

PERMIT NO. 14-116

**DODDRIDGE COUNTY  
FLOODPLAIN DEVELOPMENT  
PERMIT**

PURPOSE FOR PERMIT: Pipeline

ISSUED TO Crestwood Marcellus Midstream, LLC

ADDRESS: 801 Cherry St, Suite 3400, Unit 20  
Fort Worth, TX 76102

PROJECT ADDRESS: 22 Miletus Rd (Michael Devrney)  
Properties

ISSUED BY: Ralph Jordan

DATE: 2-25-14

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.

# Doddridge County, West Virginia

RECEIPT NO: 1479

DATE: 2014/02/13

FROM: THRASHER GROUP INC

AMOUNT: \$ 500.00

FIVE HUNDRED DOLLARS AND 00 CENTS

FOR: #14-116 CRESTWOOD MARCELLUS  
MID-STREAM SUSIE JANE PIPELINE

00000079981 FP-BUILDING PERMITS

020-318

TOTAL: \$500.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

**LOCATION PERMIT FEES**

**Accessory Building and/or Structures** ..... \$ 5.00  
 (examples: garage, storage or farm building, carport)

**Additions and/or Renovations to Single Family Residential <sup>OR</sup> Manufacture Homes**  
**UP TO \$50,000.00** ..... \$10.00

**Additions and/or Renovations to Single Family Residential or Manufacture Homes**  
**OVER \$50,000.00** ..... \$10.00

**Single Family Residential UP TO \$50,000.00** ..... \$25.00

~~**Manufactured Homes** - described as having permanent axle and frame ..... NONE~~

**Multi-Family** ..... \$25.00  
 Residential and other buildings and structures, including additions and renovations to existing structures.

**New Commercial Structures or Renovations to existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities** ..... \$250.00  
 (Includes buildings used for business purposes the total costs of which do not exceed \$50,000.00.)

**New commercial Structures or Additions or Renovations to Existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities** ..... \$350.00  
 (the total costs of which exceed \$50,000.00 plus \$2.00 per \$1,000.00 to cover costs over \$50,000.00)

277' in floodplain  
 @ 225 per foot of pipe

277	12.325
x 225	1000   12,325
62,325	(12 x 2) = 24
- 50,000	350
12,325	+ 24
	<u>\$ 374</u>

**New Industrial Structures or Additions or Renovations to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes.** (the total costs of which do not exceed \$100,000.00) ..... \$500.00

**New Industrial Structures or Additions or Renovations to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes.** (the total costs of which exceed \$100,000.00 plus \$5.00 per \$1,000.00 in costs over \$100,000.00.) ..... \$1,000.00

**FEE FOR DRILLING OIL & GAS WELL** ..... \$1,000.00  
 IN FEMA DESIGNATED FLOOD PLAIN

**Maximum Fee:** In no event shall any Location Permit Fee charged under this Ordinance exceed the sum of \$100,000.00.

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 13<sup>th</sup> day of February, 2014

**CRESTWOOD MARCELLUS MIDSTREAM**

**SUSIE JANE PIPELINE #14-116**

filed an

application for a Floodplain Permit to develop land located at or  
about: **SURFACE OWNERS: MICHAEL & MICHELLE DEVINNEY**  
**GREENBRIER DISTRICT, D/B: 270/264, T/M: 4-7-1-1**

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 **FEBRUARY 23, 2014.**

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



**THRASHER****FILED**

2014 JAN 21 PM 1:15

BETH A. JOHNS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

January 16, 2014

Mr. Dan Wellings  
Doddridge County Commission  
118 East Court Street  
West Union, WV 26456**RE: *Doddridge County Location Improvement Permit  
Crestwood Marcellus Midstream LLC  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project # 101-015-0174***

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 Big Isaac, New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV. The proposed area of interest (AOI) for the Susie Jane pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 18.54 acres. The proposed 16" steel pipeline originates at approximately 39.254091 N, 80.63297 W located at an existing well pad. From there the pipeline extends 10,770 LF southeast to an existing natural gas pipeline located at approximately 39.235903 N, 80.61627 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 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.


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

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

# THRASHER

Mr. Wellings  
January 16, 2014  
Page 2 of 2

Sincerely,  
THRASHER GROUP, INC.



Ryan S. Boustany  
Staff Engineer

#14-116

Crestwood Marcellus Midstream  
Susie Jane Pipeline

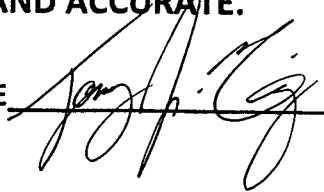
**FILED**  
**DODDRIDGE COUNTY**

**FLOODPLAIN DEVELOPMENT PERMIT APPLICATION**

ELTHA A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

**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  - Agent

DATE 01/16/2014

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

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

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

**ENGINEER'S NAME:** TOM MARION, 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 \$ \_\_\_\_\_**

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

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.

DIST NAME	DIST	MAP	PAR	SUB	OWNER	ADDRESS	CITY, ST ZIP	LOC	BOOK	PAGE	LEGAL DESC
GREENBRIER	4	4	14		BOWEN LOLA ET AL	RT 1 BOX 332	SALEM, WV 26426	RT 17	WB30	232	BUCKEYE 220 AC
GREENBRIER	4	4	18		CHUMLEY MILDRED T (LIFE)	RT 1 BOX 374	SALEM, WV 26426		284	616	BUCKEYE 62 AC INT O&G
GREENBRIER	4	3	22	2	DAVIS SHARON M (CARTY)	RT 2 BOX 172	BRISTOL, WV 26426		198	595	5.805 AC BUFFALO CALF LOT #2
GREENBRIER	4	7	1	1	DEVINNEY MICHAEL K & MICHELLE L (SURV)	22 MILETUS RD	SALEM, WV 26426	SALEM RD 1	270	264	BUCKEYE 68.07 AC
GREENBRIER	4	3	22		LLOYD EUGENE ERROL	398 B BUFFALO CALF RD	SALEM, WV 26426		286	360	BUFFALO CALF 12.801 AC
GREENBRIER	4	3	14	1	TRENT JOHN S JR & JACQUELIN S (SURV)	RT 1 BOX 375	SALEM, WV 26426		225	223	BUCKEYE 6.15 AC
GREENBRIER	4	3	32		TRENT JOHN S JR & JACQUELIN S (SURV)	RT 1 BOX 375	SALEM, WV 26426		225	223	BUCKEYE 96.6 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: \_\_\_\_\_

Dated: \_\_\_\_\_

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 \_\_\_\_\_

DATE \_\_\_\_\_

**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** \_\_\_\_\_



# Letter of Transmittal

TO: Dan Wellings  
Doddridge County  
Commission  
118 East Court Street  
West Union WV 26456  
(304) 873-2631

DATE 2/10/2014 PROJECT # 101-015-0174  
 ATTN: Dan Wellings - Floodplain Manager  
 RE: DCLIP Submittal

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
1	2/10/2014		Doddridge County Location Improvement

### THESE ARE TRANSMITTED AS CHECKED BELOW:

For Approval  Approved as Submitted  Resubmit  Copies for Approval  
 For Your Use  Approved as Noted  Submit  Copies for Approval  
 As Requested  Returned for Corrections  Return  Corrected Prints  
 For Signature and Processing

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

REMARKS Please see attached documents regarding Doddridge County  
Location Improvement Permit

CC: \_\_\_\_\_

SIGNED 

600 White Oaks Blvd. PO BOX 940 Bridgeport, WV 26330

TEL: 304.624.4108 FAX: 304.624.7831 EMAIL: thrasher@thrashereng.com

# THRASHER

#14-116  
Revised Crestwood Marcellus  
Mid Stream  
Susie Jane P/L

February 10, 2014

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

2014 FEB 11 PM 4:46  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

FILED

**RE: *Doddridge County Location Improvement Permit  
Crestwood Marcellus Midstream LLC  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project # 101-015-0174***

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 Big Isaac, New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV. The proposed area of interest (AOI) for the Susie Jane pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 18.54 acres. The proposed 16" steel pipeline originates at approximately 39.254091 N, 80.63297 W located at an existing well pad. From there the pipeline extends 10,770 LF southeast to an existing natural gas pipeline located at approximately 39.235903 N, 80.61627 W.

The proposed pipeline will traverse Greenbrier Creek utilizing open cut construction methods. All material will be stockpiled outside of the designated floodplain until reclamation. Approximately, 277 linear feet of pipeline will be in the 100 year floodplain. The total costs of work within the floodplain have been estimated to be:

277 linear feet of pipeline in the floodplain X \$225.00/ft. = \$62,325.00  
Construction costs are less than \$100,000.00 and so a check for \$500.00 is included in this submittal.

The USGS topographical map and aerial imagery map contained herein depict the proposed limits of disturbance associated with the proposed construction. No above-ground 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.

# THRASHER

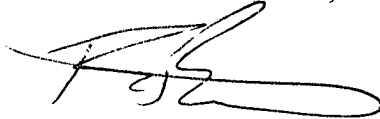
Mr. Wellings  
February 10, 2014  
Page 2 of 2

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. 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. All materials will be stockpiled outside of the designated floodplain until reclamation begins.

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

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

Sincerely,  
THRASHER GROUP, INC.



Ryan S. Boustany  
Staff Engineer



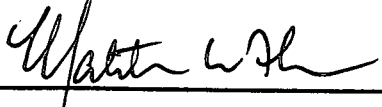
# 14-116  
Revised - Crestwood Marcellus  
mid stream  
Sosie Jane P/L

# 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.
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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.**

2014 FEB 11 PM 4:46  
 BETH A. ROGERS  
 COUNTY CLERK  
 DODDRIDGE COUNTY, TX  
 FILED

APPLICANT'S SIGNATURE 

DATE 2/10/14

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

**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 \$ \$62,325.00**

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

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.



DIST NAME	DIST	MAP	PAR	SUB	OWNER	ADDRESS	CITY, ST ZIP	LOC	BOOK	PAGE	LEGAL DESC
GREENBRIER	4	4	14		BOWEN LOLA ET AL	RT 1 BOX 332	SALEM, WV 26426	RT 17	WB30	232	BUCKEYE 220 AC
GREENBRIER	4	4	18		CHUMLEY MILDRED T (LIFE)	RT 1 BOX 374	SALEM, WV 26426		284	616	BUCKEYE 62 AC INT O&G
GREENBRIER	4	3	22	2	DAVIS SHARON M (CARTY)	RT 2 BOX 172	BRISTOL, WV 26426		198	595	5.805 AC BUFFALO CALF LOT #2
GREENBRIER	4	7	1	1	DEVINNEY MICHAEL K & MICHELLE L (SURV)	22 MILETUS RD	SALEM, WV 26426	SALEM RD 1	270	264	BUCKEYE 68.07 AC
GREENBRIER	4	3	22		LLOYD EUGENE ERROL	398 B BUFFALO CALF RD	SALEM, WV 26426		286	360	BUFFALO CALF 12.801 AC
GREENBRIER	4	3	14	1	TRENT JOHN S JR & JACQUELIN S (SURV)	RT 1 BOX 375	SALEM, WV 26426		225	223	BUCKEYE 6.15 AC
GREENBRIER	4	3	32		TRENT JOHN S JR & JACQUELIN S (SURV)	RT 1 BOX 375	SALEM, WV 26426		225	223	BUCKEYE 96.6 AC

\*

Surface  
owner

- (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): Matthew W Flaherty  
 SIGNATURE: Matthew W Flaherty DATE: 2/10/14

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: 255 C  
 Dated: 10/4/2011

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 \_\_\_\_\_  
 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

Ralph S. [Signature]

DATE

2-25-14

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

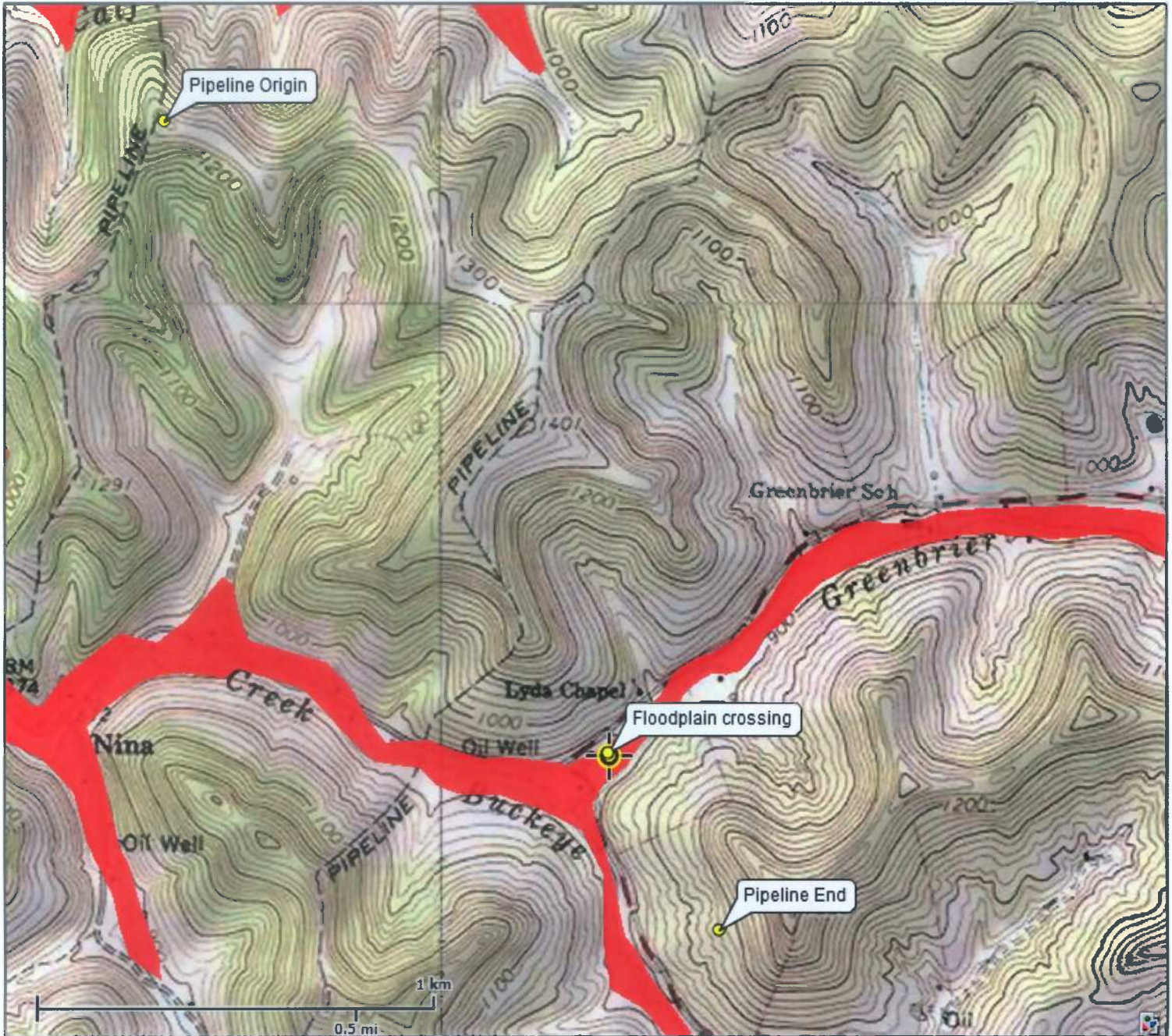
**THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN  
ADMINISTRATOR/MANAGER OR HIS/HER AGENT.**

**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** \_\_\_\_\_

# Susie Jane Flood Map

14-116



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 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 **WITHIN** the FEMA 100-year floodplain.

**Elevation:** About 883 feet

**Location (long, lat):** 80.619865 W, 39.240023 N

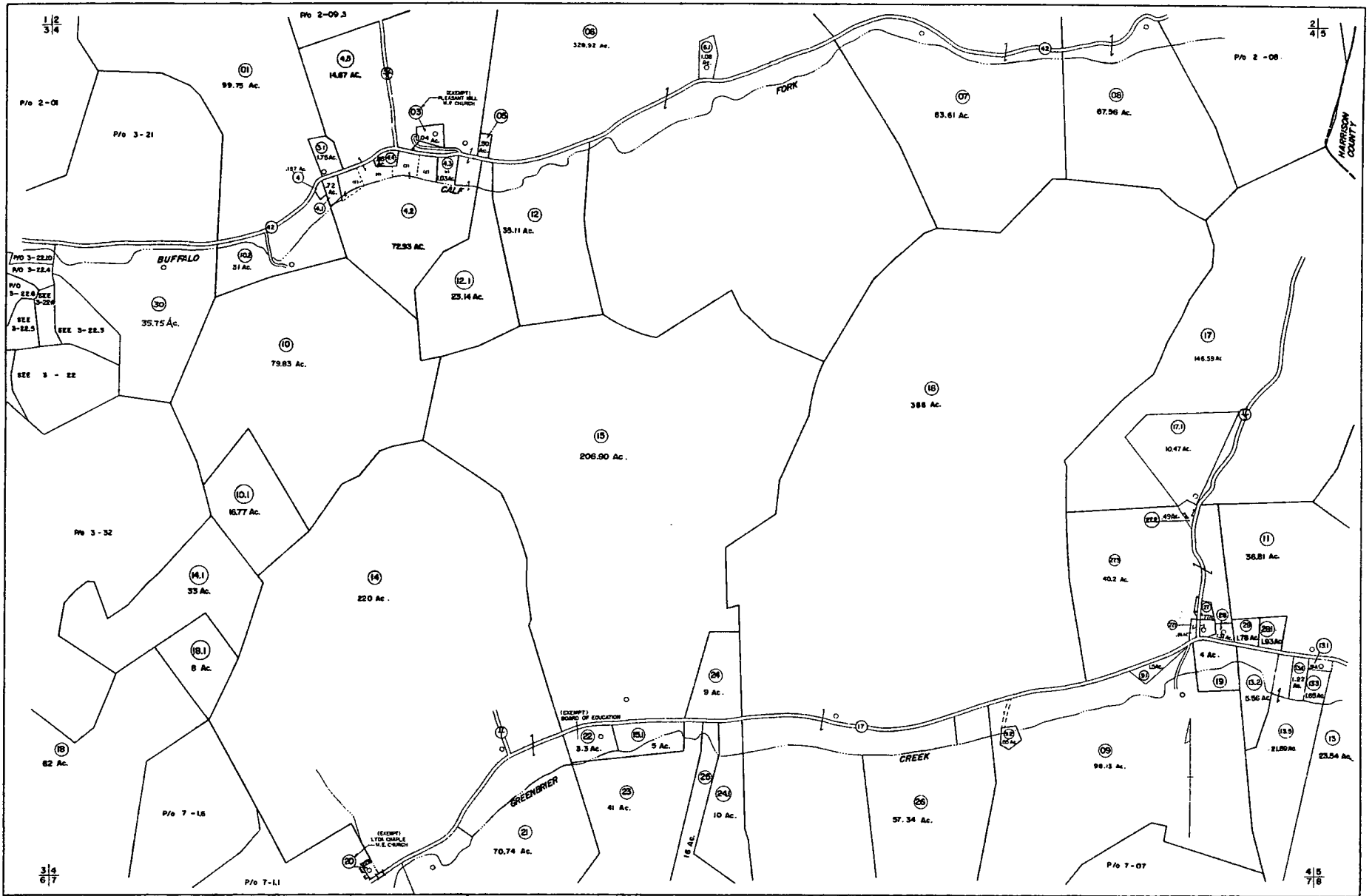
**Location (UTM 17N):** (532805, 4343482)

**FEMA Issued Flood Map:** 54017C0255C

**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Parcel Number:**



**FOR TAX PURPOSES ONLY**

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

**Legend**

Property line	Original lot line
Line of parcel or width	Dead lot number
Concentration line	Parcel or lot number or width
Street line	Improvement
Center line	Valuable

**Revisions**

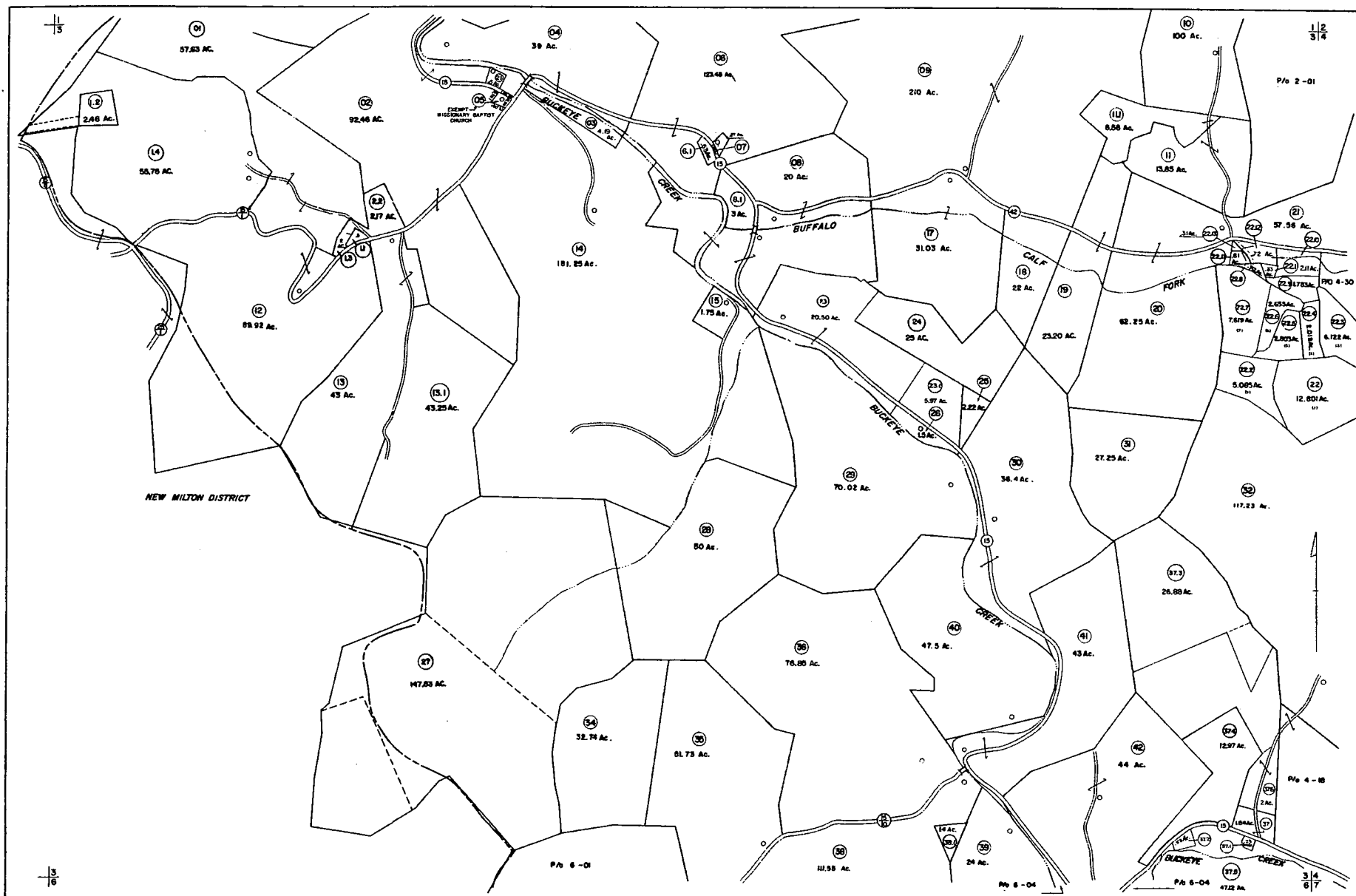
NO.	REVISION	DATE	BY
1	REVISED MAPS	1-1-81	C.P.
2	ADDED 70 AC.	7/12/82	THL
3	REVISED 70 AC.	7/12/82	THL
4	ADDED 10 AC.	10-24-82	JOK
5	REV. 20 AC.	12-1-82	JEB
6	REVISED TO 70 AC.	1-1-83	RD
7	ADDED 10 AC.	1-23-84	A.R.B.

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

**GREENBRIER DISTRICT**  
**SHEET 04**

Date: Aerial Photography: April, 1982  
 Photo No: 295.30  
 Date: Map July, 1982  
 Scale: 1" = 200'





FOR TAX PURPOSES ONLY

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

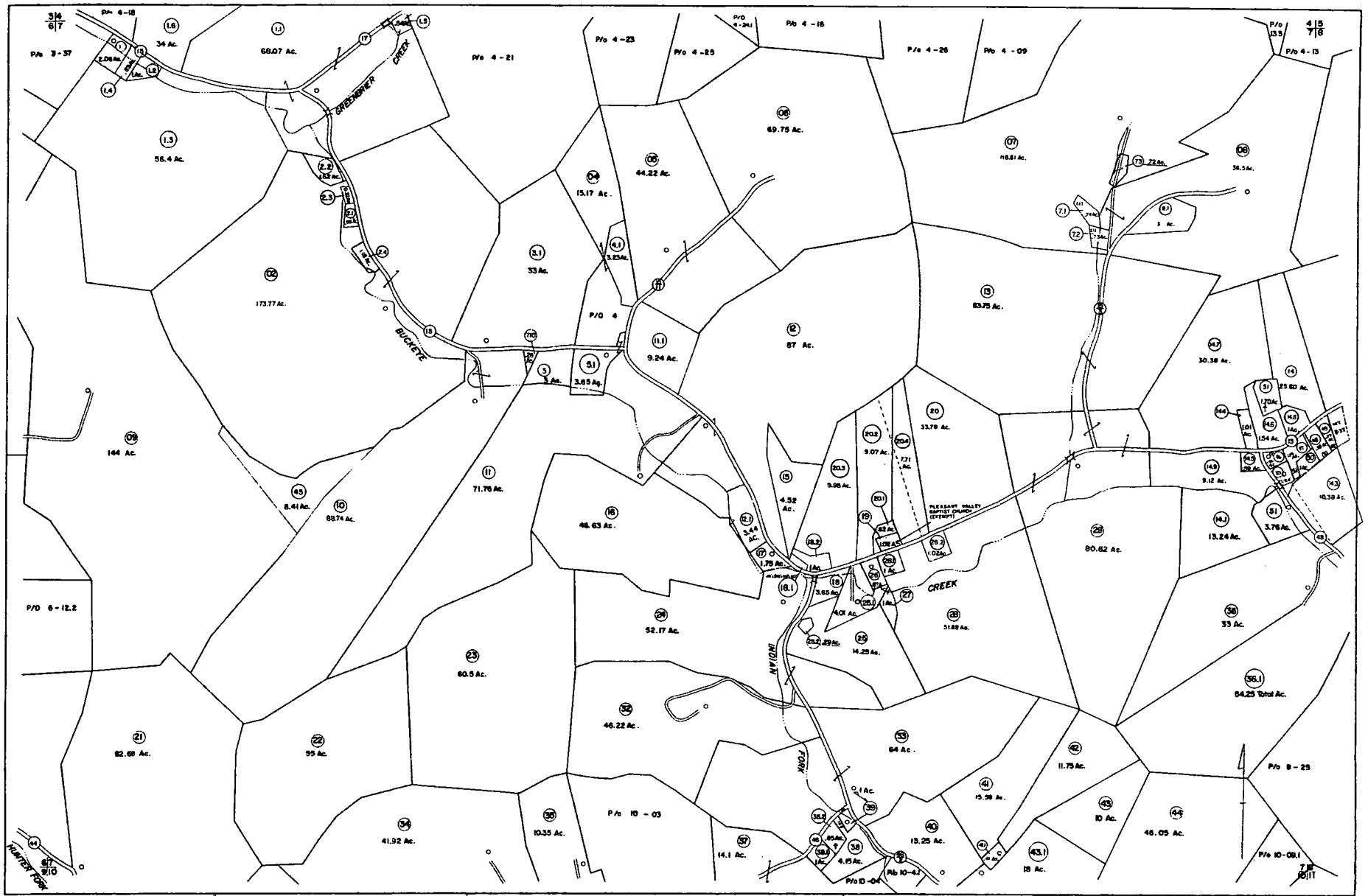
Legend	
Property line	Original lot line
Map of general or number	Bound lot number in section
Commission line	Parcel or lot number in map
Survey line	Improvement
County line	Waterway

Revisions	
1. 05/05/04	05/18 1-6-01
2. 05/10/04	05/22 12-14-01
3. 05/18/04	05/29 12-8-02
4. REV 7-18-04	06/05 2-3-05
5. 7-1-04	06/05 1-23-04
6. 7-1-04 C.P.	06/18 0-28
7. 1-1-07	06/18 12/25/07
8. 1-1-07	06/18 3/20/09

STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY  
 Office of Assessor

GREENBRIER DISTRICT  
 SHEET 03

Date: Aerial Photography: APR, 1962  
 Photo No: 28, 29  
 Scale: 1" = 400'



**FOR TAX PURPOSES ONLY**

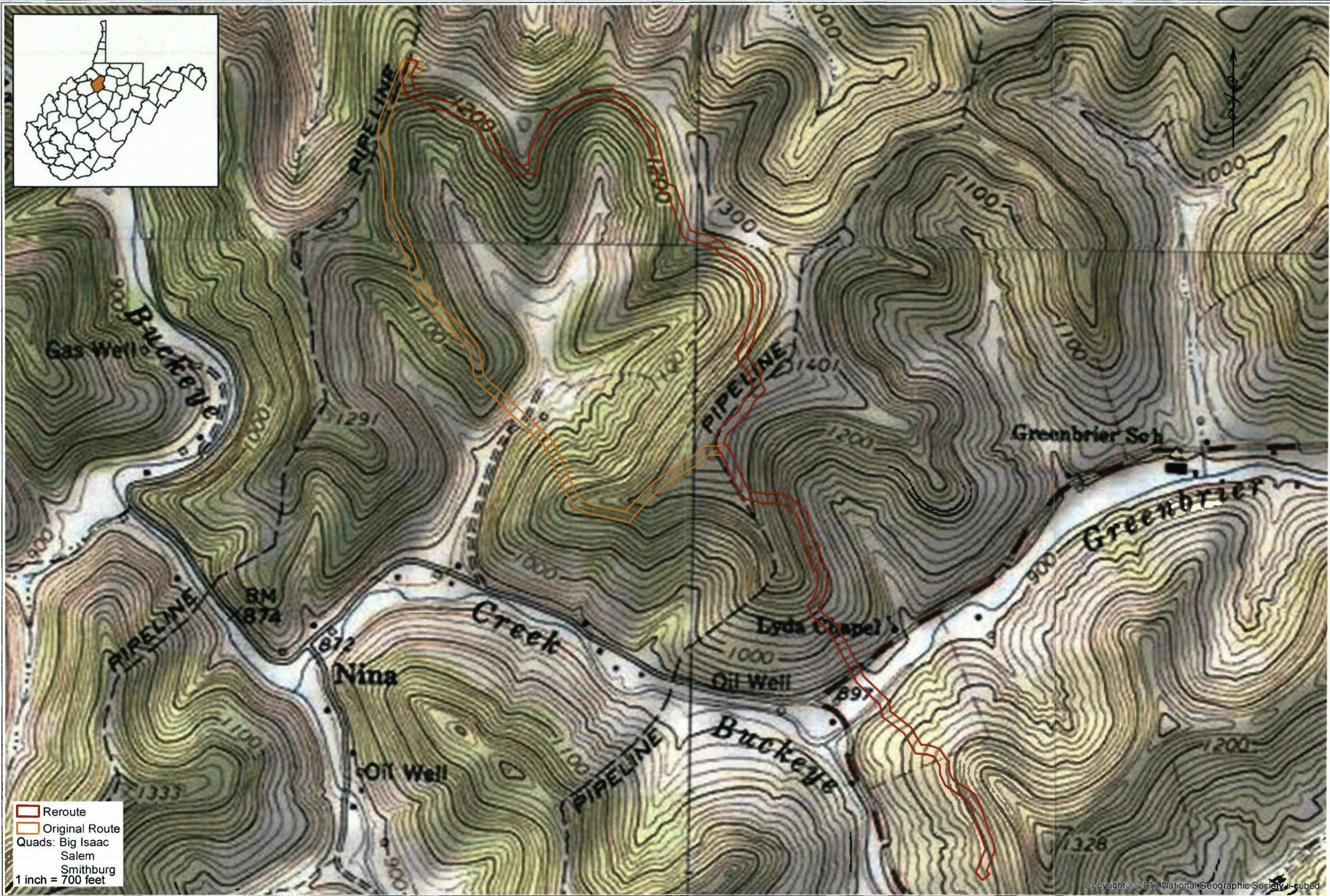
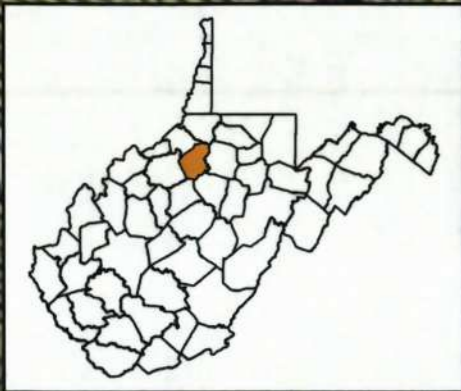
Prepared by  
**L. ROBERT KIMBALL**  
 Consulting Engineer  
 Ebersburg, Pennsylvania

Legend	
Property line	—
Edge of pavement or roadway	—
Conveyance line	—
Quarter line	—
County line	—
Shaded for area	○
Shaded for number	○
Partial or index number	○
Improvement	—
Watercourse	—

Revisions	
1. FINISHED 3/20/64	2. AL JTB
1. 3/20/64 EPL	3. D.D.S.
1. 8,875.75	4. 3/11/64 C.P.
1. 3,211.85	5. TRL
1. Survey of 1/20/64	6. S.S. INC. 3/20/64
1. REV. 7-81 ON 7-82	7. EBI
1. 10,247.22	8. D.D.S. 8-8-82
1. 2,545.22	9. D.D.S. 10-24-82
1. 2,545.22	10. S.S. INC. 3/17/82
1. 2,545.22	11. D.D.S. 10-24-82
1. 2,545.22	12. S.S. INC. 3/17/82
1. 2,545.22	13. D.D.S. 10-24-82
1. 2,545.22	14. S.S. INC. 3/17/82

STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY  
 Office of Assessor

**GREENBRIER DISTRICT  
 SHEET 07**  
 Date, Aerial Photography: 1962  
 Photo No: 24-30-317  
 Date, Map: 11/11/63  
 Scale: 1" = 400'



By: TDavis

Legend:  
— Reroute  
— Original Route  
Quads: Big Isaac  
Salem  
Smithburg  
1 inch = 700 feet

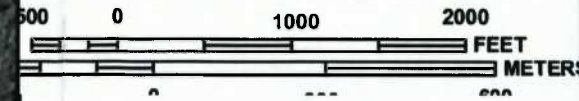
Copyright © 2013 National Geographic Society, i-cubed

80° 37' 30"  
5' 00"

JOINS PANEL 0165



MAP SCALE 1" = 1000'



# DODDRIDGE COUNTY UNINCORPORATED AREAS 540024

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0255C

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

PANEL 255 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0255	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.



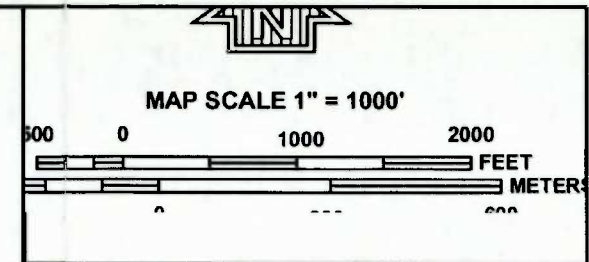
MAP NUMBER  
54017C0255C  
MAP REVISED  
OCTOBER 4, 2011

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)



**DODDRIDGE COUNTY  
UNINCORPORATED AREAS  
540024**



**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0145C

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

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

**CONTAINS:**

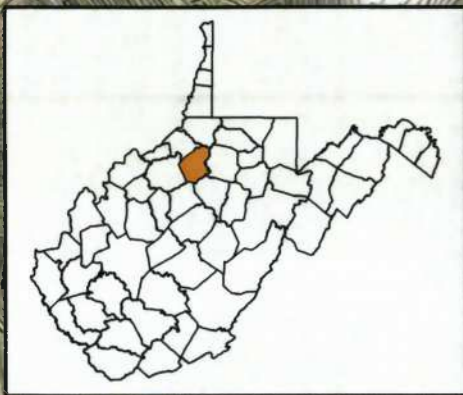
COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0145	C

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

JOINS PANEL 0235

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)



Index
  AOI - 75'  
 AOI: 18.54 acres  
 Quads: Big Isaac  
 Salem  
 Smithburg  
 1 inch = 2,000 feet

Figure 1: Site Location  
Susie Jane Pipeline  
Doddridge County - West Virginia



By: TDavis

 NWI  
 AOI - 75'  
 1 inch = 600 feet

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, Earthstar, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Figure 2: NWI Mapper  
Susie Jane Pipeline  
Doddridge County - West Virginia

THRASHER

12/17/2013



**Figure 3: Soil Types**  
 Susie Jane Pipeline  
 Doddridge County - West Virginia

By: TDavis

AOI - 75'  
 1 inch = 600 feet  
 VSE



By: hmartin



- |                   |                    |
|-------------------|--------------------|
| <b>Streams</b>    | ● Culvert Entrance |
| — Ephemeral       | ● Culvert Exit     |
| — Intermittent    | ● OHWM             |
| — Perennial       | ● I/E Point        |
| <b>Wetland</b>    | — Pipeline         |
| ■ PEM             | — Access Road      |
| 1 inch = 200 feet | □ Index            |
| Page 1 of 3       | □ AOI - 75'        |

WL 1  
0.032 acres

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

Figure 4: Delineation  
Susie Jane Pipeline  
Doddridge County - West Virginia



- |                   |                    |
|-------------------|--------------------|
| Streams           | ● Culvert Entrance |
| — Ephemeral       | ● Culvert Exit     |
| — Intermittent    | ● OHWM             |
| — Perennial       | ● I/E Point        |
| Wetland           | — Pipeline         |
| ■ PEM             | — Access Road      |
| 1 inch = 200 feet | □ Index            |
| Page 2 of 3       | □ AOI - 75'        |

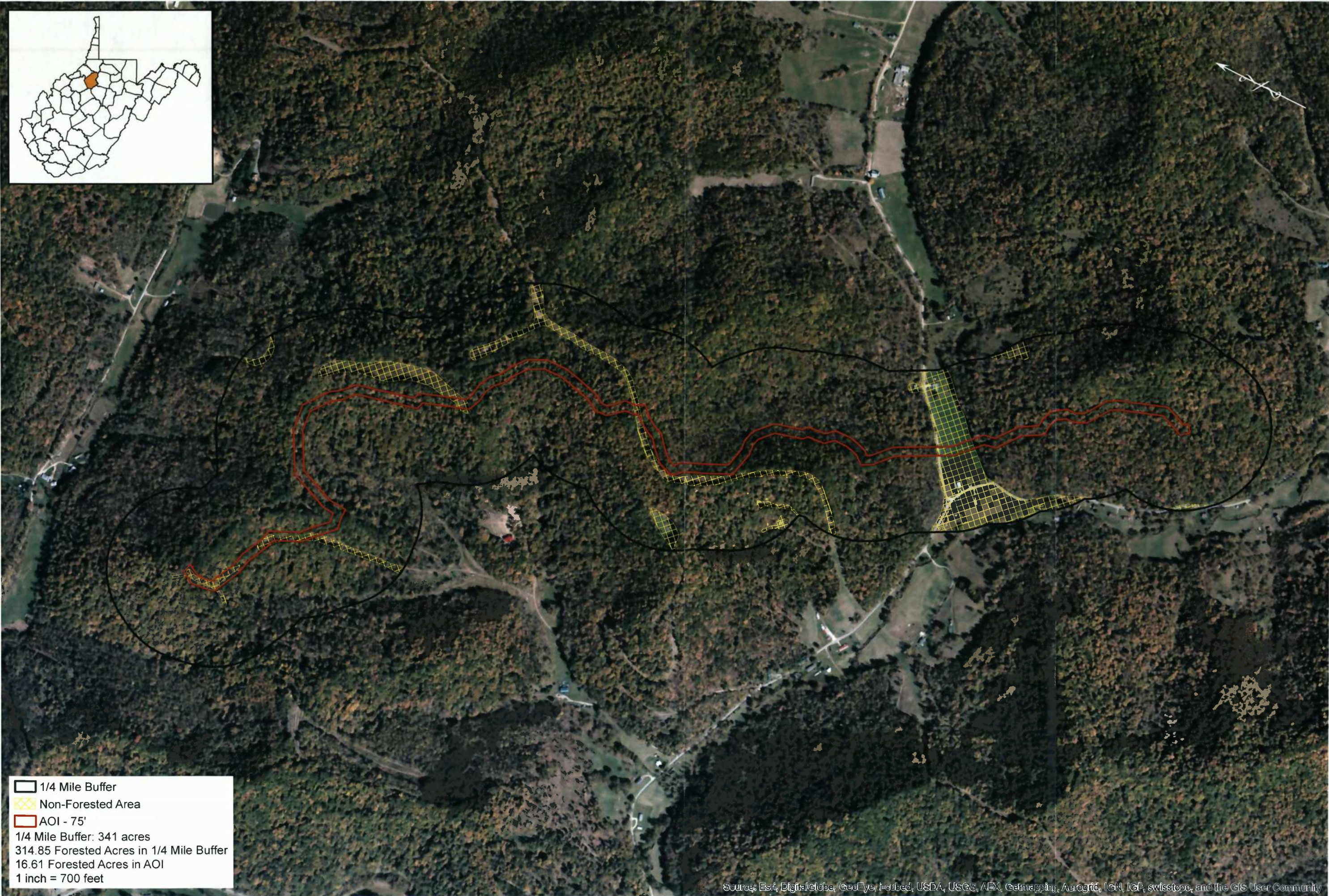
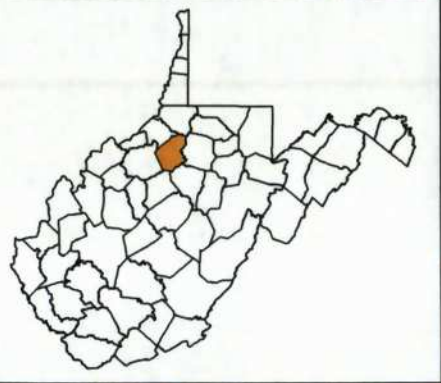
Figure 4: Delineation  
Susie Jane Pipeline  
Doddridge County - West Virginia



- |                   |                    |
|-------------------|--------------------|
| <b>Streams</b>    | ● Culvert Entrance |
| — Ephemeral       | ● Culvert Exit     |
| — Intermittent    | ● OHWM             |
| — Perennial       | ● I/E Point        |
| <b>Wetland</b>    | — Pipeline         |
| ■ PEM             | — Access Road      |
| 1 inch = 200 feet | — Index            |
| Page 3 of 3       | ■ AOI - 75'        |

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

Figure 4: Delineation  
 Susie Jane Pipeline  
 Doddridge County - West Virginia



1/4 Mile Buffer  
Non-Forested Area  
AOI - 75'  
1/4 Mile Buffer: 341 acres  
314.85 Forested Acres in 1/4 Mile Buffer  
16.61 Forested Acres in AOI  
1 inch = 700 feet

By: Imartha

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



Forested Acres  
Susie Jane Pipeline  
Doddridge County - West Virginia

THRASHER

12/23/2013

November 15, 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  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project #101-015-0174**

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 in the Big Isaac, New Milton and Smithburg quadrangles, Doddridge County, WV. The proposed 16" steel Susie Jane pipeline originates at approximately 39.253929 N, 80.632856 W near an existing well pad. From there the pipeline extends 10,220 LF southeast to an existing larger natural gas transmission pipeline located at approximately 39.235903 N, 80.616270 W.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and the 75 foot wide construction right-of-way. The included photograph log displays all aquatic resources within the AOI and typical habitat along the proposed corridor. Also please find a completed stream activity application form.

The Susie Jane pipeline will include three (3) stream crossings. Nine (9) unnamed tributaries (UNT) and Greenbrier Creek have been identified, delineated, and shown on the attached mapping. UNT-1 and Greenbrier Creek cross the proposed pipeline. The remaining streams are located near the construction AOI; however, disturbance to these resources is not anticipated. One (1) wetland is also located near the construction AOI; however, disturbance to this resource is not anticipated. Please see the attached photographs of the streams which were delineated within the project area.

Thrasher understands all material removed during excavation will be side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion.

Mr. Scarberry  
November 15, 2013  
Page 2 of 2

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) 641-3755 or [tdavis@thrashereng.com](mailto:tdavis@thrashereng.com).

Sincerely,

THRASHER GROUP, INC.

A handwritten signature in cursive script that reads "Thomas Davis".

Thomas A. Davis  
Environmental Scientist



**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

Earl Ray Tomblin  
Governor

Frank Jezioro  
Director

November 22, 2013

Division of Natural Resources  
**LICENSE AND RIGHT OF ENTRY**  
**AMENDED JANUARY 10, 2014**

Re: P-13-VI/09-1495

Crestwood Marcellus Midstream LLC,  
Miranda Jones  
c/o The Thrasher Group, Inc.  
Attention: Thomas Davis  
4150 Belden Village Street, Suite 101  
Canton, Ohio 44718-

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 sixteen inch (16") steel gas pipeline (Susie Jane Pipeline) at two (2) separate locations along Greenbrier Creek and an unnamed tributary of Buckeye Creek, District, Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A - C.

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

Crestwood Marcellus Midstream LLC  
P-13-VI/09-1495  
Page 2  
November 22, 2013

- day.
- Only ephemeral/intermittent streams that are dry can be trenched.

**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 \$450.00 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. Scarberry, Supervisor  
Office of Land and Streams

JTS:cb

attachment

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



# THRASHER

January 03, 2014

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

**RE: Crestwood Marcellus Midstream LLC  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project #101-015-0174**

Dear Mr. Scarberry:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), the Thrasher Group, Inc., (Thrasher) is submitting to your office a modification request for a Stream Activity Permit for a proposed natural gas pipeline in the Big Isaac, Salem, and Smithburg quadrangles, Doddridge County, WV. The proposed 16" steel Susie Jane pipeline was previously granted a license and right of entry in the enclosed approval letter, dated November 22, 2013 (P-13-VI/09-1495); since then, alterations to the pipeline's proposed route have necessitated this amendment to the original submission to the WVDNR OLS (see attached Exhibit 2: Reroute Location).

The proposed area of interest (AOI) for the Susie Jane pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 18.54 acres. The proposed 16" steel pipeline originates at approximately 39.254091 N, 80.632970 W near an existing well pad. From there the pipeline extends 10,770 LF southeast to an existing larger natural gas transmission pipeline located at approximately 39.235903 N, 80.616270 W.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route modification and the 75 foot wide construction right-of-way. The included photograph log displays the aquatic resources within the AOI and typical habitat along the proposed corridor. Also please find the completed stream activity application form.

During on-site investigations, ten (10) unnamed tributaries (UNT) and Greenbrier Creek were identified, delineated, and shown on the attached mapping. Of the identified streams, two (2) cross the proposed Susie Jane pipeline. These include ephemeral UNT-10 and perennial Greenbrier Creek. Additionally, one (1) intermittent stream, UNT-7, crosses an existing access road through a culvert (see attached Exhibit 1: Access Road Stream Crossing). The remaining eight (8) streams and one (1) wetland are located near the construction AOI; however, disturbance to these resources is not anticipated. Please see the attached photographs of the aquatic resources which were delineated within and around the project area.

Mr. Scarberry  
January 03, 2014  
Page 2 of 2

Thrasher understands all material removed during excavation will be side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion.

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) 641-3755 or [tdavis@thrashereng.com](mailto:tdavis@thrashereng.com).

Sincerely,

THRASHER GROUP, INC.



Thomas A. Davis  
Environmental Scientist

# THRASHER

November 14, 2013

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

**RE: *WVSHPO Section 106  
Crestwood Marcellus Midstream LLC  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project #101-015-0174***

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 a proposed gathering natural gas pipeline located in the USGS Big Isaac, New Milton and Smithburg 7.5 minute quadrangles, Doddridge County, WV. The proposed Susie Jane pipeline area of interest (AOI) consists of a 75' construction right-of-way (ROW) containing approximately 17.72 total acres. The proposed 16" steel pipeline originates at approximately 39.253929 N, 80.632856 W near an existing well pad. From there the pipeline traverses approximately 10216.65 LF southeast to a larger natural gas transmission pipeline located at approximately 39.235903, 80.616270 W.

The USGS topographical map and aerial imagery map contained herein depict the proposed AOI. The streams within the proposed AOI have been identified and delineated by Thrasher staff. Two (2) streams, an intermittent unnamed tributary (UNT) UNT-1 and perennial Greenbrier Creek directly cross the proposed pipeline. Additionally, one (1) intermittent stream UNT-7 crosses an existing access road through a culvert. Additionally, seven (7) UNTs were delineated near the construction AOI; however, disturbance to these resources is not anticipated. Two (2) wetlands are located near the construction AOI; however, disturbance to these resources is not anticipated. The attached delineation mapping depicts the findings within the proposed AOI during the delineation.

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

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 (304) 641-3755 or [tdavis@thrashereng.com](mailto:tdavis@thrashereng.com).

# THRASHER

Ms. Pierce  
November 14, 2013  
Page 2 of 2

Sincerely,

THE THRASHER GROUP, INC.

*Thomas A Davis*

Thomas A. Davis  
Environmental Scientist

# THRASHER

January 06, 2013

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

**RE: *WVSHPO Section 106  
Crestwood Marcellus Midstream LLC  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project #101-015-0174  
FR#: 14-183-DO***

Dear Ms. Pierce:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), the Thrasher Group, Inc. (Thrasher), is submitting to your office a modification package for the previously submitted Susie Jane Pipeline. The pipeline's originally proposed route has since then been modified, meriting the submittal of this second review request. Please see the attached maps depicting the modified pipeline route.

The original submission resulted in the State Historic Preservation Office requesting a Phase I Archaeological survey for the entire floodplain area that the proposed AOI crosses including the proposed access road. The modified pipeline route will still cross at this location; therefore, the Phase I survey is still necessary. Thrasher has contracted Horizon Research Consultants to conduct this requested survey.

The modified area of interest (AOI) for the Susie Jane pipeline consists of a 75' construction right-of-way (ROW) containing approximately 18.54 total acres. The proposed 16" steel pipeline originates at approximately 39.254091 N, 80.632970 W near an existing well pad. From there the pipeline traverses approximately 10,770 LF southeast to a larger natural gas pipeline located at approximately 39.235903, 80.616270 W.

The USGS topographical map and aerial imagery map contained herein depict the modifications to the proposed AOI. Thrasher staff identified and delineated aquatic resources in and around the proposed AOI. Two (2) streams, an ephemeral unnamed tributary (UNT) UNT-10, and a perennial stream, Greenbrier Creek, directly cross the proposed pipeline. Additionally, one (1) intermittent stream, UNT-7, crosses an existing access road through a culvert. Another eight (8) UNTs and one (1) wetland are near the construction AOI; however, disturbance to these resources is not anticipated. The attached delineation mapping and Exhibit 1: Access Road Stream Crossing depicts all findings within the modified AOI.

Ms. Pierce  
January 06, 2013  
Page 2 of 2

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

Thrasher understands all material removed during excavation will be side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion.

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 (304) 641-3755 or [tdavis@thrashereng.com](mailto:tdavis@thrashereng.com).

Sincerely,

THE THRASHER GROUP, INC.



Thomas A. Davis  
Environmental Scientist

November 15, 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***  
***Crestwood Marcellus Midstream LLC***  
***Susie Jane Pipeline, Doddridge County, West Virginia***  
***Thrasher Project #101-015-0174***

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 Big Isaac, New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV. The proposed Susie Jane pipeline area of interest (AOI) consists of a 75' construction right-of-way (ROW) and contains approximately 17.72 acres. The proposed 16" steel pipeline originates at approximately 39.253929 N, 80.632856 W located at an existing well pad. From there the pipeline traverses 10,220 LF southeast to an existing natural gas transmission pipeline located at approximately 39.235903 N, 80.616270 W.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and the proposed 75' construction ROW. The streams within the proposed AOI have been identified and delineated by Thrasher staff. Two (2) streams, an intermittent unnamed tributary (UNT) UNT-1 and perennial Greenbrier Creek directly cross with the proposed pipeline AOI. Additionally, one (1) intermittent stream UNT-7 crosses a proposed access road in conjunction with pipeline project. Additionally, seven (7) UNTs were delineated near the construction AOI; however, disturbance to these resources is not anticipated. One (1) wetland is located near the construction AOI; however, disturbance to this resource is not anticipated. The attached delineation mapping depicts the findings within the proposed AOI during the delineation.

Of the 17.72 acres contained within the AOI, 16.65 acres are forested and timbering activities are expected to occur. Timber removal shall not exceed 17 acres.

Thrasher understands all material removed during excavation will be side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion.

Ms. Sargent  
November 15, 2013  
Page 2 of 2

If any further documentation or permitting is required for this project, or if any questions may arise please feel free to contact me at (304) 641-3755 or [tdavis@thrashereng.com](mailto:tdavis@thrashereng.com).

Sincerely,

THRASHER GROUP, INC.

A handwritten signature in cursive script that reads "Thomas Davis".

Thomas A. Davis  
Environmental Scientist





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

**Earl Ray Tomblin**  
*Governor*

**Frank Jezioro**  
*Director*

November 20, 2013

Mr. Thomas A. Davis  
Thrasher Group, Inc.  
4150 Belden Village, Suite 101  
Canton, OH 44718

Dear Mr. Davis:

We have reviewed our files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Susie Jane Pipeline project in Doddridge County, WV (Project #101-015-0174).

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,

A handwritten signature in black ink, appearing to read "Barbara Sargent", is written over the typed name.

Barbara Sargent  
Environmental Resources Specialist  
Wildlife Diversity Unit

enclosure

S:\Monthly\Barb\Invoices\Thrasher2.doc

NO.214-340

**INVOICE**

***West Virginia Division of Natural Resources***

Wildlife Resources Section, P.O. Box 67, Elkins, WV 26241

Attention: Ms. Patty Fordyce

**In Account With:** Thrasher Group, Inc.  
4150 Belden Village, Suite 101  
Canton, OH 44718

**Date:** November 20, 2013

**Attention:** Mr. Thomas A. Davis

---

For the retrieval and compilation of information on rare, threatened and endangered species and sensitive habitats for the area of the proposed Susie Jane Pipeline project in Doddridge County, WV (Project #101-015-0174).

**AMOUNT DUE: \$75.00**

**Make check payable to WV Division of Natural Resources. Please reference the invoice number on your check. Mail to the above address and to the attention of Ms. Fordyce.**

# THRASHER

November 14, 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  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project #101-015-0174***

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 Big Isaac, New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV. The proposed area of interest (AOI) for the Susie Jane pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 17.72 acres. The proposed 16" steel pipeline originates at approximately 39.253929 N, 80.632856 W near an existing well pad. From there the pipeline extends 10,216 LF southeast to an existing larger natural gas transmission pipeline located at approximately 39.235903 N, 80.616270 W.

The streams within the proposed AOI have been identified and delineated by Thrasher staff. Two (2) streams, an intermittent unnamed tributary (UNT) UNT-1 and perennial Greenbrier Creek cross the pipeline. Additionally, one (1) intermittent stream UNT-7 crosses an existing access road through a culvert. Another seven (7) UNTs are near the construction AOI; however, disturbance to these resources is not anticipated. Additionally, two (2) wetlands are near the construction AOI; however, disturbance to these resources is not anticipated. The attached delineation mapping depicts all findings within the proposed AOI.

Of the 17.72 acres contained within the AOI, 16.65 acres are forested and timbering activities are expected to occur. Timber felling shall not exceed 17 acres.

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) 641-3755 or [tdavis@thrashereng.com](mailto:tdavis@thrashereng.com)

# THRASHER

USFWS  
November 14, 2013  
Page 2 of 2

Sincerely,

THE THRASHER GROUP, INC.

*Thomas A. Davis*

Thomas A. Davis  
Environmental Scientist

# THRASHER

November 15, 2013

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

RECEIVED  
NOV 18 2013  
WVFO

**RE: Project Review Request  
Crestwood Marcellus Midstream LLC  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project #101-015-0174**

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 Big Isaac, New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV. The proposed area of interest (AOI) for the Susie Jane pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 17.72 acres. The proposed 16" steel pipeline originates at approximately 39.253929 N, 80.632856 W near an existing well pad. From there the pipeline extends approximately 10,220 LF southeast to an existing larger natural gas transmission pipeline located at approximately 39.235903 N, 80.616270 W.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and the 75 foot wide ROW. The included photograph log displays all aquatic resources within the AOI and typical habitat along the proposed corridor. No specific Indiana



## United States Department of the Interior

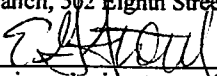
### FISH AND WILDLIFE SERVICE




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.

  
Reviewer's signature and date

11/21/2013

  
Field Supervisor's signature and date

11/21/13

# THRASHER

January 03, 2014

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

**RE: *Project Review Request  
Crestwood Marcellus Midstream LLC  
Susie Jane Pipeline, Doddridge County, West Virginia  
Thrasher Project #101-015-0174***

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 modifications to a proposed pipeline project in the USGS Big Isaac, Salem, and Smithburg 7.5 minute quadrangles of Doddridge County, WV. The proposed Susie Jane pipeline previously received the enclosed "no effect" determination from the USFWS, dated November 21, 2013; the pipeline's originally proposed route has since been modified, meriting additional review.

The proposed area of interest (AOI) for the Susie Jane pipeline consists of a 75' construction right-of-way (ROW) and contains approximately 18.54 acres. The proposed 16" steel pipeline originates at approximately 39.254091 N, 80.632970 W near an existing well pad. From there the pipeline extends approximately 10,770 LF southeast to an existing larger natural gas transmission pipeline located at approximately 39.235903 N, 80.616270 W. Please see the attached Exhibit 2: Reroute Location for the location of the new pipeline route.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route modification and the 75 foot wide ROW. The included photograph log displays the aquatic resources identified within the AOI and typical habitat along the proposed corridor. No specific Indiana bat habitat was discovered within the proposed AOI during on-site investigations. Investigations included the documentation of possible portals or caves, tree habitat featuring exfoliating bark, and possible fly corridors.

Streams and wetlands within and around the proposed AOI were identified and delineated by Thrasher staff. Of the identified aquatic resources, two (2) streams, an ephemeral unnamed tributary (UNT) UNT-10 and perennial Greenbrier Creek, cross the proposed pipeline. Additionally, one (1) intermittent stream, UNT-7, crosses an existing access road through a culvert. An additional eight (8) UNTs and one (1) wetland are located near the construction AOI; however, disturbance to these resources is not anticipated. The attached delineation mapping and Exhibit 1: Access Road Stream Crossing depicts all findings within the proposed AOI.

USFWS  
January 03, 2014  
Page 2 of 2

Of the 18.54 acres contained within the AOI, 16.61 acres are forested and timbering activities are expected to occur. Timber felling shall not exceed 17 acres.

Thrasher understands all material removed during excavation will be side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion.

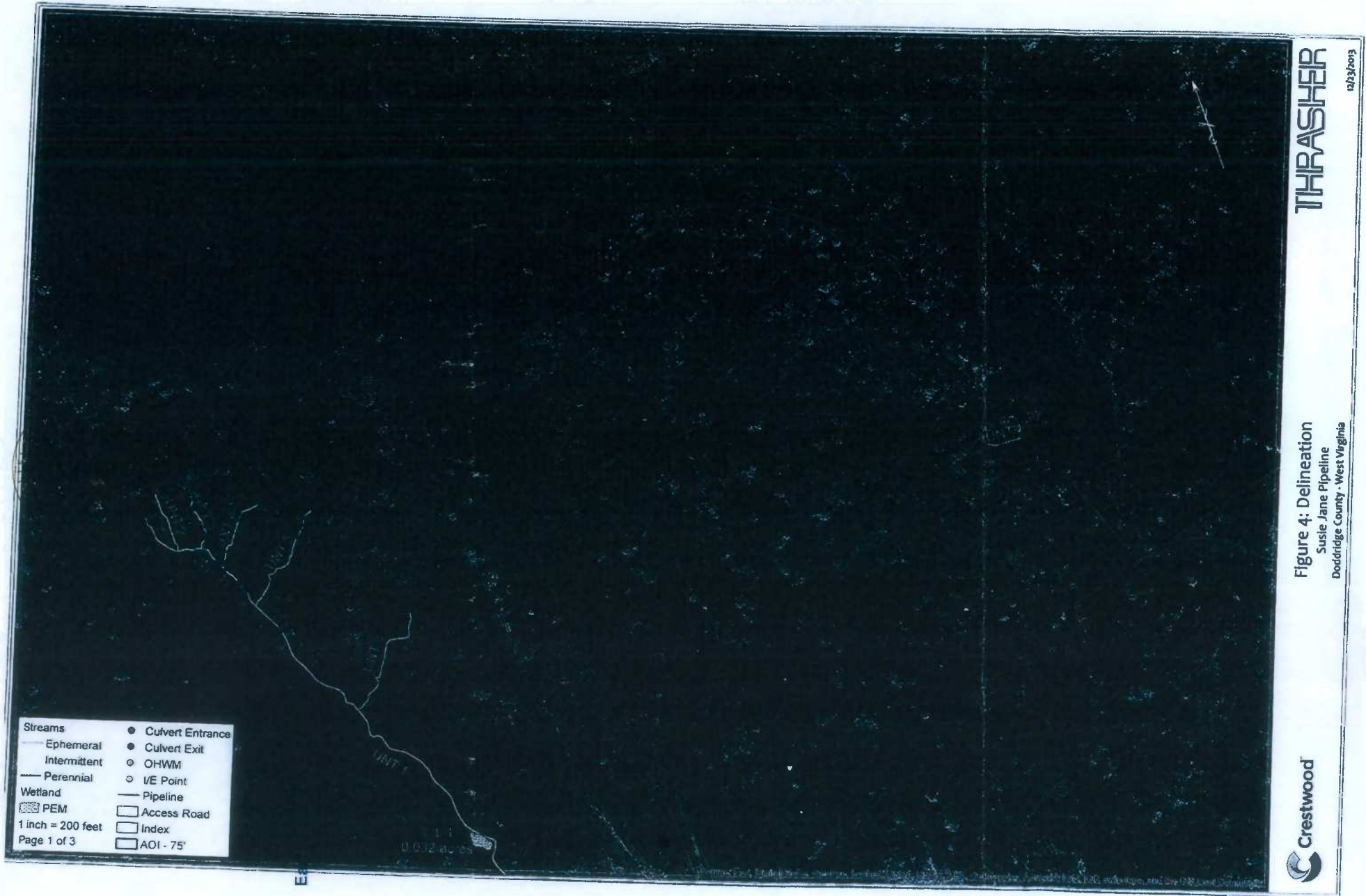
If any question or concerns should arise please feel free to contact me at (304) 641-3755 or [tdavis@thrashereng.com](mailto:tdavis@thrashereng.com).

Sincerely,

THE THRASHER GROUP, INC.



Thomas A. Davis  
Environmental Scientist

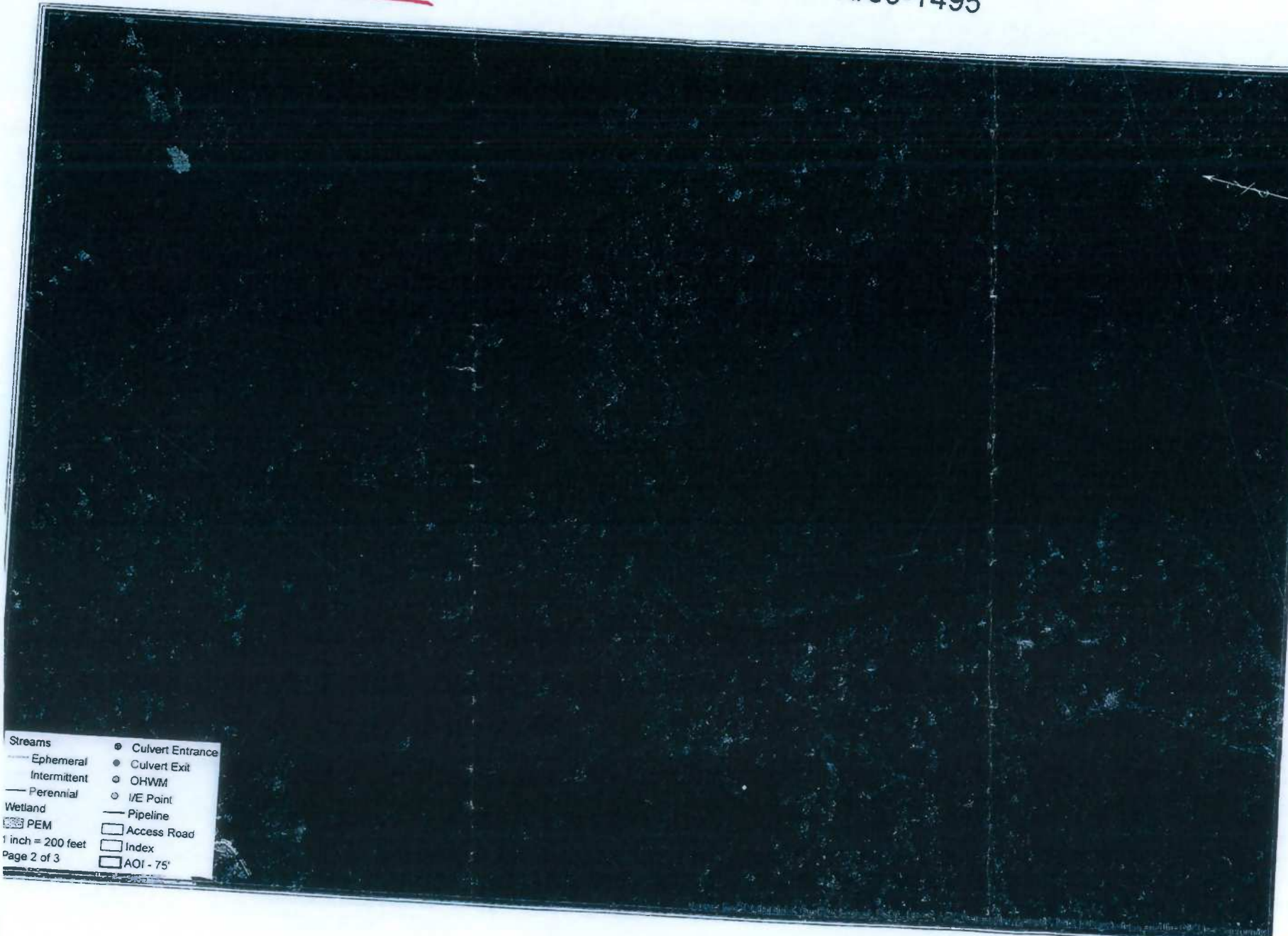


THRASHER  
12/23/2013

Figure 4: Delineation  
Susie Jane Pipeline  
Doddridge County - West Virginia







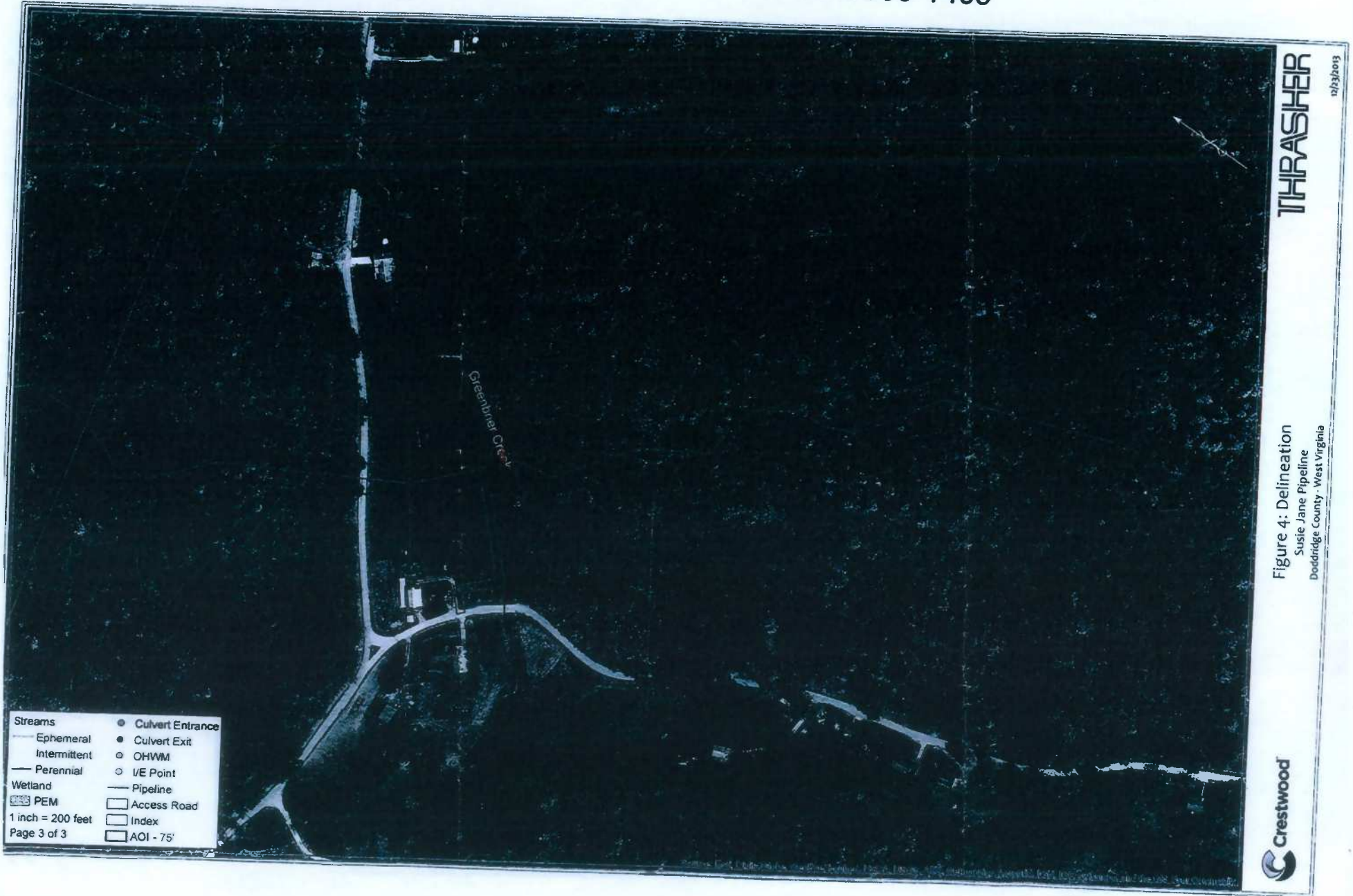
- |                   |                    |
|-------------------|--------------------|
| Streams           | ● Culvert Entrance |
| — Ephemeral       | ● Culvert Exit     |
| — Intermittent    | ○ OHWM             |
| — Perennial       | ○ I/E Point        |
| Wetland           | — Pipeline         |
| PEM               | □ Access Road      |
| 1 inch = 200 feet | □ Index            |
| Page 2 of 3       | □ AOI - 75'        |

THRASHER

12/28/03

Figure 4: Delineation  
Susie Jane Pipeline  
Doddridge County - West Virginia





- |                   |                    |
|-------------------|--------------------|
| <b>Streams</b>    | ● Culvert Entrance |
| — Ephemeral       | ● Culvert Exit     |
| — Intermittent    | ○ OHWM             |
| — Perennial       | ○ VE Point         |
| <b>Wetland</b>    | — Pipeline         |
| PEM               | □ Access Road      |
| 1 inch = 200 feet | □ Index            |
| Page 3 of 3       | □ AOI - 75'        |

THRASHER  
mjb3/09/03

Figure 4: Delineation  
Susie Jane Pipeline  
Doddridge County - West Virginia



# West Virginia Division of Natural Resources

## Invoice

Pay on-line at <http://wvdnr.gov/REM>

Invoice#: 20413

Comp. ID#: 5295

Bill Date: 12/02/2013

In  
Acct  
With

Crestwood Marcellus Midstream LLC  
801 Cherry Street  
Suite 3400, Unit 20  
Forth Worth, TX 76102

<u>AGREEMENT</u>	<u>INVOICE PERIOD</u>	<u>AMOUNT PAID</u>	<u>AMOUNT DUE</u>
<u>AGREEMENT DATED 11/22/2013 P-13-VI/09-1495</u> Two (2) locations a sixteen inch (16") steel gas pipeline (Susie Jane Pipeline) Greenbrier Creek and unnamed tributary of Buckeye Creek, Doddridge Co., WV, amended 01-10-14	For 11/22/2013 to 11/22/2023 Land and Streams/DNR	\$450.00	\$0.00
<b>TOTAL INVOICE:</b>			<b>\$0.00</b>
<b>NUMBER OF AGREEMENTS:</b>			<b>1</b>

Please Reference Either Invoice Number or Agreement Re: on Payment

WV Division of Natural Resources  
Office of Land & Streams  
324 Fourth Avenue, Room 200  
South Charleston, WV 25303

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT

Nadine Hamilton (304) 558-3225  
[nadine.r.hamilton@wv.gov](mailto:nadine.r.hamilton@wv.gov)

TRANSACTION REPORT

P. 01

APR-24-2014 THU 10:11 AM

FOR: DODDRIDGE CO. CLERK

304 873 1840

SEND

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
APR-24	10:11 AM	3046247831	48"	5	FAX TX	OK	983	
TOTAL :						48S	PAGES:	5



DODDRIDGE COUNTY COMMISSION

BETH A. ROGERS, Clerk  
Room 102  
118 East Court Street  
West Union, WV 26456-1297  
Phone (304) 873-2631

Deputies:  
Beth A. Kellar  
Jannifer L. Moore  
Pauletta McKinney

FAX COVER SHEET

4-24-14

DATE

TO: Ryan Boustany

Thrasher

FROM: Patie Floodplan MGT Asst

SENDER'S DIRECT PHONE NUMBER: (304) 873-2631

RE:

COMMENTS:

Number of pages (including this page):

4



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**F A X C O V E R S H E E T**

4-24-14

DATE

TO: Ryan Boustany

Thrasher

FROM: Catie Floodplain MGT Asst

SENDER'S DIRECT PHONE NUMBER: (304) 873-2631

RE: \_\_\_\_\_

*Thrasher  
Fax 304-*

*624-7831*

COMMENTS: \_\_\_\_\_

*Ryan Boustany*

Number of pages (including this page): \_\_\_\_\_

4

STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

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

*Floodplain Permit*  
*Susie Jane Pipeline*  
*# 14-116*

was published in said paper for *2*  
successive weeks beginning with the issue  
of *February 18<sup>th</sup>* 2014 and  
ending with the issue of

*February 25<sup>th</sup>* 2014 and  
that said notice contains *189*  
WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.73*

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

\$ *16.29*  
and each publication thereafter

\$ *3802* TOTAL

EDITOR  
*Virginia Nicholson*

SWORN TO AND SUBSCRIBED  
BEFORE ME THIS THE *26<sup>th</sup>* DAY  
OF *February* 2014

NOTARY PUBLIC  
*Laura J Adams*

Legal Advertisement

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 13th day of February  
2014 CRESTWOOD/MARCELLUS MIDSTREAM  
SUSIE JANE PIPELINE #14-116 filed an application for  
a Floodplain Permit to develop land located at or about:  
SURFACE OWNERS: MICHAEL & MICHELLE  
DEVINNEY GREENBRIER DISTRICT, D/B: 270/264  
T/M: 4-7-11  
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 February  
23, 2014.  
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

