

# Commercial/Industrial Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit has been issued to EQT Production Company, 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: #14-129 EQT OXF 157 Well Line (Addendum)**

**Date Approved: 08/26/2014**

**Expires: N/A**

**Issued to: EQT Production Company**

**POC: Megan Landfried  
304-848-0061**

**Company Address: 115 Professional Place  
Bridgeport, WV 26330**

**Project Address: New Milton District**

**Firm: N/A**

**Lat/Long:**

**Purpose of development: Pipeline. *Project is addendum to existing permit.***

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

**Date: 08/26/2014**

---

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

---

PERMIT NO. 14-129

**DODDRIDGE COUNTY**  
**FLOODPLAIN DEVELOPMENT**  
**PERMIT**

PURPOSE FOR PERMIT: Installing of well Line

ISSUED TO EQT

115 Professional Place  
ADDRESS: Bridgeport, WV 26330

PROJECT ADDRESS: Maxwell Ridge - Southwest Dist.

ISSUED BY: Ralph [Signature]

DATE: 3-11-14

CONSTRUCTION MUST START WITHIN 180 DAYS FROM ISSUED DATE. PERMIT EXPIRES IN 12 MONTHS FROM ISSUED DATE. IF EXTENSION IS NEEDED A REQUEST MUST BE MADE IN WRITING STATING A REASON FOR THE EXTENSION.

THIS PERMIT MUST BE POSTED ON THE PREMISES IN A CONSPICUOUS PLACE SO AS TO BE CLEARLY VISIBLE FROM THE STREET.

# Doddridge County, West Virginia

RECEIPT NO: 1537

DATE: 2014/02/25

FROM: POTESTA & ASSOCIATES

AMOUNT: \$ 2,460.00

TWO THOUSAND FOUR HUNDRED SIXTY DOLLARS AND 00 CENTS

FOR: #14-129 OXF 157 WELL LINE

00000012196 FP-BUILDING PERMITS

020-318

TOTAL: \$2,460.00

MICHAEL HEADLEY  
SHERIFF & TREASURER

MEC  
CLERK

Customer Copy

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 18<sup>th</sup> day of February, 2014

**EQT PRODUCTION COMPANY**

**EQT OXF 157 WELL LINE - PERMIT # 14-129**

filed an

application for a Floodplain Permit to develop land located at or

about: **SURFACE OWNERS: JUSTIN L. HENDERSON**

**SOUTHWEST DISTRICT – MAXWELL RIDGE – W/B 29/224**

**TAX MAP – 07-06-01.**

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 **March 10, 2014.**

Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Ralph Sandora, Jr., Doddridge County Flood Plain Manager

TRANSACTION REPORT

P. 01

FEB-17-2014 MON 12:03 PM

FOR: DODDRIDGE CO. CLERK

304 873 1840

SEND

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
FEB-17	12:02 PM	3048731600	25"	1	FAX TX	OK	894	

TOTAL : 25S PAGES: 1

Legal Advertisement:

Doddridge County

Floodplain Permit Application

*Called Dianna  
12:30 2/17/14*

Please take notice that on the 18<sup>th</sup> day of February, 2014

**EQT PRODUCTION COMPANY**

**EQT OXF 157 WELL LINE - PERMIT # ~~14-128~~ 14-129**

filed an

application for a Floodplain Permit to develop land located at or

about: **SURFACE OWNERS: JUSTIN L. HENDERSON**

**SOUTHWEST DISTRICT - MAXWELL RIDGE - W/B 29/224**

**TAX MAP - 07-06-01.**

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 **March 10, 2014.**

Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Ralph Sandora, Jr., Doddridge County Flood Plain Manager



# Engineers and Environmental Consultants

# 14-129

7012 MacCorkle Avenue, SE, Charleston, WV 25304 • (304)342-1400 • FAX (304)343-9031; www.potesta.com

February 5, 2014

Mr. Dan Wellings  
Doddridge County Floodplain Coordinator  
Doddridge County Commission  
118 East Court Street  
West Union, West Virginia 26456

RE: Floodplain Permit Application  
EQT Production Company  
EQT OXF 157 Well Line  
Doddridge County, West Virginia  
POTESTA Project No. 0101-11-0147-15703

FILED  
2014 FEB 10 PM 12:47  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

Dear Mr. Wellings:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this cover letter with the associated Floodplain Development Permit Application for the proposed OXF 157 Well Line Project. The proposed project will consist of installing approximately 4,772 linear feet of well line, installation of a power line, and upgrading of existing access roads. Based on information presented on the site FIRM, a portion of the project is located within FEMA Flood Zone A from approximate well line stations 0+00 to 12+00, 17+00 to 21+00, 27+00 to 47+72, portion of work areas, and access roads as shown on the attached Drawing Nos. 3, 4 and 5. The work areas for this project are typically used to layout and assemble gas line fixture and are associated with minimal disturbance. The access road upgrades consist of widening and re-graveling of the roadway surface. Flood Zone A is the regulatory floodplain associated with the Base Flood (1 percent annual chance flood event), commonly referred to as the 100-year floodplain and indicates that the limits of the floodplain are approximate; as such, Base Flood Elevations (BFEs) have not been previously established by FEMA. Work within the floodplain associated with this well line shall include the installation of a stabilized construction entrance, installation of water bars to control surface runoff, and installation of a buried well line. All work associated with the proposed OXF 157 Well Line within the limits of the floodplain will be in accordance with the following. No permanent aboveground structures are to be constructed within the floodplain. Backfill being installed over the buried pipe will be compacted back to the original grade. Any stabilized construction entrances to be installed within the floodplain shall be installed by removing existing material to a depth suitable for installing the entrances so that the top of the gravel surface is at original grade elevations. Once construction is complete, the entrance will be removed and replaced with topsoil back to original grade. Any excess material associated with this activity shall be placed outside of the floodplain limits. No fill shall be placed within the floodplain limits above original elevations.

**POTESTA & ASSOCIATES, INC.**

Charleston, West Virginia ° Morgantown, West Virginia ° Winchester, Virginia

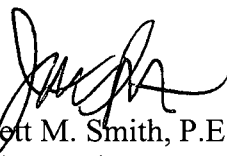
Mr. Dan Wellings  
February 5, 2014  
Page 2

Included with this permit application are floodplain map, site plan sheets, and miscellaneous detail sheets for this project.

If you have any questions, please feel free to contact me at (304) 342-1400 or [jmsmith@potesta.com](mailto:jmsmith@potesta.com), or Megan Landfried (EQT) at (304) 848-0061.

Sincerely,

POTESTA & ASSOCIATES, INC.

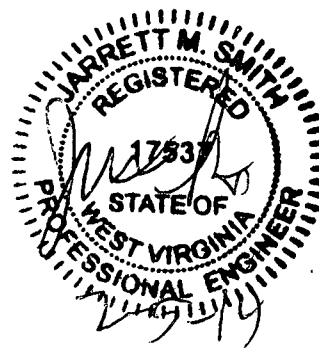


Jarrett M. Smith, P.E.  
Senior Engineer

JMS:JWS/clr

Enclosures

c: Ms. Megan Landfried – EQT (via email)



14-129

EQT Gathering, LLC  
EQT-0XP 157  
Well Line

**DODDRIDGE COUNTY  
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION**

BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

2014 FEB 10 PM 12:47

FILED

**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 Megan S. Joseph

DATE 2/4/14

**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: EQT Gathering, LLC**  
**ADDRESS: 115 Professional Place, Bridgeport, WV 26330**  
**TELEPHONE NUMBER: 304-848-0061**



**BUILDER'S NAME: EQT Gathering, LLC**  
**ADDRESS: 115 Professional Place, Bridgeport, WV 26330**  
**TELEPHONE NUMBER: 304-848-0061**

**ENGINEER'S NAME: POTESTA and Associates**  
**ADDRESS: 7012 MacCorkle Ave, SE, Charleston, WV 25304**  
**TELEPHONE NUMBER: 304-342-1400**

**PROJECT LOCATION:**

**NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Justin L. Henderson**  
**ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) P. O. Box 1230 Fairmont, WV 26555**

**DISTRICT: Southwest**

**DATE/FROM WHOM PROPERTY PURCHASED: May 26, 1998/Ethel Eleanor Day Henderson**

**LAND BOOK DESCRIPTION: See Will Book 29/224**

**DEED BOOK REFERENCE: Recorded in Outside of County Death Record 2/616**

**TAX MAP REFERENCE: 07-06-01**

**EXISTING BUILDINGS/USES OF PROPERTY: Forest, Farming, and Hunting**

**NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Vacant Forest, Farming, and Hunting**

**ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: No one living at residence**

---

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**

New Structure

Residential (1 – 4 Family)

- |  |   |
|--|---|
| <input type="checkbox"/> Addition                | <input type="checkbox"/> Residential (more than 4 Family) |
| <input type="checkbox"/> Alteration              | <input type="checkbox"/> Non-residential (floodproofing)  |
| <input type="checkbox"/> Relocation              | <input type="checkbox"/> Combined Use (res. & com.)       |
| <input type="checkbox"/> Demolition              | <input type="checkbox"/> Replacement                      |
| <input type="checkbox"/> Manufactured/Mobil Home |   |

**B. OTHER DEVELOPMENT ACTIVITIES:**

- Fill                     Mining                     Drilling                     Pipelining  
 Grading  
 Excavation (except for STRUCTURAL DEVELOPMENT checked above)  
 Watercourse Altercation (including dredging and channel modification)  
 Drainage Improvements (including culvert work)  
 Road, Street, or Bridge Construction  
 Subdivision (including new expansion)  
 Individual Water or Sewer System  
 Other (please specify)
- 

**C. STANDARD SITE PLAN OR SKETCH**

1. SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED.
2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:  
 SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.
3. SIGN AND DATE THE SKETCH.

**ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$ 392,000.00**

**D. ADJACENT AND/OR AFFECTED LANDOWNERS:**

1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM)

**WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED).**

None 1,602.90 Acres

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.**

None 1,602.90 Acres

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): Megan E. Landfried

SIGNATURE: Megan E. Landfried DATE: 2/4/14

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: 225 C  
Dated: 10-4-11

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 Ralph Sander DATE 3-11-14

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



# OXF 157



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 2/5/2014

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

**Flood Zone:** A

**Advisory Flood Height:** About 927 feet

**Water Depth:** About 0.92 feet (Source: HEC\_RAS)

**Elevation:** About 927 feet

**Location (long, lat):** 80.764707 W, 39.224789 N

**Location (UTM 17N):** (520310, 4341749)

**FEMA Issued Flood Map:** 54017C0225C

**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Flood Profile:** No Profile

**HEC-RAS Model:** No Model

**Parcel Number:**

MATCHLINE STA. 19+50 SEE SHEET 4

No.	Date	Revision

DESIGN  
CAD File No.  
JM  
Drawn  
JWS  
Checked  
JMS  
Approved  
1" = 100'  
Scale:  
JAN 2014  
Date:  
11-0147-157  
Project No.

POTESTA & ASSOCIATES, INC.  
ENGINEERS AND ENVIRONMENTAL CONSULTANTS  
7015 MacCarroll Ave. SE, Charleston, WV 25304  
TEL: (304) 342-1400 FAX: (304) 342-9031  
E-Mail: Address: potesta@potesta.com

**POTESTA**

ISSUE DATE 2/5/2014

Client  
EQT PRODUCTION COMPANY  
115 PROFESSIONAL PLACE  
BRIDGEPORT, WEST VIRGINIA

Title  
PLAN SHEET  
EQT OXF 157 WELL LINE  
EROSION & SEDIMENT CONTROL PLAN  
DODDRIDGE COUNTY, WEST VIRGINIA

Drawing No. 3

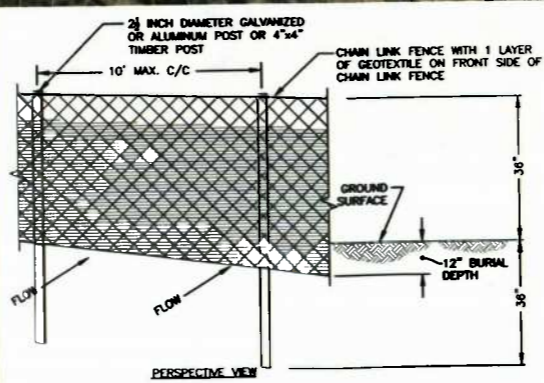


**NOTES:**

- BASE MAPPING TAKEN FROM WVGIS SAMB, FROM AERIAL PHOTOGRAPHY DEVELOPED IN 2003. THE SCALE OF THE BASE MAPPING IS APPROXIMATE. ACTUAL LOCATIONS OF EXISTING FEATURES MAY VARY.
- WEEKLY VISUAL INSPECTION OF THE SEDIMENT CONTROL MEASURES SHALL BE CONDUCTED TO VERIFY THEY ARE FUNCTIONING PROPERLY. SILT FENCE, IF REMOVED TO ALLOW CONSTRUCTION ACTIVITIES, SHALL BE REPLACED AT THE END OF EACH WORK DAY. SEDIMENT STRUCTURES SHALL BE CLEANED ONCE THE STORAGE CAPACITY HAS BEEN REDUCED BY 50%.
- THE SITE SHALL BE INSPECTED ON A REGULAR BASIS TO ENSURE INTEGRITY OF GRADED SURFACES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE DEVICES. THIS INSPECTION SHOULD BE PERFORMED AT A MINIMUM OF ONCE EVERY SEVEN CALENDAR DAYS, AND SHALL OCCUR WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL PER 24-HOUR PERIOD UNTIL THE SITE HAS BEEN STABILIZED. ANY REQUIRED REPAIRS OR MAINTENANCE WILL BE MADE IMMEDIATELY.
- DISTURBED AREAS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF WORKING.
  - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
  - WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
  - WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
  - AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDING IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
- EROSION & SEDIMENT CONTROLS SHALL BE INSTALLED IN LOCATIONS DOWN SLOPE FROM THE DISTURBED AREAS AS A FIRST MEASURE OF CONSTRUCTION. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DAMAGED, DECOMPOSED OR OTHERWISE INEFFECTIVE SILT FENCE SHALL BE REPLACED. SEDIMENT DEPOSITS SHOULD BE REMOVED AS REQUIRED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF OF THE BARRIER HEIGHT. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER NEEDED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE AND STABILIZED. CONTRACTOR MAY USE COMPOST FILTER SOCKS AS AN ALTERNATIVE TO SILT FENCE.
- DEVICES LISTED HEREIN ARE CONSIDERED MINIMUM EROSION AND SEDIMENT CONTROLS. ADDITIONAL CONTROL MEASURES MAY BE NECESSARY DUE TO CONTRACTOR PHASING OR OTHER UNFORESEEN CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL MEASURES IN ADDITION TO THOSE SHOWN, AS NEEDED, IN ORDER TO CONTROL EROSION AND CONTAIN SEDIMENT ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING PUBLIC ROADS IN A CLEAN, DUST AND MUD FREE CONDITION AT THE SITE.
- ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOURS, PERPENDICULAR TO THE FLOW OF WATER. SEE DETAIL ON DRAWING NO. 6.
- WATERBARS SHOWN ARE FOR PRESENTATION AND ARE NOT SHOWN IN THE ACTUAL PROPOSED LOCATIONS. A DETAIL OF THE PROPOSED WATERBAR IS SHOWN ON DRAWING NO. 7. WATERBARS SHALL BE INSTALLED ALONG THE ACCESS ROADS AND DISTURBED PORTIONS OF THE PIPELINE RIGHT-OF-WAY AT THE FOLLOWING SPACING:
 

ROAD GRADE (%)	DISTANCE BETWEEN WATERBARS (FT.)
1	400
2	250
5	135
10	80
15	60
20	45
30	35

NOTE: ROADS THAT ARE COVERED WITH STONE MAY NOT REQUIRE WATERBARS.
- PROPOSED UPGRADES TO EXISTING ACCESS ROADS SHALL INCLUDE MINOR GRADING, EXTENDING OF EXISTING CULVERTS WHERE APPLICABLE AND PLACEMENT OF AGGREGATE, COMPOST FILTER SOCK SHALL BE INSTALLED DOWN GRADIENT PRIOR TO EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH THE ACCESS ROAD UPGRADES.
- TRENCH BREAKERS AND OTHER CONTROLS SHALL BE USED AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AT ALL STREAM CROSSINGS WHERE FLOWING WATER IS PRESENT. CONTRACTOR SHALL SELECT ONE OF THE TWO STREAM CROSSING DETAILS SHOWN ON DRAWING NO. 8 BASED ON FIELD CONDITIONS.
- PIPELINE TRENCH BREAKERS MUST BE INSTALLED WHEN CROSSING STREAMS, WETLANDS, OR OTHER WATER BODIES. PLUGS SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. SEE "PIPELINE TRENCH BREAKER INSTALLATION DETAIL" ON DRAWING NO. 8.
- WORK AREAS WILL BE USED TO LAYOUT AND ASSEMBLE GAS LINE FIXTURES. MINIMAL EARTH DISTURBANCE IS EXPECTED, HOWEVER, EROSION AND SEDIMENT CONTROL WILL BE INSTALLED AS IF THE ENTIRE AREA WILL BE DISTURBED. DISTURBED AREAS WITHIN THE WORK AREAS WILL BE VEGETATED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND S.W.P.F.P.
- BASED ON INFORMATION PRESENTED ON THE SITE FROM THE PROJECT IS LOCATED WITHIN FEMA FLOOD ZONE A, WHICH IS THE REGULATORY FLOODPLAIN ASSOCIATED WITH THE BASE FLOOD (1 PERCENT ANNUAL CHANCE FLOOD EVENT), COMMONLY REFERRED TO AS THE 100-YEAR FLOODPLAIN. FLOOD ZONE A INDICATES THAT THE LIMITS OF THE FLOODPLAIN ARE APPROXIMATE, AS SUCH, BASE FLOOD ELEVATIONS (BFE'S) HAVE NOT BEEN PREVIOUSLY ESTABLISHED BY FEMA. ALL WORK ASSOCIATED WITH THE PROPOSED OXF 157 WELL LINE WITHIN THE LIMITS OF THE FLOODPLAIN WILL BE IN ACCORDANCE WITH THE FOLLOWING. NO PERMANENT ABOVE GROUND STRUCTURES ARE TO BE CONSTRUCTED WITHIN THE FLOODPLAIN. BACKFILL BEING INSTALLED OVER THE BURIED PIPE WILL BE COMPACTED BACK TO ORIGINAL GRADE. ANY STABILIZED CONSTRUCTION ENTRANCES TO BE INSTALLED WITHIN THE FLOODPLAIN SHALL BE INSTALLED BY REWORKING EXISTING MATERIAL TO A DEPTH SUITABLE FOR INSTALLING THE ENTRANCES SO THAT THE TOP OF THE GRAVEL SURFACE IS AT ORIGINAL GRADE ELEVATIONS. EXCESS MATERIAL ASSOCIATED WITH THIS ACTIVITY SHALL BE PLACED OUTSIDE OF THE FLOODPLAIN LIMITS. NO FILL SHALL BE PLACED WITHIN THE FLOODPLAIN LIMITS ABOVE ORIGINAL ELEVATIONS.

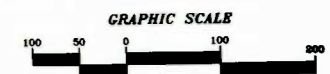


- NOTES:**
- CHAIN LINK FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. CHECK AFTER EACH STORM AND REMOVE SEDIMENT.
  - CHAIN LINK FENCE AND GEOTEXTILE SHALL BE EMBEDDED 12 INCHES IN THE GROUND. TRENCH SHALL BE BACKFILLED.
  - FENCE POSTS DO NOT NEED SET IN CONCRETE.

**SUPER SILT FENCE DETAIL** ①/3  
NO SCALE

**LEGEND**

SYMBOL	DESCRIPTION
	STREAMS
	EXISTING PIPELINE
	PROPOSED PIPELINE
	PROPOSED SUPER SILT FENCE
	PROPOSED SILT FENCE
	PROPOSED COMPOST FILTER SOCK
	PROPOSED WATERBAR
	PERMANENT RIGHT-OF-WAY/ASSESS ROAD LIMITS OF CONSTRUCTION
	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
	EXISTING FLOODPLAIN
	APPROXIMATE LOCATION OF EXISTING CULVERT
	PROPOSED PIPELINE TRENCH BREAKER
	PROPOSED STONE CONSTRUCTION ENTRANCE
	PROPOSED WORK AREAS (SEE NOTE 13)



MAPPING REFERENCE:  
BASE TOPOGRAPHIC MAPPING TAKEN FROM WVGIS SAMB AERIAL MAPPING, DATED 2003.

**PRELIMINARY**

DATE: 01/14/14, 11:52 AM  
DRAWN BY: JWS  
CHECKED BY: JMS  
APPROVED BY: JMS  
PROJECT: EQT OXF 157 WELL LINE  
SHEET: 3 OF 3

MATCHLINE STA. 41+00 SEE SHEET 5

No.	Date	Revision

DESIGN  
CAD File No.  
JM  
Drawn  
JWS  
Checked  
JMS  
Approved  
1" = 100'  
Scale:  
JAN 2014  
Date:  
11-0147-157  
Project No.

POTESTA & ASSOCIATES, INC.  
CONSULTANTS  
7015 MacArthur Ave. SE, Charleston, WV 25304  
TEL: (304) 343-1400 FAX: (304) 343-9031  
E-Mail: potesta@potesta.com

**POTESTA**

ISSUE DATE 2/5/2014

Client

EQT PRODUCTION COMPANY  
115 PROFESSIONAL PLACE  
BRIDGEPORT, WEST VIRGINIA

Title

PLAN SHEET  
EQT OXF 157 WELL LINE7  
EROSION & SEDIMENT CONTROL PLAN  
DODDRIDGE COUNTY, WEST VIRGINIA

4  
Drawing No.

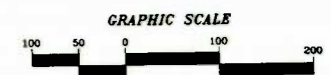
**NOTES:**

- BASE MAPPING TAKEN FROM WVGIS SAMB, FROM AERIAL PHOTOGRAPHY DEVELOPED IN 2003. THE SCALE OF THE BASE MAPPING IS APPROXIMATE. ACTUAL LOCATIONS OF EXISTING FEATURES MAY VARY.
- WEEKLY VISUAL INSPECTION OF THE SEDIMENT CONTROL MEASURES SHALL BE CONDUCTED TO VERIFY THEY ARE FUNCTIONING PROPERLY. SILT FENCE, IF REMOVED TO ALLOW CONSTRUCTION ACTIVITIES, SHALL BE REPLACED AT THE END OF EACH WORK DAY. SEDIMENT STRUCTURES SHALL BE CLEANED ONCE THE STORAGE CAPACITY HAS BEEN REDUCED BY 50%.
- THE SITE SHALL BE INSPECTED ON A REGULAR BASIS TO ENSURE INTEGRITY OF GRADED SURFACES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE DEVICES. THIS INSPECTION SHOULD BE PERFORMED AT A MINIMUM OF ONCE EVERY SEVEN CALENDAR DAYS, AND SHALL OCCUR WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL PER 24-HOUR PERIOD UNTIL THE SITE HAS BEEN STABILIZED. ANY REQUIRED REPAIRS OR MAINTENANCE WILL BE MADE IMMEDIATELY.
- DISTURBED AREAS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF GRADING.
  - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
  - WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
  - WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
  - AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDING IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
- EROSION & SEDIMENT CONTROLS SHALL BE INSTALLED IN LOCATIONS DOWN SLOPE FROM THE DISTURBED AREAS AS A FIRST MEASURE OF CONSTRUCTION. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DAMAGED, DECOMPOSED OR OTHERWISE INEFFECTIVE SILT FENCE SHALL BE REPLACED. SEDIMENT DEPOSITS SHOULD BE REMOVED AS REQUIRED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF OF THE BARRIER HEIGHT. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER NEEDED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE AND STABILIZED. CONTRACTOR MAY USE COMPOST FILTER SOCKS AS AN ALTERNATIVE TO SILT FENCE.
- DEVICES LISTED HEREIN ARE CONSIDERED MINIMUM EROSION AND SEDIMENT CONTROLS. ADDITIONAL CONTROL MEASURES MAY BE NECESSARY DUE TO CONTRACTOR PHASING OR OTHER UNFORESEEN CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL MEASURES IN ADDITION TO THOSE SHOWN, AS NEEDED, IN ORDER TO CONTROL EROSION AND CONTAIN SEDIMENT ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING PUBLIC ROADS IN A CLEAN, DUST AND MUD FREE CONDITION AT THE SITE.
- ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOURS, PERPENDICULAR TO THE FLOW OF WATER. SEE DETAIL ON DRAWING NO. 6.
- WATERBARS SHOWN ARE FOR PRESENTATION AND ARE NOT SHOWN IN THE ACTUAL PROPOSED LOCATIONS. A DETAIL OF THE PROPOSED WATERBAR IS SHOWN ON DRAWING NO. 7. WATERBARS SHALL BE INSTALLED ALONG THE ACCESS ROADS AND DISTURBED PORTIONS OF THE PIPELINE RIGHT-OF-WAY AT THE FOLLOWING SPACING:
 

ROAD GRADE (%)	DISTANCE BETWEEN WATERBARS (FT.)
1	400
2	250
5	135
10	80
15	60
20	45
30	35

NOTE: ROADS THAT ARE COVERED WITH STONE MAY NOT REQUIRE WATERBARS.
- PROPOSED UPGRADES TO EXISTING ACCESS ROADS SHALL INCLUDE MINOR GRADING, EXTENDING OF EXISTING CULVERTS WHERE APPLICABLE AND PLACEMENT OF AGGREGATE, COMPOST FILTER SOCK SHALL BE INSTALLED DOWN GRADIENT PRIOR TO EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH THE ACCESS ROAD UPGRADES.
- TRENCH BREAKERS AND OTHER CONTROLS SHALL BE USED AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AT ALL STREAM CROSSINGS WHERE FLOWING WATER IS PRESENT. CONTRACTOR SHALL SELECT ONE OF THE TWO STREAM CROSSING DETAILS SHOWN ON DRAWING NO. 6 BASED ON FIELD CONDITIONS.
- PIPELINE TRENCH BREAKERS MUST BE INSTALLED WHEN CROSSING STREAMS, WETLANDS, OR OTHER WATER BODIES. PLUGS SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. SEE "PIPELINE TRENCH BREAKER INSTALLATION DETAIL" ON DRAWING NO. 6.
- WORK AREAS WILL BE USED TO LAYOUT AND ASSEMBLE GAS LINE FIXTURES. MINIMAL EARTH DISTURBANCE IS EXPECTED. HOWEVER, EROSION AND SEDIMENT CONTROL WILL BE INSTALLED AS IF THE ENTIRE AREA WILL BE DISTURBED. DISTURBED AREAS WITHIN THE WORK AREAS WILL BE VEGETATED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND S.W.P.P.P.
- BASED ON INFORMATION PRESENTED ON THE SITE FIRM, THE PROJECT IS LOCATED WITHIN FEMA FLOOD ZONE A, WHICH IS THE REGULATORY FLOODPLAIN ASSOCIATED WITH THE BASE FLOOD (1 PERCENT ANNUAL CHANCE FLOOD EVENT), COMMONLY REFERRED TO AS THE 100-YEAR FLOODPLAIN. FLOOD ZONE A INDICATES THAT THE LIMITS OF THE FLOODPLAIN ARE APPROXIMATE, AS SUCH, BASE FLOOD ELEVATIONS (BFES) HAVE NOT BEEN PREVIOUSLY ESTABLISHED BY FEMA. ALL WORK ASSOCIATED WITH THE PROPOSED OXF 157 WELL LINE WITHIN THE LIMITS OF THE FLOODPLAIN WILL BE IN ACCORDANCE WITH THE FOLLOWING: NO PERMANENT ABOVE GROUND STRUCTURES ARE TO BE CONSTRUCTED WITHIN THE FLOODPLAIN. BACKFILL BEING INSTALLED OVER THE BURIED PIPE WILL BE COMPACTED BACK TO ORIGINAL GRADE. ANY STABILIZED CONSTRUCTION ENTRANCES TO BE INSTALLED WITHIN THE FLOODPLAIN SHALL BE INSTALLED BY REMOVING EXISTING MATERIAL TO A DEPTH SUITABLE FOR INSTALLING THE ENTRANCES SO THAT THE TOP OF THE GRAVEL SURFACE IS AT ORIGINAL GRADE ELEVATIONS. EXCESS MATERIAL ASSOCIATED WITH THIS ACTIVITY SHALL BE PLACED OUTSIDE OF THE FLOODPLAIN LIMITS. NO FILL SHALL BE PLACED WITHIN THE FLOODPLAIN LIMITS ABOVE ORIGINAL ELEVATIONS.

SYMBOL	DESCRIPTION
	STREAMS
	EXISTING PIPELINE
	PROPOSED PIPELINE
	PROPOSED SUPER SILT FENCE
	PROPOSED SILT FENCE
	PROPOSED COMPOST FILTER SOCK
	PROPOSED WATERBAR
	PERMANENT RIGHT-OF-WAY/ASSESS ROAD LIMITS OF CONSTRUCTION
	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
	EXISTING FLOODPLAIN
	APPROXIMATE LOCATION OF EXISTING CULVERT
	PROPOSED PIPELINE TRENCH BREAKER
	PROPOSED STONE CONSTRUCTION ENTRANCE
	PROPOSED WORK AREAS (SEE NOTE 13)

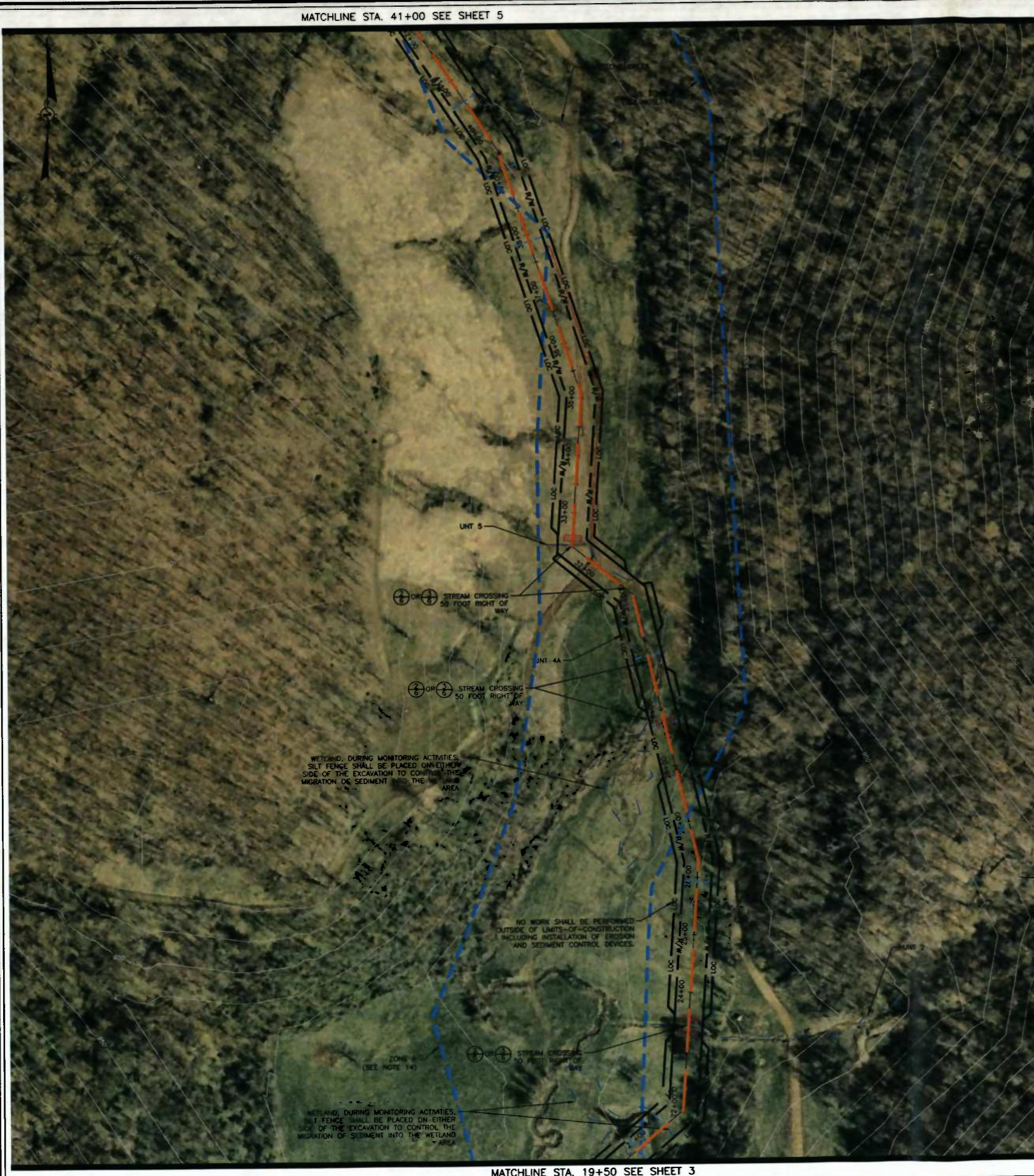


MAPPING REFERENCE:  
BASE TOPOGRAPHIC MAPPING TAKEN FROM WVGIS SAMB AERIAL MAPPING, DATED 2003.

**PRELIMINARY**

MATCHLINE STA. 19+50 SEE SHEET 3

VEE: PM: 11-0147-157-001  
 MADE FROM: 11-0147-157-001  
 DATE: 01/14/2014  
 TIME: 10:30 AM  
 USER: JMS  
 PLOT: 11-0147-157-001-001.dwg  
 PLOT DATE: 01/14/2014 10:30 AM  
 PLOT BY: JMS





## Landfried, Megan

---

**From:** DEP NPDESEP <DEP.NPDESEP@wv.gov>  
**Sent:** Friday, March 28, 2014 8:25 AM  
**To:** DEP NPDESEP; Landfried, Megan  
**Cc:** jschloeter@potesta.com; Hodge, Timothy W; Swiger, Bradley C; Minigh, Christina D  
**Subject:** Approval for WVR310215, EQT Oxford 157, Doddridge Co., 8.66 Acres

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Megan Landfried  
EQT Production Company  
115 Professional Place  
Bridgeport, WV 26330

Physical Site Location: Co. Rt. 13, New Milton

Please be advised that this e-mail constitutes approval for your project associated with Oil and Gas Construction Activities and your registration no. is WVR310215. You are now authorized to operate under WV General Water Pollution Control Permit No. WV0116815, issued on May 13, 2013.

You should carefully read the contents of this General Permit and become familiar with all requirements needed to remain in compliance with your permit. A "Notice of Termination" form is to be completed and submitted when all disturbed areas are stabilized. You can find the permit and Notice of Termination form via the Internet by visiting Permitting, Division of Water and Waste Management at [www.dep.wv.gov](http://www.dep.wv.gov). Your annual permit fee has been assessed as \$500.00. You will be invoiced by this agency upon the anniversary date of this approval date. Failure to submit the annual fee within ninety (90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect. Please be advised that a pro-rated annual permit fee may be assessed upon the completion date and proper stabilization.

If you have any questions relative to this approval, please do not hesitate to contact Joseph Cochran at (304) 926-0499 Ext. 1069 or by email at [joseph.w.cochran@wv.gov](mailto:joseph.w.cochran@wv.gov)

Scott G. Mandirola, Director  
WV DEP-Division of Water & Waste Mgt.  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304-2345  
Phone: (304) 926-0495  
Fax: (304) 926-0496



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

REPLY TO  
ATTENTION OF

May 29, 2014

Regulatory Division  
Energy Resource Branch  
LRH-2014-00276-Bluestone Creek-OHR

Ms. Megan Landfried  
EQT Production Company  
115 Professional Place  
Bridgeport, West Virginia 26330

Dear Ms. Landfried:

I refer to the Pre-Construction Notification (PCN) submitted on your behalf by Potesta & Associates, received in this office on March 24, 2014 and additional information provided by email to this office on April 22, 2014 and May 19, 2014. You have requested authorization to discharge dredged and/or fill material into waters of the United States (U.S.) in conjunction with the construction of the OXF 157 Well Pipeline Project. The project will include the installation of approximately 0.90 mile of a 6-inch steel natural gas well line. The natural gas well lines will connect the OXF 157 Well Pad to a larger gathering line meter site near Little Milton, Doddridge, West Virginia. The construction and installation of the gas lines will require the temporary discharge of dredged and/or fill material into Bluestone Creek, unnamed tributaries of Bluestone Creek and an adjacent wetland. Bluestone Creek is a perennial tributary of Middle Island Creek, which flows into the Ohio River, a traditionally navigable water of the U.S.

The United States Army Corps of Engineers (Corps) authority to regulate waters of the U.S. is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to discharging dredged or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

Based on a review of the aquatic resources in the PCN submittal, there are forty-one (41) perennial, intermittent, and ephemeral streams totaling 10.973 linear feet ILF) and fourteen (14) wetlands totaling 1.36 acres located within the project review area, as described in Tables 1 and 2 of the Preliminary Jurisdictional Determination (PJD), which is attached to the PJD form. The on-site aquatic resources may be waters of the U.S. in accordance with the Regulatory Guidance Letter for Jurisdictional Determinations (JDs) issued by the Corps on June 26, 2008 (Regulatory Guidance Letter NO. 08-02). As indicated in the guidance, this Preliminary Jurisdictional Determination (PJD) is non-binding and cannot be appealed (33 CFR 331.2) and only provides a written indication that waters of the U.S. may be present on-site.

You have declined to exercise the option to obtain an approved JD in this instance and at this time. However, for the purposes of the determine of discharges of fill into waters of the U.S., compensatory mitigation, and aquatic resource protection measures for activities which require

authorization from this office, the stream and wetlands referenced above will be evaluated as if they were waters of the U.S.

Enclosed please find two (2) copies of the PJD form. If you agree with the findings of this PJD and understand your options regarding the same, please sign and date one copy of the PJD form and return it to this office within thirty (30) days of receipt of this letter. You should submit the signed copy to the following address:

United States Army Corps of Engineers  
Huntington District  
Attn: Energy Resource Branch  
502 8<sup>th</sup> Street  
Huntington, WV 25701

You have requested authorization to discharge fill material into waters of the U.S. in conjunction with the installation of a 6-inch diameter steel natural gas pipeline within Bluestone Creek, unnamed tributaries of Bluestone Creek, and an adjacent wetland. The installation of the pipeline will involve eight (8) crossings of Bluestone Creek and unnamed tributaries and one (1) wetland adjacent to Bluestone Creek. Excavation of the trenches, installation of the gas pipeline, and restoration of the stream channels/wetland to their pre-construction condition will result in the discharge of approximately 26.4 cubic yards of dredged and/or fill material into approximately 53.4 linear feet (0.09 acre) of stream channel and 0.03 of one wetland as indicated in Table 1 (attached). The applicant has indicated they will utilize the open cut/trench (in the dry) method for installation of the gas pipeline. You have indicated the streams and wetland will be restored to the approximate pre-construction conditions upon completion of the project.

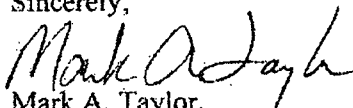
Based on the information provided in the permit application, it has been determined the discharge of dredged and/or fill material into waters of the U.S., to facilitate the installation of 0.906 mile of 6-inch natural gas pipeline meets the criteria for authorization under Nationwide Permit (NWP) #12 (enclosed) under the February 21, 2012 Federal Register, Notice of Reissuance of NWPs (77 FR 10184) provided you comply with all terms and conditions of the enclosed material. A copy of this NWP can be found on our website at <http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>. Please note that you must comply with all applicable terms and conditions of the enclosed material and the attached special conditions for the authorizations to be valid.

In view of the above, your utility line activities project is authorized subject to the terms and conditions of the enclosed material, including the enclosed special conditions. It is your responsibility to ensure that your work conforms to all of the environmental management conditions listed within the enclosed material. Please be aware this NWP verification does not obviate the requirement to obtain any state or local assent required by law for the activities.

A copy of this NWP and verification letter must be supplied to your project engineer responsible for construction activities. A copy of the verification letter must be kept at the site during construction. Upon completion of the work, the enclosed certification must be signed and

returned to this office. If you have any questions concerning the above, please contact Kimberly Courts-Brown at (304) 399-6906 or by email at [Kimberly.d.courtsbrown@usace.army.mil](mailto:Kimberly.d.courtsbrown@usace.army.mil).

Sincerely,



Mark A. Taylor,  
Chief, Energy Resource Branch  
Regulatory Division

CF: (w/out encls)

Ms Beth Burdette  
Potesta & Associates, Inc.  
7012 McCorkle Avenue, SE  
Charleston, WV 25304  
[sbburdette@potesta.com](mailto:sbburdette@potesta.com)



**TABLE 1**  
**Discharges of Fill Material into Waters of U.S.**  
**EQT Production Company**  
**LRH-2014-00276-Bluestone Creek-OHR**

Stream/Wetland Name And Crossing ID	Flow Regime or Wetland Type	Length of Stream Disturbance (linear feet)	Width of Stream Disturbance (linear feet)	Fill Area of Stream or Wetland (acre)	Amount of Temporary Fill (cubic yards)	Type of Fill and Nature of Discharge
Bluestone Creek Crossing 1 Crossing 2 Crossing 3 <i>(one single and complete crossing)</i>	Perennial	6.5 lf 6.5 lf 6.5 lf 19.5 lf	3.0 lf 3.0 lf 3.0 lf 9.0 lf	0.043	8.7	Pipeline & native backfill Open Cut/Trench Crossing
Bluestone Creek Crossing 4	Perennial	6.5 lf	3.0 lf	0.01	2.9	Pipeline & native backfill Open Cut/Trench Crossing
Bluestone Creek Crossing 5	Perennial	6.5 lf	3.0 lf	0.008	2.9	Pipeline & native backfill Open Cut/Trench Crossing
Bluestone Creek Crossing 6	Perennial	6.5 lf	3.0 lf	0.004	2.9	Pipeline & native backfill Open Cut/Trench Crossing
UNT No. 2 Bluestone Creek Crossing 7	Ephemeral	3.6 lf	3.0 lf	0.004	1.6	Pipeline & native backfill Open Cut/Trench Crossing
UNT No. 5 Bluestone Creek Crossing 8	Ephemeral	0.8 lf	3.0 lf	0.003	0.4	Pipeline & native backfill Open Cut/Trench Crossing

UNT No. 5A Bluestone Creek Crossing 9	Ephemeral	2.0 lf	3.0 lf	0.004	0.9	Pipeline & native backfill Open Cut/Trench Crossing
UNT No. 6A Bluestone Creek Crossing 10	Intermittent	4.2 lf	3.0 lf	0.008	1.9	Pipeline & native backfill Open Cut/Trench Crossing
Wetland No. 1A Crossing 11	Palustrine Emergent	N/A	N/A	0.03 acre	4.4	Pipeline & native backfill Open Cut/Trench Crossing
<b>TOTALS</b>		<b>53.4 lf</b>	<b>36 lf</b>	<b>0.09 acre stream 0.03 acre emergent wetland</b>	<b>26.4 c.y.</b>	

**Nationwide Permit 12 Verification Special Conditions**  
**EQT Production Company**  
**OXF 157 Well Pipeline Project**  
**LRH-2014-00276-Bluestone Creek-OHR**

1. The project site lies within the range of the Indiana bat (*Myotis sodalis*), a Federally-listed endangered species, and within the range of the northern long-eared bat (*Myotis septentrionalis*), a proposed endangered species. To avoid adverse impacts to the Indiana bat and the northern long-eared bat, the permittee shall preserve trees wherever possible. Should suitable habitat be present that cannot be saved during construction activities, these trees should only be cut between November 15 through March 31. If you are unable to adhere to the seasonal tree-cutting restriction, further consultation under Section 7 of the Endangered Species Act will be necessary. The United States Fish and Wildlife Service may be contacted by mail at USFWS West Virginia Field Office, 694 Beverly Pike, Elkins, West Virginia, 26241, or by phone at (304) 636-6586. The permittee must also contact the Regulatory Division in the event adherence to the seasonal tree-cutting restriction cannot be met.
2. Section 7 obligations under Endangered Species Act must be reconsidered if new information reveals impacts of the project that may affect federally listed species or critical habitat in a manner not previously considered, the proposed project is subsequently modified to include activities which were not considered during Section 7 consultation with the United States Fish and Wildlife Service, or new species are listed or critical habitat designated that might be affected by the subject project.
3. If any archeological resources are uncovered during the installation of the gas pipeline, the applicant will immediately cease all work in the area of discovery and contact the WVDHC at 304-558-0240 and the Huntington District Regulatory Office.

Home Mail News Sports Finance Weather Games Groups Answers Screen Flickr Mobile More

Search Mail Search Web

Lorena

- Compose
- Inbox
- Drafts (2)
- Sent
- Spam (437)
- Trash (25)
- Folders
- Recent
- Messenger
- Contacts
- Calendar
- Notepad
- Yahoo Mail for Mobile

Navigation icons: back, forward, delete, move, spam, more, collapse all

RE: EQT OXF 157 Well Line Cost

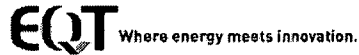
Landfried, Megan

Today at 9:31 AM

To Me

Just a follow up! Thanks!  
Megan

#14-129



www.eqt.com

v1 a

From: Landfried, Megan  
Sent: Tuesday, February 18, 2014 8:25 AM  
To: 'Lorena Slater'  
Subject: EQT OXF 157 Well Line Cost

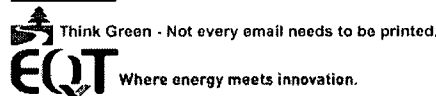
Hi Catie,

Per your request, I am providing you a breakdown of costs for the OXF 157 Well Line. Our construction manager is estimating \$48.00 per foot for labor and \$32.00 per foot for materials. For a pipeline that is 4900-feet, that equates to \$392,000.

Please let me know if you need more detailed information than that.

Thank you,

Megan E. Landfried  
Sr. Environmental Coordinator  
EQT Corporation  
115 Professional Place  
Bridgeport, WV 26330  
Office: 304.848.0061  
Cell: 304.841.2086  
Fax: 304.848.0040  
E-Mail: [MLandfried@eqt.com](mailto:MLandfried@eqt.com)  
[www.eqt.com](http://www.eqt.com)



Reply, Reply All or Forward | More

Click to reply all

Send [Rich Text Editor icons]



2014 AUG -7 PM 12: 05

SETH ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

August 6, 2014

Mr. Bo Wriston  
Doddridge County Floodplain Coordinator  
Doddridge County Commission  
118 East Court Street  
West Union, West Virginia 26456

RE: Addendum to Existing Floodplain Permit  
EQT Production Company  
EQT OXF 157 Well Line  
Doddridge County, West Virginia  
POTESTA Project No. 0101-11-0147-15703

Dear Mr. Wriston:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this addendum letter on behalf of EQT Production Company (EQT) for the associated Floodplain Development Permit Application for the existing OXF 157 Well Line Project. The OXF well line is currently installed but will need upgraded at approximately nine locations in order to support heavy traffic loads at those crossing areas. These crossings are needed for equipment to access the OXF 157 Well Pad. The locations of the nine crossing areas are listed below.

1. Crossing of 2-inch PEB-323: 39.23700°N, 80.76478°W.  
Replace 30 feet of the existing 2-inch coupled line with 30 feet of 2-inch PE pipe, inserted through 4.5-inch O.D., 0.237 WT, Grade X35 steel casing pipe.
2. Crossing of 2-inch PEB-1821: 39.23463°N, 80.76478°W.  
Replace 30 feet of the existing 2-inch coupled line with 30 feet of 2-inch PE pipe, inserted through 4.5-inch O.D., 0.237 WT, Grade X35 steel casing pipe.
3. Crossing of 6-inch PEG-84: 39.23368°N, 80.76449°W.  
Replace 30 feet of the existing 6-inch coupled line with 30 feet of 6-inch PE pipe, inserted through 12.625-inch O.D., 0.375 WT, Grade X35 steel casing pipe.
4. Crossing of 4-inch PEB-325: 39.23368°N, 80.76449°W.  
Insert the existing 4-inch PE line through 8.625-inch O.D., 0.322 WT, Grade X3 steel casing pipe.
5. Crossing of 6-inch PEG-85 Crossing 1: 39.23239°N, 80.76390°W.  
Replace 30 feet of the existing 6-inch coupled line with 30 feet of 6-inch PE pipe, inserted through 12.625-inch O.D., 0.375 WT, Grade X35 steel casing pipe.

Mr. Bo Wriston  
August 6, 2014  
Page 2

6. Crossing of 6-inch PEG-85 Crossing 2: 39.23062°N, 80.76340°W.  
Replace 30 feet of the existing 6-inch coupled line with 30 feet of 6-inch PE pipe, inserted through 12.625-inch O.D., 0.375 WT, Grade X35 steel casing pipe.
7. Crossing of 2-inch PEB-1734: 39.22877°N, 80.76264°W.  
Replace 30 feet of the existing 2-inch coupled line with 30 feet of 2-inch PE pipe, inserted through 4.5-inch O.D., 0.237 WT, Grade X35 steel casing pipe.
8. Crossing of 2-inch PEB-1765 Crossing 1-1765: 39.22603°N, 80.76164°W.  
Replace 30 feet of the existing 2-inch coupled line with 30 feet of 2-inch PE pipe, inserted through 4.5-inch O.D., 0.237 WT, Grade X35 steel casing pipe.
9. Crossing of 2-inch PEB-1765 Crossing 2-1765: 39.22610°N, 80.76304°W.  
Replace 30 feet of the existing 2-inch coupled line with 30 feet of 2-inch PE pipe, inserted through 4.5-inch O.D., 0.237 WT, Grade X35 steel casing pipe.

*NOTE: NO ADDITIONAL COVER SHALL BE ADDED TO THE PIPELINE RIGHT-OF-WAY, OTHER THAN MENTIONED IN NUMBER 1 OF THIS EXHIBIT.*

All work associated with the proposed OXF 157 Well Line within the limits of the floodplain will be in accordance with the following. No permanent aboveground structures are to be constructed within the floodplain as a part of this work. Backfill being installed over the buried pipe will be compacted back to the original grade. Any excess material associated with this activity shall be placed outside of the floodplain limits. No fill shall be placed within the floodplain limits above original elevations.

Permits from the United States Army Corps of Engineers and the West Virginia Department of Environmental Protection are necessary for this project. Copies of those permit approvals are attached for your reference.

If you have any questions, please feel free to contact me at (304) 342-1400 or [jmsmith@potesta.com](mailto:jmsmith@potesta.com), or Megan Landfried (EQT) at (304) 848-0061.

Sincerely,

POTESTA & ASSOCIATES, INC.

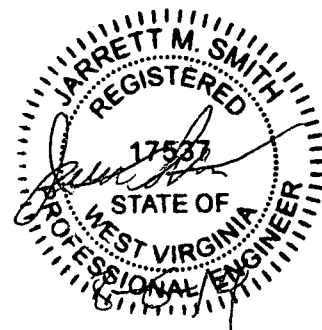


Jarrett M. Smith, P.E.  
Senior Engineer

JMS/clr

Enclosures

c: Ms. Megan Landfried – EQT (via email)



STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

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

*Floodplain Permit*  
*EQT of 157 Well line*  
*Permit # 14-129*

was published in said paper for *2*  
successive weeks beginning with the issue  
of *February 19<sup>th</sup>* 2014 and  
ending with the issue of

*February 25<sup>th</sup>* 2014 and  
that said notice contains *189*

WORD SPACE at *115* cents a word  
amounts to the sum of \$ *21.73*

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

\$ *16.29*  
and each publication thereafter

\$ *38.02* TOTAL

EDITOR

SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE ..... DAY  
OF ..... 2014

NOTARY PUBLIC

*Laura J Adams*

LEGAL ADVERTISEMENT:  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 18th day of February  
2014 EQT PRODUCTION COMPANY EQT OXF 157  
WELL LINE PERMIT #14-129 filed an application for  
a Floodplain Permit to develop land located at or about:  
SURFACE OWNERS: JUSTINE L. HENDERSON  
SOUTHWEST DISTRICT, MAXWELL RIDGE, W/B  
29/224 TAX MAP - 07306-01  
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 March 10,  
2014.  
Delivered to the  
Clerk of the County Court  
112 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
Ralph Sandora, Jr., Doddridge County Flood Plain  
Manager

