

Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed 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: #17-464
OXF 157 Bridge "C"

Date Approved: May 8, 2017

Expires: May 8, 2018

Issued to: EQT Production Company

POC: Cory Chalmers
304-848-0061

Company Address: 120 Professional Place, Bridgeport, WV 26330

Project Address: Bluestone Creek off WV CR 13

Firm:

Lat/Long: 39.232986, 80.763942

Purpose of development: OXF 157 Bridge "C"

Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)

Date: May 8, 2017

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

130022

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

333 BALDWIN ROAD
PITTSBURGH, PA 15205
(412) 429-2324

PNC BANK, N.A.
Pittsburgh, PA



8-9/430

CHECK DATE 5/2/2017

PAY One Thousand Eighty and 00/100 Dollars

AMOUNT 1,080.00

TO Doddridge County Commission

COPY

AUTHORIZED SIGNATURE

Security features. Details on back.

⑈ 130022 ⑈ ⑆043000096⑆ 0002272405⑈

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

130022

Check Date: 5/2/2017

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
512017	5/1/2017	000000291063	1,080.00			1,080.00
Doddridge County Commission			TOTAL			1,080.00
- Operating Account	5	11261				

OXF 157 Bridge 'C'

COPY

Check Date: 5/2/2017

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
512017	5/1/2017	000000291063	1,080.00			1,080.00
Doddrige County Commission			TOTAL	1,080.00		1,080.00
- Operating Account	5	11261				

OXF 157 Bridge 'C'
#17-464.

Doddrige County, West Virginia

RECEIPT NO: 9075

DATE: 2017/05/12

FROM: CIVIL & ENVIRONMENTAL

AMOUNT: \$ 1,080.00

ONE THOUSAND EIGHTY DOLLARS AND 00 CENTS

FOR: #17-464 OXF 157 BRIDGE C

00000130022 FP-BUILDING PERMITS

020-318

TOTAL: \$1,080.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy





Doddridge County Floodplain Permits

(Week of April 17, 2017)

Please take notice that on the **12th day of April 2017**, **CEC on behalf of EQT Production Company** filed an application for a Floodplain Permit **#17-464** to develop land located at or about **39.232986N, -80.763942E, Bluestone Creek off WV CR 13**. 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 **May 8, 2017** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is OXF 157 Bridge C.**



Permit# 17-464
Project Name: OXF 157 Bridge
Permittees Name: EQT/CEC

Doddridge County, WV

Floodplain Development Permit Application


This document is to be used for projects that impact/potentially impact 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.

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


4/5/2017

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: EQT Production Company		
Corporate Mailing Address:		
City:	City:	City:
Corporate Point of Contact (POC):		
Corporate POC Title:		
Corporate POC Primary Phone:		
Corporate POC Primary Email:		
Corporate FEIN:	Corporate FEIN:	
Corporate Website:		
Local Mailing Address: 120 Professional Place		
City: Bridgeport	State: WV	Zip: 26330
Local Project Manager (PM): Cory Chalmers		
Local PM Primary Phone: Environmental Coordinator		
Local PM Secondary Phone: 304-848-0061		
Local PM Primary Email: cchalmers@eqt.com		
Person Filing Application: Greg Linder		
Applicant Title: Senior Project Manager		
Applicant Primary Phone: 304-848-7104		
Applicant Secondary Phone: 304-629-9074		
Applicant Primary Email: glinder@cecinc.com		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Project Narrative:

Describe in detail the proposed development including project name/title, type of development, estimated start and completion timeline, and its potential impact on the floodplain. Use additional copies of this page as needed.

Project Narrative:
The EQT – Oxford 157 Well Pad has an access road coming from WV CR 13 to gain access to the well pad. The access road to the pad crosses Bluestone Creek via a concrete shallow ford.
In the current configuration, the ford becomes unpassable during wet weather events. The proposed work involves building a concrete span bridge (Bridge "C") at the location
39.232986°N, -80.763942°E. The bridge will have an open span of 50' to allow truck and equipment traffic to access the well pad safely. The construction of Bridge "C" will result in an increase of the 100-year flood plain by 0.69'. This was determined using LiDAR survey and HEC-RAS modeling of the existing and the proposed conditions.

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Proposed Development:

Please check all elements of the proposed project that apply.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u>	<u>STRUCTURAL TYPE</u>
<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:

- | | | | |
|-------------------------------|---------------------------------|-----------------------------------|-------------------------------------|
| <input type="checkbox"/> Fill | <input type="checkbox"/> Mining | <input type="checkbox"/> Drilling | <input type="checkbox"/> 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)

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)

Property Designation: 1 of 1

Site/Property Information:		
Legal Description: Bluestone 1207.637 AC INT O&G		
Physical Address/911 Address: Off RT 4		
Decimal Latitude/Longitude: 39.234328/-80.764853		
DMS Latitude/Longitude: 39°14'03.58"/-80°45'53.47"		
District: West Union	Map: 23	Parcel: 02
Land Book Description:		
Deed Book Reference: Book 286, Page 313		
Tax Map Reference: 09-08-0023-0002-0000		
Existing Buildings/Use of Property:		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: 1 of 1

Property Owner Data:		
Name of Primary Owner (PO): Mary H. Holland Estate Care of Jane Hardin		
PO Address: 225 Watchung Frk.		
City: Wesfield	State: NJ	Zip: 07090
PO Primary Phone: 908-654-5238		
PO Secondary Phone:		
PO Primary Email:		

Surface Rights Owner Data:		
Name of Primary Owner (PO): Mary H. Holland Estate Care of Jane Hardin		
PO Address: 225 Watchung Frk.		
City: Westfield	State: NJ	Zip: 07090
PO Primary Phone: 908-654-5238		
PO Secondary Phone:		
PO Primary Email:		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Contractor Data:

Please provide all pertinent data for contractors and sub---contractors that may be participating in this project. Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: ____ of ____

Contractor/Sub-Contractor (C/SC) Information:		
C/SC Company Name:		
C/SC WV License Number:		
C/SC FEIN:	C/SC DUNS:	
Local C/SC Point of Contact (POC):		
Local C/SC POC Title:		
C/SC Mailing Address:		
City:	State:	Zip-Code:
Local C/SC Office Phone:		
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		

Engineer Firm Information:		
Engineer Firm Name: Civil and Environmental Consultants, Inc.		
Engineer WV License Number: 19756		
Engineer Firm FEIN: 25-1599565	Engineer Firm FEIN:	
Engineer Firm Primary Point of Contact (POC): Joseph Robinson		
Engineer Firm Primary POC Title: Project Manager		
Engineer Firm Mailing Address: 600 Marketplace Avenue		
City: Bridgeport	State: WV	Zip-Code: 26330
Engineer Firm Office Phone: 304-848-7134		
Engineer Firm Primary POC Phone: 443-366-2606		
Engineer Firm Primary POC E-Mail: jrobinson@cecinc.com		

Adjacent and/or Affected Landowners Data

Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): N/A		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): N/A		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Site Plan

A Site Plan is an accurate and detailed map of the proposed development for this project. It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. **A certified and licensed engineering firm should complete site plans.**

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development access roads)*
10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
12. Location of any existing utilities and/or proposed utility placement and/or displacement.
13. Location, dimensions and depth of any existing or proposed fill on site.
14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE:** All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

Applicant

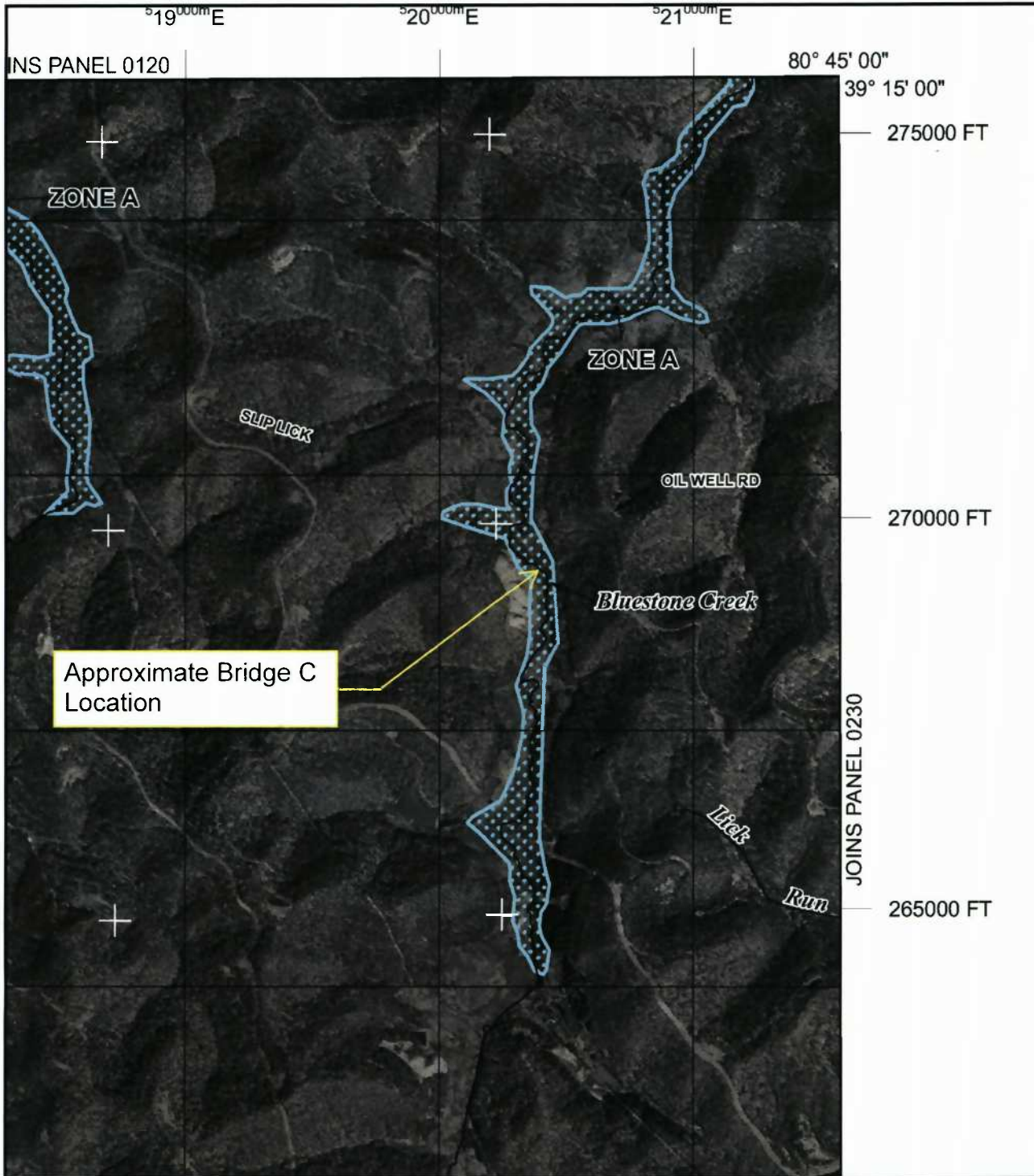
Please read print name, sign and date below:

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and complete.
- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have been properly attained, are current and valid, and must be presented with this application before a Doddridge County Floodplain Permit may be issued.
- I understand that if in the course of the development project additional permits become required that were not needed during the initial proposal, the primary developer must notify the Doddridge County Floodplain Manager within 48 hours of such need, and that a "Stop Work" order may be issued for all project work directly impacting the floodplain or floodway, until such time the required additional permits are acquired.
- I understand that once the floodplain permit is submitted, the application will be entered into official public record at the next regularly scheduled Doddridge County Commission meeting after the date of submittal.
- I understand that from the date of submittal of the fully completed permit application, the Doddridge County Floodplain Manager has ninety (90) days to make a determination to either grant or deny said permit application. During this approval period, the Doddridge County Floodplain Manager may, at his or her discretion, conduct a review and/or additional study of provided documentation by means of an independent engineering firm. All costs associated with said review and/or study must be reimbursed to the County before issuance of approved permit.
- I understand that during the approval period, the Doddridge County Floodplain Manager or designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record at the next scheduled Doddridge County Commission meeting after the date of issuance. Appeals to the permit may be made no later than twenty (20) days after said issuance. If a valid appeal is submitted, as determined by the Doddridge County Floodplain Manager, a "Stop Work" order will be issued for all project development directly involving the floodplain or floodway. A public hearing by the Doddridge County Appeals Board will be scheduled no less than ten (10) days after the next regularly scheduled Doddridge County Commission meeting.
- I understand that all decisions of the Doddridge County Appeals Board shall be final.
- **I understand issuance of a Floodplain Permit authorizes me to proceed with construction as proposed. A Certificate of Compliance is required upon substantial completion of the project.**
- In signing this application, the primary developer hereby grants the Doddridge County Floodplain Manager or designee the right to enter onto the above---described location to inspect the development work proposed, in progress, and/or completed.
- I understand that if I do not follow exactly the site---plan submitted and approved by this permit that a "Stop Work" order may be issued by the Wirt County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

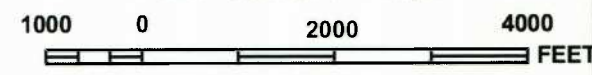
Applicant Signature: _____

Date: _____

Applicant Printed Name: _____



MAP SCALE 1" = 2000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0225C

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

PANEL 225 OF 325
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0225	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
54017C0225C
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

171150 Flood Tool



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

User Notes:

Map created on March 27, 2017

- Flood Hazard Zone
- Flood Point of Interest

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

Flood Hazard Area:

Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.

FEMA Issued Flood Map: 54017C0225C

Watershed (HUC8): Little Musringum-Middle Island

Elevation: About 902 ft

Location (long, lat): (80.763950 W, 39.232838 N)

Location (UTM 17N): (520373, 4342641)

Contacts: Doddridge

CRS Information: N/A

Parcel Number: No Parcel

Bridge "C"



DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

REPLY TO
ATTENTION OF

MAY 02 2017

Regulatory Division
Energy Branch
LRH-2014-00214-OHR-Bluestone Creek

NO PERMIT REQUIRED

Mr. Cory Chalmers
EQT Production Company
120 Professional Place
Bridgeport, West Virginia 26330

Dear Mr. Chalmers:

I refer to the information received in this office on April 27, 2017, regarding a project located off of CR 23/2 near the town of New Milton in Doddridge County, West Virginia. The proposed project coordinates are 39.234327, -80.764852. This project has been assigned file number LRH-2014-00214-OHR-Bluestone Creek. Please refer to this number in any future correspondence regarding this matter.

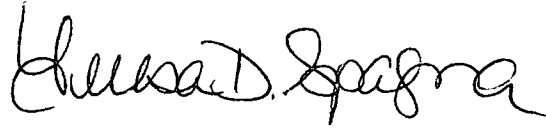
This project has been reviewed in accordance with Section 404 of the Clean Water Act (Section 404) and Section 10 of the Rivers and Harbors Act of 1899 (Section 10). Under Section 404, the United States Army Corps of Engineers (Corps) regulates the discharge of dredged and/or fill material into waters of the United States (U.S.), including wetlands. Under Section 10 our responsibility is to regulate any work in, or affecting, navigable waters of the U.S.

Based on a review of the information provided, the proposed project will involve the replacement of three existing ford crossings used to access the EQT natural gas activities in the area. The construction of the bridges will involve the installation of concrete block wing walls built upon a compact stone foundation. The bridges will span Bluestone Creek and will be constructed above the ordinary high water mark. No dredged and/or fill material will be discharged below the ordinary high water mark of the stream.

We have determined the proposed project will not result in discharge of dredged and/or fill material into waters of the United States or involve work in, on, over or under a navigable water of the United States. Therefore, a Department of the Army permit is not required from this office for the proposed activity. However, if this determination changes and it becomes necessary to perform work in, adjacent to or under navigable waters, or to discharge dredged and/or fill material into waters or navigable waters of the U.S., including wetlands, DA authorization would be required.

We appreciate your concern for our nation's aquatic resources. If you have any questions concerning the above, please contact Rachel A. Klug (304) 399-5858, by mail at the above address or by email at rachel.a.klug@usace.army.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "Teresa D. Spagna". The signature is fluid and cursive, with the first name "Teresa" and the last name "Spagna" clearly legible.

Teresa Spagna
Chief, North Branch



April 13, 2017
Ms. Kelly Kees
WV Department of Environmental Protection
Office of Oil and Gas
601 57th street, se
Charleston, WV 25304

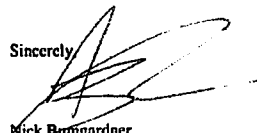
Re: EQT WEU51 and OXF157 Concrete Forded Stream Crossing Replacements

Dear Mr. Kees,

Attached are inspector signed off plans showing locations where EQT is planning on replacing concrete forded stream crossings on two separate EQT well roads. The EQT WEU51 will have one forded crossing replaced with a bridge, and the EQT OXF157 will have three forded crossings replaced with bridges. I have also enclosed the bridge details, email chain with the WVDNR showing the approved modification, and our email chain discussing the details of the project.

If you have any questions, please do not hesitate to contact me at 304-848-0078.

Sincerely,



Mick Baumgardner
Landman II - WV Permitting

Bumgardner, Nick

From: Brooks, Carrie T <Carrie.T.Brooks@wv.gov>
Sent: Monday, April 03, 2017 2:09 PM
To: Bumgardner, Nick
Subject: RE: WEU 51 & OXF 157

Nick,

Correction to the email below: the permit # is LS-13-VI/09-1340.

Thank you,

Carrie Brooks
WV DNR
Office of Land and Streams
324 4th Avenue, Room 200
South Charleston, WV 25303
(304) 558-3225
Carrie.t.brooks@wv.gov

-----Original Message-----

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Monday, April 03, 2017 2:02 PM
To: Brooks, Carrie T
Subject: RE: WEU 51 & OXF 157

Thanks!

-----Original Message-----

From: Brooks, Carrie T [mailto:Carrie.T.Brooks@wv.gov]
Sent: Monday, April 03, 2017 2:00 PM
To: Bumgardner, Nick <NBumgardner@eqt.com>
Subject: RE: WEU 51 & OXF 157

Nick,

We have received and approve the changes listed below to permits LS-16-VI/09-1340 and LS-14-VI/09-53. These changes have been added to your file.

Thank you,

Carrie Brooks
WV DNR
Office of Land and Streams
324 4th Avenue, Room 200
South Charleston, WV 25303

(304) 558-3225
Carrie.t.brooks@wv.gov

-----Original Message-----

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Monday, April 03, 2017 1:57 PM
To: Brooks, Carrie T
Subject: RE: WEU 51 & OXF 157

They are modifications to existing structures.

-----Original Message-----

From: Brooks, Carrie T [mailto:Carrie.T.Brooks@wv.gov]
Sent: Monday, April 03, 2017 1:55 PM
To: Bumgardner, Nick <NBumgardner@eqt.com>
Subject: RE: WEU 51 & OXF 157

Nick,

Are the below crossings new additional crossings or modification to previously permitted crossings? If they are new crossings, I will need a new stream activity application per project. If they are modifications to the original permitted crossing, I can add the information to our file and send you an email confirming we received and approve of the changes. If you have any questions, please let me know.

Thank you,

Carrie Brooks
WV DNR
Office of Land and Streams
324 4th Avenue, Room 200
South Charleston, WV 25303
(304) 558-3225
Carrie.t.brooks@wv.gov

-----Original Message-----

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Monday, March 27, 2017 9:30 AM
To: Brooks, Carrie T
Subject: Fwd: WEU 51 & OXF 157

Carrie,

See comments below for the narratives you requested. I am out of the office today but wanted to see that you received this.

Sent from my iPhone

Begin forwarded message:

From: "Robinson, Joseph" <jrobinson@cecinc.com<mailto:jrobinson@cecinc.com>>
Date: March 24, 2017 at 4:06:48 PM EDT
To: "Bumgardner, Nick" <NBumgardner@eqt.com<mailto:NBumgardner@eqt.com>>
Cc: "AMulcahy@eqt.com<mailto:AMulcahy@eqt.com>" <AMulcahy@eqt.com<mailto:AMulcahy@eqt.com>>
Subject: RE: WEU 51 & OXF 157

Nick:
Please see the below commentary for the request.

The existing concrete fords will remain in place in their current conditions; we are not proposing to make any modifications to the existing crossings.

On project WEU 51 the following will be completed for the proposed bridge:
Crossing will consist of a concrete abutment (2'x1.5' concrete pedestal and 0.5' x 7' thicken slab) that will be doweled in to the existing concrete ford mat which will be outside of the existing stream banks, then bin block walls will be placed adjacent to the concrete abutments for aggregate retention, a 100' bridge will be placed on the abutments and aggregate will be used to complete the approach grade to the bridge deck. The final step will be placing some addition riprap for drainage control.

On project OXF 157 the following will be completed for each proposed bridge:
Crossing B will consist of a concrete abutment (2'x2' concrete pedestal) that will be doweled in to the existing concrete ford mat which will be outside of the existing stream banks, then bin block walls will be placed adjacent to the concrete abutments for aggregate retention, a 60' bridge will be placed on the abutments and aggregate will be used to complete the approach grade to the bridge deck. The final step will be placing some addition riprap for drainage control.

Crossing C will consist of a concrete abutment (2'x2' concrete pedestal) that will be doweled in to the existing concrete ford mat which will be outside of the existing stream banks, then bin block walls will be placed adjacent to the concrete abutments for aggregate retention, a 50' bridge will be placed on the abutments and aggregate will be used to complete the approach grade to the bridge deck. The final step will be placing some addition riprap for drainage control.

Crossing D will consist of a concrete abutment (2'x2' concrete pedestal) that will be doweled in to the existing concrete ford mat which will be outside of the existing stream banks, then bin block walls will be placed adjacent to the concrete abutments for aggregate retention, a 50' bridge will be placed on the abutments and aggregate will be used to complete the approach grade to the bridge deck. The final step will be placing some addition riprap for drainage control.

Thanks,
Joseph

Joseph D. Robinson, P.E. / Project Manager Civil & Environmental Consultants, Inc.
600 Marketplace Ave * Suite 200 * Bridgeport, WV 26330
Toll-Free: (855) 488-9539 * Direct: (304) 848-7134 * Fax: (304) 933-3327
Mobile: (443) 366-2606 * <http://www.cecinc.com> Senior Leadership * Integrated Services * Personal Business Relationships

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Thursday, March 23, 2017 9:03 AM
To: Mulcahy, Allen; Robinson, Joseph
Subject: FW: WEU 51 & OXF 157

Allen/Joseph,

See highlighted below... Will need this question answered before we can proceed.

Thanks,

Nick.

From: Brooks, Carrie T [mailto:Carrie.T.Brooks@wv.gov]
Sent: Wednesday, March 22, 2017 9:29 AM
To: Bumgardner, Nick <NBumgardner@eqt.com<mailto:NBumgardner@eqt.com>>
Subject: RE: WEU 51 & OXF 157

Nick,

Can you give me the permit numbers for these project changes? Also we will need to know the exact changes that are being proposed, so that we have it in writing.

Thank you,

Carrie Brooks
WV DNR
Office of Land and Streams
324 4th Avenue, Room 200
South Charleston, WV 25303
(304) 558-3225
Carrie.t.brooks@wv.gov<mailto:Carrie.t.brooks@wv.gov>

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Monday, March 20, 2017 11:22 AM
To: Brooks, Carrie T
Cc: Mulcahy, Allen; Chalmers, Cory M.; Payne, Johnny M.
Subject: FW: WEU 51 & OXF 157

Carrie,

Per our phone conversation last week, attached are the modifications that EQT would like to make on two existing EQT DNR Permits. I have attached two files, one for the WEU51 and one for the OXF157. If you need anything further, or any further explanation please let me know.

Thanks,

Nick Bumgardner
Landman II - Permitting
Nbumgardner@eqt.com<mailto:Nbumgardner@eqt.com>
Office: (304) 848-0078
Cell: (304) 627-9242
Schedule A
{Description: cid:image002.jpg@01C04E1C.1EB74330}

Bumgardner, Nick

From: Kees, Kelly L <Kelly.L.Kees@wv.gov>
Sent: Friday, March 17, 2017 1:29 PM
To: Bumgardner, Nick
Subject: RE: Bridge Upgrades on Well Roads

Ok good deal. Have a great weekend!

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Friday, March 17, 2017 1:00 PM
To: Kees, Kelly L <Kelly.L.Kees@wv.gov>
Subject: RE: Bridge Upgrades on Well Roads

Will send you something next week.

From: Kees, Kelly L [mailto:Kelly.L.Kees@wv.gov]
Sent: Friday, March 17, 2017 12:59 PM
To: Bumgardner, Nick <NBumgardner@eqt.com>
Subject: RE: Bridge Upgrades on Well Roads

Okay. Just sent me the plans and in the cover letter mention getting your DNR OLS permit changed so we have something on record. Send a copy out to the county inspector too. Just so he's aware of the changes.

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Friday, March 17, 2017 12:56 PM
To: Kees, Kelly L <Kelly.L.Kees@wv.gov>
Subject: RE: Bridge Upgrades on Well Roads

Kelly,

Both sites have active permits, I think they also have producing wells. LOD's will not change.

Nick.

From: Kees, Kelly L [mailto:Kelly.L.Kees@wv.gov]
Sent: Friday, March 17, 2017 12:52 PM
To: Bumgardner, Nick <NBumgardner@eqt.com>
Subject: RE: Bridge Upgrades on Well Roads

I just need the plans with the changes. If the LOD hasn't changed then a modification won't be necessary. Are both sites associated with wells with active permits?

From: Bumgardner, Nick [mailto:NBumgardner@eqt.com]
Sent: Friday, March 17, 2017 11:21 AM
To: Kees, Kelly L <Kelly.L.Kees@wv.gov>; Adkins, Laura L <Laura.L.Adkins@wv.gov>
Subject: Bridge Upgrades on Well Roads

Kelly/Laura,

EQT is wanting to upgrade some low water concrete stream crossings to conventional bridges on two of our well roads. I wanted to know what the office of oil and gas would need from us to stay in compliance. I have DNR OLS permits currently for the low water crossings, and I am in the process of getting modified DNR OLS permits for the new bridges. I have site plans and construction details outlining our plans for the bridges, what else would you anticipate needing from us for this project?

Thanks,

Nick Bumgardner
Landman II - Permitting
Nbumgardner@egt.com
Office: (304) 848-0078
Cell: (304) 627-9242
Schedule A

 **EQT** Where energy meets innovation.



George Eidel <doddridgecountyfpm@gmail.com>

171-149 WEU 51 and 171-150 OXF 157 EQT Application Checks

Robinson, Joseph <jrobinson@cecinc.com>

Fri, May 5, 2017 at 10:46 AM

To: "doddridgecountyfpm@gmail.com" <doddridgecountyfpm@gmail.com>

Cc: "Chalmers, Cory M." <CChalmers@eqt.com>

George:

The following checks amounts should be associated with the noted bridge applications:

WEU 51 bridge \$1935.00
OXF 157 Bridge B \$1175.00
OXF 157 Bridge C \$1080.00
OXF 157 Bridge D \$1090.00

Let me know if you have any questions or need additional clarification.

Thanks,
Joseph

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