

DODDRIDGE COUNTY  
FLOODPLAIN APPLICATION PERMIT FEES

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

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

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

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

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

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

LOCATION PERMIT FEES

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

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# THRASHER

December 11, 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  
Stark Compressor Station, Doddridge County, West Virginia  
Thrasher Group Project # 101-015-0192***

Mr. Wellings:

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

Crestwood plans to construct a compressor station which will be used to provide dehydration, separation, and compression of raw natural gas from producing gas wells in this area to market.

The proposed center of the Stark Compressor Station is located at the coordinates, N 39.205285 / W 80.615810. The proposed access road entrance will be constructed off of SLS 44, at the coordinates, N 39.212073 / W 80.617221. Both the proposed Stark Compressor Station and access road are located completely outside of the 100-year flood elevation area.

The USGS topographical map, aerial imagery map, FIRM map, and WV Flood Tool Map contained herein depict the proposed limits of disturbance associated with the proposed construction. Additionally, please see attached permit application, and permit fee worksheet, as well as copies of all required federal and state permit applications. No construction is proposed in the flood plain so there are no fees associated with this permit. Permit approvals will be sent in once they are received.

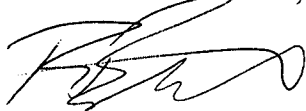
# THRASHER

Mr. Wellings  
December 11, 2013  
Page 2 of 2

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

Sincerely,

THRASHER GROUP, INC.



Ryan S. Boustany  
Staff Engineer

Enclosures

R:\015-0192 Crestwood - Stark Compressor Station\Documents\Permitting\Environmental\Correspondence\DCLIP\Cover Letter

#13-106

**Crestwood Marcellus  
Midstream LLC**

**FILED**  
2013 DEC 13 PM 3:09  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

**Stark Compressor Station**

**THRASHER GROUP, INC. PROJECT # 101-015-0192**

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



December 2013

#13-106

Crestwood Marcellus Mid,  
Stark Compressor Station

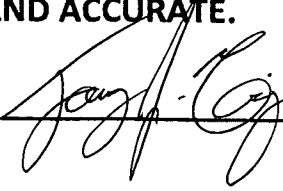
# DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

## 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.**

**FILED**  
 2013 DEC 13 PM 3:09  
 BETH A. ROGERS  
 COUNTY CLERK  
 DODDRIDGE COUNTY, TX

APPLICANT'S SIGNATURE

 12/11/13 Thomas Marion J. - Agent  
 DATE 12/11/13

## 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 St., Suite 3800 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 Blvd., Bridgeport, WV 26330  
**TELEPHONE NUMBER:** (304) 624-4108

**PROJECT LOCATION:**

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

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

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

**DATE/FROM WHOM PROPERTY**

**PURCHASED:** \_\_\_\_\_ Please see attached table

**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 checked="" type="checkbox"/> New Structure | <input type="checkbox"/> Residential (1 – 4 Family)                 |
| <input type="checkbox"/> Addition                 | <input type="checkbox"/> Residential (more than 4 Family)           |
| <input type="checkbox"/> Alteration               | <input checked="" 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 \$ 2,500,000**

**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.

- (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>255</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 Wellington

DATE 12/16/2003

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

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**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.**

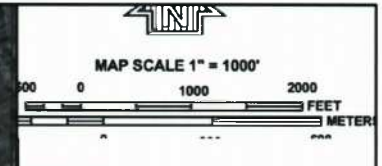
**COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE  
FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF  
DODDRIDGE COUNTY ON MAY 21, 2013.**

**SIGNED** \_\_\_\_\_ **DATE** \_\_\_\_\_

DIST NAME	DIST	MAP	PAR	SUB	OWNER	ADDRESS	CITY, ST ZIP	LOC	BOOK	PAGE	LEGAL DESC
GREENBRIER	4	9	1		LEHMANN CAROLYN R TRUST %KRISTIN LOEL REXROAD BIKOS	PO BOX 418	BABB, MT 59411	RT 46	250	26	DOUBLE CAMP & STANDING STONE 240 AC
GREENBRIER	4	14	6		LEHMANN CAROLYN R TRUST %KRISTIN LOEL REXROAD BIKOS	PO BOX 418	BABB, MT 59411	SALEM RD 0 RT 25/11	250	26	DOUBLE CAMP 7 AC 80 PO 9 AC 80 PO
GREENBRIER	4	14	6	1	LEHMANN CAROLYN R TRUST %KRISTIN LOEL REXROAD BIKOS	PO BOX 418	BABB, MT 59411	RT 25	250	26	8 AC INDIAN FK
GREENBRIER	4	14	7		LEHMANN CAROLYN R TRUST %KRISTIN LOEL REXROAD BIKOS	PO BOX 418	BABB, MT 59411	SALEM RD. 3 RT. 25	250	26	DOUBLE CAMP .42 AC
GREENBRIER	4	10	19	1	BREWER RICHARD DAVID & PATRICIA JEAN (SURV)	145 LEE WAY	CHESTER, WV 26034	OFF RT. 25/11	243	635	DOUBLE CAMP 54 AC
GREENBRIER	4	10	10		WITHROW JERRY L	1013 ELM DR	HURRICANE, WV 25526	SALEM RD 3 RT.46/2	220	652	INDIAN FORK 100.21 AC 1/2 OF 14/90 INT
GREENBRIER	4	11	5		HUGHES ROBERT B & EVELYN M	PO BOX 183	MILLWOOD, WV 25262		253	633	INDIAN FORK 25 AC 5/90 INT
GREENBRIER	4	7	40		CAMPBELL RICHARD & DONNA RUTH	RT 1 BOX 362	SALEM, WV 26426	RT 46\2	172	546	INDIAN FORK 13.25 AC
GREENBRIER	4	7	41		CAMPBELL RICHARD L & DONNA R (SURV)	ROUTE 1 BOX 362	LEM, WV 26426	RT 46/2	222	634	INDIAN FORK 15.59 AC
GREENBRIER	4	10	20	1	CUTLIP THERESA J	2771 ST RT 14 APT C	ROOTSTOWN, OH 44272		279	351	JOHNSON FORK 33.04 AC
GREENBRIER	4	8	28		DAVIS JOHN K	ROUTE 3 BOX 15	SALEM, WV 26426	SALME RD 3 RT # 48	177	722	ISAAC CAMP INT O&G 67.691 AC
GREENBRIER	4	8	27		DAVIS JOHN K	ROUTE 3 BOX 15	SALEM, WV 26426	RT 48/3	177	714	ISAAC CAMP 32 AC
GREENBRIER	4	8	32	1	DAVIS JOHN K	ROUTE 3 BOX 15	SALEM, WV 26426	RT 48/3	177	714	50.17 AC BUCKEYE
GREENBRIER	4	11	1		DAVIS JOHN K	ROUTE 3 BOX 15	SALEM, WV 26426	RT 48	177	719	ISAAC CAMP 89.75 AC
GREENBRIER	4	8	25	3	DAVIS JOHN K & MARY JO (SURV)	RT 3 BOX 15	SALEM, WV 26426	RT 48/3	200	338	WOLFE PEN 57.2 AC

GREENBRIER	4	10	26		FIDLER FRANKLIN KIRBY	106 W LAKESHORE DR	CARROLLTON, GA 30117	RT 25/11	203	473	JOHNSON FORK 134 AC
GREENBRIER	4	7	33		AURENTZ WM DAVID & JUDY LEE SURV	P O BOX 116	SCARBORO, WV 25917	SALEM RD 3, RT 46\2	201	370	INDIAN FORK 64 AC 1/2 INT
GREENBRIER	4	10	20		HESTON CHARLES F & MARY (SURV)	21 ARCTURUS DR	SEWELL, NJ 8080		266	186	JOHNSON FORK 40 AC
GREENBRIER	4	10	9	1	KIRK KENNETH A & JAMES F	RT 1 BOX 359	SALEM, WV 26426		267	652	INDIAN FORK 21 AC
GREENBRIER	4	9	1		LEHMANN CAROLYN R TRUST %KRISTIN LOEL REXROAD BIKOS	PO BOX 418	BABB, MT 59411	RT 46	250	26	DOUBLE CAMP & STANDING STONE 240 AC
GREENBRIER	4	14	6		LEHMANN CAROLYN R TRUST %KRISTIN LOEL REXROAD BIKOS	PO BOX 418	BABB, MT 59411	SALEM RD 0 RT 25/11	250	26	DOUBLE CAMP 7 AC 80 PO 9 AC 80 PO
GREENBRIER	4	10	13		MARTINI CRYSTAL L & JOHN W BAST (SURV)	RT 1 BOX 366	SALEM, WV 26426		294	682	INDIAN FORK 75.52 AC
GREENBRIER	4	10	20	2	MESSINA MICHAEL D & JASON K HUTZEL (SURV)	104 GABRIEL CT	SMITHSBURG, MD 21783		272	234	41.91 AC JOHNSONS FORK
GREENBRIER	4	10	28		SIDWELL MARK W & SANDRA S (SURV)	RT 2 BOX 272	MEADOWBROOK, WV 26404	RT 44	245	399	JOHNSON FORK 27.11 AC
GREENBRIER	4	10	28	1	SIDWELL MARK W & SANDRA S (SURV)	RT 2 BOX 272	MEADOWBROOK, WV 26404	RT 44	245	399	JOHNSON FK 16.2 AC





**NATIONAL FLOOD INSURANCE PROGRAM**  
**NFIP**

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	SUBSIS
DODDRIDGE COUNTY	54017	255C	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.

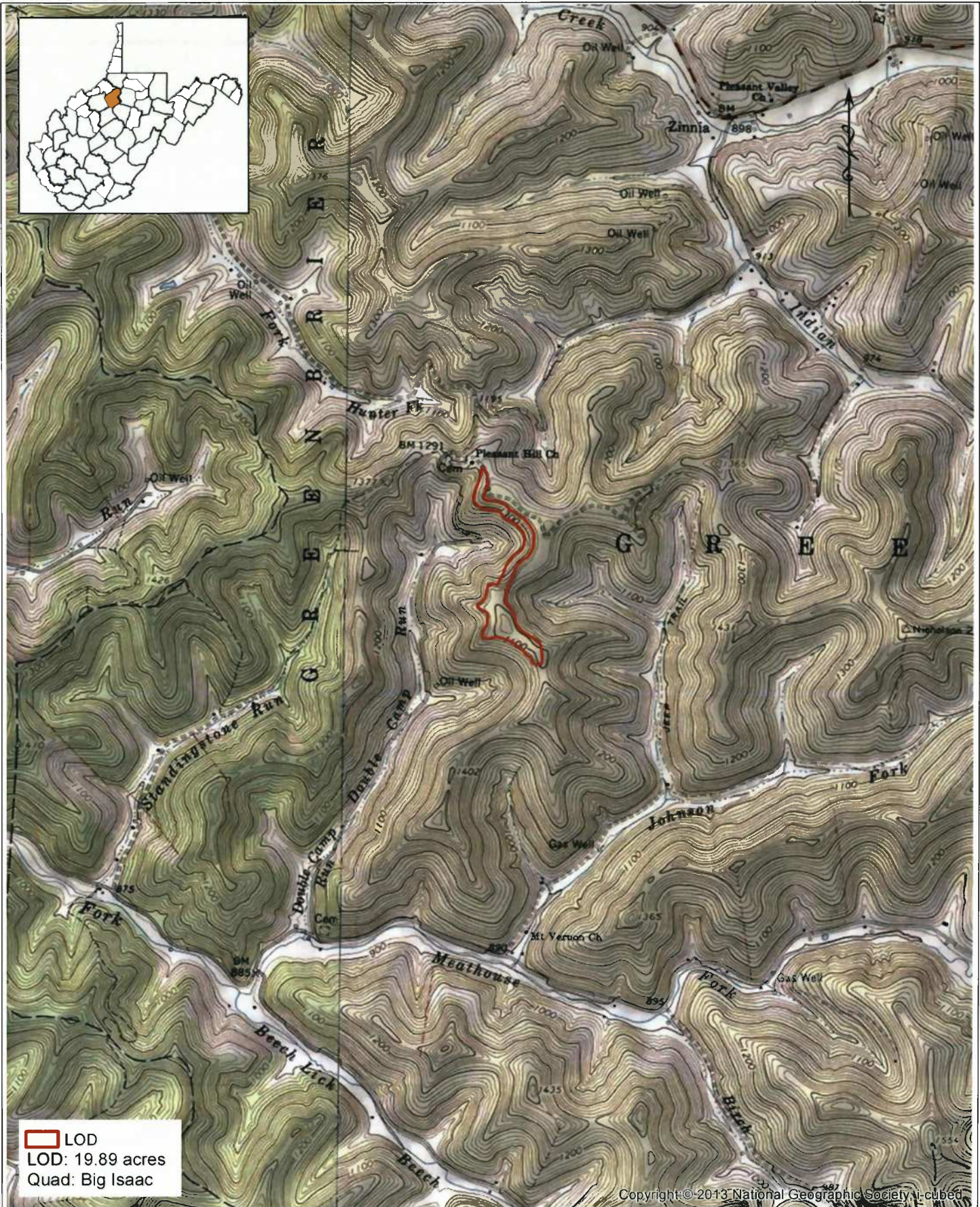
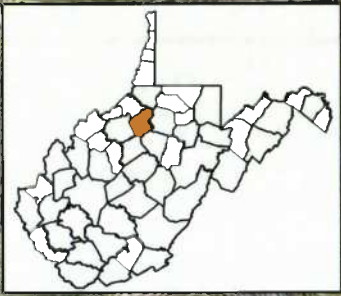



**MAP NUMBER**  
54017C0255C

**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 FIRM Online. This map does not reflect changes or amendments which may have been made subsequent to the data 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)



 LOD  
 LOD: 19.89 acres  
 Quad: Big Isaac

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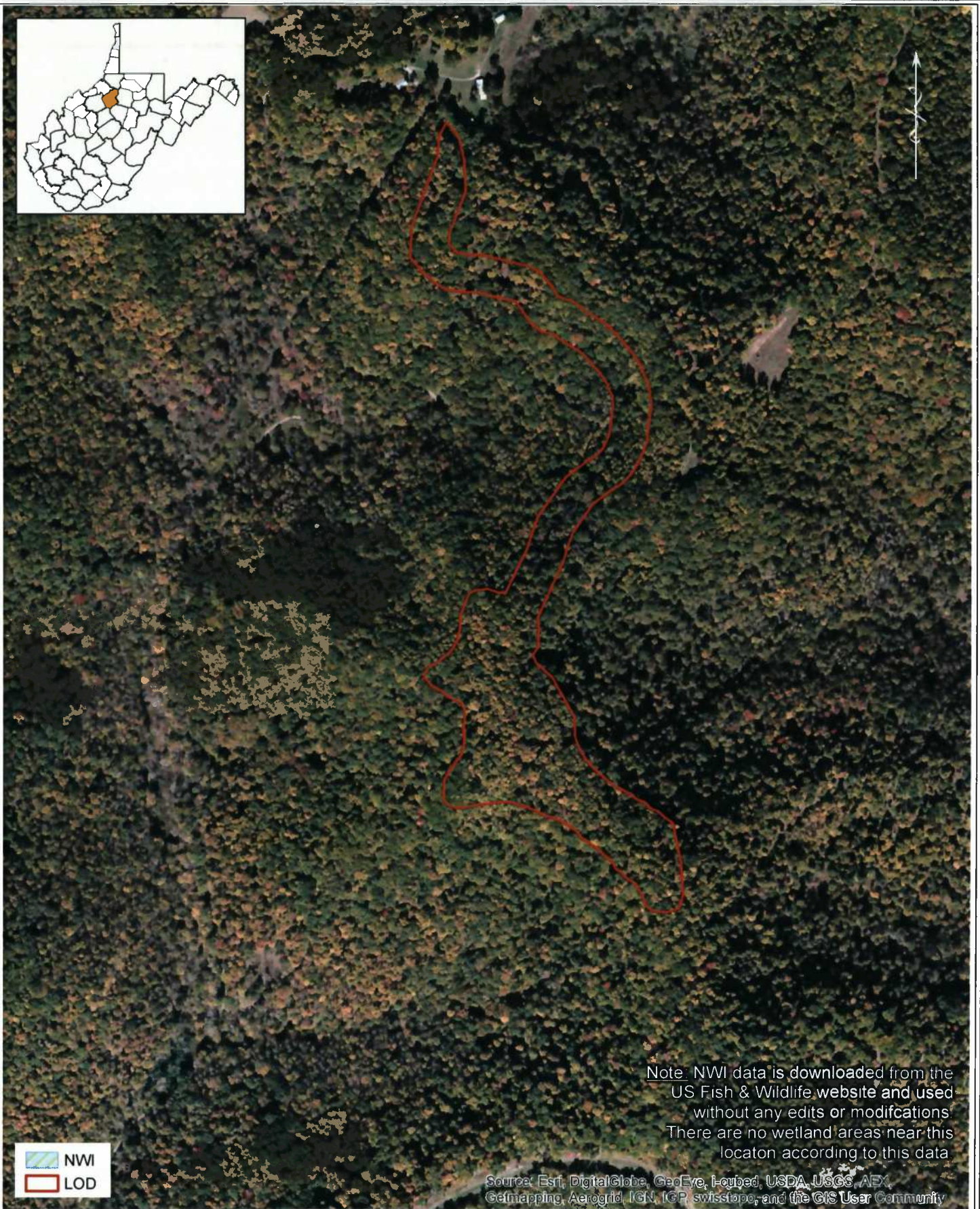
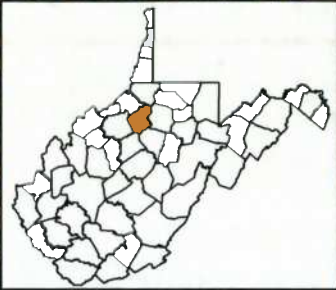
Figure 1: Site Location  
 Stark Compressor Station  
 Doddridge County - West Virginia



1 inch = 2,000 feet

12/3/2013

By: Imartin



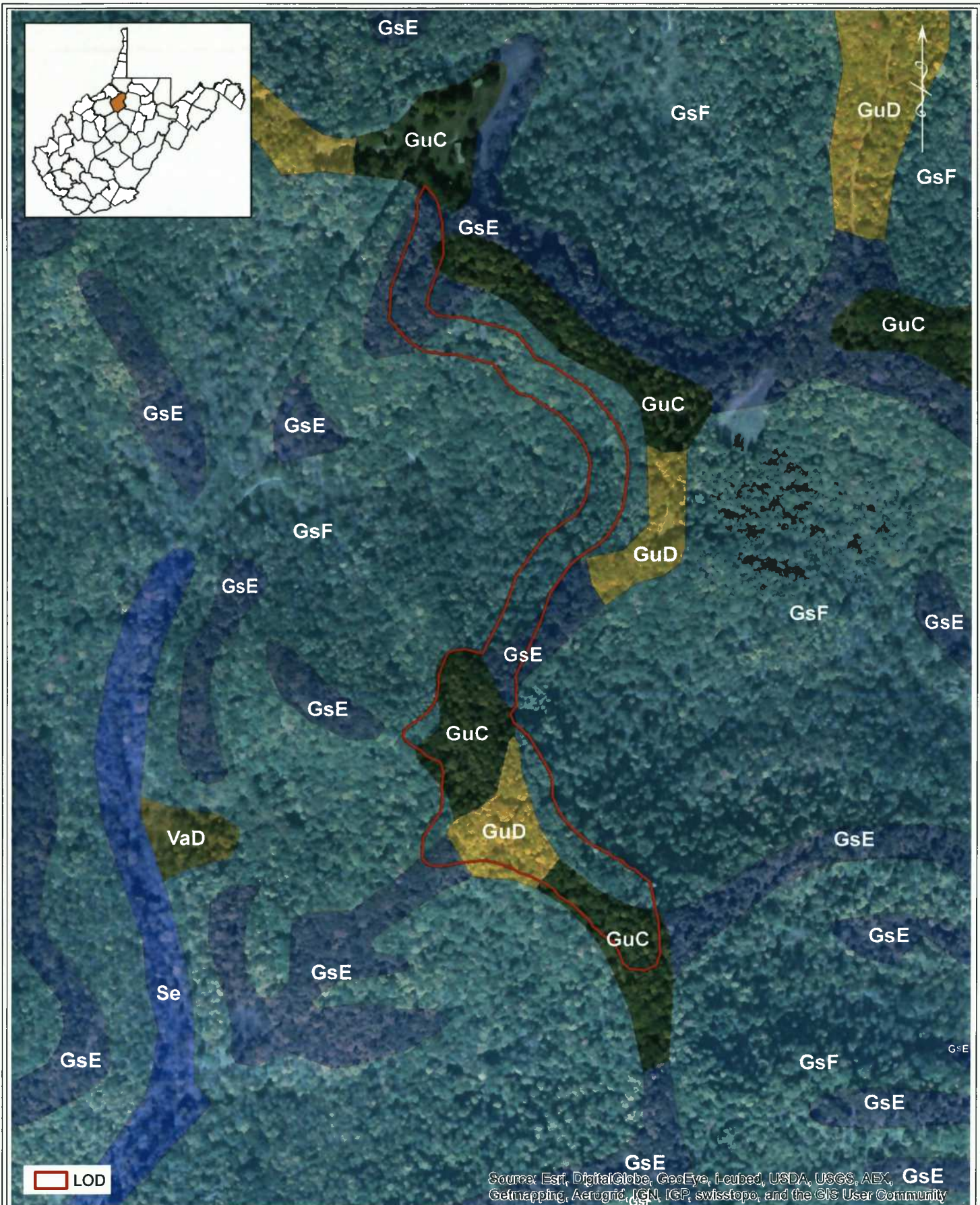
Note: NWI data is downloaded from the US Fish & Wildlife website and used without any edits or modifications. There are no wetland areas near this location according to this data.

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



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





LOD



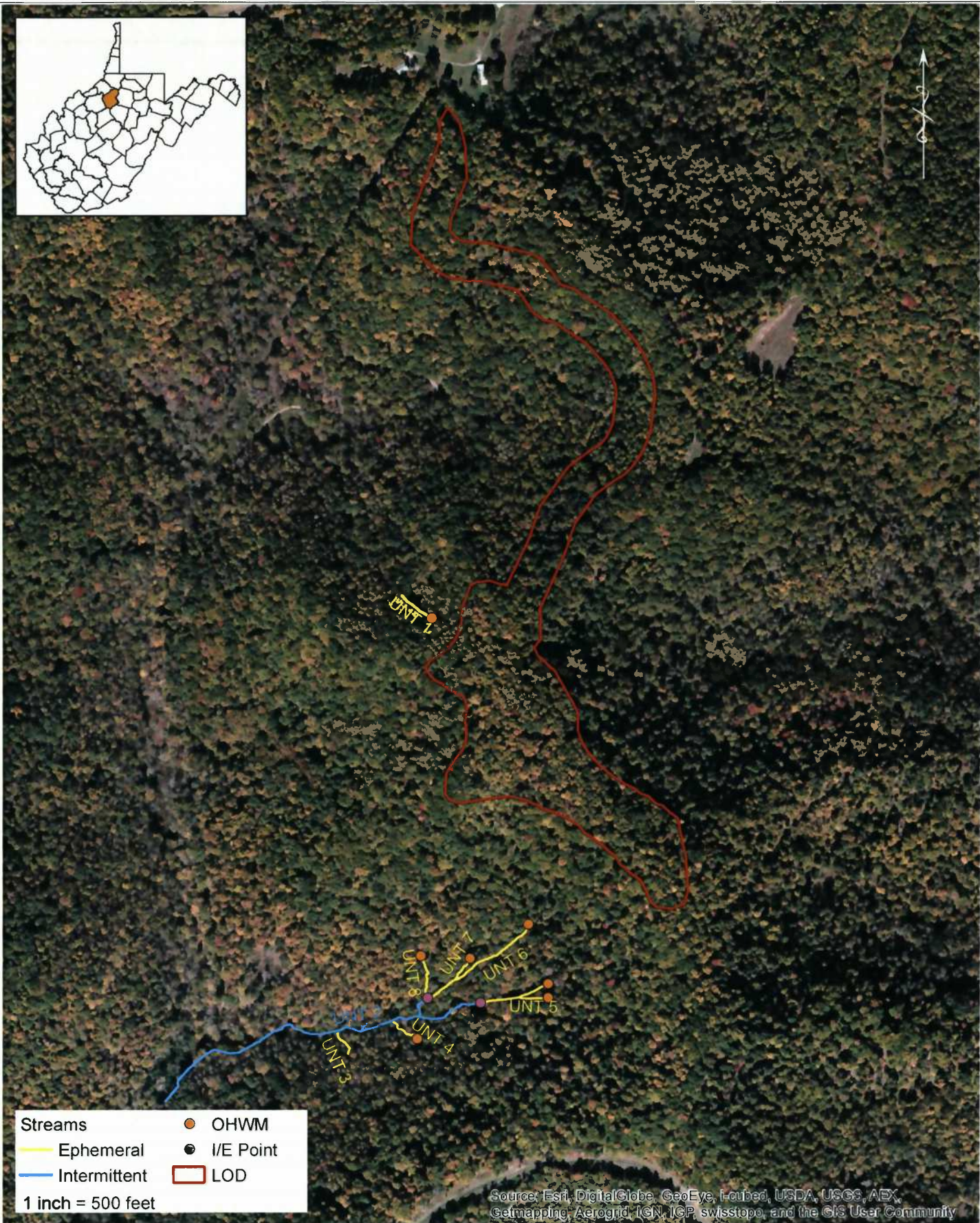
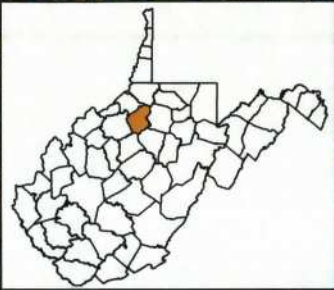
1 inch = 500 feet

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



12/3/2013

By: Imartin



Streams

Ephemeral	OHWM
Intermittent	I/E Point
	LOD

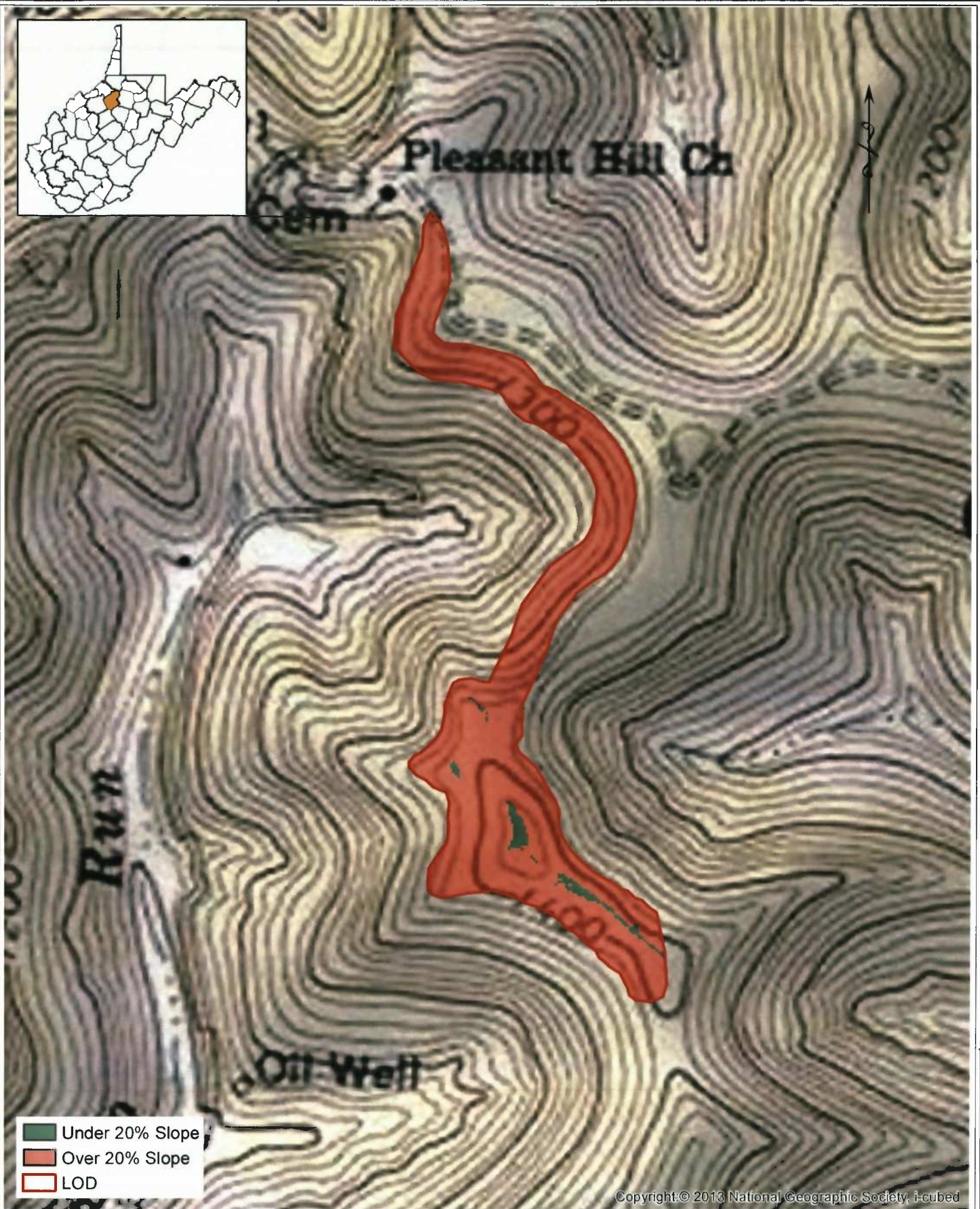
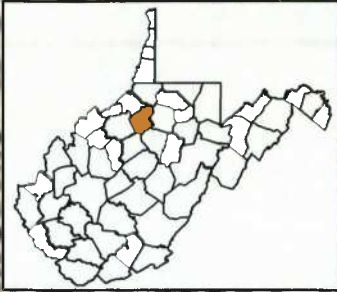
1 inch = 500 feet




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



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





-  Under 20% Slope
-  Over 20% Slope
-  LOD

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### Slope

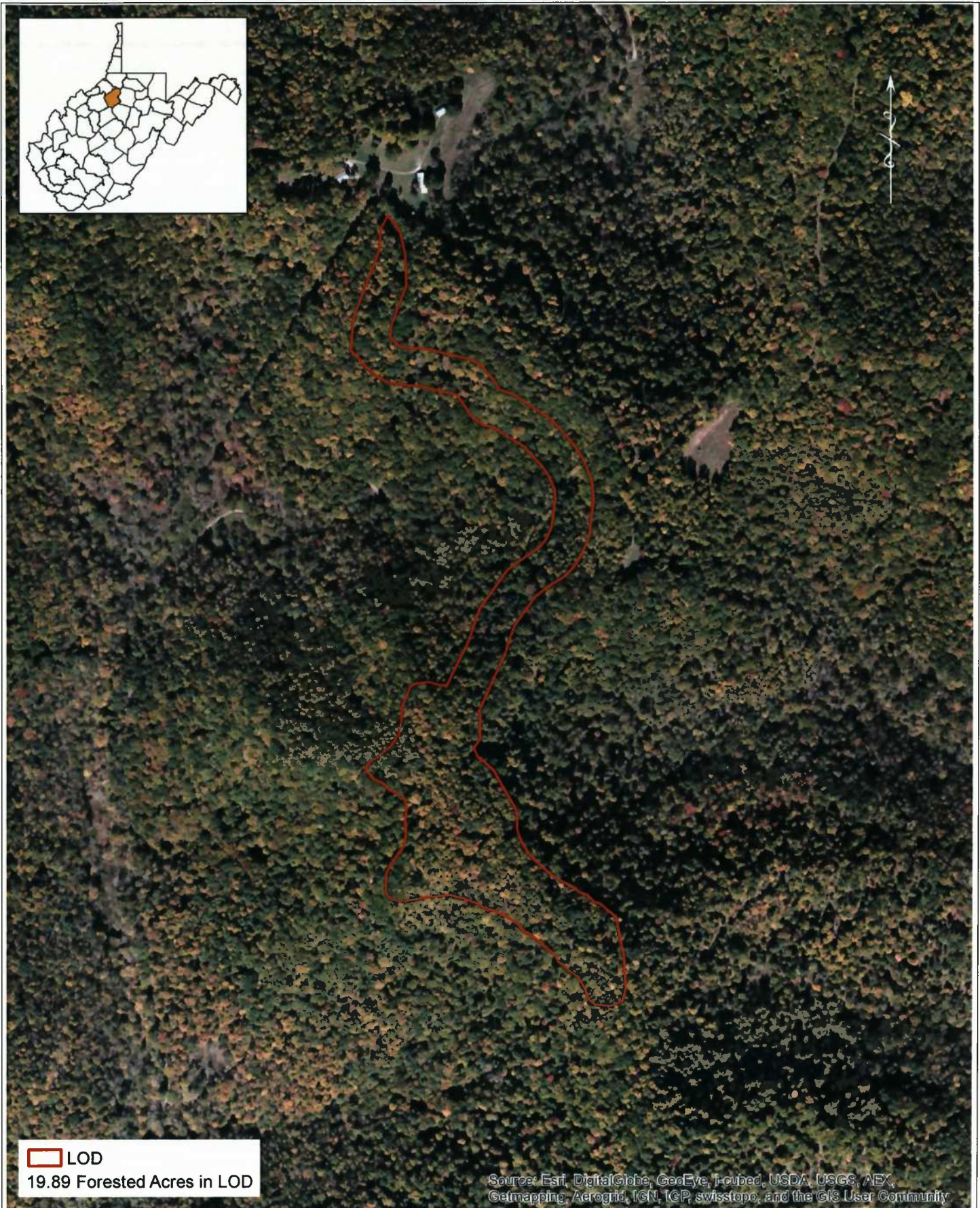
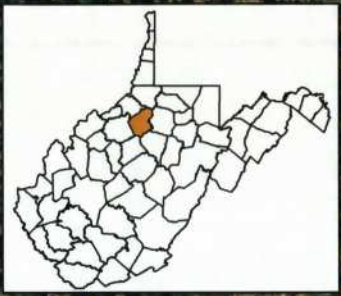
# THRASHER

Stark Compressor Station  
Doddridge County - West Virginia

1 inch = 500 feet

By: Imartha

12/3/2013



 LOD  
19.89 Forested Acres in LOD

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



Forested Acres  
Stark Compressor Station  
Doddridge County - West Virginia

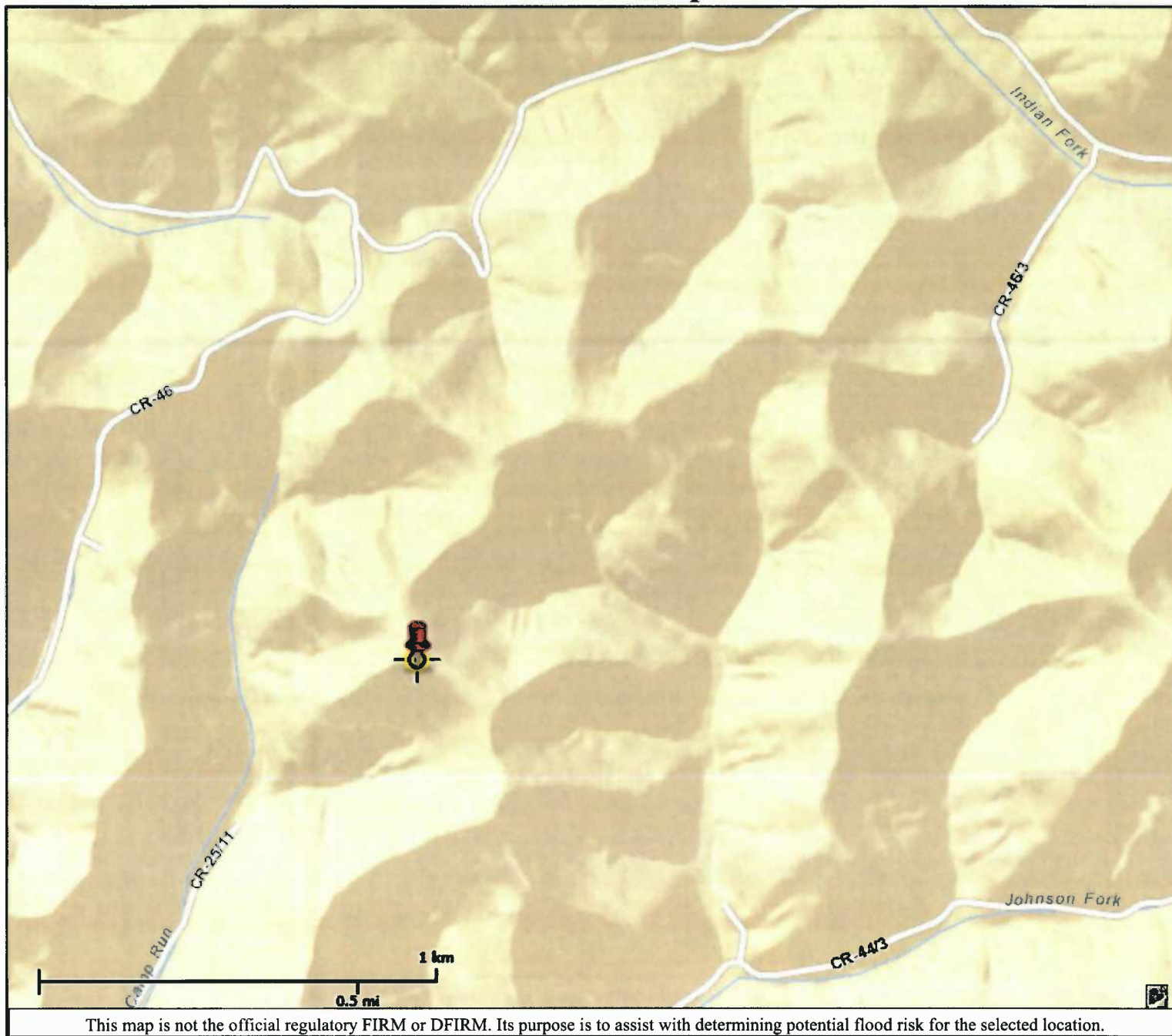


By: Imartha



1 inch = 500 feet

12/3/2013

# WV Flood Map



Map Created on 12/5/2013

 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 1426 feet

**Location (long, lat):** 80.615855 W, 39.205020 N

**Location (UTM 17N):** (533168, 4339599)

**FEMA Issued Flood Map:** 54017C0255C

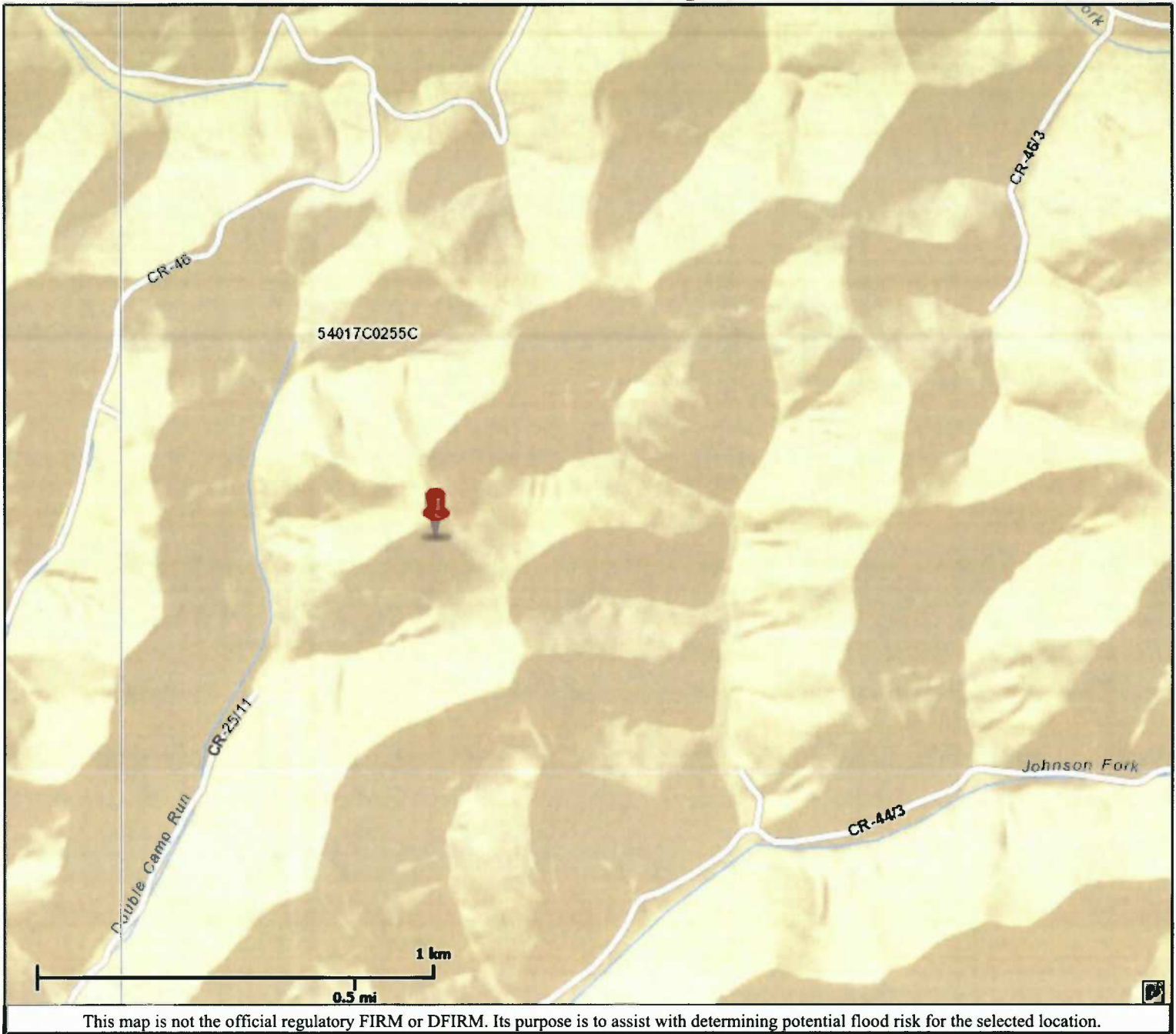
**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Parcel Number:**











# WV Flood Map



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

Map Created on 12/5/2013

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

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.

**Advisory Flood Height:** N/A

**Water Depth:**

**Elevation:** About 1426 feet

**Location (long, lat):** 80.615855 W, 39.205020 N

**Location (UTM 17N):** (533168, 4339599)

**FEMA Issued Flood Map:** 54017C0255C

**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Flood Profile:** No Profile

**HEC-RAS Model:** No Model

**Parcel Number:**

# THRASHER

December 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  
Crestwood Marcellus Midstream LLC  
Stark Compressor Station, Doddridge County, West Virginia  
Thrasher Group Project #101-015-0192***

Dear Ms. Sargent:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), Thrasher Group, Inc. (Thrasher) is submitting the following packet to your office as a request for a habitat assessment for any rare, threatened, and/or endangered (RTE) wildlife resources for a proposed project in the USGS Big Isaac 7.5 minute quadrangle of Doddridge County, WV. The proposed Stark Compressor Station and access road contain approximately 19.89 acres within the intended limits of disturbance (LOD). Proposed forested impacts, due to timber clearing, will occur on a maximum of 19.89 acres. All timbering activities are to occur before March 31, 2014. The proposed access road entrance is located at N 39.212073, W 80.617221. Proposed center of the Stark Compressor Station is approximately located at N 39.205285, W 80.615810. The anticipated site development will involve the construction of the proposed access road and compressor station pad.

The USGS topographical map and aerial imagery map contained herein depict the proposed site location and intended LOD associated with the Stark Compressor Station and access road development. The included photograph log displays typical habitat and aquatic resources within or near the intended LOD. No specific protected species or associated habitat was discovered within or near the proposed LOD, during on site investigations. Investigations included the documentation of possible portals or caves, tree habitat featuring exfoliating bark, such as Shag Bark Hickory or dead snags, and possible fly corridors.

Construction of the proposed Stark Compressor Station and access road will include no impacts to any aquatic resources. All aquatic resources within or near the proposed LOD have been identified and delineated by Thrasher staff. The attached delineation mapping depicts all findings associated with the proposed project.

Ms. Sargent  
Page 2 of 2  
December 3, 2013

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) 205-8818 or [mhaveron@thrashereng.com](mailto:mhaveron@thrashereng.com).

Sincerely,

THRASHER GROUP, INC.

A handwritten signature in cursive script that reads "Melissa A. Haveron". The signature is written in black ink and is positioned above the printed name and title.

Melissa A. Haveron  
Environmental Scientist









Enclosures

# WV Flood Map



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

Map Created on 12/5/2013

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

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.

**Advisory Flood Height:** N/A

**Water Depth:**

**Elevation:** About 1426 feet

**Location (long, lat):** 80.615855 W, 39.205020 N

**Location (UTM 17N):** (533168, 4339599)

**FEMA Issued Flood Map:** 54017C0255C

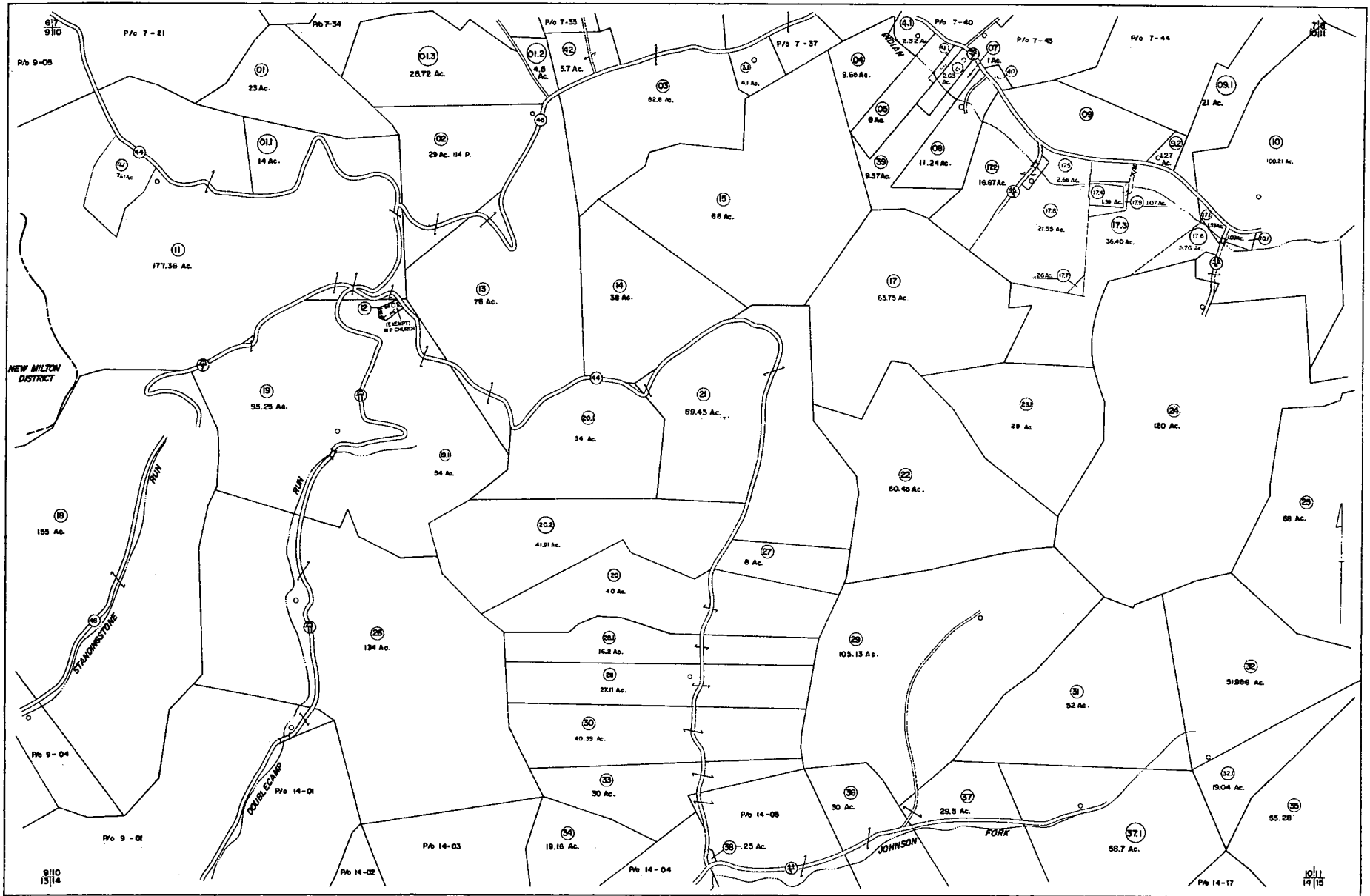
**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Flood Profile:** No Profile

**HEC-RAS Model:** No Model

**Parcel Number:**



FOR TAX PURPOSES ONLY

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

**Legend**

Property line	Original lot line
Map of amended or number	Deed lot number or number
Corporation line	Forest or lease number in map
Shelter line	Improvement
County line	Advised

**Revisions**

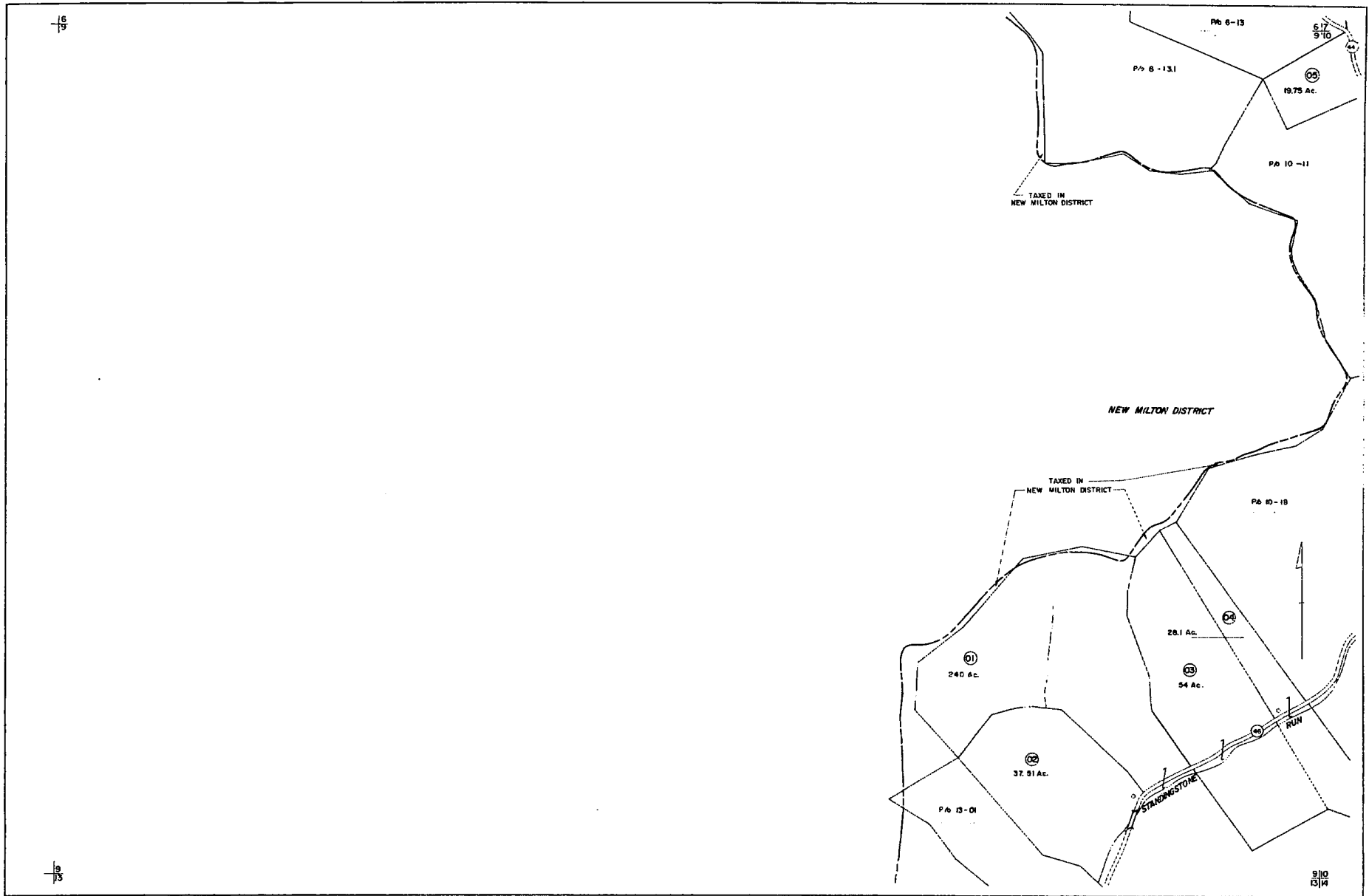
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2-2-79	24	OGIS	12-8-82	EB	
REV. 7-81	DR. T. COM.	OGIS	12-23-82	DR	
11-11-81	1/1	OGIS	8-8-83	DR	
11-11-81	1/1	ES	3-8-70	REK	
OGIS	1/1	TR	3/17/06	S.B.H.	

STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY

Office of Assessor

GREENBRIER DISTRICT  
 SHEET 10

Date, Aerial Photography, APRIL, 1962 Date, MAP-DKT, 1963  
 Photo No: 301, 302 Scale: 1"=400'



**FOR TAX PURPOSES ONLY**

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

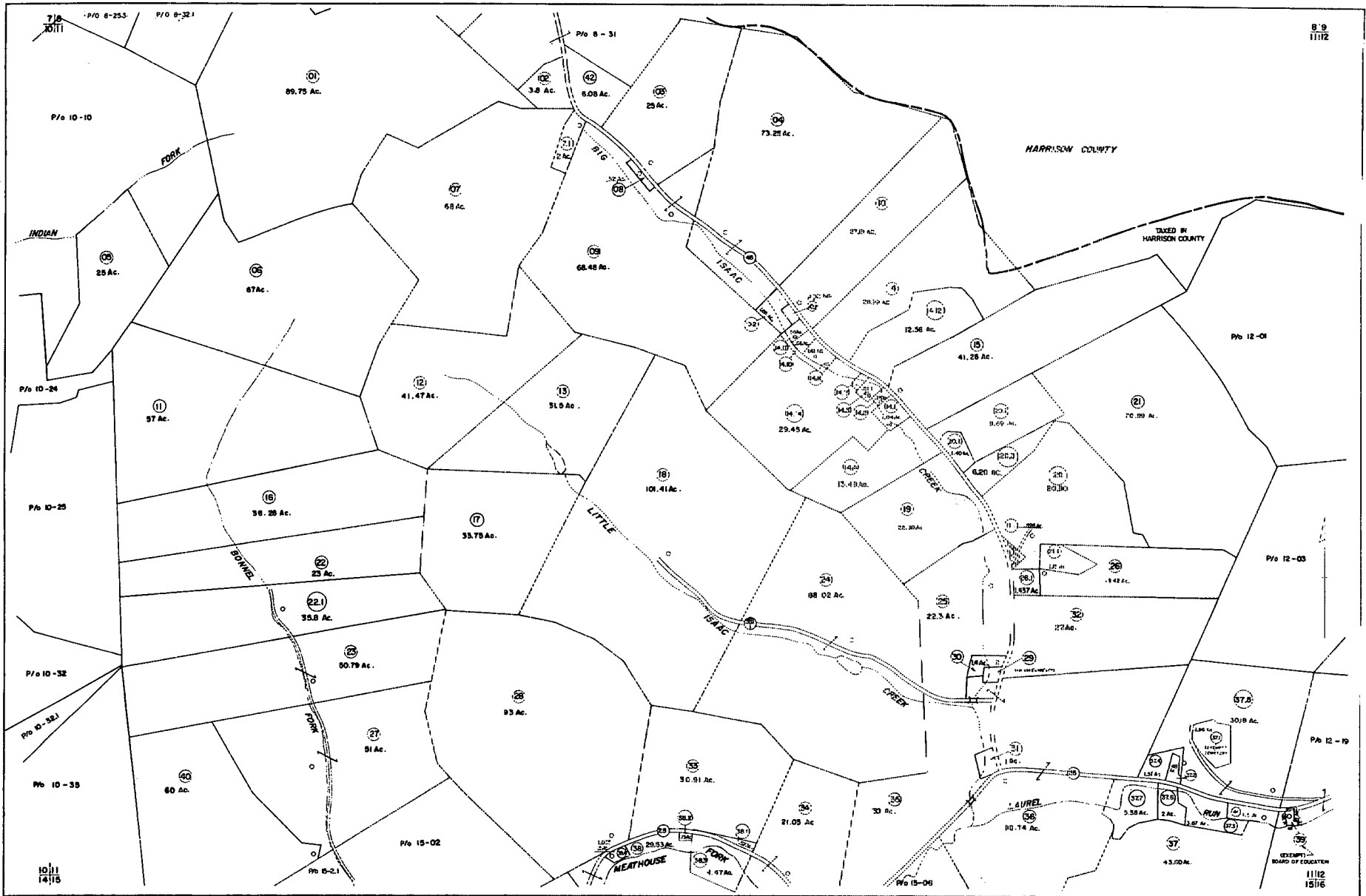
Legend	
Property line	Original lot line
Map of government or modern	State file number or number
Compartments line	Parcel or index number to map
District line	Improvement
County line	Railroad

Revisions	
REVISED 4/22/84	DJK
REVISED 8/23/76	JG
REVISED 1/10	JG
OGIS 1-4-81	JB
5/2/83	KBS

STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY  
 Office of Assessor

**GREENBRIER DISTRICT**  
**SHEET 09**  
 Date Aerial Photography APRIL 1982 Date Map JULY 1983  
 Flood No. 505 Scale 1"=400'





8.9  
11112

FOR TAX PURPOSES ONLY  
 Prepared by  
**L. ROBERT KIMBALL**  
 Consulting Engineer  
 Eberburg, Pennsylvania

Legend	
Property line	--- ---
Map of owners or holder	--- ---
Corporation line	--- ---
Outright line	--- ---
County line	--- ---
Circle with number	○ 12
Circle with letter	○ A
Circle with symbol	○ *
Triangle	△
Square	□
Star	☆

Revisions	
1. 10/20/20	1. 10/20/20
2. 10/20/20	2. 10/20/20
3. 10/20/20	3. 10/20/20
4. 10/20/20	4. 10/20/20
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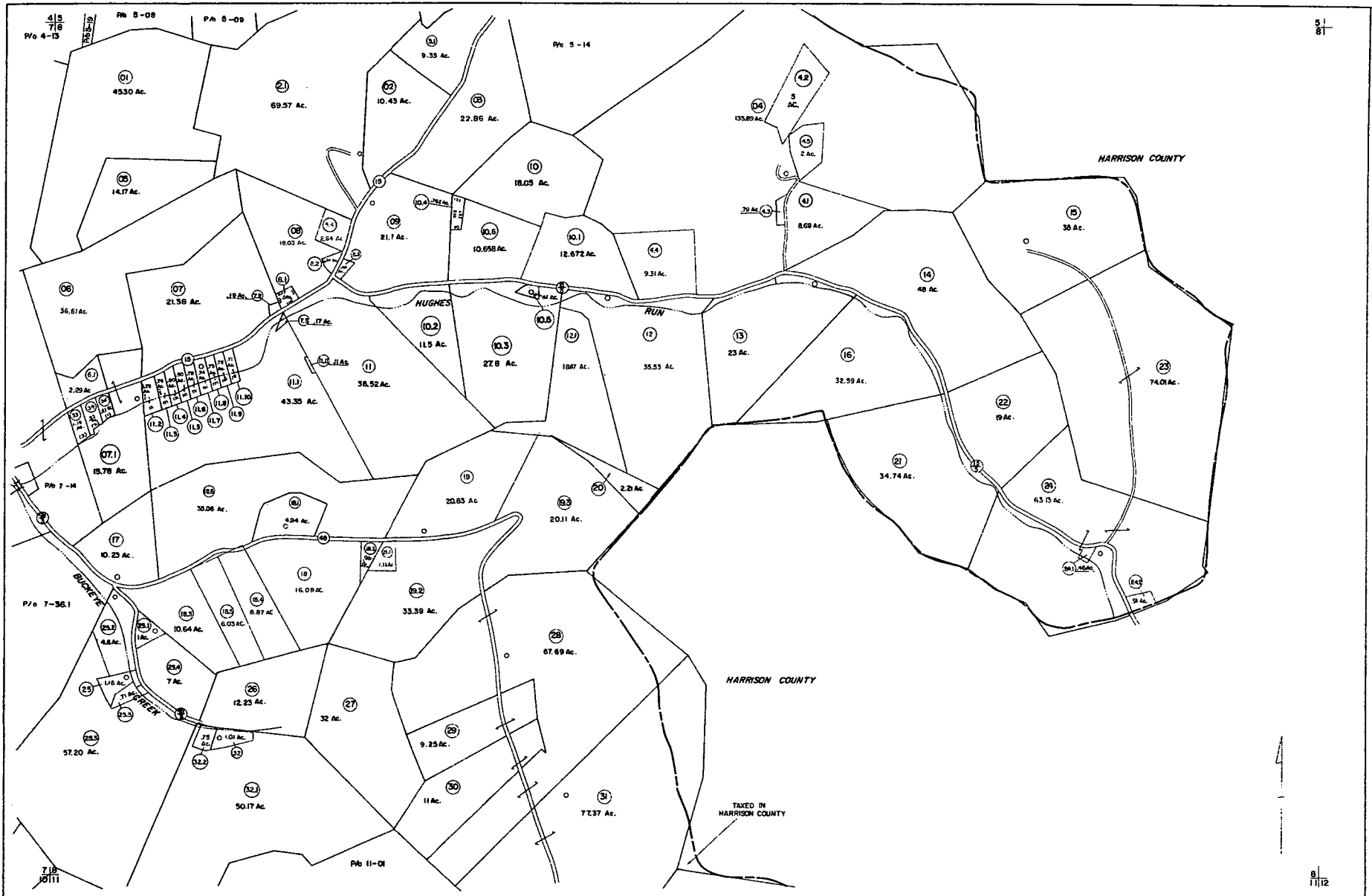
STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY  
 Office of Assessor

GREENBRIER DISTRICT  
 SHEET 11  
 Date: Aerial Photography: APRIL, 1952 Date: 11-20-2011, 1952  
 Photo No. 319 Scale: 1" = 400'

11112  
15116







FOR TAX PURPOSES ONLY

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

Legend	
.....	Unimproved lot lines
.....	Street lot number
.....	Parcel or lot's number in case
.....	Improvement
.....	Waterway
.....	County line

Revisions	
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3	REVISED 03/11/03
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STATE OF WEST VIRGINIA  
 DODDRIDGE COUNTY  
 Office of Assessor

GREENBRIER DISTRICT  
 SHEET 08  
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 Photo No: 317 Scale: 1" = 400'