

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to ANTERO RESOURCES , 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: #14-219

Date Approved: 05/23/2014

Expires: 05/23/2015

Issued to: ANTERO RESOURCES

**POC: SHAYE MARSHALL
303-357-6412**

**Company Address: 1615 WYNKOOP ST
DENVER, CO**

Project Address: LONG RUN, GREENWOOD

Firm: 54017C0115C

Lat/Long: 39.293853N/80.868987W

Purpose of development:

Issued by: Edwin L. "Bo" Wriston, Doddridge County FPM (or designee)

Date: 05/23/2014

For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.2631, or via email at
doddridgecountyfpm@gmail.com
118 East Court Street; West Union, WV 26456

#14-219
Nichols Compressor
Station

FILED

2014 MAY 20 PM 1:17



May 16, 2014

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

Doddridge County Commission
Attn: Bo Wriston, Doddridge County Floodplain Manager
118 East Court Street, Room 102
West Union, WV 26456

Mr. Wriston:

Antero Resources Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for the proposed Nichols Compressor Station. As shown on the enclosed FIRM MAP 54017C0115C, this project has no proposed construction activities located within the 100 year floodplain

Attached you will find the following:

- Nichols Compressor Station Project Summary- signed and stamped by a certified Project Engineer
- Doddridge County Floodplain Permit Application
- WV Flood Tool Map
- FIRM Map

If you have any questions please feel free to contact me at (303) 357-6412.

*Please Note: We have moved buildings. See new address below.

**1615 Wynkoop St.
Denver, CO 80202**

Thank you in advance.

Sincerely,

A handwritten signature in black ink that reads "Shaye Marshall".

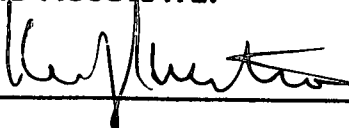
Shaye Marshall
Permit Representative
Antero Resources Corporation

Enclosures

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 

DATE 5/16/2014

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: Antero Resources Corporation - Kevin Kilstrom

ADDRESS: 1625 17th Street, Denver, CO 80202

TELEPHONE NUMBER: Contact Shauna DeMattee 303-357-6820

BUILDER'S NAME: Antero Resources Corporation

ADDRESS: 1625 17th Street, Denver, CO 80202

TELEPHONE NUMBER: (303) 357-7310

ENGINEER'S NAME: Thrasher

ADDRESS: PO Box 940, Bridgeport, WV 26330

TELEPHONE NUMBER: 304-624-7831

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Jerry L Nichols

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) _____

Rt 1 Box 828, Greenwood, WV 26415

DISTRICT: Central

DATE/FROM WHOM PROPERTY

PURCHASED: _____

LAND BOOK DESCRIPTION: See attached Doddridge County Assessor Map - Central District Sheet 06

DEED BOOK REFERENCE: 206/ 41

TAX MAP REFERENCE: See attached Doddridge County Assessor Map - Central District Sheet 06

EXISTING BUILDINGS/USES OF PROPERTY: N/A

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 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 Alteration (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)

*Compressor Station - See attached project summary cover letter

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 \$ N/A - Location is not in 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: N/A - Location is not in the
ADDRESS: floodplain

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: N/A - Location is not in the
ADDRESS: floodplain

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

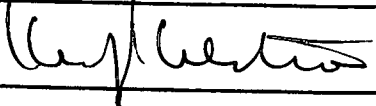
E. CONFIRMATION FORM

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): Kevin Kilstrom, VP of Production

SIGNATURE:  DATE: 5/16/2014

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:

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 _____



Stream 1

WL 1

0.076 acres

WL 2

0.108 acres

WL 3

0.12 acres

WL 4

0.01 acres

WL 5

0.042 acres

Stream

Stream 2

Stream 4

Stream 5

Stream 1

Stream 7 (Long Run)

Stream 6

Stream 3

11

11

Federal 1



Notice to Users: This map should be used only in the community.

PANEL 1 (SEE MAP AND IN WEST FLOOD FIR)

COMMUNITY DODDRIDGE C

CONTAINS:

COMMUNITY DODDRIDGE C

COMMUNITY DODDRIDGE C

COMMUNITY DODDRIDGE C

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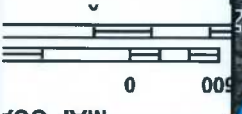
COMMUNITY DODDRIDGE C

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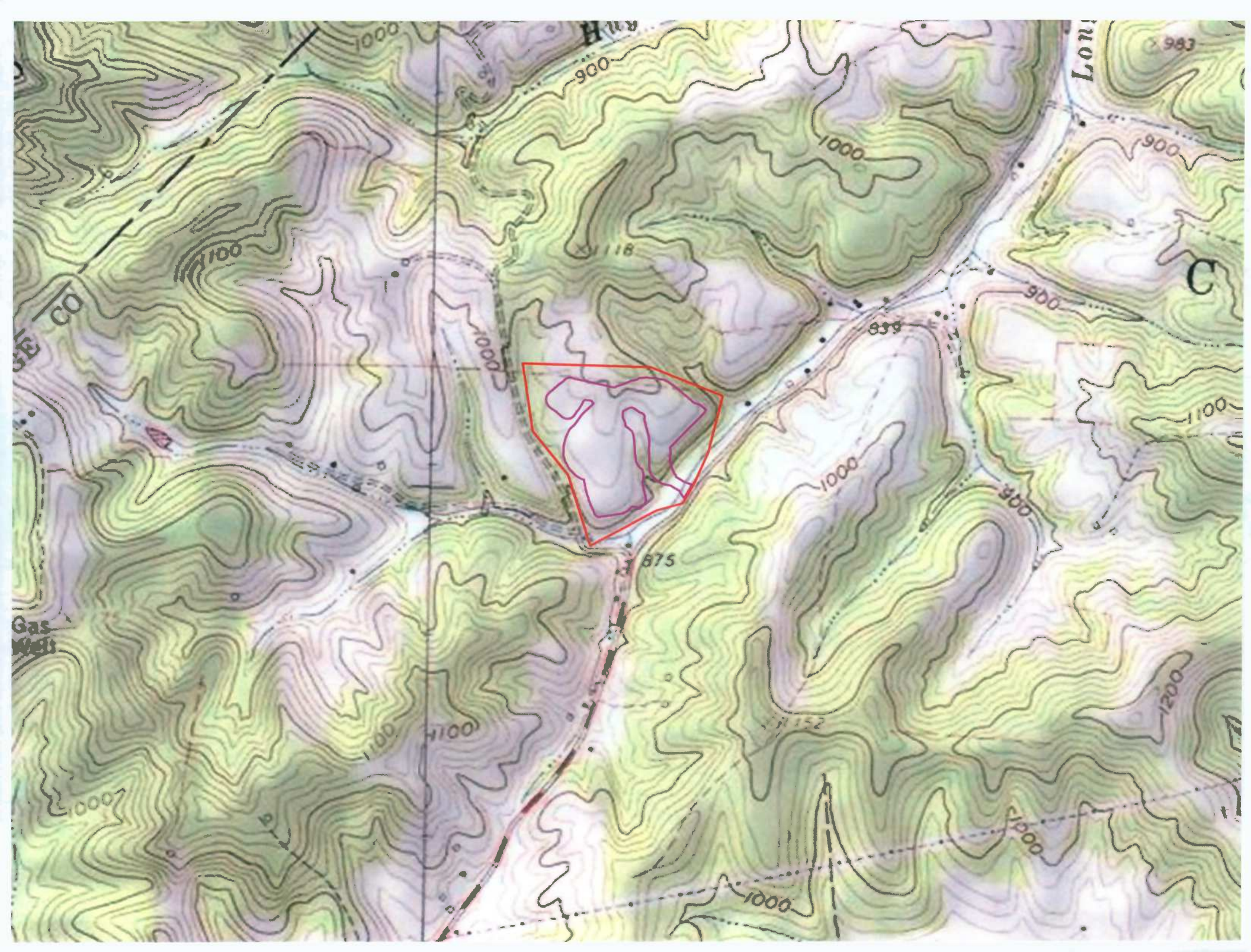
NATIONAL FLOOD INSURANCE PROGRAM



DODDRIDGE COUNTY UNINCORPORATED AREAS 540024

NICHOLS COMPRESSOR STATION
LAT: 39.292778 N
LON: 80.869472 W





**Nichols Compressor
Surface Owners Table**

Project Landowner

DIST NAME	DIST	MAP	PAR	OWNER	ADDRESS	CITY, ST ZIP	LOC	BOOK	PAGE	LEGAL DESC
CENTRAL	1	6	24	NICHOLS JERRY L	RT 1 BOX 828	GREENWOOD, WV 26415	RT 26	206	41	LONG RUN 56.18 AC

Adjacent Landowners

DIST NAME	DIST	MAP	PAR	OWNER	ADDRESS	CITY, ST ZIP	LOC	BOOK	PAGE	LEGAL DESC
CENTRAL	1	6	25	PAYNE ARTHUR G & MELISSA A (SURV)	P O BOX 805	PENNSBORO, WV 26415	RT 26	279	363	LONG RUN 1.11 AC
CENTRAL	1	6	33	PAYNE ARTHUR G & MELISSA A (SURV)	RT 1 BOX 805	PENNSBORO, WV 26415		279	528	LONG RUN .75 AC











A 118 E Court St, West Union, WV 26456

B 39.293853, -80.868987

Route: 10.1 mi, 15 min

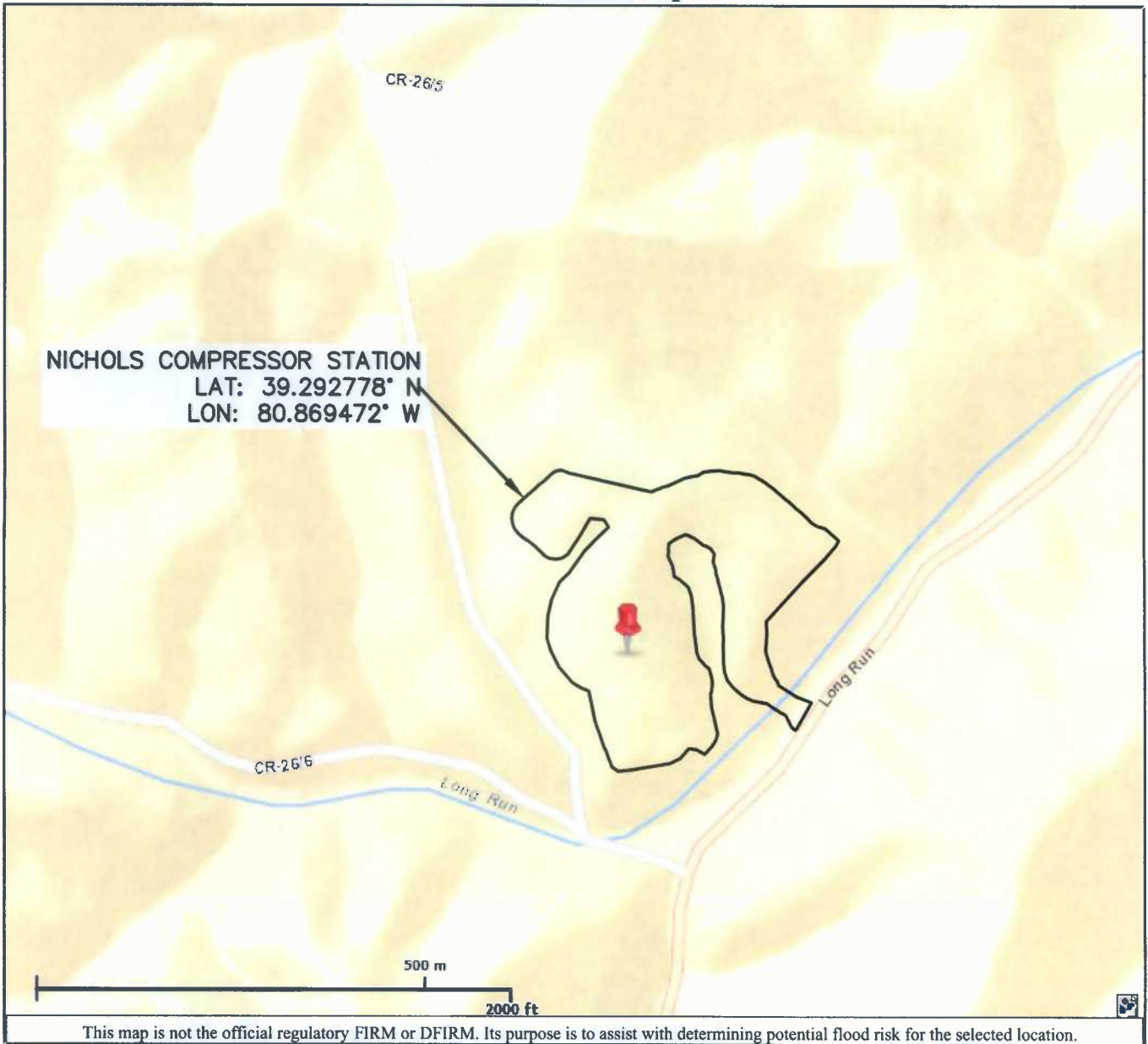
My Notes

 On the go? Use m.bing.com to find maps, directions, businesses, and more

A	118 E Court St, West Union, WV 26456	A-B: 10.1 mi 15 min
	1. Depart E Court St toward Chancery St	0.1 mi
	2. Road name changes to Railroad St	0.2 mi
	3. Turn left onto College Ave , and then immediately turn right onto WV-18	0.4 mi
	4. Turn right onto US-50 W	6.9 mi
	5. Turn right onto Old US-50 / CR-50/30	0.3 mi
	6. Turn right onto Duckworth Rd / CR-36	1.0 mi
	7. Keep straight onto Long Run / CR-26	1.0 mi
	8. Turn left , and then immediately turn right onto CR-26/5	0.3 mi
B	9. Arrive at 39.293853, -80.868987 on the right <i>The last intersection is CR-26/6</i> <i>If you reach Sunshine Rd / CR-56/4, you've gone too far</i>	

These directions are subject to the Microsoft® Service Agreement and for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2014 NAVTEQ™.

WV Flood Map



Map Created on 5/6/2014



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.

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center
(<http://www.MapWV.gov/flood>)

Flood Hazard Area:

Elevation: N/A

Location (long, lat):

Location (UTM 17N):

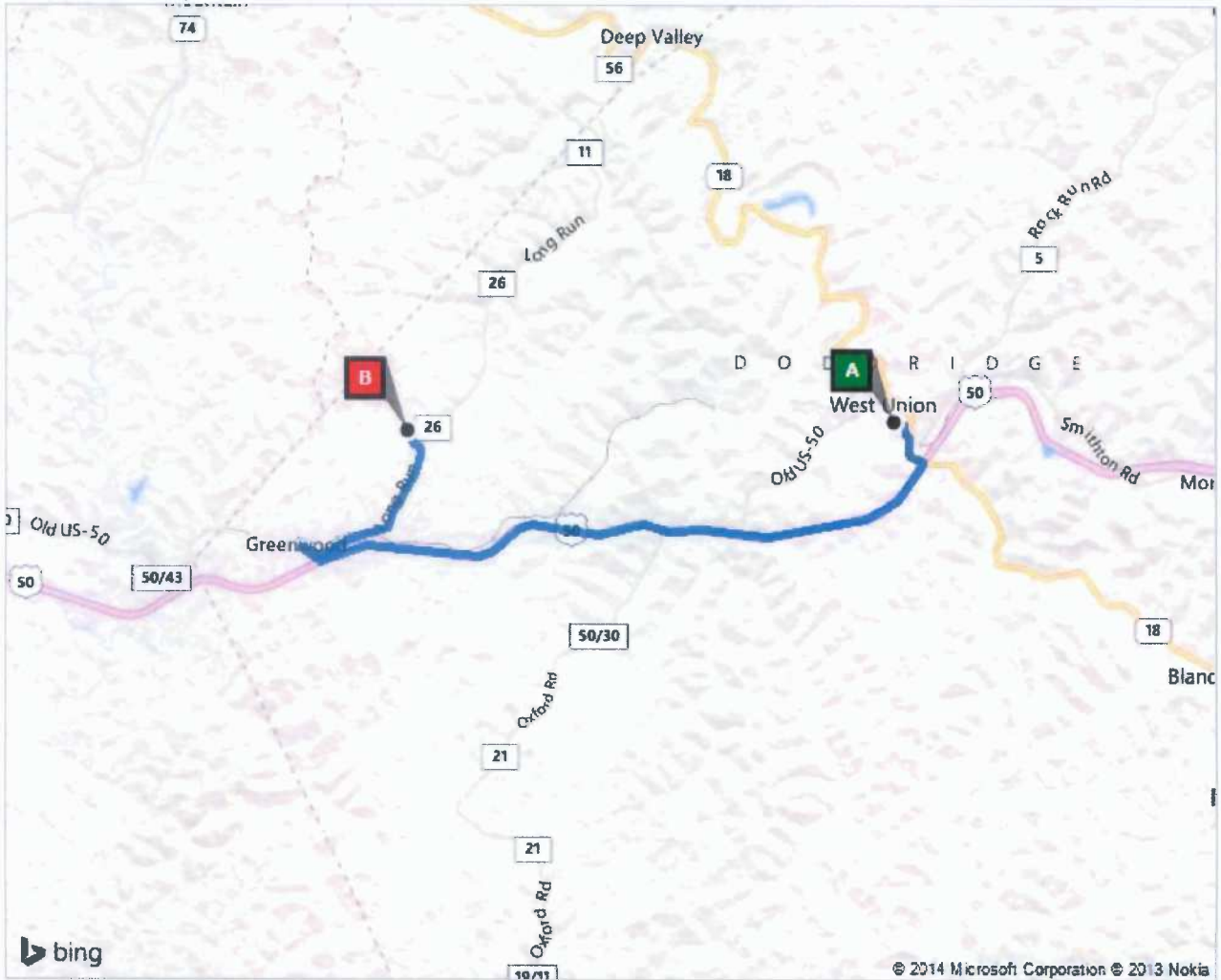
FEMA Issued Flood Map:

Contacts:

CRS Information:

Parcel Number:

Route: 10.1 mi, 15 min



This was your map view in the browser window.

A: 118 E Court St, West Union, WV 26456



B: 39.293853, -80.868987



THRASHER

May 15, 2014

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

**RE: *Doddridge County Floodplain Permit
Antero Resources Corporation
Nichols Compressor Site
Doddridge County, West Virginia
Thrasher Group Project # 101-030-2497***

Mr. Wristen:

On behalf of Antero Resources Corporation (Antero), The Thrasher Group, Inc. (Thrasher) is submitting to your office a project review request and Stream Activity Application for a proposed compressor site project in the USGS West Union 7.5 minute quadrangle of Doddridge County, West Virginia. The proposed Nichols Compressor Site Project will consist of grading the proposed construction limits of disturbance (LOD) to prepare the site for a compressor that will be used to pump gas to distribution stations before entering distribution pipelines that carry the refined natural gas to customers. The proposed Nichols Compressor Site will be located at approximate coordinates 39.293853°N and 80.868987°W. Its associated LOD will cover approximately 22.47 acres.

The proposed Nichols Compressor Project has no proposed construction activities within the 100 year floodplain.

The proposed Nichols Compressor Site will involve one impact to Long Run; consisting of replacing an existing metal pipe culvert with a concrete box culvert, 100 feet in length, in order to allow equipment access to the site. Long Run is a named perennial tributary of Arnold Creek, which is a tributary of Middle Island Creek, a tributary of the Ohio River. The stream channel is approximately eight (8) feet wide at the OHWM and contains a depth of approximately one and one-half (1.5) foot. The stream flows alongside Long Run Road (County Route 26), at approximate coordinates 39.291695°N and 80.866967°W.

THRASHER

Mr. Wristen
Page 2 of 2
May 15, 2014

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. No construction is proposed in the flood plain; therefore, no fees are associated with this permit.

Should you have any questions please do not hesitate to contact me at (304) 326-6366 or ddrennen@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.



Don Drennen
Environmental Scientist

Enclosures (7):
USGS Topographic Map
Aerial Imagery Map
FIRM Map
WV Flood Tool Map
Tax Map
Landowner Table
Driving Directions

Cc: Brett F. Fletcher, Antero Resources

