

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to Crestwood Marcellus Midstream LLC, and is for the approved commercial and/or industrial development project associated with this permit that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible, and must remain posted during entirety of development.

Permit: #14-195

Date Approved: 07/02/2014	Expires: N/A
Issued to: Thrasher	POC: Matthew Fluharty
Company Address:	800-273-6541
Project Address:	
Firm: N/A	
Purpose of development: Pipeline. <u>Pro</u>	ject does not impact floodplain.
Issued by: Edwin L. "Bo" Wriston, Dodo	lridge County FPM (or designee)
	Date:07/02/2014

#14-195 Crestwood Marcellus Mid,

THRASHER

April 17, 2014

Mr. Bo Wristen, Floodplain Supervisor Doddridge County Commission 118 East Court Street West Union, WV 26456

RE: Doddridge County Location Improvement Permit

Crestwood Marcellus Midstream, LLC
Wolfpen to Hardwood Pipeline
Doddridge County, West Virginia

Thrasher Project #101-015-0238

To Mr. Wristen:

On behalf of Crestwood Marcellus Midstream (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 pipeline in the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV and FIRM panel 235 of 325. The proposed area of interest (AOI) for the Wolfpen to Hardwood Pipeline consists of a seventy-five foot (75') construction right-of-way (ROW). The proposed area of interest (AOI) will originate at the Hardwood Well Pad located at approximately 39.249333° N, 80.65929° W. From there, the 12" steel pipeline will extend southwest within a proposed 75' wide construction right-of-way (ROW) to the Wolfpen well pad, located at approximately 39.241386° N, 80.671934° W. The proposed pipeline will be 5,535 LF in total, and its associated AOI will cover approximately 10.34 acres.

The proposed Wolfpen to Hardwood Pipeline will have no construction activities within the 100 year floodplain. The pipeline will traverse Wolfpen Run and an unnamed tributary of Wolfpen Run using open-cut construction methods.

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 the 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; therefore, no fees are associated with this permit. Approvals will be forwarded to your office upon receipt.

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



THRA\SHER

Mr. Wristen April 17, 2014 Page 2 of 2

Sincerely,

THRASHER GROUP, INC.

JORDAN P. WILCOX Environmental Scientist

#14-195 Crestwood Marcellus Mids Wolffer +Hardwood Pipeline

DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

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

APPLICANT'S SIGNATURE_	Matt Lish	
DATE	4/16/14	

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 St.	Suite 3800 Fort Worth, TX 76102	
TELEPHONE NUMBER:	(817) 339-5400	

ADDRESS: TELEPHONE NUMBER: ENGINEER'S NAME: MATTHEW W. FLUHARTY, PE, The Thrasher Group, Inc. 16375 ADDRESS: 600 White Oaks Blvd., Bridgeport, WV 26330 TELEHONE NUMBER: (304) 624-4108 PROJECT LOCATION: NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see attachment ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) DISTRICT: DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: DEED BOOK 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	BUILDER'S NAME:	
TELEPHONE NUMBER: ENGINEER'S NAME: MATTHEW W. FLUHARTY, PE, The Thrasher Group, 16375 ADDRESS: 600 White Oaks Blvd., Bridgeport, WV 26330 TELEHONE NUMBER: (304) 624-4108 PROJECT LOCATION: NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see attachment 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	ADDRESS:	
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	ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED	UPON THE

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

	ACI	IVIIY				STRUCTU	RAL TYPE	
0 0 0 0 0	New Structu Addition Alteration Relocation Demolition Manufactur		bil Home		0 0 0 0 0	Residential Non-reside	(1 – 4 Family) (more than 4 ntial (floodpro Use (res. & con nt	Family) pofing)
В.	OTHER DEV	'EOPLI	MENT ACTIV	/ITIES:				
0 0 0 0 0 0 0	Watercourse Drainage Im Road, Street Subdivision	e Alterc provem , or Brid (including) ater or	Mining for STRUCTUR ation (includin lents (includin lidge Constructi ling new expan Sewer System fy)	ng dredgi g culvert ion sion)	ing and cl	T checked at		. :
 STANDARD SITE PLAN OR SKETCH SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED. 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. SIGN AND DATE THE SKETCH. ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT					USE NGS,			
IRRES	PECTIVE OF	WHE.		R ANY P	ART OF	THE SUBJ	ECT PROPOS	

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

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:	NAME:	
ADDRESS:		
NAME:	NAME:	
ADDRESS:	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.

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): Mables L Flherty
SIGNATURE: Watt W Ill DATE: 4/16/14
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
FIRM Panel: Dated:
Is <u>NOT</u> located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and NO FLOOPLAIN DEVELOPMENT PERMIT IS REQUIRED).
D. Jalantada et late and
[] 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.

COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.

CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY

(D)

(E)

SIGNED	

DATE 5-2-14

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.
0	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.
(1	Top of new fill elevationFt. 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).

MIT DETERMINATION (To be completed by Floodplain
ator/Manager or his/her representative)
mined that the proposed activity (type is or is not) in conformance with f the Floodplain Ordinance adopted by the County Commission of Doddridg (lay 21, 2013. The permit is issued subject to the conditions attached to and f this permit.
DATE
plain Administrator/Manager found that the above was not in conformance visions of the Doddridge County Floodplain Ordinance and/or denied that the applicant may complete an appealing process below.
Appealed to the County Commission of Doddridge County? [] Yes {} No Hearing Date:
County Commission Decision - Approved [] Yes [] No
rff

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

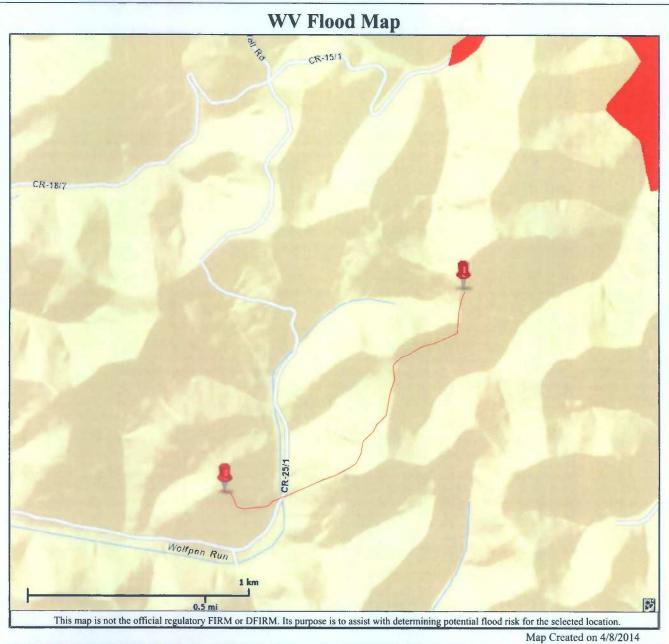
The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

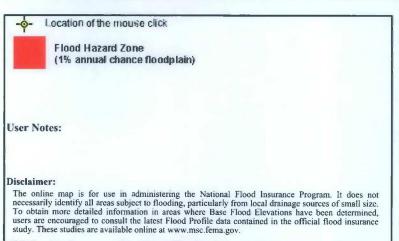
COMPLETE 1 OR 2 BELOW:

1	Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space isFT. NGVD (MSL)
2	Actual (As Built) elevation of floodproofing isFT. NGVD (MSL)
Note:	Any work performed prior to submittal of the above information is at risk of the cant.
SECT	ION 7: COMPLIANCE ACTION (To be completed by the Floodplain
<u>Adm</u>	inistrator/Manager or his/her representative).
as app	oodplain Administrator/Manager or his/her representative will complete this section plicable based on inspection of the project to ensure compliance with the Doddridge by Floodplain Ordinance.
IN	SPECTIONS:
	DATE:BY: DEFICIENCIES ? Y/N
co	OMMENTS
SECTI	ON 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain
<u>Admiı</u>	nistrator/Manager or his/her representative).
Certific	cate of Compliance issued: DATE:

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

	PERMIT NUMBER: PERMIT DATE:	
PURP	OSE –	
CONSTRUCTION LOCATION	ON:	
OWNER'S ADDRESS:		
THE FOLLOWING MUST B ADMINISTRATOR/MANA	BE COMPLETED BY THE FLOODPLAIN GER OR HIS/HER AGENT.	
COMPLIANCE IS HE	REBY CERTIFIED WITH THE REQUIREMENT OF THE	
FLOODPLAIN ORDINANCE DODDRIDGE COUNTY ON	E ADOPTED BY THE COUNTY COMMISSION OF	
SIGNED	·	





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

(http://www.MapWV.gov/flood)

Flood Hazard Area:

Elevation:

Location (long, lat):

Location (UTM 17N):

FEMA Issued Flood Map:

Contacts:

CRS Information:

Parcel Number:

Google Maps Page 1 of 2



Drive 8.6 mi, 17 min

Directions from Court St to Wolf Pen Rd



O Court St

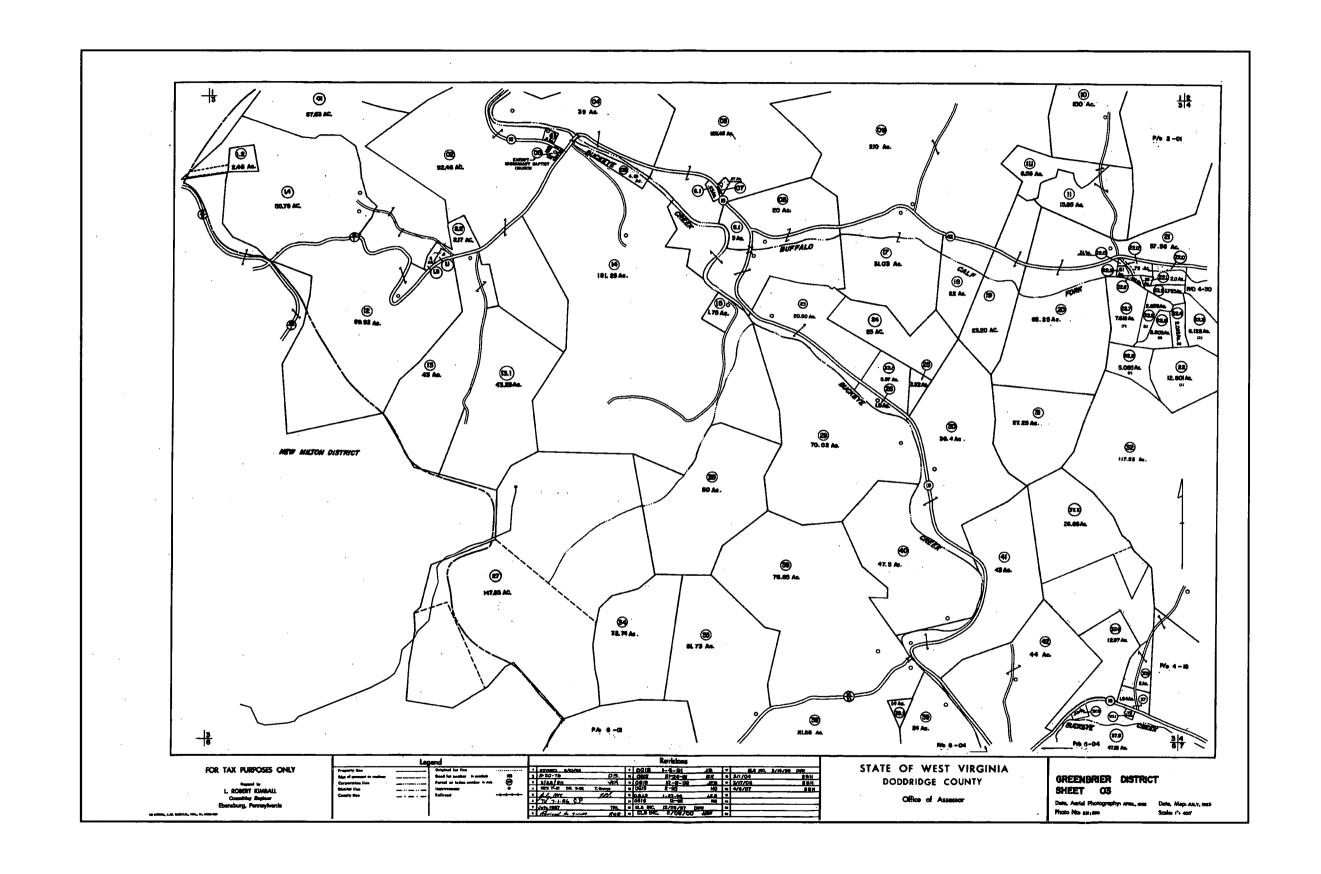
West Union, WV 26456

t	1.	Head northeast on Columbia St toward W Main St	269 ft
r+	2.	Take the 2nd right onto E Main St	
	3.	Turn right onto WV-18 S	0.2 mi
ľ			6.8 mi
4	4.	Turn left onto Co Rte 25/Meathouse Fork	0.4 mi
	5.	Turn left onto Wolf Pen Rd	
71			1.1 mi

Wolf Pen Rd

New Milton, WV 26411

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



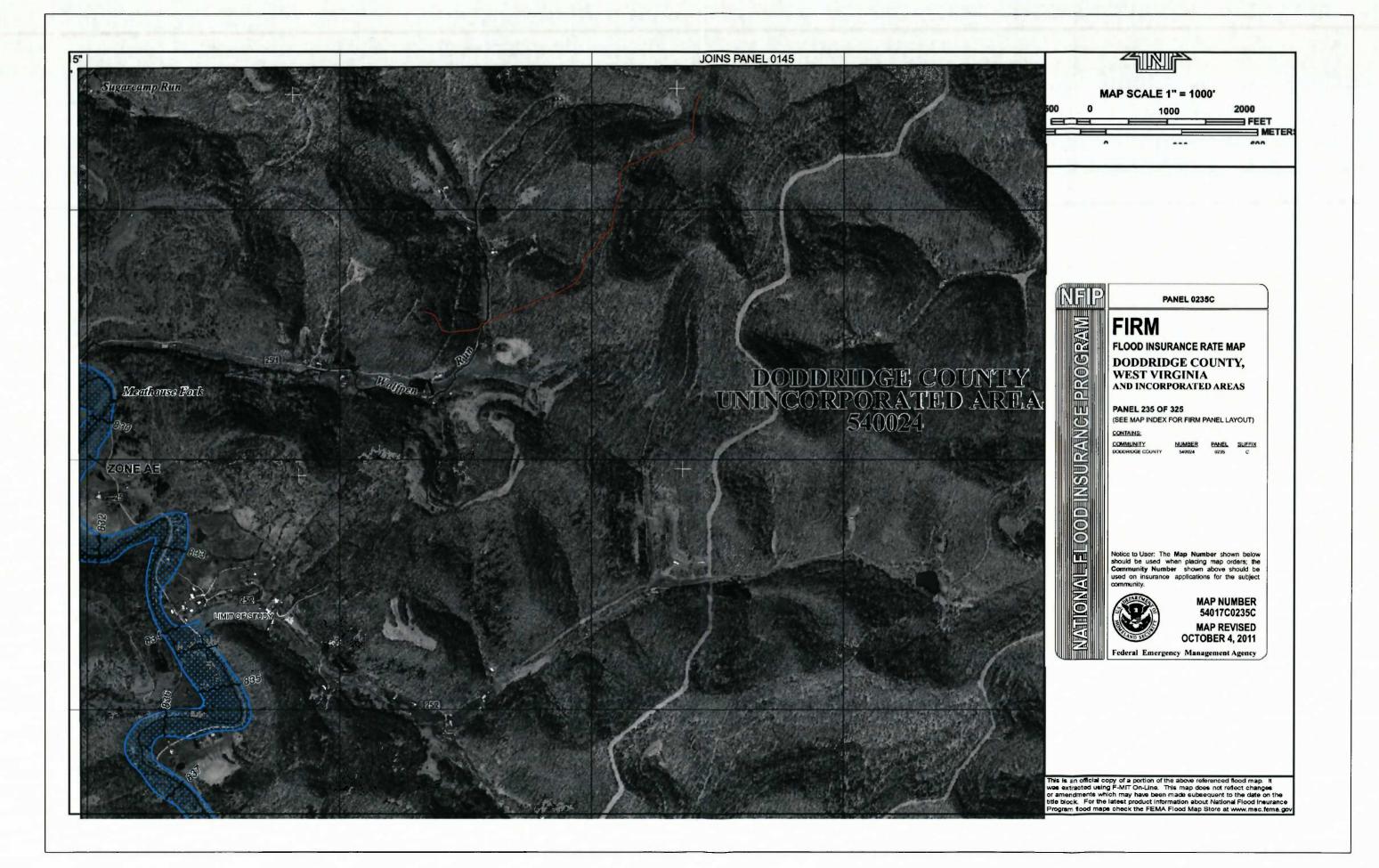
Crestwood Marcellus Midstream LLC

Wolfpen to Hardwood Pipeline

THRASHER GROUP, INC. PROJECT # 101-015-0238

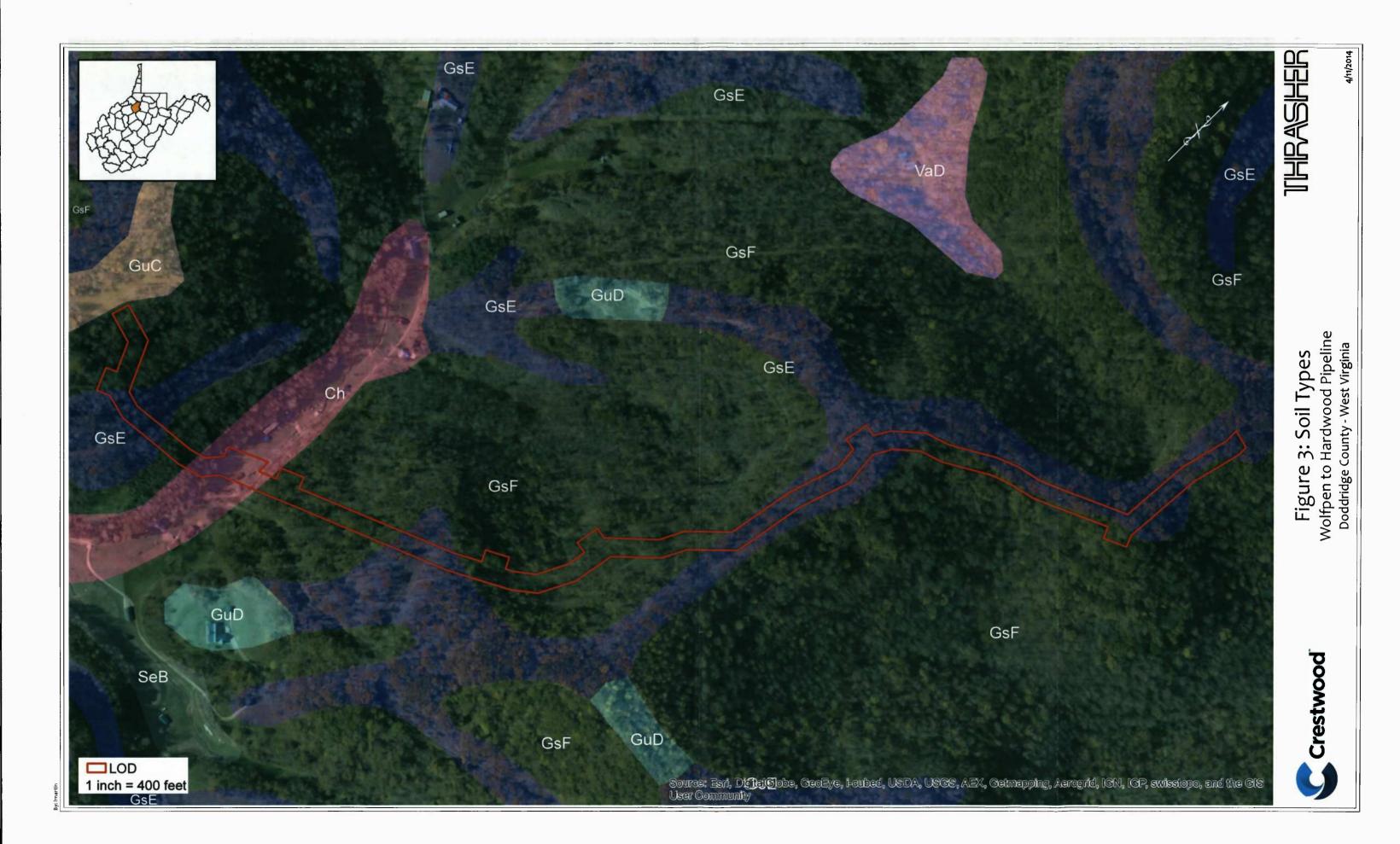
DODDRIDGE COUNTY LOCATION IMPROVEMENT PERMIT

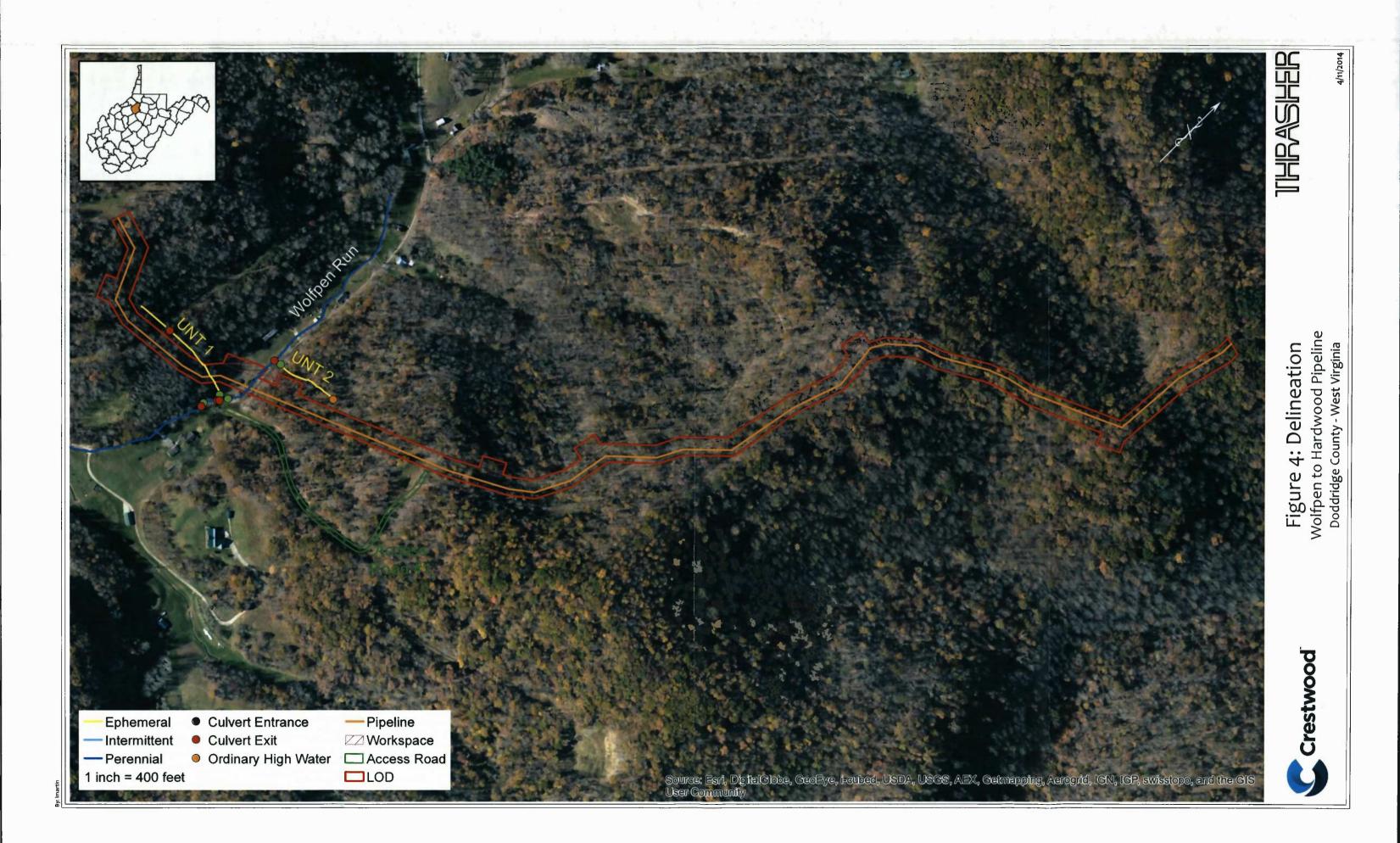












THRASHER

April 17, 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
Wolfpen to Hardwood Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0238

To whom it may concern:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher) is submitting to your office a project review request for a proposed linear pipeline project in the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV.

The proposed area of interest (AOI) for the Wolfpen to Hardwood Pipeline consists of a 75° wide right-of-way (ROW) which contains approximately 10.34 acres. The proposed 12" steel pipeline originates at the Hardwood Well Pad, located at approximate coordinates 39.249334° N / 80.65929° W. From there it extends approximately 5,535 linear feet southwest to the Wolfpen Well Pad, located at approximate coordinates 39.241386° N / 80.671934° W. The proposed project will also involve expanding an existing access road as well as creating five (5) 50' x 100' and two (2) 50 x 175' workspaces.

Thrasher staff identified three (3) streams and zero (0) wetlands during field investigations. Two (2) of the identified streams, Wolfpen Run and UNT-1, will be crossed and temporarily impacted using open cut construction methods. After the pipeline is installed, the stream will be restored to original contour, slope, and grade at the time of completion. Thrasher understands all material removed during excavation will be temporarily side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion. The attached delineation mapping depicts all findings associated with the proposed Wolfpen to Hardwood Pipeline AOI.

Of the 10.34 acres contained within the AOI, approximately 8.89 acres are forested and will require timbering before construction can commence. Please see attached forested



U.S. Fish and Wildlife Services April 17, 2014 Page 2 of 2

acreage map. In addition, no specific Indiana Bat habitat, portals or caves were identified within the intended AOI.

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

If any further documentation or permitting is requested for this project, or if any questions or concerns should arise, please feel free to contact me at your earliest convenience at (304) 624-4108 or jwilcox@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.

JORDAN P. WILCOX Environmental Scientist



April 17, 2014

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
Wolfpen to Hardwood Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0238

Dear Ms. Sargent:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher), is submitting to your office, a request for habitat assessment for any rare, threatened and endangered (RTE) wildlife resources for a proposed linear pipeline project in the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV.

The proposed area of interest (AOI) for the Wolfpen to Hardwood Pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 10.34 acres. The proposed 12" steel pipeline originates at the Hardwood Well Pad, located at approximate coordinates 39.249334° N / 80.65929° W. From there it extends approximately 5,535 linear feet southwest to the Hardwood Well Pad, located at approximate coordinates 39.241386° N / 80.671934° W. The proposed project will also involve expanding an existing access road as well as creating two (2) 50 x 175' and five (5) 50 x 100' workspaces.

Thrasher staff identified three (3) streams and zero (0) wetlands during field investigations. Two (2) of the identified streams, Wolfpen Run and UNT-1, will be crossed and temporarily impacted using open cut construction methods. After the pipeline is installed, the stream will be restored to original contour, slope, and grade at the time of completion. Thrasher understands all material removed during excavation will be temporarily side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion. The attached delineation mapping depicts all findings associated with the proposed Wolfpen to Hardwood Pipeline AOI.

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Ms. Sargent Page 2 of 2 April 14, 2014

acreage map. In addition, no specific Indiana Bat habitat, portals or caves were identified within the intended AOI.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline right of way. The included photo log displays all identified aquatic resources within the AOI as well as typical habitat along the proposed pipeline right of way.

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

Sincerely,

THE THRASHER GROUP, INC.

JORDAN P. WILCOX Environmental Scientist

THRASHER!

April 17, 2014

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

RE: Stream Activity Application
Crestwood Marcellus Midstream LLC
Wolfpen to Hardwood Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0238

Dear Mr. Scarberry:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher), is submitting the following packet and Stream Activity Application to your office for a proposed linear pipeline project in the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV.

The proposed area of interest (AOI) for the Wolfpen to Hardwood Pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 10.34 acres. The proposed 12" steel pipeline originates at the Hardwood Well Pad, located at approximate coordinates 39.249334° N / 80.65929° W. From there it extends approximately 5,535 linear feet southwest to the Wolfpen Well Pad, located at approximate coordinates 39.241386° N / 80.671934° W. The proposed project will also involve expanding an existing access road as well as creating two (2) 50 x 175' and five (5) 50 x 100' workspaces.

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Mr. Scarberry Page 2 of 2 April 17, 2014

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline right of way. The included photo log displays all aquatic resources identified within the AOI as well as typical habitat within the intended AOI.

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

Sincerely,

THE THRASHER GROUP, INC.

JORDAN P. WILCOX Environmental Scientist

OFFICE OF LAND AND STREAMS STREAM ACTIVITY APPLICATION

Name of Applicant: Crestwood Marcellus Midstream LLC (Landowner)			
2. Date: April 17, 2014			
3. Complete mailing address of applicant: 801 Cherry St., Suite 3400, Unit 20, Fort Worth, TX 76102			
Telephone Number: (817) 339-5400 Fax Number: (817) 339-5540			
E-Mail Address: mjones@crestwoodlp.com			
4. Name, address, telephone number, and title of applicant's authorized agent (i.e. contractor employed by landowner): Jordan P. Wilcox, The Thrasher Group, Inc. 600 White Oaks Boulevard, PO Box 940, Bridgeport, WV 26330			
Please ✓ if you want the approval sent to the agent✓			
5. Describe the proposed activity, its purpose and intended use after completion, type of equipment to be used in the stream, amount of material to be dredged (if any), plan for disposing of dredged materials, length of stream/bank to be worked or type and size of structure to be placed in the stream (i.e. length and width of bridge, diameter and length of culvert). One copy of a map (topographical or detailed, hand-drawn) showing exact location of the work site (enabling Officials to locate site) must accompany this application, and all other information that may be important to this application.			
The proposed Wolfpen to Hardwood Pipeline will consist of a 12" buried steel natural gas pipeline within the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV. The proposed area of interest (AOI) for the Woldpen to Hardwood Pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 10.34 acres. The proposed 12" steel Wolfpen to Hardwood Pipeline originates at the Hardwood Well Pad located at approximately 39.249334° N / 80.65929° W. From there it extends 5,535 linear feet southwest to the Wolfpen Well Pad located at 39.241386° N / 80.671934° W. The proposed project will also involve expanding an existing access road as well as creating two (2) 50' x 175' and five (5) 50' x 100' workspaces.			
Three (3) streams, UNT 1, UNT 2, and Wolfpen Run, were identified during field investigations conducted for the Wolfpen to Hardwood Pipeline construction. Two (2) streams, Wolfpen Run and UNT 1, shall be crossed using open-cut methods. The remaining aquatic resource is outside the AOI and no impact is anticipated. Standard construction equipment (i.e bulldozers and excavators) shall be used to accomplish construction of the proposed line.			
All discharge (Fill) activities will utilize native soil and will be returned to the original contour. The pipeline excavation depth will be approximately 60 inches (5 feet), and upon installation the pipeline will have a minimum cover of 42 inches (3.5 feet). Standard construction equipment (i.e. bulldozers and excavators) shall be used to accomplish construction of the proposed line.			
For more information, please see the attached photo log and mapping.			

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

6. Please √ the proposed use: Private: Public: Commerical:✓				
(person use) (Government Agency) (Business) 7. Location where proposed activity exists or will occur:				
Unnamed tributary of Wolfpen Run and Wolfpen Run				
Name of Water Way (if unnamed or unknown tributary, provide the stream that is flows into)				
Doddridge Salem Salem				
County District (taxable) Closest City or Town				
8. Date activity is proposed to commence: June 2014				
Date activity is expected to be complete: November 2014				
Date activity is expected to be complete.				
9. Is any portion of the activity for which authorization is sought now complete? Yes No No (If the answer is "Yes", give reasons in Section 5 including month and year the activity was completed)				
10. Below is a list of entities that may require permits. Please list all approvals or certifications required by other Government Agencies for the above-described activity:				
Issuing agency: Corps of Engineers – (304) 399-5710 Type of approval: Nationwide Permit 12 Submittal				
(412) 395-7157 Identification No.: Date of approval: Pending				
Issuing agency: County Commission Type of approval: DCLIP				
Flood Plain Coordinator Identification No.: Date of approval:				
Issuing agency: City Government Type of approval: (if in City Limits the County isn't needed)				
Identification No.: Date of approval:				
11. Has any agency denied approval for the activity described herein? Yes No (if "Yes", explain in Section 5 and/or attach a copy of the denial) 12: If activity is a pipeline construction (that is, gas, water, or sewer) give: Material pipeline is made of: _Gas - Steel				
Size of Pipeline: 12"				
Maximum pressure of the pipeline: Maximum Anticipated Operating Pressure (MAOP) - 1440 psi				
Please provide the appropriate line number and if a Gathering or Well Line provide the A.P.I. Well Number:				
Transmission: Distribution: Gathering: X Well Line: A.P.I Well Number:				
13: Application is hereby made for authorization to conduct the activities described herein. I certify that I am familiar with the information in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I furthe certify that I possess the authority to undertake the proposed activities.				
Signature of Applicant or Agent				
Office of Land and Streams				
Building 74, Room 200 324 Fourth Avenue				
South Charleston, WV 25303				
Phone Number 304-558-3225 Fax Number 304-558-6048				
OLS Form 1 (08/07)				

THRASHER

April 17, 2014

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

RE: WVSHPO Section 106 Review
Crestwood Marcellus Midstream LLC
Wolfpen to Hardwood Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0238

Dear Ms. Pierce:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher), is submitting to your office a review for environmental due diligence a proposed pipeline project in the USGS New Milton 7.5 minute quadrangle of Doddridge County, WV.

The proposed area of interest (AOI) for the Wolfpen to Hardwood Pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 10.34 acres. The proposed 12" steel pipeline originates at the Hardwood Well Pad, located at approximate coordinates 39.249334° N / 80.65929° W. From there it extends approximately 5,535 linear feet southwest to the Wolfpen Well Pad, located at approximate coordinates 39.241386° N / 80.671934° W. The proposed project will also involve expanding an existing access road as well as creating two (2) 50 x 175' and five (5) 50 x 100' workspaces.

Thrasher staff identified three (3) streams and zero (0) wetlands during field investigations. Two (2) of the identified streams, Wolfpen Run and UNT-1, will be crossed and temporarily impacted using open cut construction methods. After the pipeline is installed, the stream will be restored to original contour, slope, and grade at the time of completion. Thrasher understands all material removed during excavation will be temporarily side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion. The attached delineation mapping depicts all findings associated with the proposed Wolfpen to Hardwood Pipeline AOI.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline right of way. The included photo log displays all aquatic resources within the AOI as well as typical habitat within the intended AOI.

THRASHER

Ms. Pierce Page 2 of 2 April 17, 2014

The attached slope map depicts that the majority of the pipeline is located along terrain which consists of slope greater than 20 percent. During field investigations, no historical buildings or archaeological resources were discovered onsite.

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

Sincerely,

THE THRASHER GROUP, INC.

JORDAN P. WILCOX Environmental Scientist