

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to EQT, 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: #14-193 WEU 6 Well Line

Date Approved: 07/10/2014

Expires: N/A

Issued to: EQT Corporation

**POC: Megan Lanfried
304-848-0082**

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

Project Address: West Union District

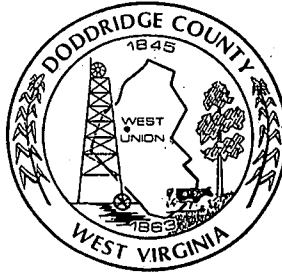
Firm: N/A Lat/Long: 39.281759N/80.757295W

Purpose of development: Pipeline. Project does not impact floodplain.

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

Date: 07/10/2014

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



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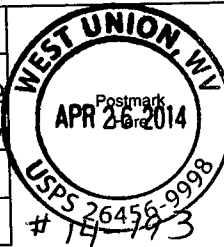
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118 East Court Street; West Union, WV 26456

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

| | |
|---|----------------|
| Postage | \$.48 |
| Certified Fee | 3.30 |
| Return Receipt Fee (Endorsement Required) | 2.70 |
| Restricted Delivery Fee (Endorsement Required) | |
| Total Postage & Fees | \$ 6.48 |



Sent To Charles & Barbara 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

2958 4169 1000 0522 E107

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: **14-193**

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

2. Article Number

*(Transfer from service label)***7013 2250 0001 6914 8582**

PS Form 3811, July 2013

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Charles Wellings Agent Addressee

B. Received by (Printed Name)

Barbara Wellings

C. Date of Delivery

4-29-14D. Is delivery address different from item 1? YesIf YES, enter delivery address below: No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

Domestic Return Receipt

UNITED STATES POSTAL SERVICE



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

FILED

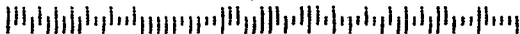
APR 30 AM 10:32

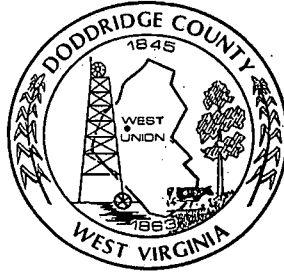
**WEST VIRGINIA
COUNTY CLERK
DODDGE COUNTY WV**

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

Weston
Dodge County FloodPlain MGT
118 East Court-St., Suite 102
West Union, WV 26456

5456129790





Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to EQT, 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: #14-193 WEU 6 Well Line

Date Approved: 07/10/2014

Expires: N/A

Issued to: EQT Corporation

**POC: Megan Lanfried
304-848-0082**

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

Project Address: West Union District

Firm: N/A Lat/Long: 39.281759N/80.757295W

Purpose of development: Pipeline. Project does not impact floodplain.

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

Date: 07/10/2014

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

Doddridge County, West Virginia

RECEIPT NO: 2016

DATE: 2014/04/25

FROM: POTESTA & ASSOCIATES INC

AMOUNT: \$ 3,363.00

THREE THOUSAND THREE HUNDRED SIXTY THREE DOLLARS AND 00 CENTS

FOR: #14-193 EQT PRODUCTION WEU 6 WELL LINE

00000012294 FP-BUILDING PERMITS

020-318

TOTAL: \$3,363.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 24th day of April, 2014

EQT PRODUCTION COMPANY #14-193

filed an

application for a Floodplain Permit to develop land located at or
about: **SURFACE OWNERS: CHARLES WELLINGS JR. AND BARBARA L.
WELLINGS, WEST UNION DISTRICT BLUESTONE, RT. 18 SOUTH,
TAX MAP 16 PARCEL 16**

The Application is on file with the Clerk of the County Court and
may be inspected or copied during regular business hours.

Any interested persons who desire to comment shall present
the same in writing by **May 14, 2014.**

Delivered to the:
Clerk of the County Court
118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk
Edwin L. "Bo" Wriston, Doddridge County Flood Plain Manager

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 7th day of July, 2014

EQT Corporation

filed a revised application for a Floodplain Permit to develop land located at or about:

West Union District 39.281759N / 80.757295W

Permit #14-193 WEU 6 Well Line

(Note: This project is not within the floodplain)

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. As this project is outside the FEMA identified floodplain of Doddridge County, Doddridge County Floodplain Management has no regulatory authority.

Any interested persons who desire to comment shall present the same in writing by **August 4, 2014**, delivered to:

Clerk of the County Court
118 E. Court Street, West Union, WV 26456
Beth A Rogers, Doddridge County Clerk
Edwin L. "Bo" Wriston, Doddridge County Flood Plain Manager



Edwin L. "Bo" Wriston, Floodplain Manager
Doddridge County Commission
118 East Court Street
West Union, WV 26456

July 7, 2014

RE: EQT Production Company
WEU 6 Well Line Project
Doddridge County, West Virginia


Mr. Wriston,

On April 11, 2014 EQT Production Company submitted an application to your office to construct a section of the WEU 6 Well Line within the limits of the floodplain in Doddridge County. After a grievance was filed by the landowner, Mr. Wellings, EQT Production Company examined the Project and discovered that the foot print could be significantly reduced. The original proposed pipeline right-of-way is shown on the attached map. The section of right-of-way that will be constructed as the WEU 6 Well Line is shown in green. This change in route has moved the pipeline off of Mr. Welling's property and out of the floodplain eliminating the need of a permit from your office.

EQT Production Company kindly requests your concurrence to being construction on this Project as soon as possible.

Please feel free to contact me at 304-848-0061 or at mlandfried@eqt.com should you have any questions or comments.

Sincerely,


Megan E. Landfried



Engineers and Environmental Consultants

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

14-193
EQT Production
WEU 6 Well Line

April 2, 2014

Doddridge County Floodplain Coordinator
Doddridge County Commission
118 East Court Street
West Union, West Virginia 26456

RE: Floodplain Permit Application
EQT Production Company
EQT WUE 6 Well Line
Doddridge County, West Virginia
POTESTA Project No. 0101-11-0147-603

FILED
2014 APR 17 AM 9:03
BETH A. RODGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

Dear Sir/Madam:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this cover letter with the associated Floodplain Development Permit Application for the proposed WEU 6 Well Line Project. The proposed project will consist of installing approximately 10,248 linear feet of well line from the West Union 2 Well Site to the West Union 6 Well Site. Based on information presented on the site FIRM, a portion of the project is located within FEMA Flood Zone A from approximate Stations 57+70 to 63+00. 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 entrances, installation of water bars to control surface runoff, and installation of a buried well line. All work associated with the proposed WEU 6 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 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.

Included with this permit application is the Erosion and Sediment Control Plans for this project that show the well line alignment, proposed limits of disturbance, proposed erosion and sediment controls, and the approximate location of the floodplain.

POTESTA & ASSOCIATES, INC.

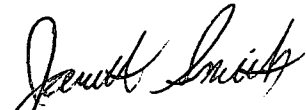
Charleston, West Virginia ° Morgantown, West Virginia ° Winchester, Virginia

Floodplain Coordinator
April 2, 2014
Page 2

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

FILED

W 266 well line

2014 APR 17 AM 9:03

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

DODDRIDGE COUNTY

FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

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

APPLICANT'S SIGNATURE Megan E. Jorgensen

DATE 4/11/14

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 Production Company
ADDRESS: 115 Professional Place, Bridgeport, WV 26330
TELEPHONE NUMBER: 304-848-0061

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

ENGINEER'S NAME: Potesta & Associates, Inc.
ADDRESS: 7012 MacCorkle Avenue, SE, Charleston, WV 25304
TELEPHONE NUMBER: 304-342-1400

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler & Key Oil Co.,

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler, 2567
Spring Hill Rd., Staunton, Virginia, 24401,
Key Oil Company, a West Virginia Corporation, 22 Garton Plaza, Weston, WV 26452

DISTRICT: West Union

DATE/FROM WHOM PROPERTY PURCHASED: Franklin L. Butler & Key Oil Company; June 30th,
2003 from; Ellen L. Barnes

LAND BOOK DESCRIPTION: BLUESTONE 86.09 AC

DEED BOOK REFERENCE: Deed Book 256 Page 324

TAX MAP REFERENCE: Tax Map 12 Parcel 71.1

EXISTING BUILDINGS/USES OF PROPERTY: Hunting Cabin and metal building

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

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler & Key Oil Co.,
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Franklin L. Butler, 2567
Spring Hill Rd., Staunton, Virginia, 24401,
Key Oil Company, a West Virginia Corporation, 22 Garton Plaza, Weston, WV 26452
DISTRICT: West Union
DATE/FROM WHOM PROPERTY PURCHASED: Franklin L. Butler & Key Oil Company; July 20th,
1994 from; Patrick D. Deem & Louis E. Enderle, Jr.
LAND BOOK DESCRIPTION: 15ac 80 p, Middle Island Creek
DEED BOOK REFERENCE: Deed Book 259 Page 275
TAX MAP REFERENCE: Tax Map 12 Parcel 64.1
EXISTING BUILDINGS/USES OF PROPERTY: N/A
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

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Phillis Marie Steele, executrix
of the William P. McCutchan Estate,
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Phillis Marie Steele,
Executrix of the estate of William Paul McCutchan, 307 Wood Street, West Union, WV 26456
DISTRICT: West Union
DATE/FROM WHOM PROPERTY PURCHASED: Leeman Maxwell III & Edna Maxwell, his wife
LAND BOOK DESCRIPTION: Bluestone MH 123.38ac
DEED BOOK REFERENCE: Deed Book 123 Page 72
TAX MAP REFERENCE: Tax Map 16 Parcel 1
EXISTING BUILDINGS/USES OF PROPERTY: Trailer – camp, storage container, bathhouse, trailer-
storage, picnic shelter
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

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Charles Wellings, Jr & Barbara L. Wellings

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Charles Wellings Jr. and Barbara L. Wellings, HC 68 Box 3, West Union, WV 26456

DISTRICT: West Union

DATE/FROM WHOM PROPERTY PURCHASED: Charles Wellings, Jr.

LAND BOOK DESCRIPTION: BLUESTONE 650.84 AC (SURFACE)

DEED BOOK REFERENCE: Deed Book 240 Page 545

TAX MAP REFERENCE: Tax Map 16 Parcel 16

EXISTING BUILDINGS/USES OF PROPERTY: house – residence, 5 barns/storage buildings

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Charles Wellings Jr.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Charles Wellings Jr., HC 68 Box 3, West Union, WV 26456

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

| <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 \$572,600**

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: LONE PINE OPERATING INC
ADDRESS: RT 5 BOX 436
SALEM, WV 26426

NAME: I.L. Morris
ADDRESS: P.O. Box 397
Glenville, WV 26351

NAME: Winnie J. Hackely, etal
ADDRESS: 517 NORTH LAKE DR
MONROE, NC 28112

NAME: Sue Ann Spiker
ADDRESS: 166 Linden Lane
Jane Lew, WV 26378

NAME: Karen M. Ireland Family Limited Pa
ADDRESS: 342 Ireland Road
Pullman, WV 26421

NAME: Carolyn E. Farr Irrevocable Trust
ADDRESS: P.O. Box 1126
Bridgeport, WV 26330

NAME: Franklin L. Butler
ADDRESS: 2567 Spring Hill Road
Staunton, VA 24401

NAME: Key Oil Company
ADDRESS: 22 Garton Plaza
Weston, WV 26452

NAME: James Terrance Robinson
ADDRESS: 41 Escarqot Xing
Harrisville, WV 26362

NAME: Paul Eugene Cumpston
ADDRESS: 344 Blair Ave
Mineral Wells, WV 26150

NAME: Donivan L. Cumpston
ADDRESS: Rt. 1 Box 419
Greenwood, WV 26415

NAME: Julia Ann Robinson Rogers
ADDRESS: 399 McDougal Drive
Pennsboro, WV 26415

NAME: Kathryn E. Robinson Summers
ADDRESS: 142 Pine Drive
Pennsboro, WV 26415

NAME: Dodridge Count 4-H Association
ADDRESS: Rt. 2 Box 98
Salem, WV 26426

NAME: E Properties % David Bowyer
ADDRESS: P.O. Box 202
West Union, WV 26456

NAME: Ruth M. Davies Pierce, %Tom Davies
ADDRESS: 1104 Greenmont Circle
Vienna, WV 26105

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: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.
- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): _____

SIGNATURE: _____ DATE: _____

After completing SECTION 2, APPLICANT should submit form to Floodplain Administrator/Manager or his/her representative for review.

SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: _____

Dated: _____

Is **NOT** located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and **NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED**).

Is located in Special Flood Hazard Area.
FIRM zone designation _____
100-Year flood elevation is: _____ NGVD (MSL)

Unavailable

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

See section 4 for additional instructions.

SIGNED _____ **DATE** _____

**SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by
Floodplain Administrator/Manager or his/her representative)**

The applicant must submit the documents checked below before the application can be processed.

- A plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.

- Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proffing of utilities located below the first floor and details of enclosures below the first floor. Also _____

- Subdivision or other development plans (If the subdivision or development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).

- Plans showing the extent of watercourse relocation and/or landform alterations.

- Top of new fill elevation _____ Ft. NGVD (MSL).
For floodproofing structures applicant must attach certification from registered engineer or architect.

- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.

- Manufactured homes located in a floodplain area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).

- Other:

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

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

SIGNED _____ DATE _____

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

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

CONDITIONS: _____

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

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

COMPLETE 1 OR 2 BELOW:

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

2 Actual (As Built) elevation of floodproofing is _____ FT. NGVD (MSL)

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

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

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

INSPECTIONS:

DATE: _____ BY: _____
DEFICIENCIES ? Y/N

COMMENTS _____

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

Certificate of Compliance issued: DATE: _____ BY: _____

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

PERMIT NUMBER: _____

PERMIT DATE: _____

PURPOSE –

CONSTRUCTION LOCATION: _____

OWNER'S ADDRESS: _____

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

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

SIGNED _____ **DATE** _____

EQT WEU 6



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 3/31/2014

| | | | |
|--|----------------------------------|--|---------------------------|
| | 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.

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 791 feet

Water Depth: About 3.15 feet (Source: HEC_RAS)

Elevation: About 789 feet

Location (long, lat): 80.757295 W, 39.281759 N

Location (UTM 17N): (520933, 4348073)

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:



FIGURE 4
FLOOD ZONE MAP
WEU-6 WELL LINE
EQT
DODDRIDGE COUNTY,
WEST VIRGINIA
 DATE: DECEMBER 22, 2011
 G:\Projects\2011\11-0147 EQT Well Sites\Map Documents
 \WEU6WLL\WEU6WL_FIG_4.mxd



| No. | Date | Revision |
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DESIGN
 CAD File No.
 JM
 Drawn
 JWS
 Checked
 JMS
 Approved
 AS NOTED
 Scale:
 FEB 2014
 Date:
 11-0147-603
 Project No.

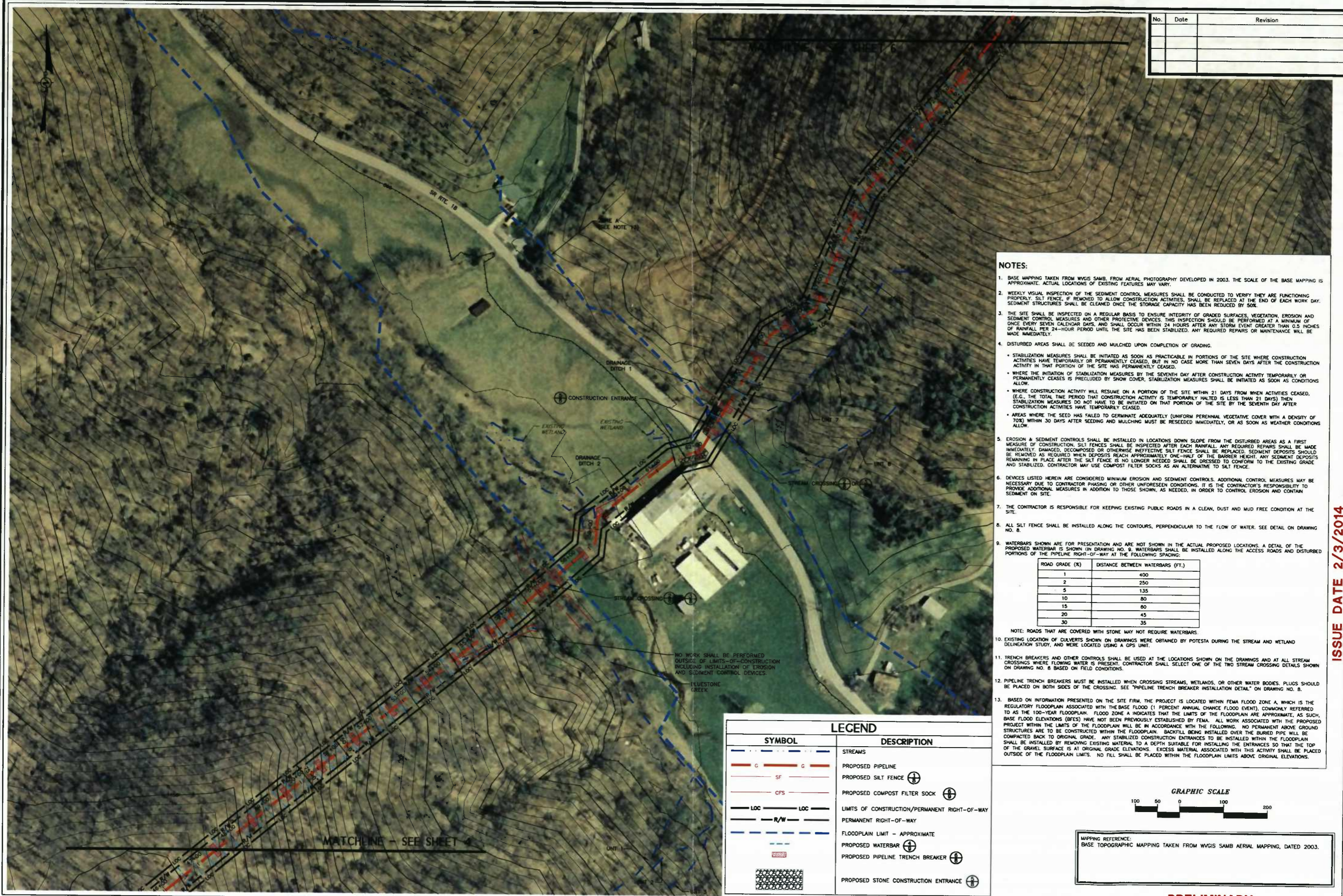
POTESTA & ASSOCIATES, INC.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 7012 MacCombs Ave. SE, Charlottesville, VA 28904
 TEL: (804) 342-1400 FAX: (804) 343-9031
 E-Mail Address: potesta@potesta.com

POTESTA

EQT PRODUCTION COMPANY
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA

SITE PLAN
 EQT WEU6 WELL LINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

5
 Drawing No.



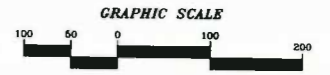
NOTES:

- BASE MAPPING TAKEN FROM WGIS 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 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. B.
- WATERBARS SHOWN ARE FOR PRESENTATION AND ARE NOT SHOWN IN THE ACTUAL PROPOSED LOCATIONS. A DETAIL OF THE PROPOSED WATERBAR IS SHOWN IN DRAWING NO. 9. 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.
- EXISTING LOCATION OF CULVERTS SHOWN ON DRAWINGS WERE OBTAINED BY POTESTA DURING THE STREAM AND WETLAND DELINEATION STUDY, AND WERE LOCATED USING A GPS UNIT.
- 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. PLUS SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. SEE "PIPELINE TRENCH BREAKER INSTALLATION DETAIL" ON DRAWING NO. 8.
- 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 PROJECT 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 PIPE 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.

| LEGEND | |
|--------|---|
| SYMBOL | DESCRIPTION |
| | STREAMS |
| | PROPOSED PIPELINE |
| | PROPOSED SILT FENCE |
| | PROPOSED COMPOST FILTER SOCK |
| | LIMITS OF CONSTRUCTION/PERMANENT RIGHT-OF-WAY |
| | PERMANENT RIGHT-OF-WAY |
| | FLOODPLAIN LIMIT - APPROXIMATE |
| | PROPOSED WATERBAR |
| | PROPOSED PIPELINE TRENCH BREAKER |
| | PROPOSED STONE CONSTRUCTION ENTRANCE |



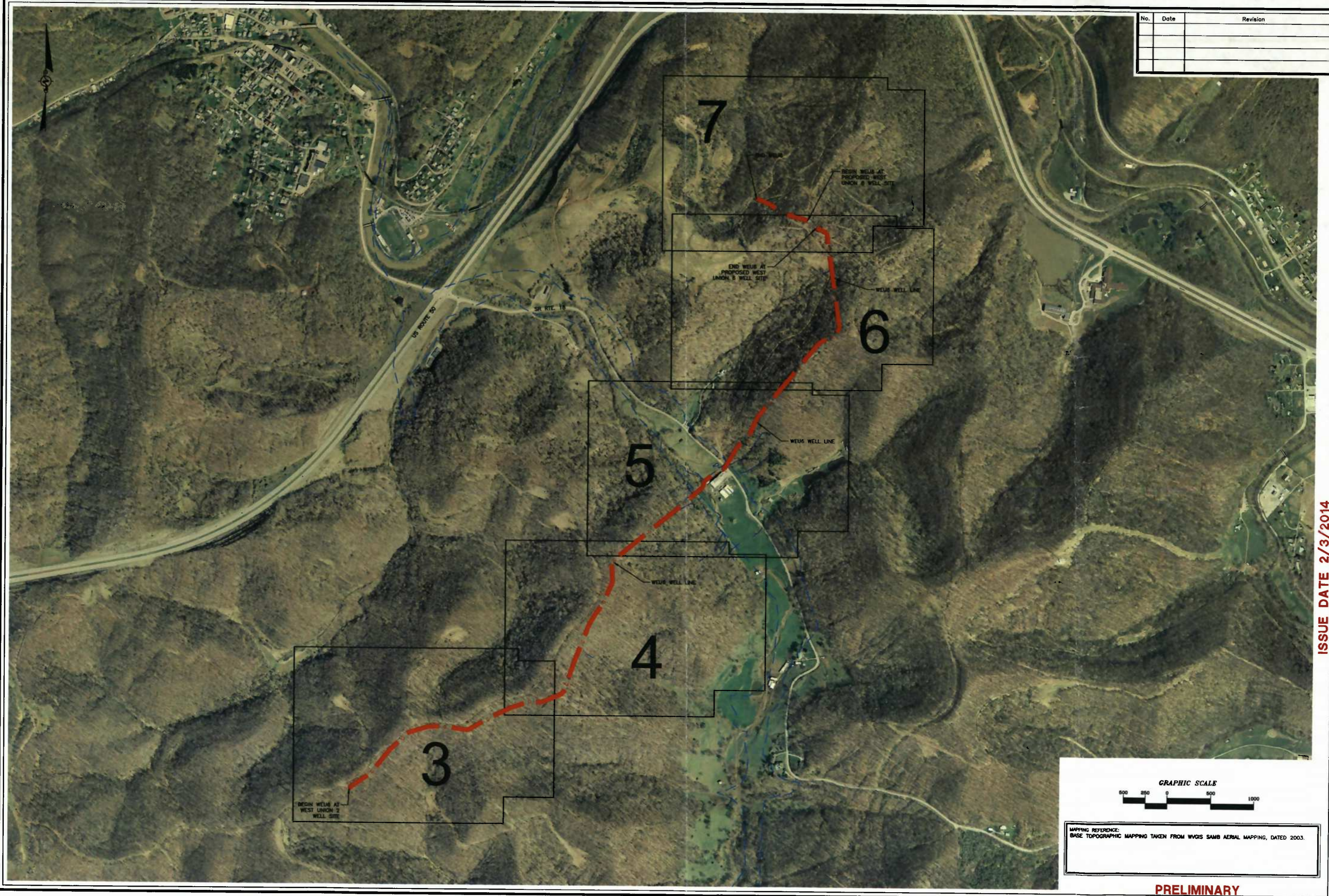
MAPPING REFERENCE:
 BASE TOPOGRAPHIC MAPPING TAKEN FROM WGIS SAMB AERIAL MAPPING, DATED 2003.

PRELIMINARY

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 PLOT DATE: FEB 11, 2014 10:05 AM
 PLOT SCALE: 1"=50'
 PLOT SHEET: 5 OF 5
 PLOT BY: JMS

ISSUE DATE 2/3/2014

DATE PLOTTED: 02/03/2014 10:58:53
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 PLOT SCALE: 1:1
 PLOT DEVICE: HP DesignJet 2500cm



| No. | Date | Revision |
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DESIGN
 CAD File No.
 JM
 Drawn
 JWS
 Checked
 JMS
 Approved
 AS NOTED
 Scale:
 FEB 2014
 Date:
 11-0147-603
 Project No.

POTESTA & ASSOCIATES, INC.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 7012 MacCordle Ave. SE, Charleston, WV 25304
 TEL: (304) 342-1400 FAX: (304) 343-9031
 E-Mail Address: potesta@potesta.com



ISSUE DATE 2/3/2014

Client
 EQT PRODUCTION COMPANY
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA

Title
 OVERALL LAYOUT
 EQT WEU6 WELL LINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

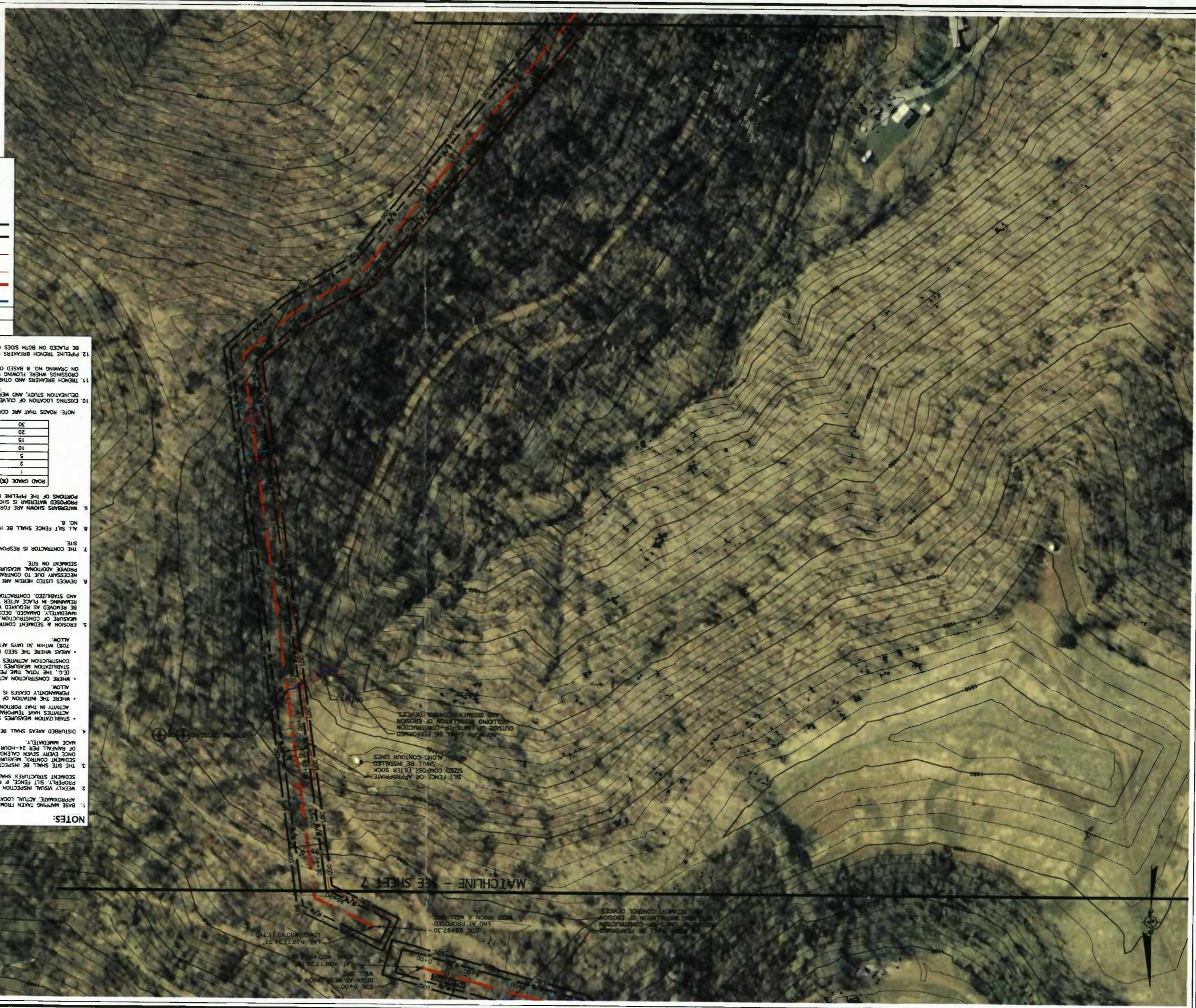
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MAPPING REFERENCE:
 BASE TOPOGRAPHIC MAPPING TAKEN FROM WVGIS SAMB AERIAL MAPPING, DATED 2003.

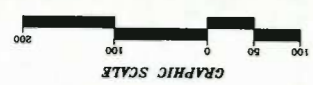
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 DATE CHECKED: 11/11/14 11:00 AM
 DATE APPROVED: 11/11/14 11:00 AM
 DATE REVISION: 11/11/14 11:00 AM



PRELIMINARY

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



| SYMBOL | DESCRIPTION |
|--------|---|
| | STREAMS |
| | PROPOSED PIPELINE |
| | PROPOSED SILT FENCE |
| | PROPOSED COMPOST FILTER SOCK |
| | LIMITS OF CONSTRUCTION/PERMANENT RIGHT-OF-WAY |
| | PERMANENT RIGHT-OF-WAY |
| | PROPOSED WATERBAR |
| | PROPOSED PIPELINE TRENCH BREAKER |
| | PROPOSED STONE CONSTRUCTION ENTRANCE |

- NOTES:**
1. BASE MAPPING TAKEN FROM WVGIS SWMB, FROM AERIAL PHOTOGRAPHY DEVELOPED IN 2003. THE SCALE OF THE BASE MAPPING IS APPROXIMATE. ACTUAL LOCATIONS OF EXISTING FEATURES MAY VARY.
 2. 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%.
 3. THE SITE SHALL BE INSPECTED IN A REGULAR INTERVAL 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 (7) 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.
 4. DISTURBED AREAS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF GRADING.
 5. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
 6. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS COMMONS ALLOW.
 7. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (C.E.) THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 (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.
 8. AREAS WHERE THE SEED HAS FAILED TO GERMINATE PROMPTLY (UNTIL PROMPTLY RESEEDING COCKER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
 9. EROSION & SEDIMENT CONTROLS SHALL BE INSTALLED IN LOCATIONS DOWN SLOPE FROM THE DISTURBED AREAS AS A FIRST MEASURE OF PROTECTION. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DISTURBED AREAS SHALL BE RESEEDED IMMEDIATELY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DISTURBED AREAS SHALL BE RESEEDED IMMEDIATELY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 10. DEVIATION LOCATION OF CULVERTS SHOWN ON DRAWINGS WERE OBTAINED BY POTESTA DURING THE STREAM AND WETLAND DETAILING STUDY, AND WERE LOCATED USING A GPS UNIT.
 11. 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.
 12. PIPELINE TRENCH BREAKERS MUST BE INSTALLED WHEN CROSSING STREAMS, WETLANDS, OR OTHER WATER BODIES. PILES SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. SEE PIPELINE TRENCH BREAKER INSTALLATION DETAIL ON DRAWING NO. 8.

| ROAD GRADE (%) | DISTANCE BETWEEN WATERBARS (FT.) |
|----------------|----------------------------------|
| 1 | 400 |
| 2 | 250 |
| 3 | 150 |
| 5 | 100 |
| 10 | 80 |
| 15 | 60 |
| 20 | 40 |
| 30 | 30 |

6

SITE PLAN
EQ1 WEUG WELL LINE
EROSION & SEDIMENT CONTROL PLAN
DODDRIDGE COUNTY, WEST VIRGINIA

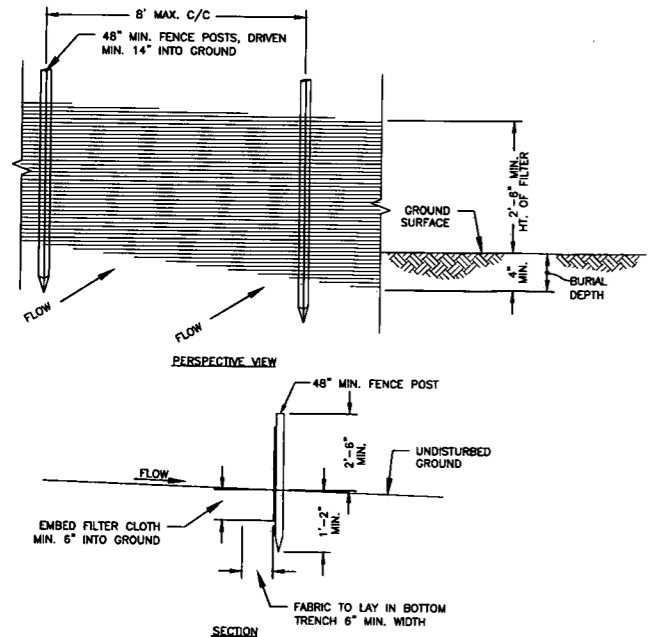
Client:
EQ1 PRODUCTION COMPANY
115 PROFESSIONAL PLACE
BRIDGEPORT, WEST VIRGINIA

POTESTA & ASSOCIATES, INC.
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 7012 MacArthur Ave. SE, Charleston, WV 25304
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 Approved: JMS
 AS NOTED
 Scale: _____
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 Project No. 11-0147-803

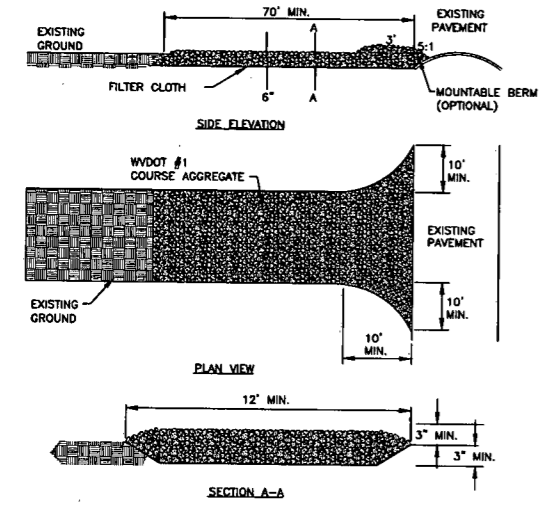
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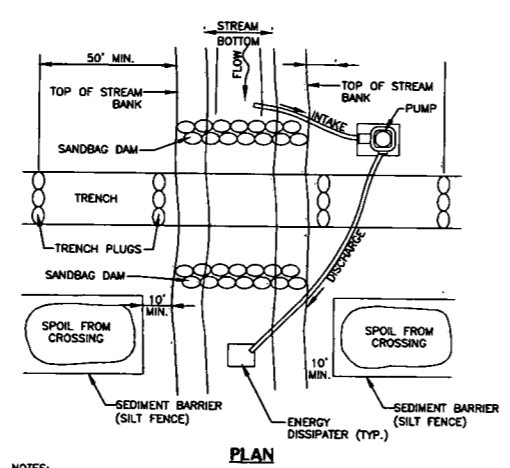
- NOTES:**
- WHEN TWO SECTIONS OF SILT FENCE JOIN, OVERLAP ACCORDING TO MANUFACTURERS PUBLISHED RECOMMENDATIONS.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN HALF OF EXPOSED SILT FENCE IS COVERED WITH SEDIMENT.
 - POSTS SHALL BE CONSTRUCTED OF STEEL EITHER "T" OR "U" TYPE OR 1.5" HARDWOOD.
 - FILTER CLOTH SHALL BE "FILTER X", "MIRAF 100X", "JINO 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 (1/8)
NO SCALE



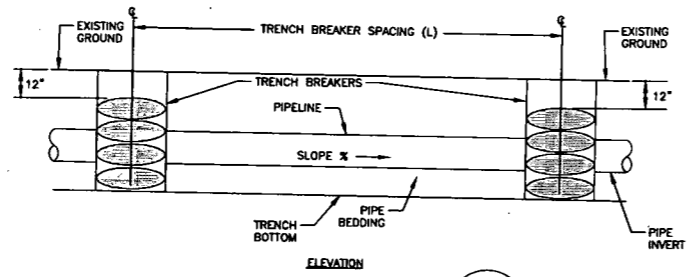
- NOTES:**
- TOP SOIL SHOULD BE REMOVED PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE
 - EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
 - RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
 - MOUNTABLE BERM SHOULD BE INSTALLED WHEREVER 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 (5/8)
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 PUMPINGS 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.

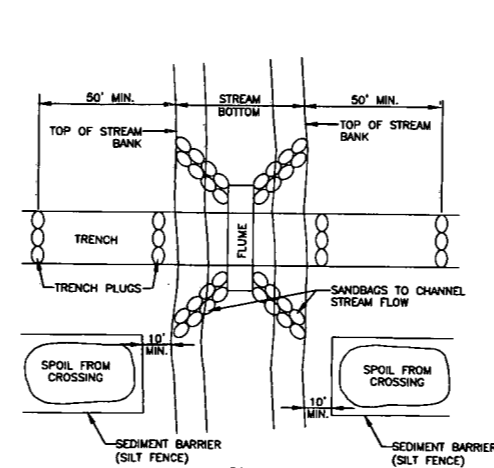
TYPICAL STREAM CROSSING WITH PUMP BYPASS (2/8)
NO SCALE



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

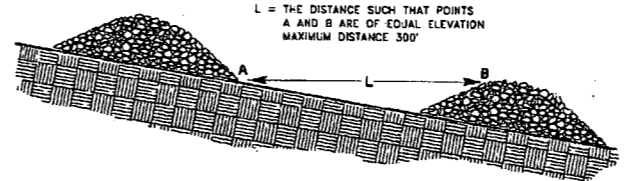
- NOTES:**
- PIPELINE TRENCH BREAKER MUST BE INSTALLED WHEN CROSSING STREAMS, WETLANDS, OR OTHER WATER BODIES AND AS SHOWN ON DRAWINGS. TRENCH BREAKERS SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. REFER TO THE TABLE FOR REQUIRED SPACINGS AND MATERIALS FOR TRENCH BREAKERS.
 - TOPSOIL MAY NOT BE USED TO FILL SACKS.
 - CONCRETE FILLED SACKS ARE NOT ALLOWED WITH WATER COURSE AREAS.

PIPELINE TRENCH BREAKER INSTALLATION DETAIL (6/8)
NO SCALE

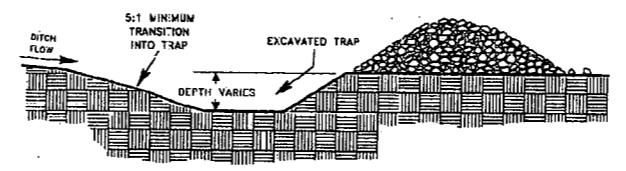


- NOTES:**
- IF THERE IS AN EXISTING BASE FLOW OR RUNOFF AT THE TIME OF THE TRENCHING, THE FLUME SHOULD BE INSTALLED PRIOR TO TRENCH EXCAVATION AT THAT LOCATION.
 - THE FLUME SHOULD BE OF SUFFICIENT SIZE TO CONVEY NORMAL STREAM FLOW OVER THE OPEN TRENCH.
 - SANDBAGS SHOULD BE USED TO DIRECT FLOW INTO 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 (3/8)
NO SCALE



CHECK DAM SPACING



CHECK DAM WITH SUMP

ROCK CHECK DAM 2 (9/8)
NO SCALE

For info on NPDES Storm Water Permit
To Comment on Sediment Control Plan
Call: 800-654-5227
or
DEP.Plan@dep.gov
DEP 601 57th Street, SE, Charleston WV 25304
Application date: XX/XX/XXXX
EQT WEU6 WELL LINE, DODDRIDGE COUNTY
INSTALLATION OF 10,248 FEET OF GAS LINE
(304) 848-0061

PUBLIC NOTICE SIGN DETAIL (4/8)
NO SCALE

Lawn Mixture

| Rate (lb/1000 sq. ft.) | Seed Variety | % Purity | % Total Germination |
|------------------------|------------------------|----------|---------------------|
| 0.45 | Red Fescue (Pentalawa) | 98 | 85 |
| 0.50 | Kentucky Bluegrass | 82 | 75 |
| 0.70 | Merino Bluegrass | 90 | 75 |
| 0.20 | Annual Ryegrass* | 92 | 85 |

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

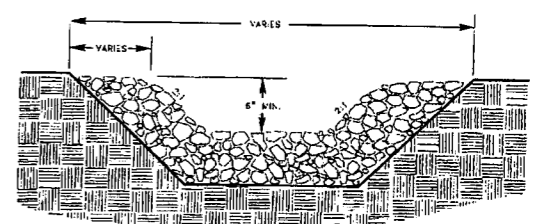
General Mixture

| Quantity of Seed | Spring 3/15 - 5/31 lb/acre | Fall 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 |
| Foxtail Millet | 12 | 12 |
| or Hairy Vetch(2) (Vicia Villosa) | 5 | 5 |
| or Winter Wheat | 10 | 20 |

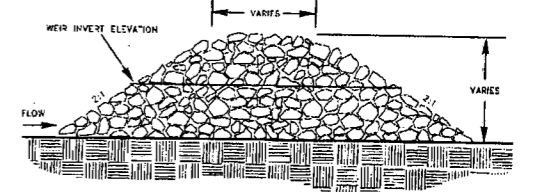
(1) Winter wheat requires must be planted with the appropriate equipment before seeding. On areas which are steeply sloping (steeper than 1:1) or shall prone to subside Orchardgrass (Cornelia Form) at 20 pounds/acre for Birdfoot Trefoil.
(2) Use only if the area is shaded.

PERMANENT SEED MIXTURES (7/8)

ROCK CHECK DAM

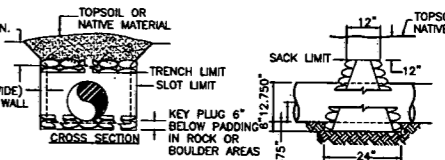
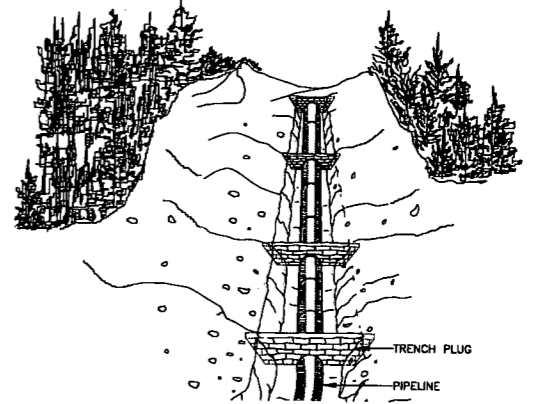


ELEVATION



CROSS SECTION

ROCK CHECK DAM 1 (8/8)
NO SCALE



- NOTES:**
- TRENCH PLUGS SHALL BE INSTALLED:
 - ON SLOPES ALONG THE TRENCH LINE WHERE THE NATURAL DRAINAGE PATTERN, PROFILE, AND TYPE OF BACKFILL MATERIAL MAY RESULT IN LOSS OF BACKFILL MATERIAL OR ALTERATION OF THE NATURAL PATTERN;
 - AT THE BASE OF SLOPES ADJACENT TO WATERBODIES AND WETLANDS;
 - WHERE NEEDED TO AVOID DRAINING A WETLAND;
 - ON UPLAND SLOPES, AT THE SAME SPACING AS SLOPE PLUGS AND UP SLOPE OF SLOPE PLUGS;
 - IN CULTIVATED LAND AND RESIDENTIAL AREAS WHERE PERMANENT SLOPE PLUGS ARE NOT TYPICALLY INSTALLED, AT THE SAME SPACING AS IF PERMANENT SLOPE PLUGS WERE REQUIRED.
 - OPEN WEAVE HEMP OR JUTE SACKS SHALL BE FILLED WITH A MINIMUM OF 55lbs. MIXTURE OF 1 PART CEMENT TO 6 PARTS SAND OR SUBSOIL SO THAT NATURAL GROUND WATER WILL PERMIT MIXTURE TO EXUDE AND BOND SACKS TOGETHER.
 - PLUG SPACING AND CONFIGURATION MAY BE CHANGED AS DIRECTED BY COMPANY. DEPTH OF DITCH MAY VARY WITH SITE CONDITIONS.
 - ALL MATERIALS SHALL BE SUPPLIED BY CONTRACTOR.

TRENCH PLUG (10/8)
NO SCALE

PRELIMINARY

ISSUE DATE 2/3/2014

-DS
CAD File No.
JM
Drawn
JWS
Checked
JMS
Approved
AS NOTED
Scale:
FEB 2014
Date:
11-0147-603
Project No.

POTESTA & ASSOCIATES, INC.
ENGINEERS AND ENVIRONMENTAL CONSULTANTS
7012 MacCordle Ave. SE, Charleston, WV 25304
TEL: (304) 342-1400 FAX: (304) 343-9031
E-Mail Address: potesta@potesta.com

POTESTA

EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
BRIDGEPORT, WEST VIRGINIA

MISCELLANEOUS DETAILS
EQT WEU6 WELL LINE
EROSION & SEDIMENT CONTROL PLAN
DODDRIDGE COUNTY, WEST VIRGINIA

8
Drawing No.

| No. | Date | Revision |
|-----|------|----------|
| | | |
| | | |
| | | |

—DS
 CAD File No.
 JM
 Drawn
 JWS
 Checked
 JMS
 Approved
 AS NOTED
 Scale:
 FEB 2014
 Date:
 11-0147-603
 Project No.

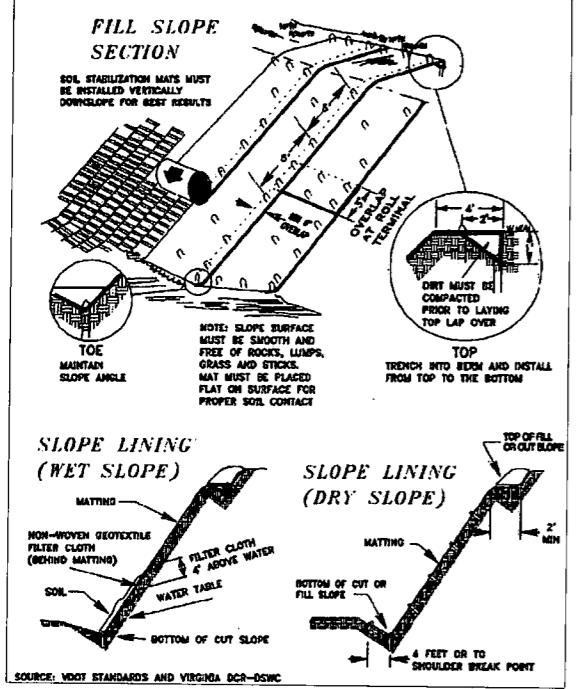
POTESTA
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 7012 MacArthur Ave. SE, Charleston, WV 25304
 TEL (804) 942-1400 FAX (804) 945-8001
 E-Mail Address: potesta@potesta.com

POTESTA
 EQT PRODUCTION COMPANY
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA

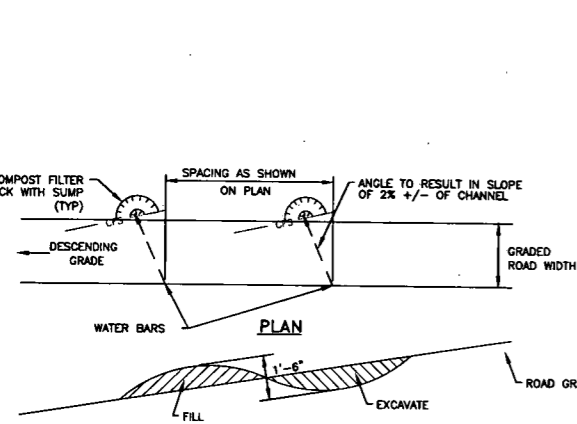
MISCELLANEOUS DETAILS
 EQT WE6 WELL LINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

9
 Drawing No.

ROLLED EROSION CONTROL PRODUCTS

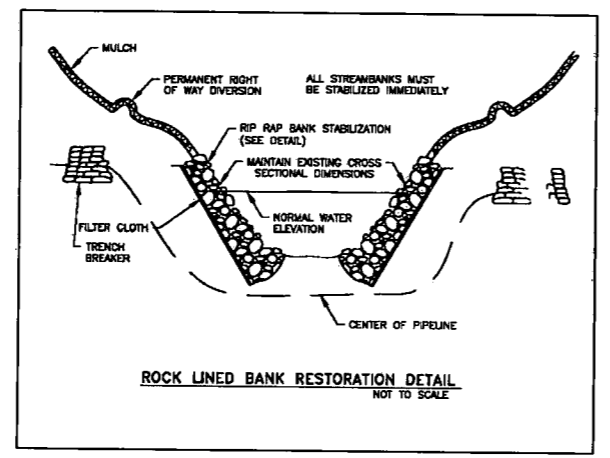


ROLLED EROSION CONTROL MATTING



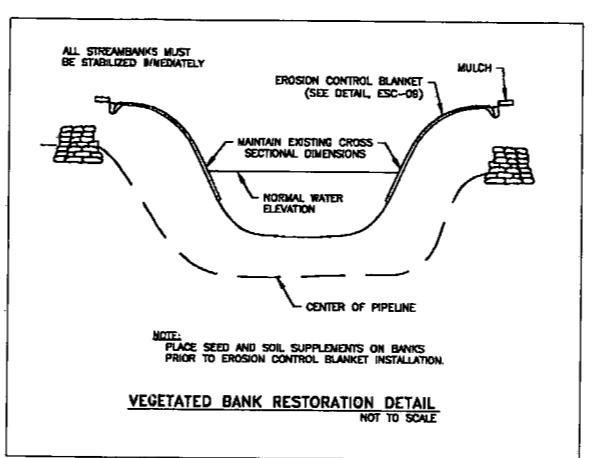
WATER BAR WITH COMPOST FILTER SOCK AND SUMP OUTLET

NO SCALE



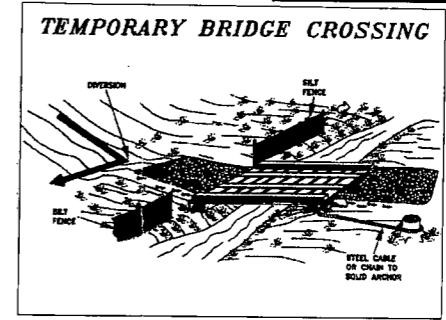
ROCK LINE RESTORATION DETAIL

NO SCALE



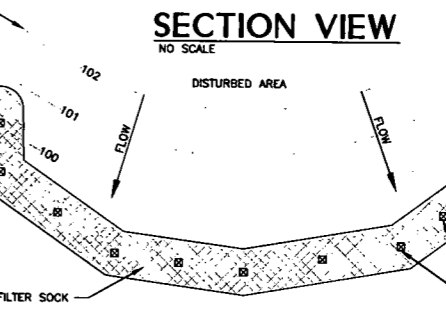
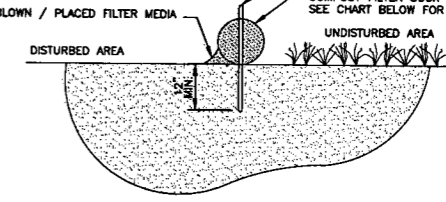
VEGETATED BANK RESTORATION DETAIL

NO SCALE



TEMPORARY BRIDGE CROSSING DETAIL

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 gS 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

For use where natural vegetation alone will provide permanent erosion protection.
 ULTRA SHORT-TERM - Typical 3 month functional longevity.

| Typ e | Product Description | Material Composition | Slope Applications* | | Channel Applications* Max. Shear Stress ^{3,4,6} | Minimum Tensile Strength ¹ |
|-------|---|---|---------------------|-------------------------|---|---------------------------------------|
| | | | Maximum Gradient | C Factor ^{2,5} | | |
| 1.A | Mulch Control Nets | A photodegradable synthetic mesh or woven biodegradable natural fiber netting. | 5:1 (H:V) | ≤ 0.10 @ 3:1 | 0.25 lbf/ft ² (12 Pa) | 5 lbf/ft (0.073 kN/m) |
| 1.B | Netless Rolled Erosion Control Blankets | Natural and/or polymer fibers mechanically interlocked and/or chemically adhered together to form a RECP. | 4:1 (H:V) | ≤ 0.10 @ 4:1 | 0.5 lbf/ft ² (24 Pa) | 5 lbf/ft (0.073 kN/m) |
| 1.C | Single-net Erosion Control Blankets & Open Weave Textiles | Processed degradable natural and/or polymer fibers mechanically bound together by a single rapidly degrading, synthetic or natural fiber netting or an open weave textile of processed rapidly degrading natural or polymer yarns or twines woven into a continuous matrix. | 3:1 (H:V) | ≤ 0.15 @ 3:1 | 1.5 lbf/ft ² (72 Pa) | 50 lbf/ft (0.73 kN/m) |
| 1.D | Double-net Erosion Control Blankets | Processed degradable natural and/or polymer fibers mechanically bound together between two rapidly degrading, synthetic or natural fiber nettings. | 2:1 (H:V) | ≤ 0.20 @ 2:1 | 1.75 lbf/ft ² (84 Pa) | 75 lbf/ft (1.09 kN/m) |

SHORT-TERM - Typical 12 month functional longevity.

| Typ e | Product Description | Material Composition | Slope Applications* | | Channel Applications* Max. Shear Stress ^{3,4,6} | Minimum Tensile Strength ¹ |
|-------|---|--|---------------------|-------------------------|---|---------------------------------------|
| | | | Maximum Gradient | C Factor ^{2,5} | | |
| 2.A | Mulch Control Nets | A photodegradable synthetic mesh or woven biodegradable natural fiber netting. | 5:1 (H:V) | ≤ 0.10 @ 3:1 | 0.25 lbf/ft ² (12 Pa) | 5 lbf/ft (0.073 kN/m) |
| 2.B | Netless Rolled Erosion Control Blankets | Natural and/or polymer fibers mechanically interlocked and/or chemically adhered together to form a RECP. | 4:1 (H:V) | ≤ 0.10 @ 4:1 | 0.5 lbf/ft ² (24 Pa) | 5 lbf/ft (0.073 kN/m) |
| 2.C | Single-net Erosion Control Blankets & Open Weave Textiles | An erosion control blanket composed of processed degradable natural or polymer fibers mechanically bound together by a single degradable synthetic or natural fiber netting to form a continuous matrix or an open weave textile composed of processed degradable natural or polymer yarns or twines woven into a continuous matrix. | 3:1 (H:V) | ≤ 0.15 @ 3:1 | 1.5 lbf/ft ² (72 Pa) | 50 lbf/ft (0.73 kN/m) |
| 2.D | Double-net Erosion Control Blankets | Processed degradable natural and/or polymer fibers mechanically bound together between two degradable, synthetic or natural fiber nettings. | 2:1 (H:V) | ≤ 0.20 @ 2:1 | 1.75 lbf/ft ² (84 Pa) | 75 lbf/ft (1.09 kN/m) |

EXTENDED-TERM - Typical 24 month functional longevity.

| Typ e | Product Description | Material Composition | Slope Applications* | | Channel Applications* Max. Shear Stress ^{3,4,6} | Minimum Tensile Strength ¹ |
|-------|--|---|---------------------|-------------------------|---|---------------------------------------|
| | | | Maximum Gradient | C Factor ^{2,5} | | |
| 3.A | Mulch Control Nets | A slow degrading synthetic mesh or woven natural fiber netting. | 5:1 (H:V) | ≤ 0.10 @ 3:1 | 0.25 lbf/ft ² (12 Pa) | 25 lbf/ft (0.36 kN/m) |
| 3.B | Erosion Control Blankets & Open Weave Textiles | An erosion control blanket composed of processed slow degrading natural or polymer fibers mechanically bound together between two slow degrading synthetic or natural fiber nettings to form a continuous matrix or an open weave textile composed of processed slow degrading natural or polymer yarns or twines woven into a continuous matrix. | 1.5:1 (H:V) | ≤ 0.25 @ 1.5:1 | 2.00 lbf/ft ² (96 Pa) | 100 lbf/ft (1.45 kN/m) |

LONG-TERM - Typical 36 month functional longevity.

| Typ e | Product Description | Material Composition | Slope Applications* | | Channel Applications* Max. Shear Stress ^{3,4,6} | Minimum Tensile Strength ¹ |
|-------|--|---|---------------------|-------------------------|---|---------------------------------------|
| | | | Maximum Gradient | C Factor ^{2,5} | | |
| 4 | Erosion Control Blankets & Open Weave Textiles | An erosion control blanket composed of processed slow degrading natural or polymer fibers mechanically bound together between two slow degrading synthetic or natural fiber nettings to form a continuous matrix or an open weave textile composed of processed slow degrading natural or polymer yarns or twines woven into a continuous matrix. | 1:1 (H:V) | ≤ 0.25 @ 1:1 | 2.25 lbf/ft ² (108 Pa) | 125 lbf/ft (1.82 kN/m) |

¹ C₁₀ Factor and shear stress for Types 1A, 2A, and 3A mulch control nettings must be obtained with netting used in conjunction with pre-applied mulch material.
² Minimum Average Rain Volume, Machine direction using ECTC Mod. ASTM D 5035.
³ C₁₀ 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.
⁴ Required minimum shear stress RECP (unvegetated) can sustain without physical damage or excess 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.
⁵ The permissible 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.
⁶ Acceptable large-scale test methods may include ASTM D6458, 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

DATE: 02/03/2014 11:05:00 AM
 FILE: 11-0147-603-DESIGN.dwg
 USER: JMS
 PLOT: 11-0147-603-DESIGN.dwg
 PLOT DATE: 02/03/2014 11:05:00 AM
 PLOT BY: JMS



| No. | Date | Revision |
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-DESIGN
 CAD File No.
 JM
 Drawn
 JWS
 Checked
 JMS
 Approved
 AS NOTED
 Scale:
 FEB 2014
 Date:
 11-0147-603
 Project No.

POTESTA & ASSOCIATES, INC.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 1012 MacCubbin Ave. SE, Charleston, WV 25304
 TEL: (304) 342-1400 FAX: (304) 343-9031
 E-Mail: Address: potesta@potesta.com

POTESTA

Client
EQT PRODUCTION COMPANY
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA

Title
SITE PLAN
EQT WEU6 WELL LINE
EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

Drawing No. **4**

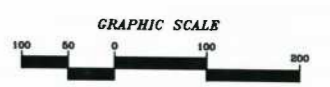
NOTES:

- 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 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 RESEED 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. 8.
- 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. 9. 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.
- EXISTING LOCATION OF CULVERTS SHOWN ON DRAWINGS WERE OBTAINED BY POTESTA DURING THE STREAM AND WETLAND DELINEATION STUDY, AND WERE LOCATED USING A GPS UNIT.
- 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.

LEGEND

| SYMBOL | DESCRIPTION |
|--------|---|
| | STREAMS |
| | PROPOSED PIPELINE |
| | PROPOSED SILT FENCE |
| | PROPOSED COMPOST FILTER SOCK |
| | LIMITS OF CONSTRUCTION/PERMANENT RIGHT-OF-WAY |
| | PERMANENT RIGHT-OF-WAY |
| | PROPOSED WATERBAR |
| | PROPOSED PIPELINE TRENCH BREAKER |
| | PROPOSED STONE CONSTRUCTION ENTRANCE |



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

PRELIMINARY

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
#14-193*

was published in said paper for *2*

successive weeks beginning with the issue

of *April 29th* 2014 and

ending with the issue of

May 6th 2014 and

that said notice contains *189*

WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.74*

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

\$ *16.31*

and each publication thereafter

\$ *38.05* TOTAL

EDITOR

Virginia Nicholson

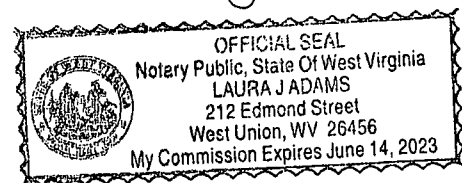
SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE *8th* DAY

OF *May* 2014

NOTARY PUBLIC

Laura J Adams



Legal Advertisement

LEGAL ADVERTISEMENT

Doddridge County

Floodplain Permit Application

Please take notice that on the 24th day of April, 2014
EQT. PRODUCTION COMPANY #14-193 filed an
application for a Floodplain Permit to develop land
located at or about SURFACE OWNERS: CHARLES
WELLINGS JR. AND BARBARA L. WELLINGS,
WEST UNION DISTRICT, BLUESTONE RT. 18
SOUTH, TAX MAP 16 PARCEL 16

The Application is on file with the Clerk of the County
Court and may be inspected or copied during regular
business hours. Any interested persons who desire to
comment shall present the same in writing by May 14,
2014.

Delivered to the

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A. Rogers, Doddridge County Clerk

Edwin L. Boe, Wriston, Doddridge County Floodplain

Manager

4-29-2014

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
..... #14-193
..... EQP
.....

was published in said paper for 2
successive weeks beginning with the issue

of May 6th 2014 and

ending with the issue of

..... May 13th 2014 and

that said notice contains 189
WORD SPACE at 115[¢] cents a word

amounts to the sum of \$ 21.74

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

\$ 16.31
and each publication thereafter

\$ 38.05 TOTAL

EDITOR

..... Virginia Nicholson

SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE 15th DAY

OF May 2014

NOTARY PUBLIC

..... Laura J. Adams

MAY 13, 2014 9⁸

Legal Advertisement

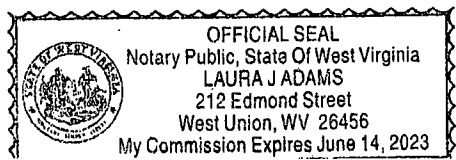
LEGAL ADVERTISEMENT:
Doddridge County
Floodplain Permit Application

Please take notice that on the 24th day of April, 2014
EQT PRODUCTION COMPANY #14 -193 filed an
application for a Floodplain Permit to develop land
located at or about: SURFACE OWNERS: CHARLES
WELLINGS JR. AND BARBARA L. WELLINGS,
WEST UNION DISTRICT BLUESTONE, RT. 18
SOUTH, TAX MAP 16 PARCEL 16

The Application is on file with the Clerk of the County
Court and may be inspected or copied during regular
business hours. Any interested persons who desire to
comment shall present the same in writing by May 14,
2014.

Delivered to the:
Clerk of the County Court
118 E. Court Street, West Union, WV 26456
Beth A. Rogers, Doddridge County Clerk
Edwin L. "Bo" Wriston, Doddridge County Flood Plain
Manager

4-29-2014



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
That the Accompanying Legal Notice
Entitled:

Floodplain Permit
Permit #14-193
WEU 5 Well line

was published in said paper for *2*

successive weeks beginning with the issue
of *July 15th* 2014 and
ending with the issue of

July 22nd 2014 and
that said notice contains *189*

WORD SPACE at *115* cents a word
amounts to the sum of \$ *21.74*

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

\$ *16.31*
and each publication thereafter
\$ *38.05* TOTAL

EDITOR

Virginia Nicholson

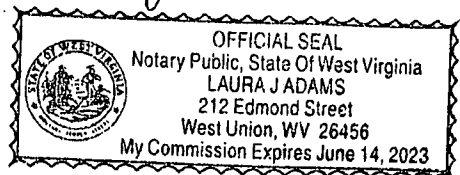
SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE *24th* DAY
OF *July* 2014

NOTARY PUBLIC

Laura J Adams

LEGAL ADVERTISEMENT:
Doddridge County
Floodplain Permit Application
Please take notice that on the 7th day of July, 2014
EQT Corporation filed an application for a Floodplain
Permit to develop land located at or about: West Union
District 39, 281759N/80.757295W Permit #14-193 WEU 5
Well Line (Note: This project is not within the floodplain)
The Application is on file with the Clerk of the County
Court and may be inspected or copied during regular
business hours. As this project is outside the FEMA
identified floodplain of Doddridge County, Doddridge
County Floodplain Management has no regulatory
authority. Any interested persons who desire to comment
shall present the same in writing by August 4, 2014.
Delivered to the
Clerk of the County Court
118 E. Court Street, West Union, WV 26456
Beth A. Rogers, Doddridge County Clerk
Edwin L. "Bo" Wriston, Doddridge County Flood Plain
Manager
7-15-2xb





Legend

- 50ft LOD Stream Crossings
- ▲ 50ft LOD Wetland Crossings
- Old Well Line
- New Well Line
- Area of Interest

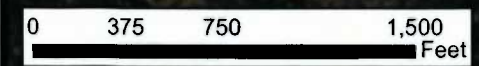
Delineated Wetlands

- ▨ Palustrine Emergent

Delineated Streams

- Perennial
- Intermittent
- Ephemeral
- Drain

Draft Map



Sources: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, the GIS User Community

References: Aerial Imagery: 10/08/2011 from World Imagery by Esri

| | |
|------------------|-----------|
| SCALE: 1" = 750' | DRAWN: JA |
| DATE: 06/16/2014 | CHECKED: |
| PN: 11-0147-601 | APPROVED: |

Potesta & Associates, Inc.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 701 MacCurtick Avenue, S.E.
 Office: (304) 342-1400 Fax: (304) 343-9031
 E-mail: potesta@potesta.com



EQT PRODUCTION COMPANY
 115 Professional Place
 Bridgeport, West Virginia 26338

MAPPING FOR VISUAL REPRESENTATION ONLY
WEU & Well Line Draft Map
 West Union Quadrangle
 Doddridge County, West Virginia
 For Informational Purposes Only