

By: BH - MEH - AML
Asst. Chief Tax Deputy

Michael Headley
Sheriff of Doddridge County

The Person paying Money into the Treasury shall forthwith file one of these Receipts with the County Clerk

Doddridge County, West Virginia

No. 1070

Date: December 10, 2013
Customer copy

Received: #13-101 potesta & associates eqt-mosa-s014

\$500.00

In Payment For: 318 Building Permits (LP)

For: 12-Flood Plain Ordinance #20 Fund

By: BH - MEH - AML
Asst. Chief Tax Deputy

Michael Headley
Sheriff of Doddridge County

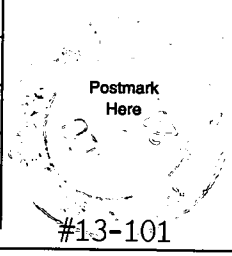
7011 0470 0000 8523 2891

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OFFICIAL USE

Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11



Sent To Ruth M. Davies Pierce Heirs
 Street, Apt. No., or PO Box No. 1104 Greenmont Circle
 City, State, ZIP+4 Vienna, WV 26105

PS Form 3800, August 2006 See Reverse for Instructions

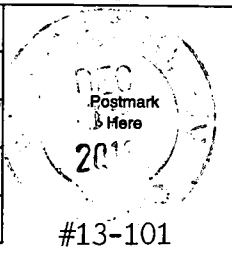
7011 0470 0000 8523 2884

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Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11



Sent To Woody Ireland & Karen M. Ireland
 Street, Apt. No., or PO Box No. Family Limited Partnership 342 Ireland Road
 City, State, ZIP+4 Pullman, WV 26421

PS Form 3800, August 2006 See Reverse for Instructions

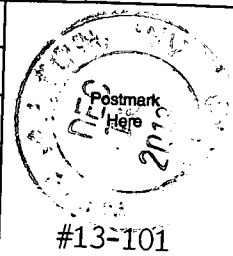
7011 0470 0000 8523 2907

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OFFICIAL USE

Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11



Sent To Carolyn E. Farr Irrevocable Trust
 Street, Apt. No., or PO Box No. Clarence Sigley, Trustee P.O. Box 1126
 City, State, ZIP+4 Bridgeport, WV 26330

PS Form 3800, August 2006 See Reverse for Instructions

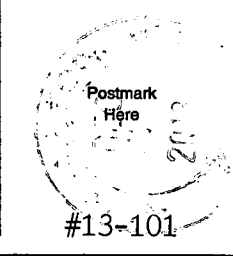
7011 0470 0000 8523 2914

U.S. Postal Service™
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OFFICIAL USE

Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11



Sent To Charles & Barbara L. Wellings
 Street, Apt. No., or PO Box No. HC 68 Box 3
 City, State, ZIP+4 West Union, WV 26456

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: #13-101
 Ruth M. Davies Pierce Heirs
 1104 Greenmont Circle
 Vienna, WV 26105

2. Article Number
 (Transfer from service label) 7011 0470 0000 8523 2891

COMPLETE THIS SECTION ON DELIVERY

A. Signature [Signature] Agent Addressee
 B. Received by (Printed Name) Thomas Davies C. Date of Delivery 12/14/12

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

BETH A. ROGERS
COUNTY CLERK
BOODRIDGE COUNTY, WV

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: #13-101

Carolyn E. Farr Irrevocable Trust
 Clarence Sigley, Trustee
 P.O. Box 1126
 Bridgeport, WV 26330

2. Article Number
 (Transfer from service label)

7011 0470 0000 8523 2907

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Amy Zannino*

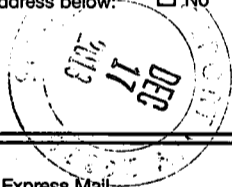
- Agent
 Addressee

B. Received by (Printed Name)

Amy Zannino

C. Date of Delivery

- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No



3. Service Type

- Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

FILED

2003 DEC 18 AM 11:11

**BETH A. ROGERS
DODDGE COUNTY CLERK
187 COURT ST
ROOM 100
WEST UNION, WV 26456**



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: #13-101

Woody Ireland & Karen M. Ireland
 Family Limited Partnership
 342 Ireland Road
 Pullman, WV 26421

2. Article Number
 (Transfer from service label)

7011 0470 0000 8523 2884

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

K. Ireland

12-16-13

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

Certified Mail

Express Mail

Registered

Return Receipt for Merchandise

Insured Mail

C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

BETH A ROGERS
DODDRIDGE COUNTY CLERK
118 E. COURT ST
ROOM 102
WEST UNION, WV 26456

DODDRIDGE COUNTY, WV
BETH A. ROGERS
COUNTY CLERK

NOV DEC 18 AM 11:10

FILED



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: #13-101

Charles & Barbara L. Wellings
 HC 68 Box 3
 West Union, WV 26456

2. Article Number
 (Transfer from service label)

7011 0470 0000 8523 2914

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Charles Wellings

- Agent
 Addressee

B. Received by (Printed Name)

BARBARA Wellings

C. Date of Delivery

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

Certified Mail

Express Mail

Registered

Return Receipt for Merchandise

Insured Mail

C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

DEC 18 AM 11:10
26456

FILED

• Sender: Please print your name, address, and zip code in this box

Dodd Co Fla
118 E Court St
West Union, WV

c/o County Comm. D. Wellings

Doddridge County Sheriff
Flood Plain Ordinance Fund

1070
69-217/515

DATE January 7, 2014

PAY TO THE ORDER OF THE HERALD RECORD

\$ 120.86

One Hundred Twenty Dollars and 86/100-----

DOLLARS

Security features included. Details on back.



MEMO Inv#3017/#3018/#3023/#3024/#3031/#3032

#13-101/#13-102/#13-105/#13-104/#13-089/#13-107

⑈001070⑈ ⑆051502175⑆

⑆1⑈9649⑈9⑈

Ralph Dandow Jr.
Betty A. Rogers
Sheriff

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 10th day of December, 2013

EQT GATHERING – MOSA S014 #13-101

filed an

application for a Floodplain Permit to develop land located at or

about: **SURFACE OWNERS: RUTH M DAVIES PIERCE HEIRS C/O**

TOM DAVIES

ARNOLDS CREEK & BLUESTONE CREEK 1457.95 AC

WEST UNION DISTRICT, D/B: 251/60 & T/M: 18/08

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 **December 30, 2013.**

Delivered to the:

Clerk of the County Court

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

Beth A Rogers, Doddridge County Clerk

Dan Wellings, Doddridge County Flood Plain Manager

PERMIT NO. 13-101

DODDRIDGE COUNTY
FLOODPLAIN DEVELOPMENT
PERMIT

PURPOSE FOR PERMIT: PIPELINE - EQT - MOSA
3014

ISSUED TO EQT
115 Professional Place

ADDRESS: Bridgeport, WV

PROJECT ADDRESS: Bluestone + Rte. 18 South

ISSUED BY: Dan Welling

DATE: 12/30/2013

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

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



Engineers and Environmental Consultants

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

December 11, 2014

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

RE: Request for Termination of Existing Floodplain Permit Application
EQT Production Company
EQT MOSA-SO14 Gathering Line
Doddridge County, West Virginia
POTESTA Project No. 0101-13-0339-002


Dear Mr. Wriston:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this letter requesting termination of existing floodplain permit number 13-101 for the MOSA-SO14 Gathering Line project. The proposed project has been completed including those portions located within the floodplain. Areas of disturbance have been stabilized and revegetated. No aboveground structures were constructed as part of this project.

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

Sincerely,

POTESTA & ASSOCIATES, INC.



Jarrett M. Smith, P.E.
Senior Engineer

JMS/clr

Enclosures

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

POTESTA & ASSOCIATES, INC.

Charleston, West Virginia • Morgantown, West Virginia • Winchester, Virginia • Cambridge, Ohio



Engineers and Environmental Consultants

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

#13-101
EQT-MOSA-
SO14

November 27, 2013

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

RE: Floodplain Permit Application
EQT Gathering, LLC
EQT MOSA SO14 Gathering Line
Doddridge County, West Virginia
POTESTA Project No. 0101-13-0339-002

FILED
2013 DEC -4 PM 12:00
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 MOSA SO14 Gathering Line Project. The proposed project will consist of installing approximately 14,789 linear feet of gathering 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 gathering line stations 17+75 to 122+25, portion of work areas, and access roads as shown on the attached site plans 9 and 11. 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 gathering 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 MOSA SO14 Gathering 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 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
November 27, 2013
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, or Megan Landfried (EQT) at (304) 848-0061.

Sincerely,

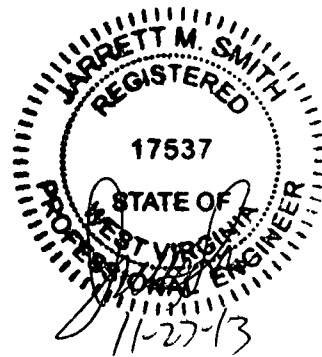
POTESTA & ASSOCIATES, INC.


Jarrett M. Smith, P.E.
Staff Engineer II

JMS/clr

Enclosures

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



#13-101
EQT - MWA 5014

DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

DEC - 14 PM 12:00
BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

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 *Mya E. Jand*

DATE 11/21/13

SECTION 2: PROPOSE DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME: 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, Inc
ADDRESS: 7012 MacCorkle Ave, SE, Charleston, WV 25304
TELEPHONE NUMBER: 304-342-1400

PROJECT LOCATION: MOSA-S014 Pipeline Project

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Ruth M Davies Pierce Heirs
C/O Tom Davies

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) 1104 Greenmont Circle,
Vienna, WV 26105

DISTRICT: WEST UNION

DATE/FROM WHOM PROPERTY PURCHASED:

LAND BOOK DESCRIPTION: Arnolds Creek & Bluestone Creek 1457.95 Ac

DEED BOOK REFERENCE: Book 251 x 60

TAX MAP REFERENCE: 18-08

EXISTING BUILDINGS/USES OF PROPERTY: Farming

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: N/A

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: N/A

To avoid delay in processing the application, please provide enough information to easily identify the project location. Project start is located at 39.289393°N/-80.756075°W and the terminus is located at 39.262784°N/-80.786333°W. Please see the attached Project Location Map.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u>	<u>STRUCTURAL TYPE</u>
<input checked="" type="checkbox"/> New Structure	<input type="checkbox"/> Residential (1 – 4 Family)
<input type="checkbox"/> Addition	<input type="checkbox"/> Residential (more than 4 Family)
<input type="checkbox"/> Alteration	<input checked="" type="checkbox"/> Non-residential (floodproofing)
<input type="checkbox"/> Relocation	<input type="checkbox"/> Combined Use (res. & com.)
<input type="checkbox"/> Demolition	<input type="checkbox"/> Replacement
<input type="checkbox"/> Manufactured/Mobil Home	

B. OTHER DEVELOPMENT ACTIVITIES:

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

C. STANDARD SITE PLAN OR SKETCH

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

ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$ 17,000.00

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).**

NAME: Woody Ireland & Karen M. Ireland Family Limited Partnership*

ADDRESS: 342 Ireland Road,
Pullman, WV 26421

NAME: Ruth M. Davies Pierce Heirs*

ADDRESS: 1104 Greenmont Circle
Vienna, WV 26105

NAME:

ADDRESS:

NAME: Crolyn E. Farr Irrevocable Trust, *

Clarence Sigley, Trustee
ADDRESS: PO Box 1126
Bridgeport, WV 26330

NAME: Charles & Barbara L Wellings*

ADDRESS: HC 68 Box 3
West Union, WV 26456

- 1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY.**

NAME: Woody Ireland & Karen M. Ireland Family Limited Partnership*

ADDRESS: 342 Ireland Road,
Pullman, WV 26421

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: 11/21/13

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: 120
Dated: 10/04/2011

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 A

100-Year flood elevation is: N/A NGVD (MSL)

- Unavailable
- The proposed development is located in a floodway.
FBFM Panel No. _____ Dated _____

See section 4 for additional instructions.

SIGNED Dave Walker DATE 12/30/2013

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 proofing of utilities located below the first floor and details of enclosures below the first floor. Also _____
- Subdivision or other development plans (If the subdivision or development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).
- Plans showing the extent of watercourse relocation and/or landform alterations.
- Top of new fill elevation _____ Ft. NGVD (MSL).
For floodproofing structures applicant must attach certification from registered engineer or architect.

- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.
- Manufactured homes located in a floodplain area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).
- Other: _____

SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or his/her representative)

I have determined that the proposed activity **(type is or is not)** in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED _____ DATE _____

If the Floodplain Administrator/Manager found that the above was not in conformance with the provisions of the Doddridge County Floodplain Ordinance and/or denied that application, the applicant may complete an appealing process below.

APPEALS: Appealed to the County Commission of Doddridge County? Yes No
 Hearing Date: _____
 County Commission Decision - Approved Yes No

CONDITIONS: _____

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

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

COMPLETE 1 OR 2 BELOW:

- 1 Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is _____ FT. NGVD (MSL)
- 2 Actual (As Built) elevation of floodproofing is _____ FT. NGVD (MSL)

Note: Any work performed prior to submittal of the above information is at risk of the applicant.

SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

INSPECTIONS:

DATE: _____ BY: _____
DEFICIENCIES ? Y/N

COMMENTS _____

SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative).

Certificate of Compliance issued: DATE: _____ BY: _____

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

PERMIT NUMBER: _____

PERMIT DATE: _____

PURPOSE –

CONSTRUCTION LOCATION: _____

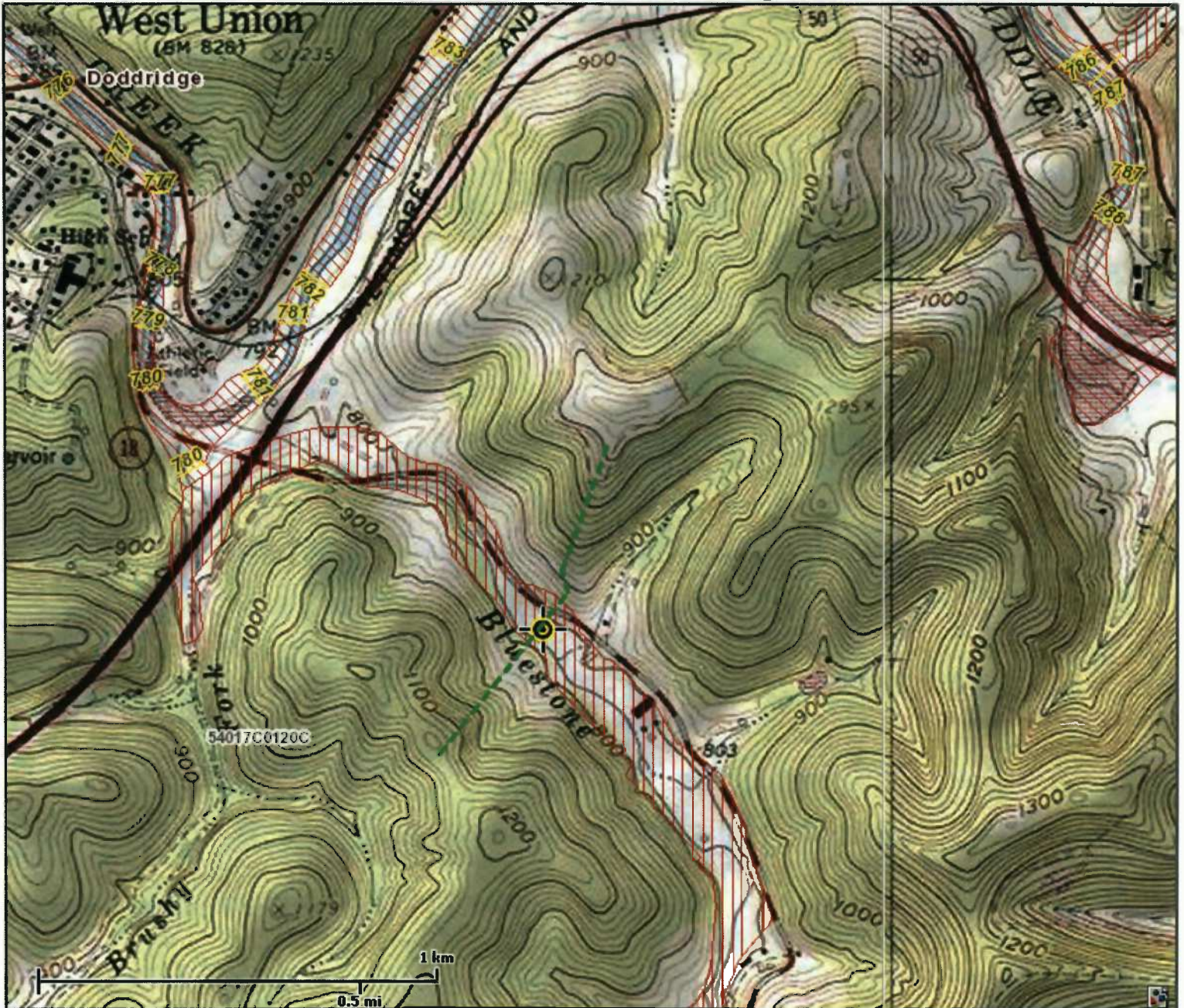
OWNER'S ADDRESS: _____

THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN ADMINISTRATOR/MANAGER OR HIS/HER AGENT.

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

SIGNED _____ DATE _____

EQT MOSA SO14 Gathering Line



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 11/25/2013

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

User Notes:

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.

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: N/A

Water Depth: N/A

Elevation: About 785 feet

Location (long, lat): 80.759869 W, 39.283721 N

Location (UTM 17N): (520710, 4348290)

FEMA Issued Flood Map: 54017C0120C

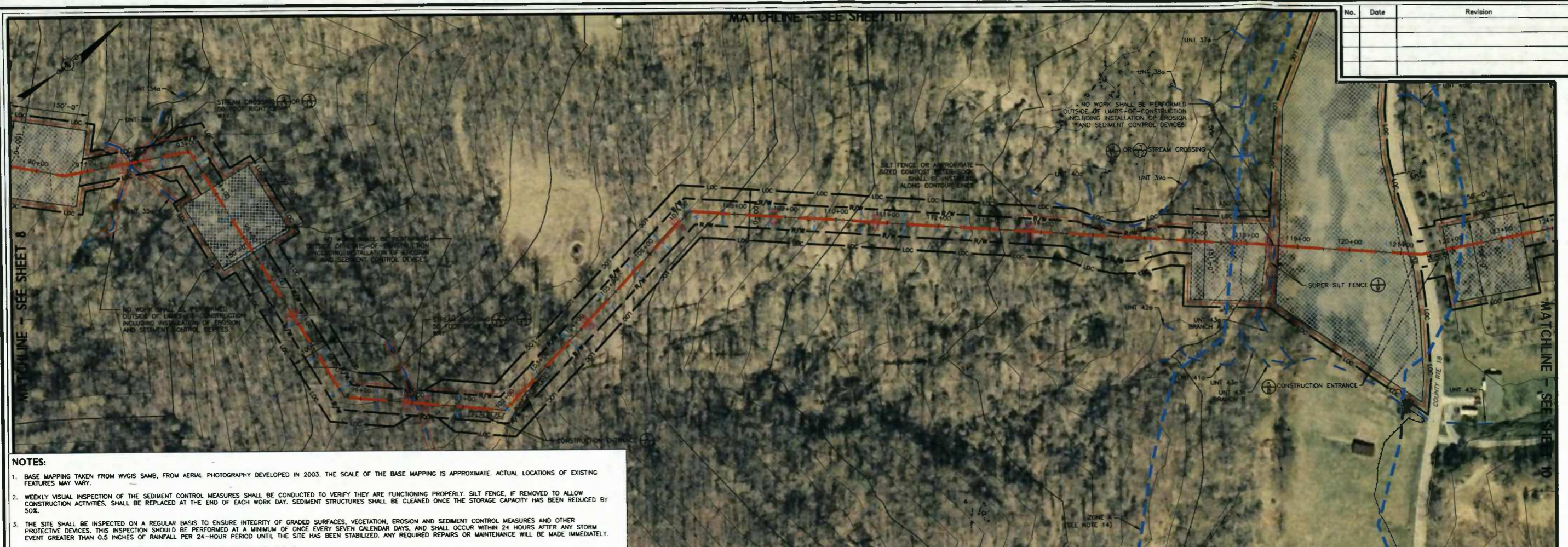
Contacts: Doddridge County

CRS Information: No CRS information available

Flood Profile: No Profile

HEC-RAS Model: No Model

Parcel Number:



No.	Date	Revision

-01
 CAD File No.
 JM
 Drawn
 JS
 Checked
 JMS
 Approved
 1" = 100'
 Scale:
 NOV 2013
 Date:
 13-0339-002
 Project No.

POTESTA & ASSOCIATES, INC.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 7012 Macomber Ave. SE, Charleston, WV 25304
 TEL: (804) 342-1400 FAX: (804) 343-9031
 E-Mail Address: potesta@potesta.com

POTESTA

EQT GATHERING, LLC
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA

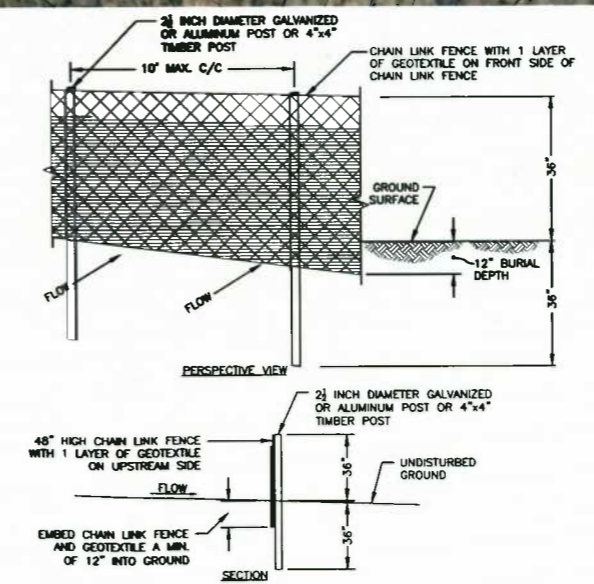
SITE PLAN
 EQT MOSA 5014 GATHERING LINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

9
 Drawing No.

- NOTES:**
- BASE MAPPING TAKEN FROM WYGIS 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 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 RESEEDED 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 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. 12.
 - 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. 13. 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 WITHIN THE PROPOSED 40 FOOT R.O.W.
 - 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. 12 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. 12.
 - 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 WEUB 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.

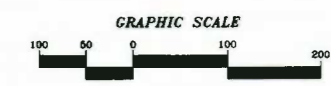


- NOTES:**
- CHAIN LINK FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES 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 (1/9)
 NO SCALE

LEGEND

SYMBOL	DESCRIPTION
	STREAMS
	PROPOSED PIPELINE
	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
	PROPOSED ELECTRIC LINE
	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 WYGIS SAMB AERIAL MAPPING, DATED 2003.

PRELIMINARY

ISSUE DATE 11/20/2013

DATE PLOTTED: 11/20/2013 11:11:50
 PLOT FILE: C:\Users\jms\Documents\13-0339-002\13-0339-002.dwg
 PLOT SCALE: 1" = 100'
 PLOT SHEET: 9 OF 9
 PLOT BY: JMS

No.	Date	Revision

-01
 CAD File No.
 JM
 Drawn
 JS
 Checked
 JMS
 Approved
 1" = 100'
 Scale
 NOV 2013
 Date
 13-0339-002
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POTESTA & ASSOCIATES, INC.
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 7012 MacCorkle Ave. SE, Charleston, WV 25304
 TEL: (304) 342-1400 FAX: (304) 343-9031
 E-Mail Address: potesta@potesta.com

POTESTA

Client
 EQT CATHERING, LLC
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA

Title
 SITE PLAN
 EQT MOSA 5014 CATHERING LINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

11
 Drawing No.



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LEGEND

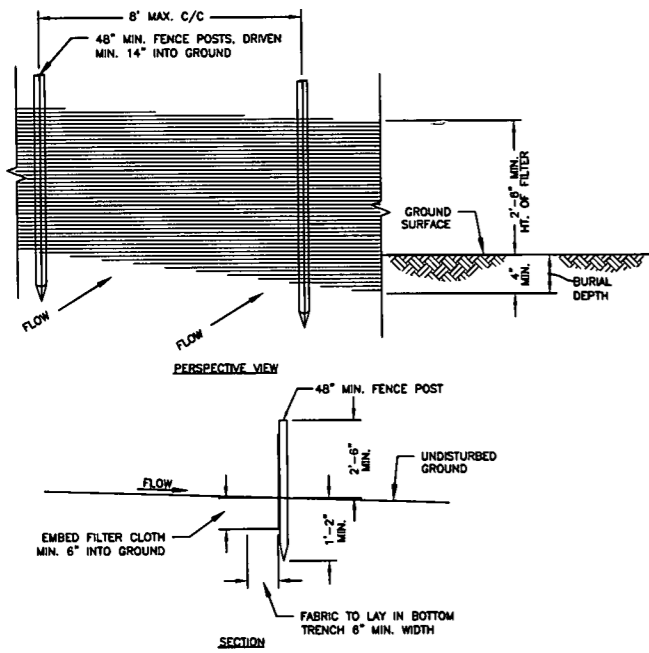
SYMBOL	DESCRIPTION
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	PROPOSED SILT FENCE
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	PROPOSED WATERBAR
	PERMANENT RIGHT-OF-WAY/ASSESS ROAD LIMITS OF CONSTRUCTION
	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
	PROPOSED ELECTRIC LINE
	APPROXIMATE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



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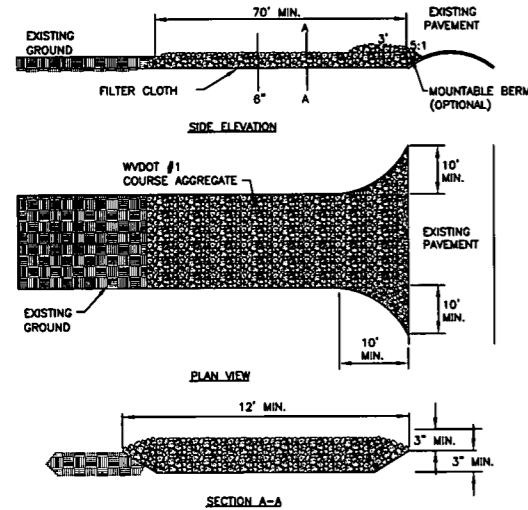
PRELIMINARY

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 PLOT BY: JMS



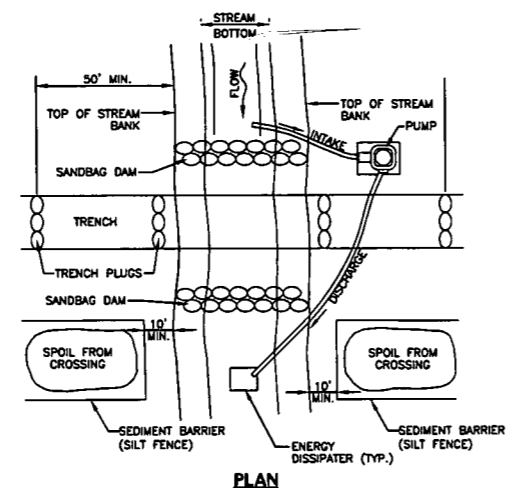
- NOTES:**
- WHEN TWO SECTIONS OF SILT FENCE JOIN, OVERLAP ACCORDING TO MANUFACTURERS PUBLISHED RECOMMENDATIONS.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN HALF OF EXPOSED SILT FENCE IS COVERED WITH SEDIMENT.
 - POSTS SHALL BE CONSTRUCTED OF STEEL EITHER "T" OR "U" TYPE OR 1.5" HARDWOOD.
 - FILTER CLOTH SHALL BE "FILTER X", "MIRAFI 100X", "LINO GTF 180" OR APPROVED EQUAL.
 - ALL SILT FENCE SHALL BE CHECKED AFTER ANY SIGNIFICANT RAINFALL (IN EXCESS OF 1/2"). DAMAGED SILT FENCE MUST BE REPAIRED WITHIN 24 HOURS; SOONER, IF ADDITIONAL RAINFALL IS EXPECTED.

SILT FENCE DETAIL (1/12)
NO SCALE



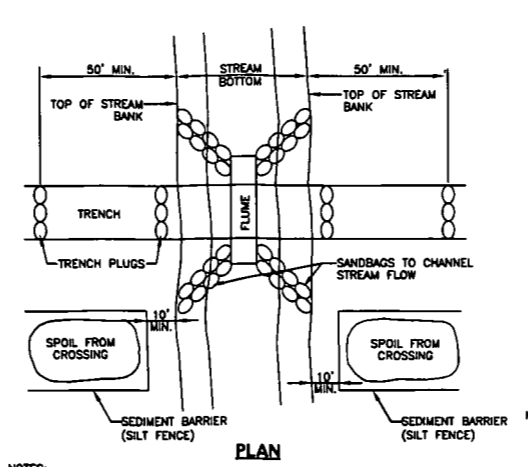
- NOTES:**
- TOP SOIL SHOULD BE REMOVED PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE
 - EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
 - RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
 - MOUNTABLE BERM SHOULD BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED. PIPE TO BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
 - MAINTENANCE - ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION IMMEDIATELY. IF EXCESSIVE AMOUNT OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND THE LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWER, CULVERTS, OR OTHER DRAINAGEWAYS IS NOT ACCEPTABLE.

STONE CONSTRUCTION ENTRANCE DETAIL (5/12)
NO SCALE



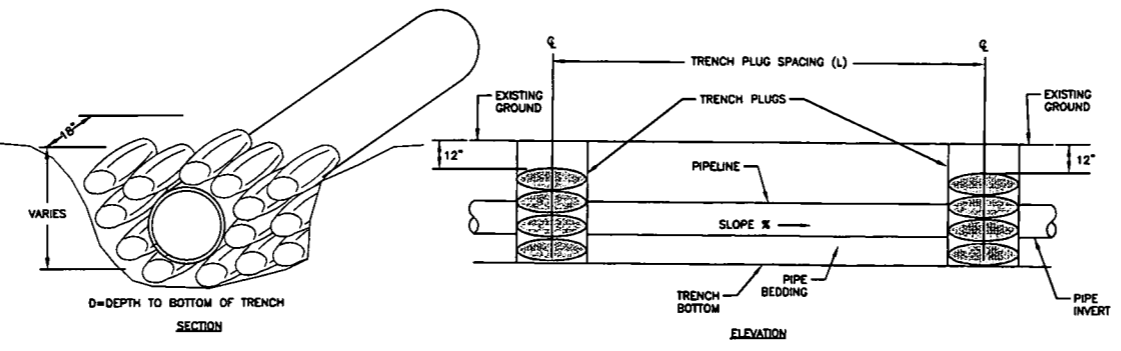
- NOTES:**
- GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FEET OF TOP-OF-BANK UNTIL ALL MATERIALS REQUIRED TO COMPLETE CROSSING ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
- BYPASS PUMP INTAKE SHALL BE MAINTAINED A SUFFICIENT DISTANCE FROM THE BOTTOM TO PREVENT PUMPING OF CHANNEL BOTTOM MATERIALS.
- TRENCH PLUGS SHALL BE INSTALLED WITHIN THE TRENCH ON BOTH SIDES OF THE STREAM CHANNEL.
- WATER ACCUMULATING WITHIN THE WORK AREA SHALL BE PUMPED TO A SEDIMENT BAG OR SEDIMENT TRAP PRIOR TO DISCHARGING INTO ANY RECEIVING SURFACE WATER.
- HAZARDOUS OR POLLUTANT MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM THE TOP OF THE STREAM BANK.
- ALL EXCESS EXCAVATED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA.
- ALL DISTURBED AREAS WITHIN 100 FEET OF TOP-OF-BANK SHALL BE BLANKETED OR MATTED WITHIN 72 HOURS OF INITIAL DISTURBANCE UNLESS OTHERWISE AUTHORIZED. APPROPRIATE STREAM BANK PROTECTION SHALL BE PROVIDED WITHIN THE CHANNEL FOR EROSION MATTING.

TYPICAL STREAM CROSSING WITH PUMP BYPASS (2/12)
NO SCALE



- NOTES:**
- IF THERE IS AN EXISTING BASE FLOW OR RUNOFF AT THE TIME OF THE TRENCHING, THE FLUME SHOULD BE INSTALLED PRIOR TO TRENCH EXCAVATION AT THAT LOCATION.
- THE FLUME SHOULD BE OF SUFFICIENT SIZE TO CONVEY NORMAL STREAM FLOW OVER THE OPEN TRENCH.
- SANDBAGS SHOULD BE USED TO DIRECT FLOW INTO THE FLUME. IF NO BASE FLOW OR RUNOFF EXISTS, THE FLUME MAY BE INSTALLED IMMEDIATELY FOLLOWING BACKFILLING OF THE TRENCH.
- IN CASES WHERE THE UTILITY LINE IS COMPLETED (FROM INITIAL DISTURBANCE TO FINAL STABILIZATION) WITHIN ONE DAY, NO FLUME IS REQUIRED.
- THE DISTURBED WATERWAY MUST BE RE-ESTABLISHED AND STABILIZED AS PART OF THE FINAL STABILIZATION.

TYPICAL FLUMED STREAM CROSSING (3/12)
NO SCALE



MAXIMUM SPACING AND MATERIALS FOR TRENCH PLUGS		
TRENCH SLOPE (%)	SPACING - L (FT)	PLUG MATERIAL
<5	1,000	*EARTH, CLAY, OR CONCRETE FILLED SACKS
5-15	500	*EARTH, CLAY, OR CONCRETE FILLED SACKS
15-25	300	*EARTH, CLAY, OR CONCRETE FILLED SACKS
25-35	200	*EARTH, CLAY, OR CONCRETE FILLED SACKS
35-100	100	*EARTH, CLAY, OR CONCRETE FILLED SACKS
>100	50	CEMENT FILLED BAGS (WETTED) OR MORTARED STONE

- NOTES:**
- PIPELINE TRENCH PLUG MUST BE INSTALLED WHEN CROSSING STREAMS, WETLANDS, OR OTHER WATER BODIES AND AS SHOWN ON DRAWINGS. TRENCH PLUGS SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. REFER TO THE TABLE FOR REQUIRED SPACINGS AND MATERIALS FOR TRENCH PLUGS.
 - TOPSOIL MAY NOT BE USED TO FILL SACKS.
 - IN LIEU OF FILL SACKS, POLYURETHANE FOAM CAN BE USED.

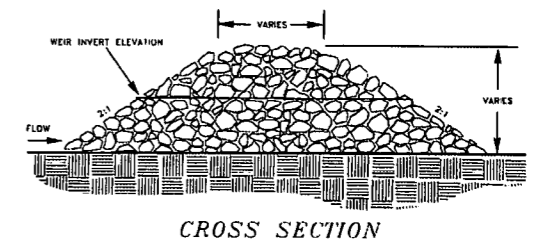
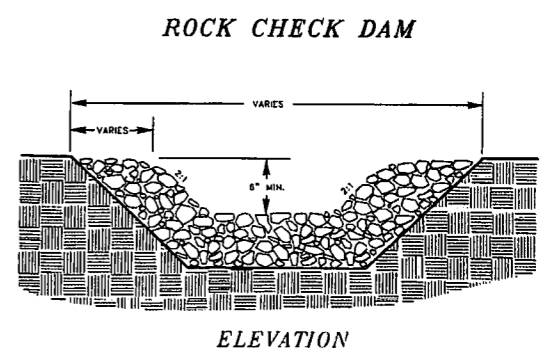
PIPELINE TRENCH BREAKER INSTALLATION DETAIL (6/12)
NO SCALE

For info on NPDES Storm Water Permit
To Comment on Sediment Control Plan
Call: 800-654-5227
or
DEP.Plan@ny.gov
DEP 601 57th Street, SE, Charleston WV 25304
Application date: XX/XX/XXXX
EQT MOSA S014 REPLACEMENT, DODDRIDGE COUNTY
INSTALLATION OF 14,789 FEET OF PIPE
(304) 848-0061

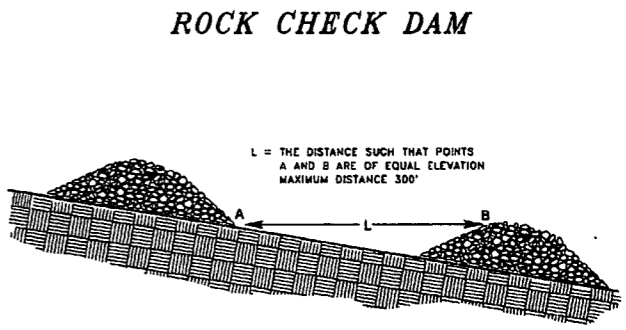
NOTES:
THE SIGN WILL BE AT LEAST 24" x 24" WITH 1.6" AND .8" LETTERS.

PUBLIC NOTICE SIGN DETAIL (4/12)

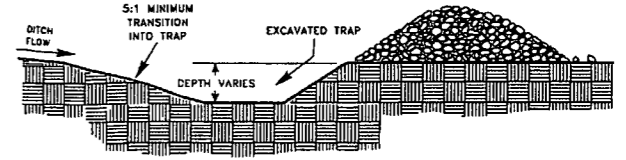
No.	Date	Revision



ROCK CHECK DAM 1 (8/12)
NO SCALE



CHECK DAM SPACING



CHECK DAM WITH SUMP

ROCK CHECK DAM 2 (9/12)
NO SCALE

PRELIMINARY

Leem Mixture

Rate (lb/1000 sq. ft.)	Seed Variety	Minimum Specifications	
		% Purity	% Total Germination
0.45	Red Fescue (Penawave)	95	85
0.90	Kentucky Bluegrass	85	75
0.70	Merion Bluegrass	90	75
0.20	Annual Ryegrass*	95	85

* Use Annual Ryegrass only in mixtures seeded after August 1 and before May 15.

General Mixture

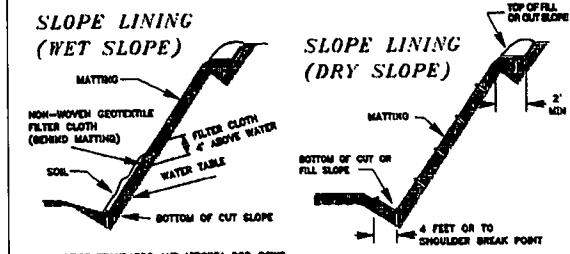
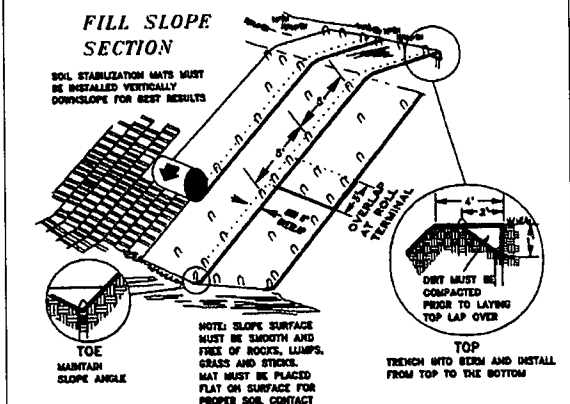
Variety of Seed	Spring	Fall
	3/15 - 5/31 lb/acre	9/15 - 10/15 lb/acre
Orchardgrass (Dactylis Glomerata)	15	15
Birdfoot Trefoil (Lotus Corniculatus)	15	15
Red Clover (Trifolium Pratense)	10	10
Annual Ryegrass (Lolium Multiflorum)	15	15
Bicolor Lespedeza	1	1
Forntail Millet or Hairy Vetch(2) (Vicia Villosa) or Winter Wheat	12	12
	5	5
	10	20

(1) Herbaceous Legumes must be treated with the appropriate herbicide before seeding. On areas which are steeply sloping (greater than 1:1) or in the prone to erosion (Cornucopia Series) at 30 pounds/acre for Birdfoot Trefoil.
(2) Use only if the area is shaded.

PERMANENT SEED MIXTURES (7/12)

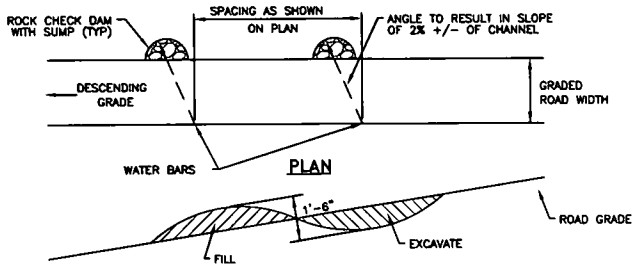
-DETAILS
 CAD File No.
 JM
 Drawn
 JS
 Checked
 JMS
 Approved
 AS NOTED
 Scale:
 NOV 2013
 Date:
 13-0339-002
 Project No.
POTESTA & ASSOCIATES, INC.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 7013 Macomber Ave. SE, Charleston, WV 25304
 TEL: (304) 842-1400 FAX: (304) 842-8081
 E-Mail Address: potesta@potesta.com
POTESTA
 Client
 EQT GATHERING, LLC
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA
 Title
 MISCELLANEOUS DETAILS
 EQT MOSA S014 GATHERING LINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA
 ISSUE DATE 11/20/2013
 12
 Drawing No.

ROLLED EROSION CONTROL PRODUCTS



NOTE: SEE 5/13 FOR ECTC SPECIFICATIONS.

ROLLED EROSION CONTROL MATTING

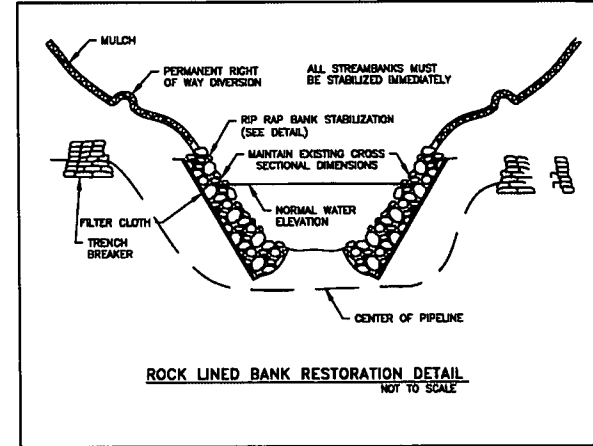


NOTE:
1. PROVIDE GRADUAL TRANSITION FOR CUT AND FILL SUCH THAT PICKUP TRUCK CAN CROSS WATER BAR
2. ROCK CHECK DAM WITH SUMP SHALL BE USED AS OUTLET PROTECTION WITH WATER BARS.

ROAD GRADE (%)	DISTANCE BETWEEN WATERBARS (FT.)
1	400
2	250
3	150
10	80
15	60
20	45
30	35

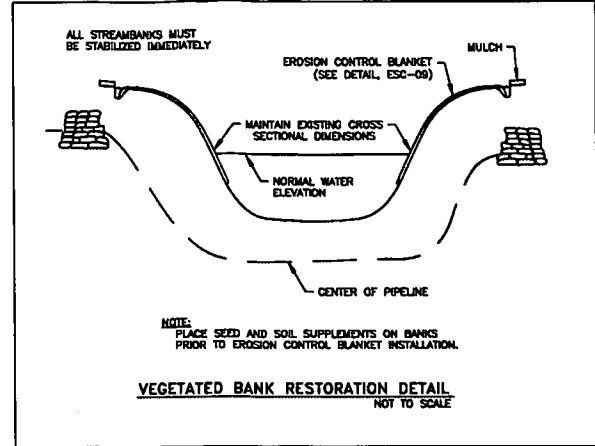
WATER BAR WITH ROCK CHECK DAM WITH SUMP OUTLET

NO SCALE



ROCK LINE RESTORATION DETAIL

NO SCALE



VEGETATED BANK RESTORATION DETAIL

NO SCALE

For use where natural vegetation alone will provide permanent erosion protection.

ULTRA SHORT-TERM - Typical 3 month functional longevity.		Slope Applications*		Channel Applications*		Minimum Tensile Strength ¹
Typ	Product Description	Maximum Gradient	C Factor ^{2,3}	Max. Shear Stress ^{4,5}		
1.A	Mulch Control Nets	3:1 (H:V)	≤ 0.10 @ 5:1	0.25 lbs/ft ² (12 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
1.B	Netless Rolled Erosion Control Blankets	4:1 (H:V)	≤ 0.10 @ 4:1	0.5 lbs/ft ² (24 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
1.C	Single-net Erosion Control Blankets & Open Weave Textiles	3:1 (H:V)	≤ 0.15 @ 3:1	1.5 lbs/ft ² (72 Pa)	50 lbs/ft (0.73 kN/m)	50 lbs/ft (0.73 kN/m)
1.D	Double-net Erosion Control Blankets	2:1 (H:V)	≤ 0.20 @ 2:1	1.75 lbs/ft ² (84 Pa)	75 lbs/ft (1.09 kN/m)	75 lbs/ft (1.09 kN/m)
SHORT-TERM - Typical 12 month functional longevity.		Slope Applications*		Channel Applications*		Minimum Tensile Strength ¹
Typ	Product Description	Maximum Gradient	C Factor ^{2,3}	Max. Shear Stress ^{4,5}		
2.A	Mulch Control Nets	3:1 (H:V)	≤ 0.10 @ 5:1	0.25 lbs/ft ² (12 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
2.B	Netless Rolled Erosion Control Blankets	4:1 (H:V)	≤ 0.10 @ 4:1	0.5 lbs/ft ² (24 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
2.C	Single-net Erosion Control Blankets & Open Weave Textiles	3:1 (H:V)	≤ 0.15 @ 3:1	1.5 lbs/ft ² (72 Pa)	50 lbs/ft (0.73 kN/m)	50 lbs/ft (0.73 kN/m)
2.D	Double-net Erosion Control Blankets	2:1 (H:V)	≤ 0.20 @ 2:1	1.75 lbs/ft ² (84 Pa)	75 lbs/ft (1.09 kN/m)	75 lbs/ft (1.09 kN/m)
EXTENDED-TERM - Typical 24 month functional longevity.		Slope Applications*		Channel Applications*		Minimum Tensile Strength ¹
Typ	Product Description	Maximum Gradient	C Factor ^{2,3}	Max. Shear Stress ^{4,5}		
3.A	Mulch Control Nets	3:1 (H:V)	≤ 0.10 @ 5:1	0.25 lbs/ft ² (12 Pa)	25 lbs/ft (0.36 kN/m)	25 lbs/ft (0.36 kN/m)
3.B	Erosion Control Blankets & Open Weave Textiles	1.5:1 (H:V)	≤ 0.25 @ 1.5:1	2.00 lbs/ft ² (96 Pa)	100 lbs/ft (1.45 kN/m)	100 lbs/ft (1.45 kN/m)
LONG-TERM - Typical 36 month functional longevity.		Slope Applications*		Channel Applications*		Minimum Tensile Strength ¹
Typ	Product Description	Maximum Gradient	C Factor ^{2,3}	Max. Shear Stress ^{4,5}		
4	Erosion Control Blankets & Open Weave Textiles	1:1 (H:V)	≤ 0.25 @ 1:1	2.25 lbs/ft ² (108 Pa)	125 lbs/ft (1.82 kN/m)	125 lbs/ft (1.82 kN/m)

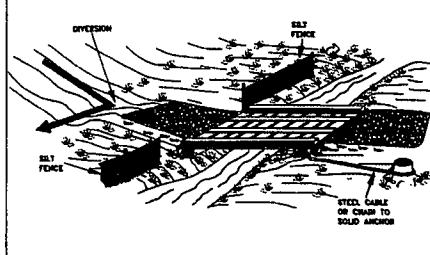
* C Factor and shear stress for Types 1.A, 2.A, and 3.A mulch control nettings must be obtained with netting used in conjunction with pre-applied mulch material.
¹ Minimum Average Tensile Values, Machine direction using ECTC Method ASTM D 635.
² C Factor calculated as ratio of soil loss from RECP protected slope (tested at specified or greater gradient, h:v) to ratio of soil loss from unprotected (control) plot in large-scale testing. These performance test values should be supported by periodic bench scale testing under similar test conditions using Erosion Control Technology Council (ECTC) Test Method # 2.
³ Required minimum shear stress RECP (unvegetated) can sustain without physical damage or excessive erosion (> 12.7 mm (0.5 in) soil loss) during a 30-minute flow event in large-scale testing. These performance test values should be supported by periodic bench scale testing under similar test conditions and failure criteria using Erosion Control Technology Council (ECTC) Test Method # 3.
⁴ Acceptable shear stress levels established for each performance category are based on historical experience with products characterized by Manning's roughness coefficients in the range of 0.01 - 0.05.
⁵ Acceptable large-scale test methods may include ASTM D6459, Erosion Control Technology Council (ECTC) Test Method # 2, or other independent testing deemed acceptable by the engineer.
 For the engineer's discretion, Recommended acceptable large-scale testing protocol may include ASTM D6460, Erosion Control Technology Council (ECTC) Test Method # 3 or other independent testing deemed acceptable by the engineer.

ECTC STANDARD SPECIFICATION FOR TEMPORARY ROLLED EROSION CONTROL PRODUCTS

NO SCALE

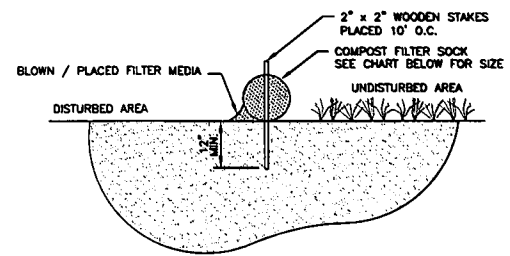
No.	Date	Revision

TEMPORARY BRIDGE CROSSING



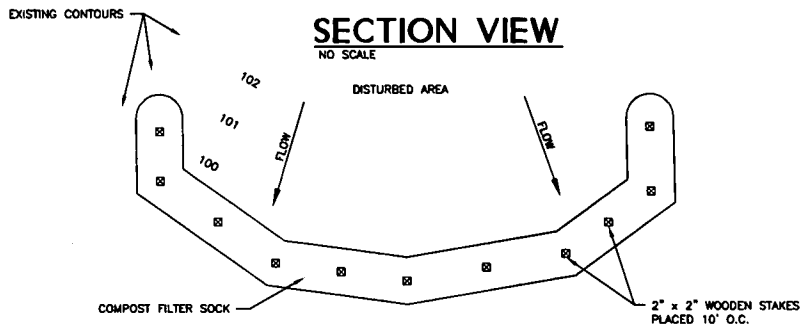
TEMPORARY BRIDGE CROSSING DETAIL

NO SCALE



SECTION VIEW

NO SCALE



PLAN VIEW

NO SCALE

COMPOST SHALL MEET THE FOLLOWING STANDARDS

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
PH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM

SLOPE PERCENT	MAXIMUM SLOPE LENGTH ABOVE SEDIMENT CONTROL IN FEET *				
	8 INCH ** SEDIMENT CONTROL	12 INCH ** SEDIMENT CONTROL	18 INCH ** SEDIMENT CONTROL	24 INCH ** SEDIMENT CONTROL	32 INCH ** SEDIMENT CONTROL
2 OR LESS	600	750	1000	1300	1650
5	400	500	550	650	750
10	200	250	300	400	500
15	140	170	200	325	450
20	100	125	140	260	400
25	80	100	110	200	275
30	60	75	90	130	200
35	60	75	80	115	150
40	60	75	80	100	125
45	40	50	60	80	100
50	40	50	55	65	75

* BASED ON A FAILURE OF 36" SUPER SILT FENCE (WIRE REINFORCED AT 1000 FEET OF SLOPE, WATERSHED EQUIVALENT TO RECEIVING LENGTH OF SEDIMENT CONTROL DEVICE, 1 IN. / 24 HR RAIN EVENT)

** EFFECTIVE HEIGHT OF SEDIMENT CONTROL AFTER INSTALLATION AND WITH CONSTANT HEAD FROM RUNOFF AS DETERMINED BY OHIO STATE UNIVERSITY.

COMPOST FILTER SOCK

NO SCALE

PRELIMINARY

-DETAILS
CAD File No.
JM
Drawn
JS
Checked
JMS
Approved
AS NOTED
Scale:
NOV 2013
Date:
13-0539-002
Project No.

POTESTA & ASSOCIATES, INC.
ENGINEERS AND ENVIRONMENTAL CONSULTANTS
7015 MacCorkle Ave. SE, Charleston, WV 25304
TEL: (304) 342-1400 FAX: (304) 343-9031
E-Mail Address: potesta@potesta.com

POTESTA

EQT GATHERING, LLC
115 PROFESSIONAL PLACE
BRIDGEPORT, WEST VIRGINIA

MISCELLANEOUS DETAILS
EQT MOSA 5014 GATHERING LINE
EROSION & SEDIMENT CONTROL PLAN
DODDRIDGE COUNTY, WEST VIRGINIA

13
Drawing No.

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ISSUE DATE 11/20/2013