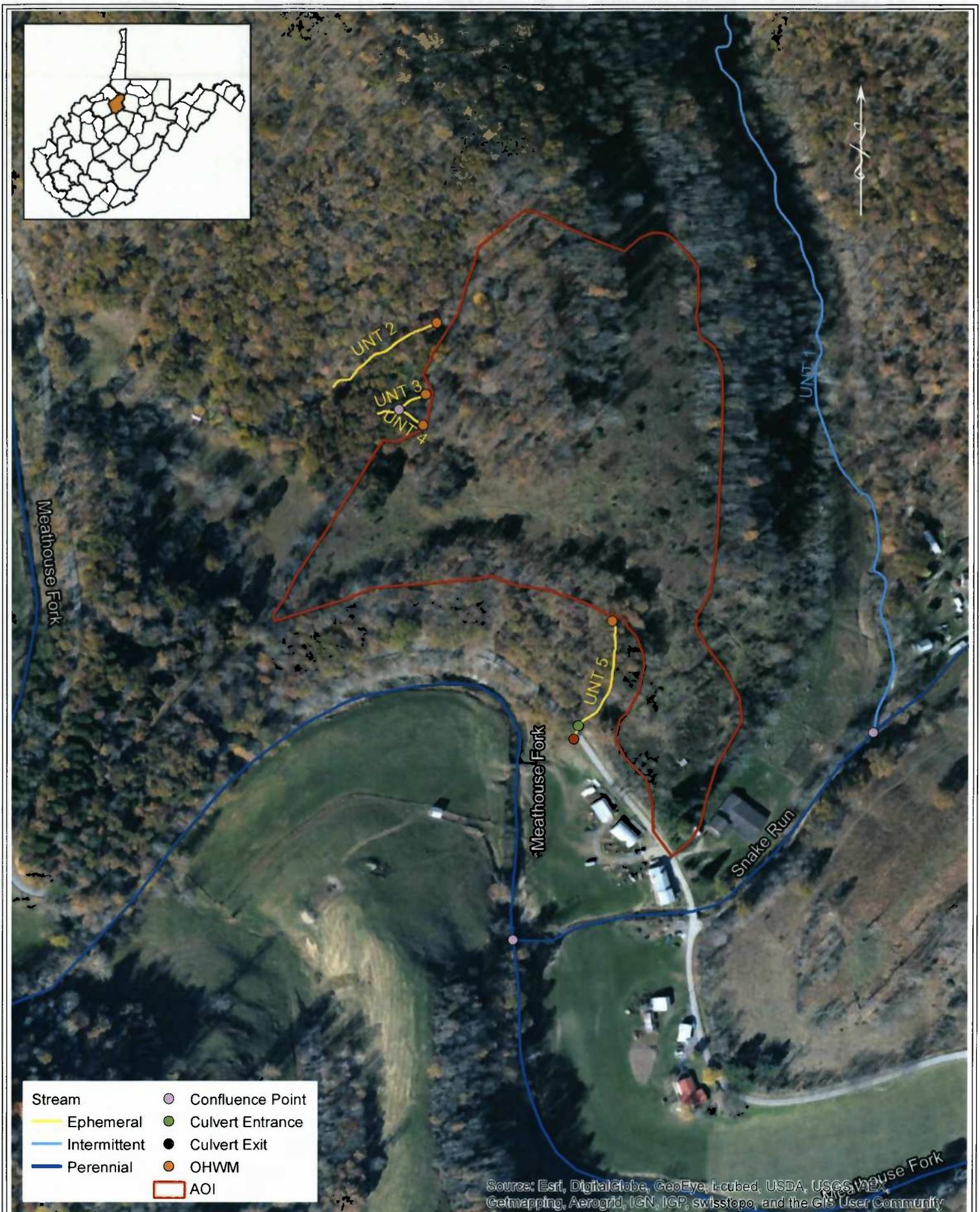
Figure 3: Soil Types  
Banner Compressor Station  
Doddridge County - West Virginia



1 inch = 300 feet

12/2/2013

By: clemasters



- |                |                    |
|----------------|--------------------|
| Stream         | ● Confluence Point |
| — Ephemeral    | ● Culvert Entrance |
| — Intermittent | ● Culvert Exit     |
| — Perennial    | ● OHWM             |
| — AOI          |                    |

Source: Esri, DigitalGlobe, GeoEye, Earthstar, USDA, USGS, AeroGRID, IGN, IGP, swisstopo, and the GIS User Community



Figure 4: Delineation  
Banner Compressor Station  
Doddridge County - West Virginia





1/4 Mile Buffer  
Non-Forested Area  
AOI  
**8.07 Forested Acres in AOI**

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Forested Acres**  
Banner Compressor Station  
Doddridge County - West Virginia



By: clemasters

1 inch = 400 feet

12/2/2013

304-326-

6387

Tom

waiting  
on

~~for info~~

Chick