

# THRASHER

FILED

2013 NOV 15 PM 1:38

BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

November 13, 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  
Plaughter North Pipeline, Doddridge County, West Virginia  
Thrasher Group Project # 101-015-0168***

Mr. Wellings:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group Inc., 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, WV. The proposed area of interest (AOI) for the Plaughter North pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 8.75 acres. The proposed 12" steel Plaughter North pipeline originates at approximately 39.27056 N, 80.608340 W located at the Plaughter well pad. From there the pipeline extends 5,040.27 LF northwest to the Leonard gathering line located at approximately 39.264749 N, 80.596031 W.

The USGS topographical map and aerial imagery map contained herein depict the proposed limits of disturbance associated with the proposed construction. No above-ground or underground structures are proposed to be constructed within the 100 year flood plain. In addition, after construction, all material will be replaced to restore original elevation, slope and contour. Note that all required federal and state permit applications have been submitted for the project and are attached.

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 [rboustany@thrashereng.com](mailto:rboustany@thrashereng.com).

# THRASHER

Mr. Wellings  
November 13, 2013  
Page 2 of 2

Sincerely,

THRASHER GROUP, INC.



Ryan S. Boustany  
Environmental Staff Engineer

Enclosures

R:\015-0168 Plaughter North Pipeline- Crestwood\Documents\Permitting\Environmental\Correspondence\DCLIP

# 13-091

**Crestwood Marcellus  
Midstream LLC**

**Plaughter North Pipeline**

**THRASHER GROUP, INC. PROJECT # 101-015-0168**

DODDRIDGE COUNTY LOCATION

IMPROVEMENT PERMIT



November 2013

# 13-091  
Plaugher North P/L

# DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

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 Tom Marian - Agent

DATE 10/24/13

## 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 3400, Unit 20, Fort Worth TX, 76102

TELEPHONE NUMBER: (817) 339-5400

**BUILDER'S NAME:** Unknown at this time.  
**ADDRESS:** \_\_\_\_\_  
**TELEPHONE NUMBER:** \_\_\_\_\_

**ENGINEER'S NAME:** MATTHEW FLUHARTY, PE, The Thrasher Group, Inc  
**ADDRESS:** 600 White Oaks Boulevard, PO Box 940 Bridgeport WV 26330  
**TELEPHONE NUMBER:** (304) 624-4108

**PROJECT LOCATION:**

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

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

**DISTRICT:** \_\_\_\_\_

**DATE/FROM WHOM PROPERTY**

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

**LAND BOOK DESCRIPTION:** \_\_\_\_\_

**DEED BOOK REFERENCE:** \_\_\_\_\_

**TAX MAP REFERENCE:** \_\_\_\_\_

**EXISTING BUILDINGS/USES OF PROPERTY:** \_\_\_\_\_

**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 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
- 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 \$ \$1.75 million estimated**

**D. ADJACENT AND/OR AFFECTED LANDOWNERS:**

DISTRICT NAME	DIST	MAP	PAR	OWNER	ADDRESS	CITY/ZIP	LOC	BOOK	PAGE	LEGAL DESCR
GREENBRIER	4	4	7	DAVIDSON WALTER V & LEONARD J %MARLENE DAVIDSON	RT 1 BOX 287	SALEM WV 26426	RT. 42	140	554	BUFFALO CALF 83.61 AC B
GREENBRIER	4	4	8	DAVIDSON WALTER V & LEONARD J %MARLENE DAVIDSON	RT 1 BOX 287	SALEM WV 26426	RT 42	140	554	BUFFALO CALF 87 AC 90 PO
GREENBRIER	4	2	7	GILLIS DAVID T	RR2 BOX 203	MEADO WBROO K, WV 26404	RT 1 RT 42/4	196	182	BUFFALO CALF 101.69 AC FIVE TRS INT O&G
GREENBRIER	4	2	6	ERS WILLIAM P JR	101 HASTIN GS RD	SALEM, WV 26426		230	21	BUFFALO CALF 133.76 AC TWO TRS
GREENBRIER	4	2	4	COX THURMAN R & CONNIE S (SURV)	RR1 BOX 406A	SALEM, WV 26426	OFF RT. 42/4	229	76	BUFFALO CALF 58.6 AC THREE TRS

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: \_\_\_\_\_  
\_\_\_\_\_

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: \_\_\_\_\_  
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): \_\_\_\_\_

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: \_\_\_\_\_ <sup>165</sup>

Dated: \_\_\_\_\_ <sup>10/04/2011</sup>

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 \_\_\_\_\_

100-Year flood elevation is: \_\_\_\_\_ 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

11/19/2013

**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:

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

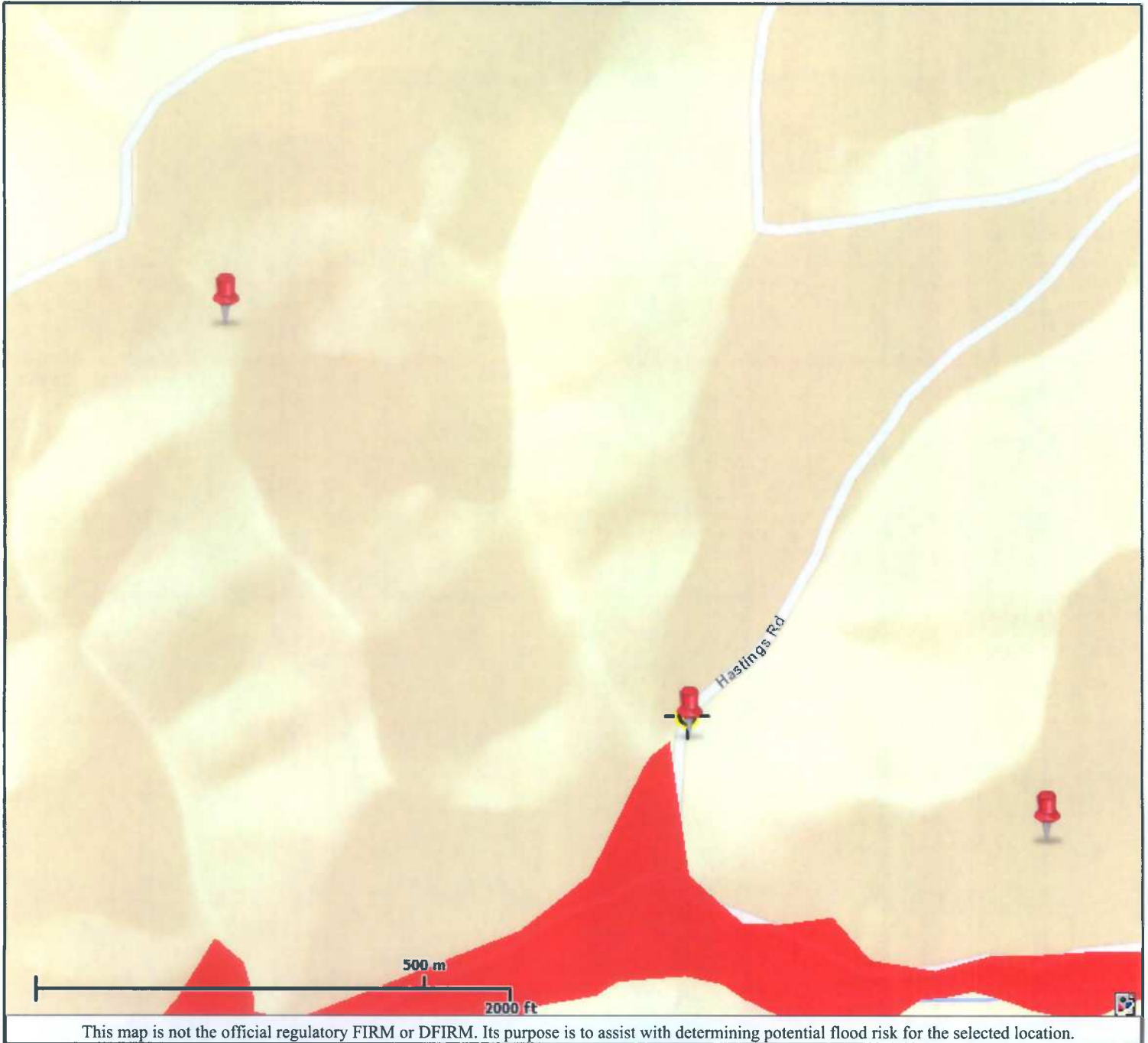
**OWNER'S ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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



Map Created on 11/13/2013



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](http://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 984 feet

**Location (long, lat):** 80.601424 W, 39.265881 N

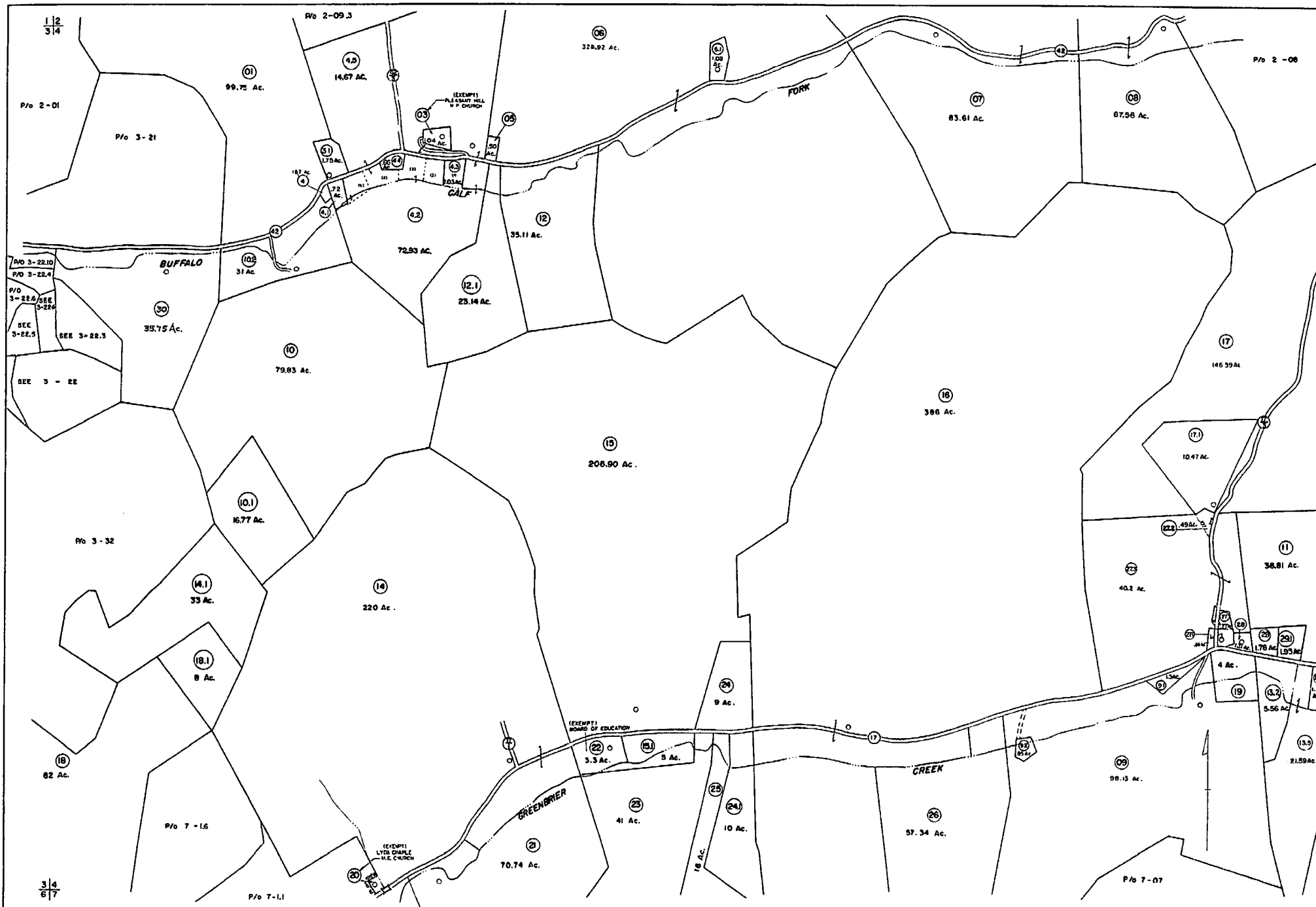
**Location (UTM 17N):** (534384, 4346358)

**FEMA Issued Flood Map:** 54017C0165C

**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Parcel Number:**



FOR TAX PURPOSES ONLY

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

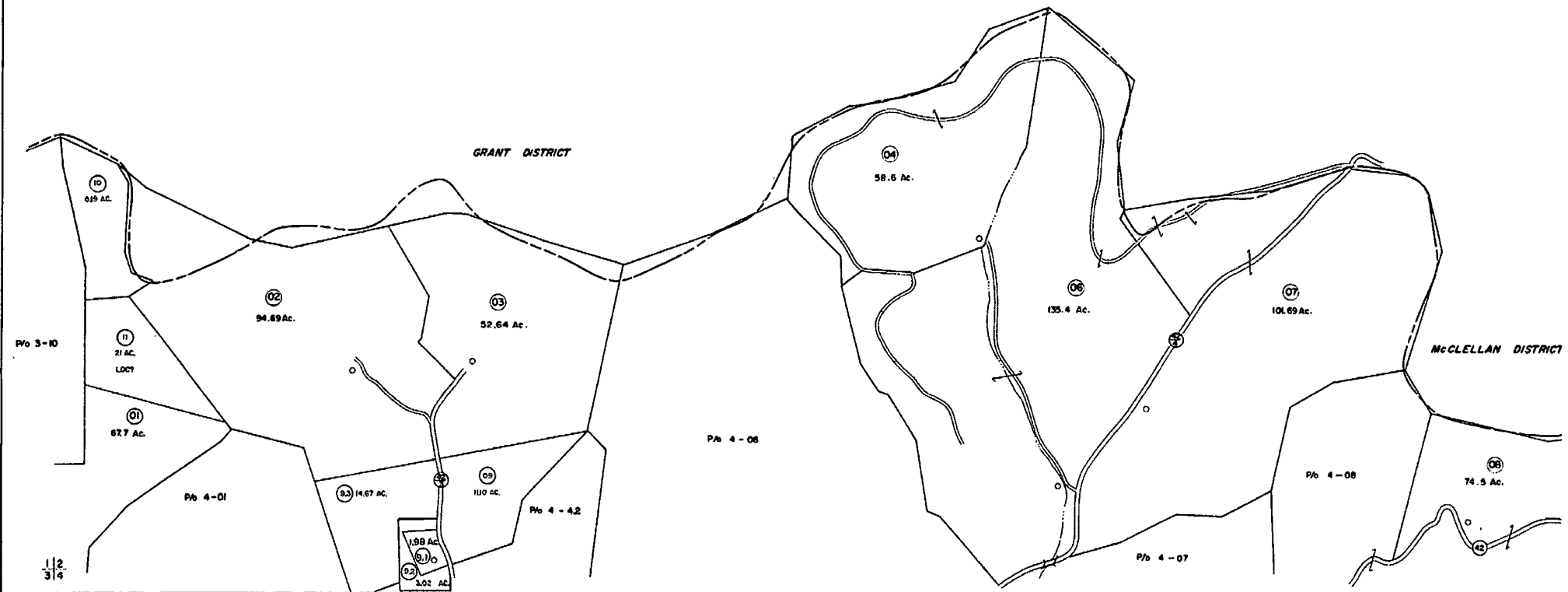
Legend	
Property line	Original lot line
Stage of ground to roadway	Deed lot number
Conveyance line	Parcel or index number when
Boundary line	Improvement
County line	Setback

Revisions			
1	REVISED 3/20/84	1	TO 1-01-83
1	REVISED 1/11/87	2	JULY 1987
1	REVISED 1/11/87	3	REVISED 1-2-87
1	REVISED 1/11/87	4	REVISED 1-2-87
1	REVISED 1/11/87	5	REVISED 1-2-87
1	REVISED 1/11/87	6	REVISED 1-2-87
1	REVISED 1/11/87	7	REVISED 1-2-87
1	REVISED 1/11/87	8	REVISED 1-2-87
1	REVISED 1/11/87	9	REVISED 1-2-87
1	REVISED 1/11/87	10	REVISED 1-2-87
1	REVISED 1/11/87	11	REVISED 1-2-87
1	REVISED 1/11/87	12	REVISED 1-2-87
1	REVISED 1/11/87	13	REVISED 1-2-87
1	REVISED 1/11/87	14	REVISED 1-2-87
1	REVISED 1/11/87	15	REVISED 1-2-87
1	REVISED 1/11/87	16	REVISED 1-2-87
1	REVISED 1/11/87	17	REVISED 1-2-87
1	REVISED 1/11/87	18	REVISED 1-2-87
1	REVISED 1/11/87	19	REVISED 1-2-87
1	REVISED 1/11/87	20	REVISED 1-2-87
1	REVISED 1/11/87	21	REVISED 1-2-87
1	REVISED 1/11/87	22	REVISED 1-2-87
1	REVISED 1/11/87	23	REVISED 1-2-87
1	REVISED 1/11/87	24	REVISED 1-2-87
1	REVISED 1/11/87	25	REVISED 1-2-87
1	REVISED 1/11/87	26	REVISED 1-2-87
1	REVISED 1/11/87	27	REVISED 1-2-87
1	REVISED 1/11/87	28	REVISED 1-2-87
1	REVISED 1/11/87	29	REVISED 1-2-87
1	REVISED 1/11/87	30	REVISED 1-2-87

STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY  
 Office of Assessor

GREENBRIER DISTRICT  
 SHEET 04

Date, Aerial Photography: APRIL, 1982  
 Photo No: 204, 101



**FOR TAX PURPOSES ONLY**

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

Property line  
 Edge of pavement or roadway  
 Corporation line  
 District line  
 County line

**Legend**

Original tax line  
 Date for exorbitant increase  
 Parcel or lot number in sub.  
 Improvement  
 Railroad

Revisions			
1	REVISED 3/20/64		
1	REVISED 7-20		
1	TO JULY 1962 C P		
1	LOGIS 1-8-60 JB		
1	2015 1-8-62 JB		
1	SUB REC 3/28/60 JAW		

**STATE OF WEST VIRGINIA**  
**DODDRIDGE COUNTY**  
 Office of Assessor

**GREENBRIER DISTRICT**  
**SHEET 02**

Date, Aerial Photography: 1961, 1962  
 Photo No: 270



# THRASHER

October 3, 2013

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

**RE: *Project Review Request  
Crestwood Marcellus Midstream LLC  
Plaughter North Pipeline, Doddridge County, West Virginia  
Thrasher Group Project #101-015-0168***

To whom it may concern:

On behalf of Crestwood Marcellus Midstream (Crestwood), the Thrasher Group, Inc. (Thrasher) is submitting to your office a project review request for Section 7 clearance for a proposed pipeline project in the USGS Salem 7.5 minute quadrangle of Doddridge County, WV. The proposed area of interest (AOI) for the Plaughter North pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 8.75 acres. The proposed 12" steel Plaughter North pipeline originates at approximately 39.27056 N, 80.608340 W located at the Plaughter well pad. From there the pipeline extends 5,040.27 LF northwest to the Leonard gathering line located at approximately 39.264749 N, 80.596031 W.

All streams within the proposed AOI have been identified and delineated by Thrasher staff. Three (3) intermittent unnamed tributaries (UNT) were found to cross a portion of the proposed Plaughter North pipeline AOI. Another ephemeral UNT is near the construction AOI; however disturbance to this resource is not anticipated. The attached delineation mapping depicts all findings within the proposed AOI.

Of the 8.75 acres contained within the AOI, 6.43 acres are forested and timbering activities are expected to occur. As timber felling shall not exceed 17 acres, no adverse impacts to the Indiana bat populations are anticipated.

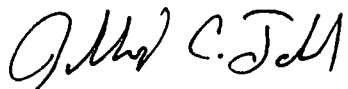
The USGS topographical map and aerial imagery map contained herein depict the proposed site. The included photo log displays all aquatic resources within the AOI and typical habitat within the intended AOI. The CD included with this submittal contains shapefiles depicting the extent of the AOI.

If any question or concerns should arise please feel free to contact me at (304) 343-7601 or [jtodd@thrashereng.com](mailto:jtodd@thrashereng.com).

USFWS  
October 3, 2013  
Page 2 of 2

Sincerely,

THE THRASHER GROUP, INC.

A handwritten signature in black ink, appearing to read "Jeffrey C. Todd". The signature is written in a cursive style with a large initial "J".

Jeffrey C. Todd  
Environmental Scientist

October 3, 2013

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

**RE: Project Review Request  
 Crestwood Marcellus Midstream LLC  
 Plaughter North Pipeline, Doddridge County, West Virginia  
 Thrasher Group Project #101-015-0168**

To whom it may concern:

On behalf of Crestwood Marcellus Midstream (Crestwood), the Thrasher Group, Inc. (Thrasher) is submitting to your office a project review request for Section 7 clearance for a proposed pipeline project in the USGS Salem 7.5 minute quadrangle of Doddridge County, WV. The proposed area of interest (AOI) for the Plaughter North pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 8.75 acres. The proposed 12" steel Plaughter North pipeline originates at approximately 39.27056 N, 80.608340 W located at the Plaughter well pad. From there the pipeline extends 5,040.27 LF northwest to the Leonard gathering line located at approximately 39.264749 N, 80.596031 W.

All streams within the proposed AOI have been identified and delineated by Thrasher staff. Three (3) intermittent unnamed tributaries (UNT) were found to cross a portion of the proposed Plaughter North pipeline AOI. Another ephemeral UNT is near the construction AOI; however disturbance to this resource is not anticipated. The attached delineation mapping depicts all findings within the proposed AOI.



**United States Department of the Interior**

**FISH AND WILDLIFE SERVICE**



West Virginia Field Office  
 694 Beverly Pike  
 Elkins, West Virginia 26241

In response to your letter above, we have made a "no effect" determination that the project will not affect federally-listed endangered or threatened species. Therefore no biological assessment or further section 7 consultation under the Endangered Species Act is required with the Fish and Wildlife Service. Should project plans change, or if additional information on listed and proposed species becomes available, this determination may be reconsidered.

Definitive determinations of the presence of waters of the United States, including wetlands, in the project area and the need for permits, if any, are made by the U.S. Army Corps of Engineers. They may be contacted at: Huntington District, Regulatory Branch, 502 Eighth Street, Huntington, West Virginia 25701, telephone (304) 399-5710.

*[Signature]* 10/24/2013  
 Reviewer's signature and date

*[Signature]* 10/24/13  
 Field Supervisor's signature and date

# THRASHER

October 3, 2013

Mr. Joe Scarberry  
Office of Land and Streams  
Building 74, Room 200  
324 Fourth Avenue  
South Charleston, WV 25303

**RE: Crestwood Marcellus Midstream LLC  
Plaughter North Pipeline, Doddridge County, West Virginia  
Thrasher Group Project #101-015-0168**

Dear Mr. Scarberry:

On behalf of Crestwood Marcellus Midstream LLC., (CRESTWOOD) the Thrasher Group, Inc., (THRASHER) is submitting to your office a Stream Activity Permit for a proposed natural gas pipeline project in the Salem quadrangle of Doddridge County, WV. The proposed 12" steel Plaughter North pipeline originates at approximately 39.27056 N, 80.608340 W located at the Plaughter well pad. From there the pipeline extends 5,040.27 LF northwest to the Leonard gathering line located at approximately 39.264749 N, 80.596031 W.

The attached USGS topographical map, as well as the attached aerial imagery map, shows the proposed location of the pipeline route. Also please find a completed stream activity application form.

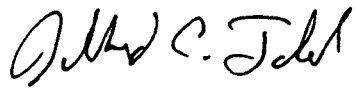
The Plaughter North pipeline will include three (3) stream crossings. Unnamed tributaries (UNT) of Buffalo Calf Fork have been identified, delineated, and shown on the attached mapping. Another ephemeral UNT is near the construction AOI; however disturbance to this resource is not anticipated. Please see the attached photographs of the stream which was delineated within the project area.

If any further documentation or permitting is required for this project, or if you have any questions, please feel free to contact me at (304) 343-7601 or [jtodd@thrashereng.com](mailto:jtodd@thrashereng.com).

Mr. Scarberry  
October 3, 2013  
Page 2 of 2

Sincerely,

THRASHER GROUP, INC.



Jeffrey C. Todd  
Environmental Scientist

Enclosure

R:\015-0168 Plaugher North Pipeline\Documents\Permitting\Environmental\OLS Letter.doc

OFFICE OF LAND AND STREAMS  
STREAM ACTIVITY APPLICATION

1. Name of Applicant: Crestwood Marcellus Midstream LLC - Miranda Jones  
(Landowner)

2. Date: October 3, 2013

3. Complete mailing address of applicant: 801 Cherry St., Suite 3400, Unit 20, Fort Worth TX, 76102

Telephone Number: (817) 339-5470

Fax Number: (817) 339-5540

E-Mail Address: mjones@crestwoodlp.com

4. Name, address, telephone number, and title of applicant's authorized agent (i.e. contractor employed by landowner):  
Thrasher Group Inc. 300 Association Drive, Charleston WV 25311, (304) 343-7601 - Jeffrey Todd - Environmental Sci

Please  if you want the approval sent to the agent

5. Describe the proposed activity, its purpose and intended use after completion, type of equipment to be used in the stream, amount of material to be dredged (if any), plan for disposing of dredged materials, length of stream/bank to be worked or type and size of structure to be placed in the stream (i.e. length and width of bridge, diameter and length of culvert). **One copy of a map (topographical or detailed, hand-drawn) showing exact location of the work site (enabling Officials to locate site) must accompany this application**, and all other information that may be important to this application.

CRESTWOOD proposes to construct a natural gas pipeline that will consist of approximately 5,040 LF of 12" steel gas line along with numerous welds and fittings. This line will transport natural gas from a proposed well head to an existing gas transmission line.

This project consists of three (3) unnamed tributary (UNT) crossings in relation to the area of interest (AOI) of the gas line.

All three (3) crossings will occur within the gas line right-of-way. These three (3) crossings are classified as being intermittent. Another ephemeral UNT is near the construction AOI; however disturbance to this resource is not anticipated. The three crossings will occur at an unnamed tributary of an unnamed tributary to Buffalo Calf Fork (UNT-2), an unnamed tributary of Buffalo Calf Fork (UNT-3), and an unnamed tributary of an unnamed tributary of Buffalo Calf Fork (UNT-4).

All streams, will be crossed using the cut and trench method with either backhoe or excavator type of equipment. These crossings will be considered temporary not causing a loss since the substrate will be side cast and used as backfill restoring the stream to original contour and elevation.

(if additional space is required, continue on a separate sheet)

6. Please  the proposed use:  
Private: \_\_\_\_\_ (person use)      Public: \_\_\_\_\_ (Government Agency)      Commerical:         (Business)

7. Location where proposed activity exists or will occur:  
Unnamed Tributaries of Buffalo Calf Fork  
Name of Water Way (if unnamed or unknown tributary, provide the stream that is flows into)  
Doddridge      Salem  
County      District (taxable)      Closest City or Town

8. Date activity is proposed to commence: November 1, 2013  
Date activity is expected to be complete: January 1, 2013

9. Is any portion of the activity for which authorization is sought now complete? Yes \_\_\_\_\_ No   
(If the answer is "Yes", give reasons in Section 5 including month and year the activity was completed)

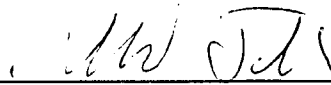
10. Below is a list of entities that may require permits. Please list all approvals or certifications required by other Government Agencies for the above-described activity:

Issuing agency: Corps of Engineers – (304) 399-5710 (412) 395-7170 (412) 395-7157	Type of approval: <u>NWP-12</u>
Identification No.: _____	Date of approval: <u>Pending</u>
Issuing agency: County Commission Flood Plain Coordinator	Type of approval: _____
Identification No.: _____	Date of approval: _____
Issuing agency: City Government (if in City Limits the County isn't needed)	Type of approval: _____
Identification No.: _____	Date of approval: _____

11. Has any agency denied approval for the activity described herein? Yes \_\_\_\_\_ No   
(if "Yes", explain in Section 5 and/or attach a copy of the denial)

12: If activity is a pipeline construction (that is, gas, water, or sewer) give:  
Material pipeline is made of: Gas -- Steel  
Size of Pipeline: 12"  
Maximum pressure of the pipeline: 1440 MOAP  
Please provide the appropriate line number and if a Gathering or Well Line provide the A.P.I. Well Number:  
Transmission: \_\_\_\_\_ Distribution: \_\_\_\_\_ Gathering: 017-06245 Well Line: \_\_\_\_\_ A.P.I Well Number: \_\_\_\_\_

13: Application is hereby made for authorization to conduct the activities described herein. I certify that I am familiar with the information in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

  
\_\_\_\_\_  
Signature of Applicant or Agent

Office of Land and Streams  
Building 74, Room 200  
324 Fourth Avenue  
South Charleston, WV 25303  
Phone Number 304-558-3225  
Fax Number 304-558-6048



RECEIVED

OCT 17 2013

**DIVISION OF NATURAL RESOURCES**  
324 Fourth Avenue, Room 200  
South Charleston WV 25303-1228  
TDD (304) 558-1439  
TDD 1-800-354-6087  
Fax (304) 558-6048  
Telephone (304) 558-3225

THRASHER ENVIRONMENTAL, INC.

Earl Ray Tomblin  
Governor

Frank Jezioro  
Director

October 9, 2013

Division of Natural Resources  
**LICENSE AND RIGHT OF ENTRY**

Re: P-13-VI/09-1371

Crestwood Marcellus Midstream LLC,  
Miranda Jones  
c/o Thrasher Group, Inc.  
Attention: Jeffrey Todd  
300 Association Drive  
Charleston, WV 25311-

Dear Ms. Jones:

The Division of Natural Resources hereby grants to you for a term of 10 years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove a twelve inch (12") steel pipeline along unnamed tributaries of Buffalo Calf Fork, in Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A.

This License and Right of Entry is subject to the following terms and conditions:

**High Quality Streams (HQS)** as listed in the West Virginia Division of Natural Resources High Quality Stream Sixth Edition published in 2001 and for any trout streams and direct tributaries of trout streams:

- Directional boring is the only method permitted during the fish spawning season. Fish spawning season for warmwater streams runs from April 1<sup>st</sup> through June 30<sup>th</sup>. Trout spawning season runs from October 1<sup>st</sup> through April 30<sup>th</sup>.
- Other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used outside of spawning seasons.
- Each crossing that utilizes dry ditch methods must be completed in 2 consecutive work days.

**Non-high quality stream:**

- Directional boring or other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used at all times during fish spawning season from April 1<sup>st</sup> through June 30<sup>th</sup>. This eliminates the need for spawning season restrictions.
- Crossings using methods other than directional boring. Must be completed in 1 work day.
- Only ephemeral/intermittent streams that are dry can be trenched.



Crestwood Marcellus Midstream LLC  
P-13-VI/09-1371  
Page 2  
October 9, 2013

**Bank Stabilization**

All bank stabilization projects must begin immediately upon completion of utility line crossing and be completed within 24 hours of completion of utility line crossing.

**Freshwater Mussels**

Mussel surveys on streams with known US Fish and Wildlife listed or candidate endangered species will be required if directional boring is not an option. Contact Janet Clayton of the WVDNR Wildlife Diversity Program for information concerning mussels at 304-637-0245.

For further assistance, contact the appropriate WVDNR District Fisheries Biologist.  
District 1 304-825-6787 District 2 304-822-3551 District 3 304-924-6211  
District 4 304-256-6947 District 5 304-675-0871 District 6 304-420-4550

The issuance of this License and Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this License and Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This License and Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this License and Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your check in the amount of \$525.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,

  
Joe T. Scarbetry, Supervisor  
Office of Land and Streams

JTS:cs

attachment

pc: DNR Fish Biologist  
Mr. Mike Zeto, Environmental Enforcement  
DNR Conservation Officers

Exhibit A

P-13-VI/09-1371

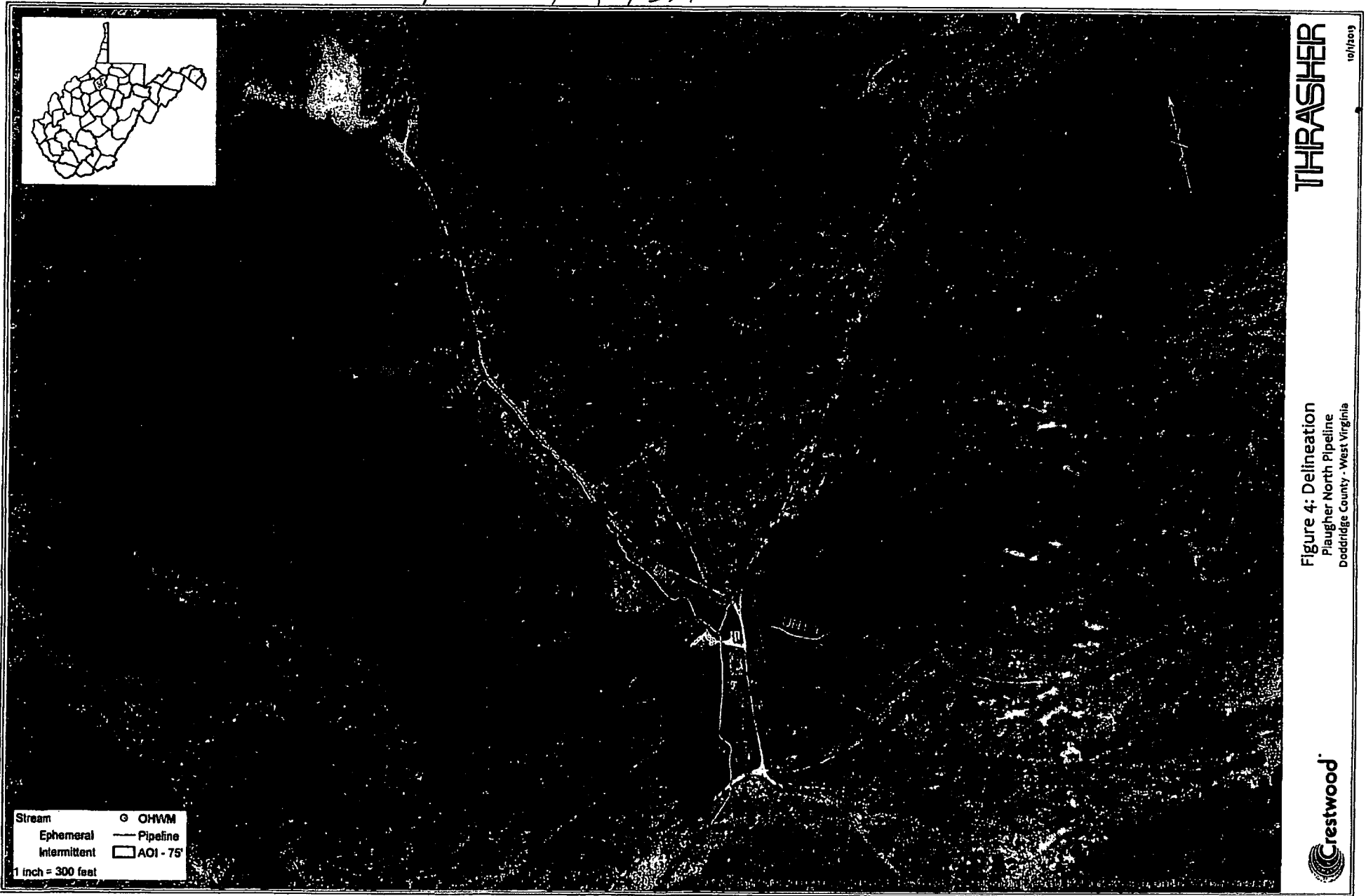


Figure 4: Delineation  
Plougher North Pipeline  
Doddridge County - West Virginia

THRASHER

10/1/2009



# THRASHER

October 3, 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: *Rare, Threatened and Endangered Species Review for Environmental Due Diligence  
Crestwood Marcellus Midstream LLC  
Plaugher North Pipeline, Doddridge County, West Virginia  
Thrasher Group Project #101-015-0168***

Dear Ms. Sargent:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), the Thrasher Group, Inc. (Thrasher), is submitting the following packet to your office as a request for a habitat assessment for any rare, threatened and endangered (RTE) wildlife resources for a proposed project in the USGS Salem 7.5 minute quadrangle of Doddridge County, WV. The proposed Plaugher West pipeline area of interest (AOI) consists of a 75' construction right-of-way (ROW) and contains approximately 8.75 acres. The proposed 12" steel Plaugher North pipeline originates at approximately 39.27056 N, 80.608340 W located at the Plaugher well pad. From there the pipeline extends 5,040.27 LF northwest to the Leonard gathering line located at approximately 39.264749 N, 80.596031 W.

Of the 8.75 acres contained within the AOI, 6.43 acres are forested and timbering activities are expected to occur. As timber removal shall not exceed 17 acres, no adverse impacts to Indiana bat populations are anticipated.

All streams within the proposed AOI have been identified and delineated by Thrasher staff. Three (3) intermittent unnamed tributaries (UNT) were found to cross a portion of the proposed Plaugher North pipeline AOI. Another ephemeral UNT is near the construction AOI; however disturbance to this resource is not anticipated. The attached delineation mapping depicts all findings within the proposed AOI.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and the proposed 75' construction ROW. The included photo log displays all aquatic resources within the AOI and typical habitat.

If any further documentation or permitting is required for this project, or if any questions may arise please feel free to contact me at your convenience at (304) 343-7601 or [jtodd@thrashereng.com](mailto:jtodd@thrashereng.com).

Ms. Sargent  
October 3, 2013  
Page 2 of 2

Sincerely,

THRASHER GROUP, INC.



Jeffrey C. Todd  
Environmental Scientist

Permitting



15-0168  
Jeff Todd  
Give: Emmy  
Misaitif

**DIVISION OF NATURAL RESOURCES**  
Wildlife Resources Section  
Operations Center  
P.O. Box 67  
Elkins, West Virginia 26241-3235  
Telephone (304) 637-0245  
Fax (304) 637-0250

Earl Ray Tomblin  
Governor

Frank Jezioro  
Director

October 16, 2013

Mr. Jeffery C. Todd  
The Thrasher Group, Inc.  
PO Box 940  
Bridgeport, WV 26330

Dear Mr. Todd:

We have reviewed our files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Plaughter North Pipeline project in Doddridge County, WV (Project #101-015-0168).

We have no known records of any RTE species or sensitive habitats within the project area. The Wildlife Resources Section knows of no surveys that have been conducted in the area for rare species or rare species habitat. Consequently, this response is based on information currently available and should not be considered a comprehensive survey of the area under review.

The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required. Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service.

Thank you for your inquiry, and should you have any questions please feel free to contact me at the above number, extension 2048. Enclosed please find an invoice.

Sincerely,

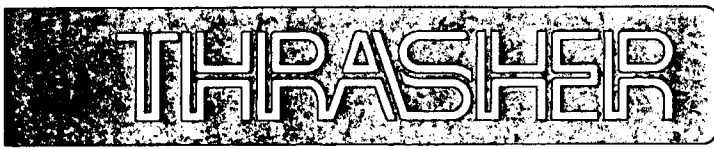
  
Barbara Sargent  
Environmental Resources Specialist  
Wildlife Diversity Unit

enclosure

**RECEIVED**

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OCT 21 2013



October 3, 2013

Ms. Susan Pierce, Deputy State Historic Preservation Officer  
The Cultural Center  
1900 Kanawha Blvd., E.  
Charleston, WV 25305-0300

**RE: *WVSHPO Section 106 Review for Environmental Due Diligence  
Crestwood Marcellus Midstream LLC  
Plaughter North Pipeline, Doddridge County, West Virginia  
Thrasher Group Project #101-015-0168***

Dear Ms. Pierce:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), the Thrasher Group, Inc. (Thrasher), is submitting to your office for Section 106 review for due diligence a proposed pipeline project in the USGS Salem 7.5 minute quadrangle of Doddridge County, WV. The proposed Plaughter North pipeline area of interest (AOI) consists of a 75' construction right-of-way (ROW) and contains approximately 8.75 acres. The proposed 12" steel Plaughter North pipeline originates at approximately 39.27056 N, 80.608340 W located at the Plaughter well pad. From there the pipeline extends 5,040.27 LF northwest to the Leonard gathering line located at approximately 39.264749, 80.596031 W.

The USGS topographical map and aerial imagery map contained herein depict the proposed AOI. All streams and wetlands within the proposed AOI have been identified and delineated by Thrasher staff. Three (3) intermittent unnamed tributaries (UNT) were found to cross a portion of the proposed Plaughter North pipeline AOI. Another ephemeral UNT is near the construction AOI; however disturbance to this resource is not anticipated.

Of the 8.75 acres contained within the AOI, 6.43 acres are forested and timbering activities will occur. As timber felling shall not exceed 17 acres, no adverse impacts to Indiana bat populations are anticipated.

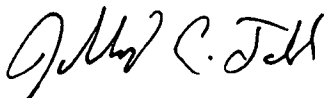
The attached slope map shows areas within the AOI with less than 20 degree slopes. During the field investigation, no historical buildings or any other places of interest were discovered onsite.

If any further consultation with your agency is required for this project, or if any questions may arise please feel free to contact me at your convenience at (304) 343-7601 or [jtodd@thrashereng.com](mailto:jtodd@thrashereng.com).

Ms. Pierce  
October 3, 2013  
Page 2 of 2

Sincerely,

THE THRASHER GROUP, INC.



Jeffrey C. Todd  
Environmental Scientist

15-168 permit

Jeff Todd



Division of  
**Culture and History**

October 23, 2013

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OCT 29 2013

**The Culture Center**  
1900 Kanawha Blvd., E.  
Charleston, WV 25305-0300

**Randall Reid-Smith, Commissioner**

Phone 304.558.0220 • www.wvculture.org  
Fax 304.558.2779 • TDD 304.558.3562

EEO/AA Employer

Mr. Jeffrey Todd  
Environmental Scientist  
Thrasher  
30 Columbia Blvd.  
PO Box 1532  
Clarksburg, WV 26301

RE: Plaugher North Pipeline; Thrasher Group Project # 101-015-0168  
FR# 14-8-DO

Dear Mr. Todd:

We have reviewed the above mentioned project to determine its effects to cultural resources. As required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

Based on the information submitted, Crestwood Marcellus Midstream, LLC proposes the construction of approximately 5,040 linear feet of pipeline on landforms above Buffalo Calf Fork in Doddridge County, WV. It is our understanding that no above ground project components are proposed as part of this project. Our records indicate no known archaeological resources are located within the proposed project area. In addition, available information, including the results of nearby surveys, indicates the proposed project is primarily located on steep terrain that is unlikely to contain significant archaeological resources. As a result, in our opinion there are no historic properties within the proposed project's APE. No further consultation is necessary. However, if intact cultural resources are encountered, including cemeteries, while constructing the pipeline, please cease all activity in the area of discovery and contact this office immediately.

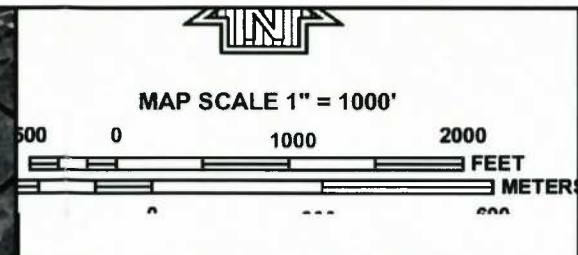
We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please contact Lora A. Lamarre-DeMott, Senior Archaeologist, at (304) 558-0240.*

Sincerely,

Susan M. Pierce  
Deputy State Historic Preservation Officer

SMP/LAL





**DODDRIDGE COUNTY  
UNINCORPORATED AREAS  
540024**

**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0165C


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

PANEL 165 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0165	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**  
54017C0165C  
**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)



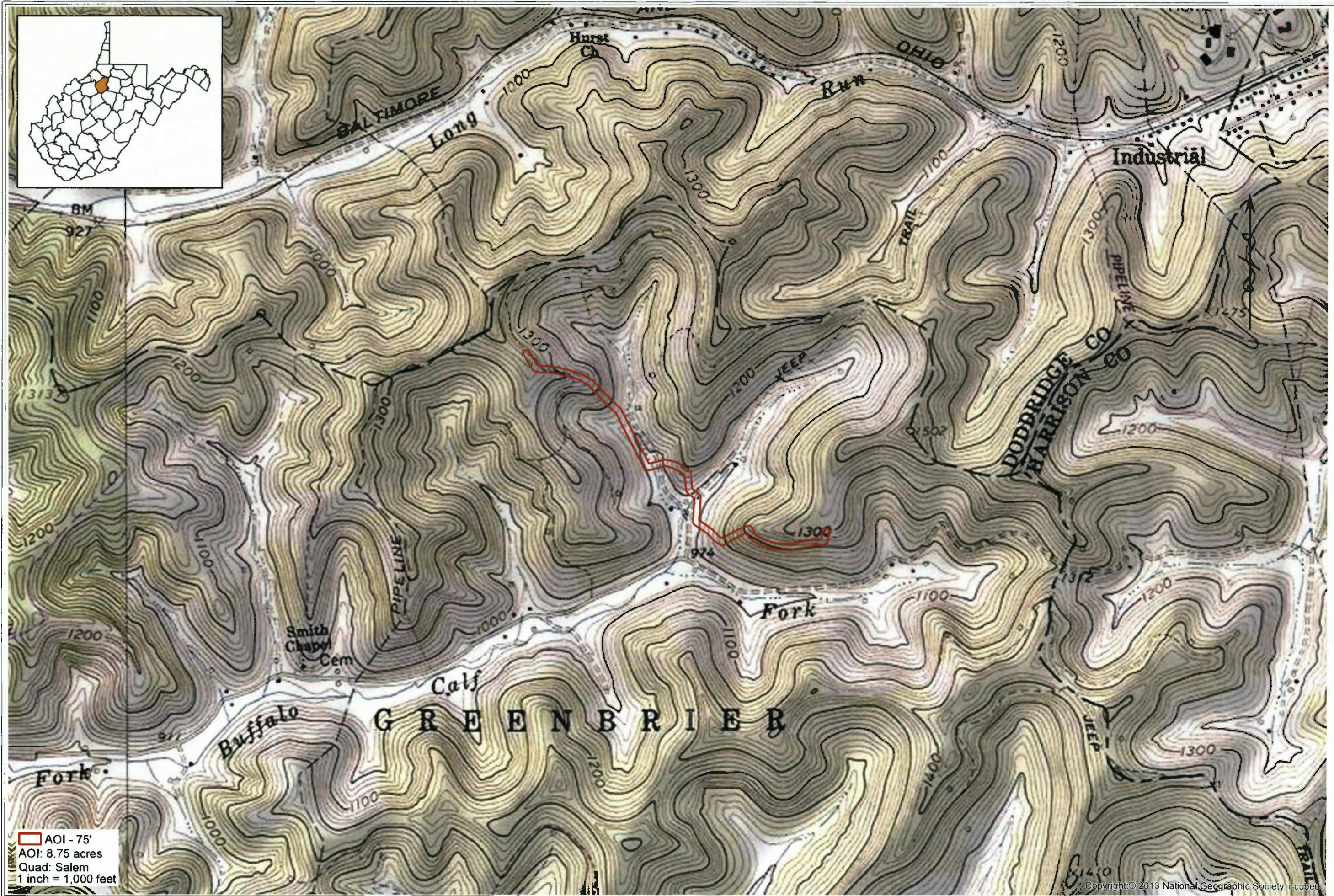


Figure 1: Site Location  
 Plaugher North Pipeline  
 Doddridge County - West Virginia





Figure 2: NWI Mapper  
 Plaugher North Pipeline  
 Doddridge County - West Virginia



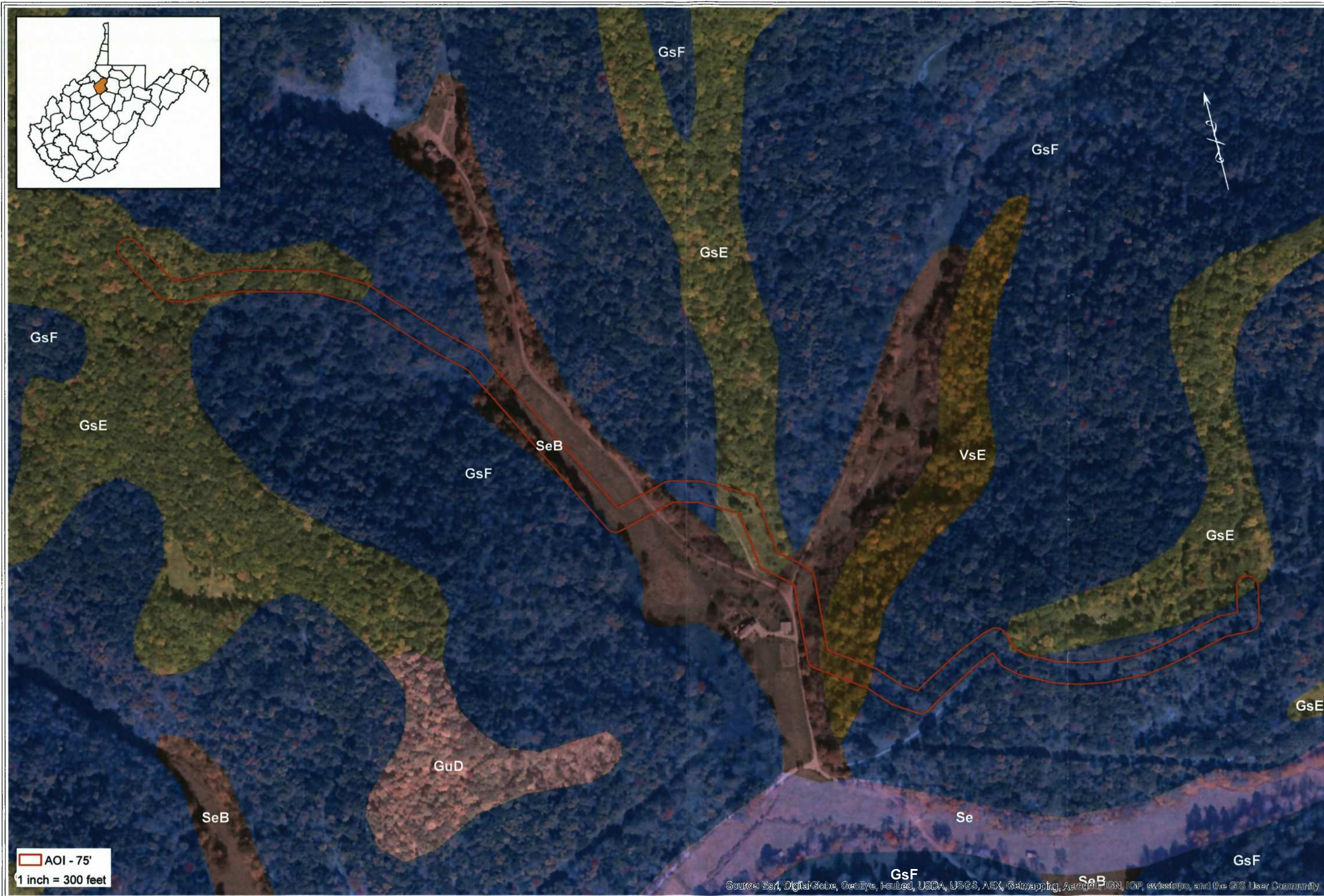


Figure 3: Soil Types  
Plougher North Pipeline  
Doddridge County - West Virginia



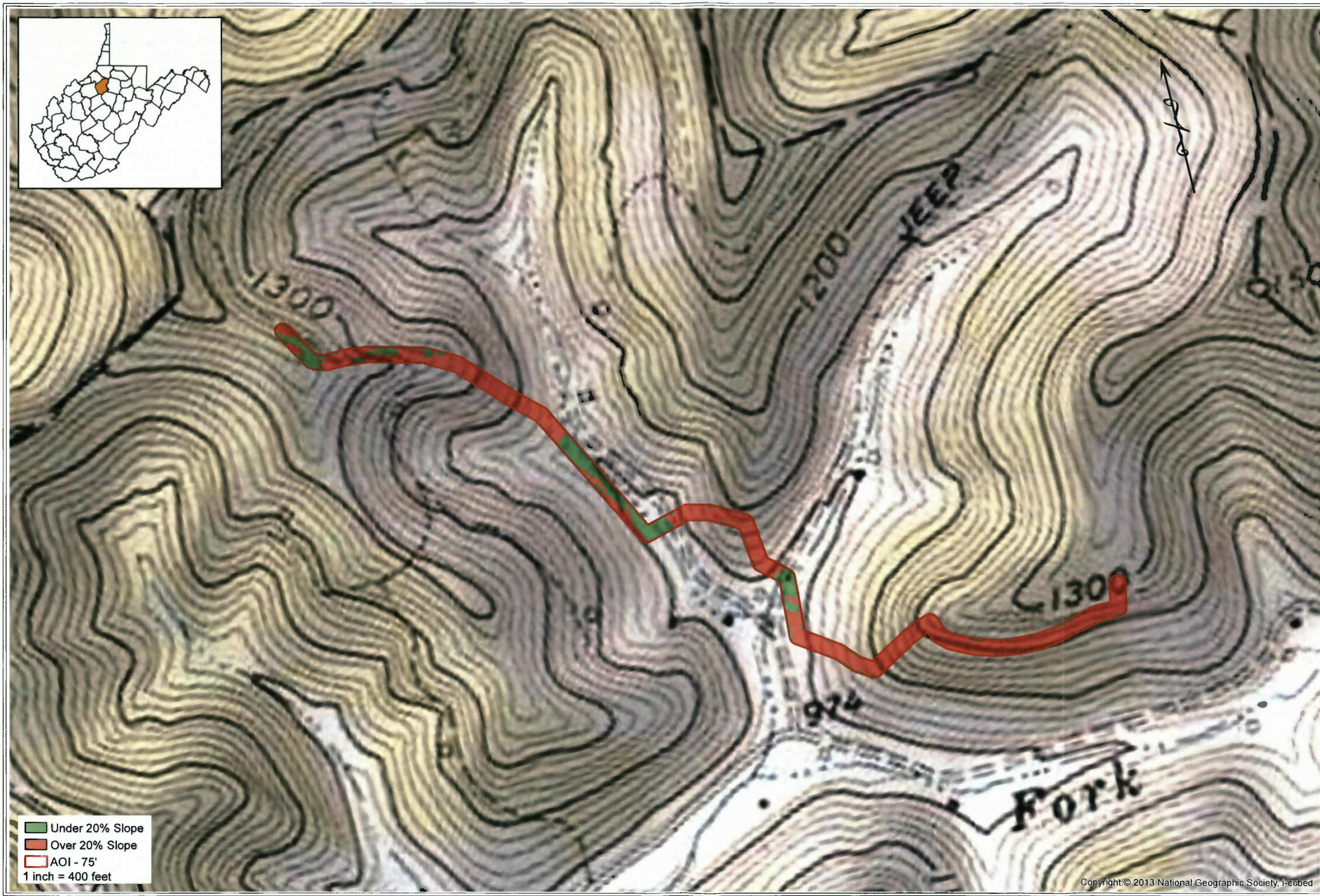
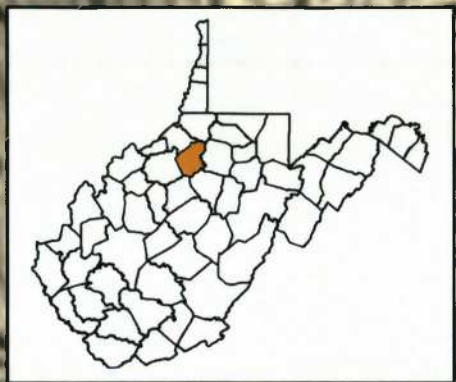


Stream  
 Ephemeral  
 Intermittent  
 OHWM  
 Pipeline  
 AOI - 75'  
 1 inch = 300 feet

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

Figure 4: Delineation  
 Plaugher North Pipeline  
 Doddridge County - West Virginia





Under 20% Slope  
Over 20% Slope  
AOI - 75'  
1 inch = 400 feet

THRASHER

10/1/2013

Slope  
Plaugher North Pipeline  
Doddridge County - West Virginia



Copyright © 2013 National Geographic Society, I-cubed





1/4 Mile Buffer  
Non-Forested Area  
AOI - 75'  
6.43 Forested Acres in AOI  
1 inch = 400 feet

Sources: Esri, DigitalGlobe, GeoEye, IGN, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Forested Acres  
Plaugher North Pipeline  
Doddridge County - West Virginia



THRASHER

10/1/2013