

# Commercial/Industrial Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit has been issued to EQT Production Company, and is for the approved commercial and/or industrial development project associated with this permit that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible, and must remain posted during entirety of development.

**Permit: #14-206 EQT OXF 122 Well Site**

**Date Approved: 07/02/2014**

**Expires: N/A**

**Issued to: Antero Resources**

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

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

**Project Address: New Milton District**

**Firm: N/A**

**Lat/Long:**

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

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

*L. Catherine Slater*  
*Edwin L. "Bo" Wriston*  
**ASST FPM MGT**

**Date: 07/01/2014**

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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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#14-206



# Engineers and Environmental Consultants

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

April 16, 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 OXF 122 Well Site  
Doddridge County, West Virginia  
POTESTA Project No. 0101-11-0147-12203

FILED  
2014 APR 28 AM 11:35  
BETH A. ROGERS  
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 OXF 122 Well Line. The proposed project will consist of construction of approximately 3,196 linear feet of well line and associated meter site. Based on information presented on the site FIRM, this project is not located within FEMA Flood Zone. No fill shall be placed within the floodplain limits for this project.

Included with this letter is the permit application and site location maps.

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,

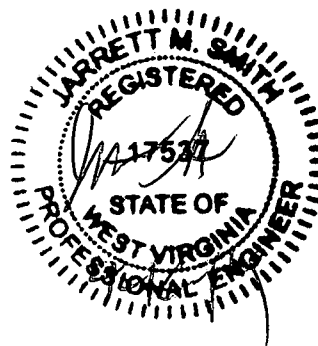
POTESTA & ASSOCIATES, INC.

Jarrett M. Smith, P.E.  
Senior Engineer

JMS:JWS/clr

Enclosures

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



**POTESTA & ASSOCIATES, INC.**

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

#14-206  
EQT-0XF 122  
well site

# 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. Landfried

DATE 4/24/14

## 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, c/o Megan Landfried OXF-122 Well Line

ADDRESS: 115 Professional Place, Bridgeport, WV 26330

TELEPHONE NUMBER: (304) 848-0061

**BUILDER'S NAME:** EQT Production Company, c/o Megan Landfried  
**ADDRESS:** 115 Professional Place, Bridgeport, WV 26330  
**TELEPHONE NUMBER:** (304) 848-0061

**ENGINEER'S NAME:** Jarrett M. Smith, PE / 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)** Richard L. Ray and Sheryl A. Ray (Location) Randall H. Farley SR. and Debby L. Farley  
**ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** 757 Summersville Lake Road Mount Nebo, WV 26679 (Ray) 1709 Straight Fork Road West Union, WV 26456 (Farley)

**DISTRICT:** Southwest

**DATE/FROM WHOM PROPERTY PURCHASED:** February 3<sup>rd</sup> 1993 (Ray) and April 18<sup>th</sup> 2012 Farley

**LAND BOOK DESCRIPTION:** See Deed Book 243/585 (Ray) and Deed Book 299/418 (Farley)

**DEED BOOK REFERENCE:** Deed Book 243/585 (Ray) and Deed Book 299/418 (Farley)

**TAX MAP REFERENCE:** 10-32-7 (Ray) 7-6-8.6 (Farley)

**EXISTING BUILDINGS/USES OF PROPERTY:** Vacant Forest and Farm Land (Ray) Farm/Resident Randall L Farley and Debby L. Farley

**NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** Vacant Forest and Farm Land and Resident/Farm Randall L. Farley and Debby L. Farley

**ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** Vacant Forest/Farm Land Resident/Farm Randall L. Farley and Debby L. Farley

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

**B. OTHER DEVELOPMENT ACTIVITIES:**

- Fill             Mining             Drilling             Pipelining
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse 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 \$63/ft labor \$32/ft materials at 3,200 feet = \$201,600 + \$102,400 = \$304,000**

**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:** Randall L. and Debby L. Farley  
**ADDRESS:** 1709 Straight Fork Road  
West Union, WV 26456

**NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

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

**NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

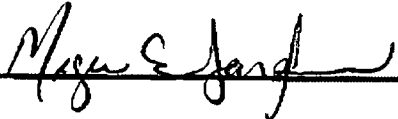
**NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**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): Megan Landfried

SIGNATURE:  DATE: 4/24/14

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

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

**THE PROPOSED DEVELOPMENT:**

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: \_\_\_\_\_

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:

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**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: \_\_\_\_\_  
\_\_\_\_\_

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**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 OXF 122



Map Created on 3/6/2014

Location of the mouse click  
**Approximate Study (Zone A)**  
**Detailed Study (Zone AE, AH, AO)**  
**Floodway**  
**Flood Water Depth (HEC-RAS)**

**Cross Section Line**  
**Base Flood Elevation Line**  
**810**  
**DFIRM Panel (Map) Index**

**User Notes:**

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

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

**Flood Hazard Area:** Selected site is NOT WITHIN any identified flood hazard area. Unmapped flood hazard areas may be present.

**Advisory Flood Height:** N/A

**Water Depth:** N/A

**Elevation:** About 895 feet

**Location (long, lat):** 80.821703 W, 39.134673 N

**Location (UTM 17N):** (515410, 4331737)

**FEMA Issued Flood Map:** 54017C0225C

**Contacts:** Doddridge County

**CRS Information:** No CRS information available

**Flood Profile:** No Profile

**HEC-RAS Model:** No Model

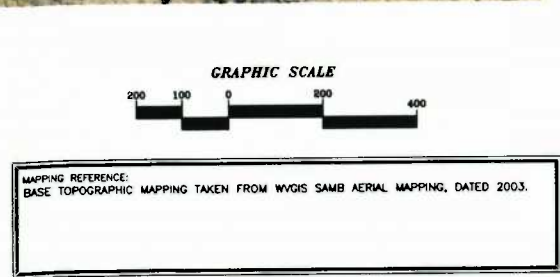
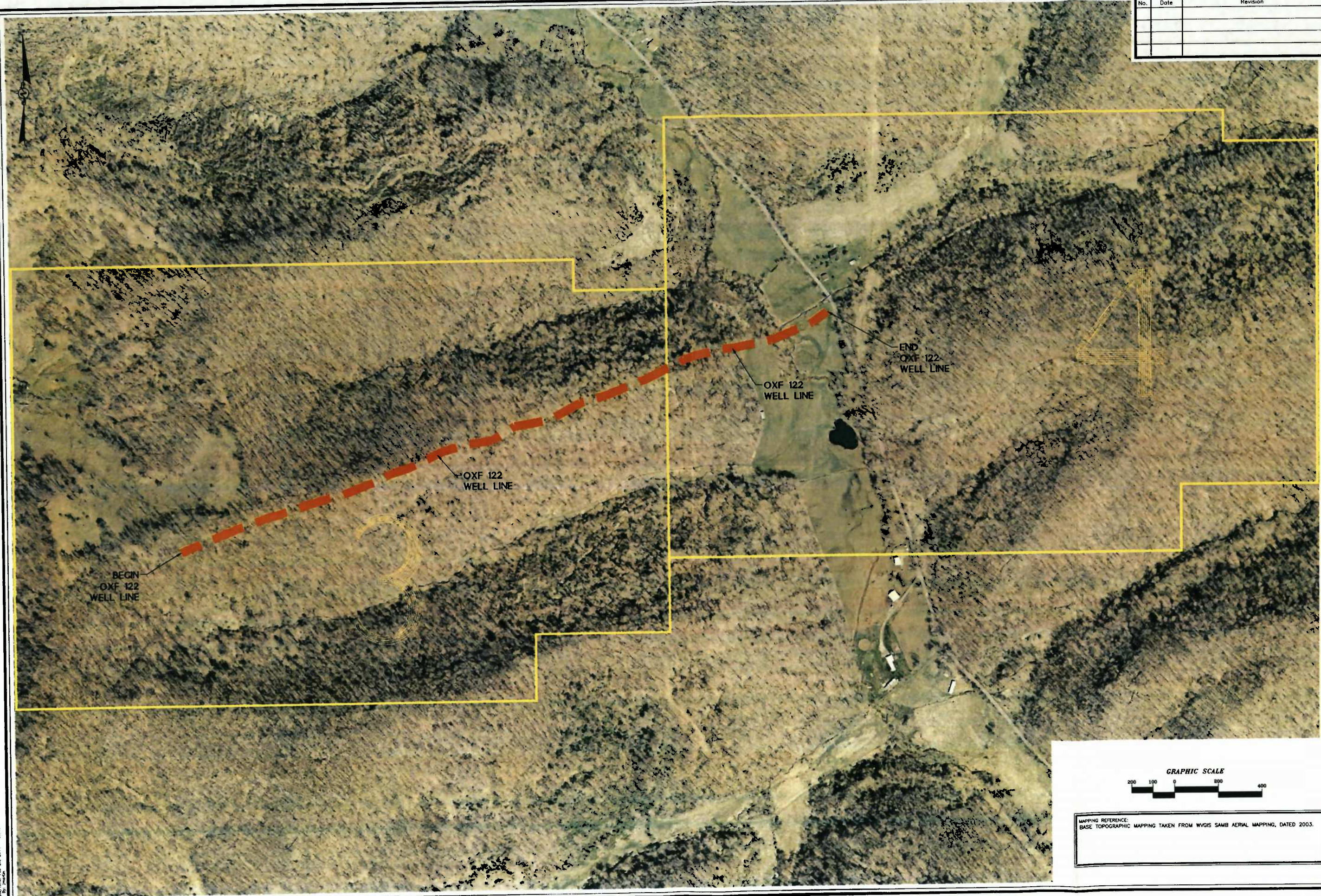
**Parcel Number:**



Map File: N:\12-10350\11-0142 - EQT PROJECTS\11-0142-122-DESIGN.dwg  
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 Plot Date: 03/03/2014 11:03:00 AM  
 Plotter: HPGL-2  
 Plot Size: 11x17  
 Plot Scale: 1:1  
 Plot Orientation: Landscape  
 Plot Color: Black  
 Plot Lineweight: 0.20  
 Plot Linetype: Solid  
 Plot Style: Standard  
 Plot Font: Arial, 10  
 Plot Title: EQT PROJECTS\11-0142-122-DESIGN.dwg

No.	Date	Revision

DESIGN  
 CAD File No.  
 JM  
 Drawn  
 JWS  
 Checked  
 JMS  
 Approved  
 Scale:  
 1" = 200'  
 Date:  
 MARCH 2014  
 Project No.  
 1-0147-12203



ISSUE DATE 3/3/2014

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



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

Title:  
 PLAN SHEET  
 EQT OXF 122 WELL LINE  
 EROSION & SEDIMENT CONTROL PLAN  
 RITCHIE & DODDRIDGE COUNTIES, W. V.

Drawing No.  
 2



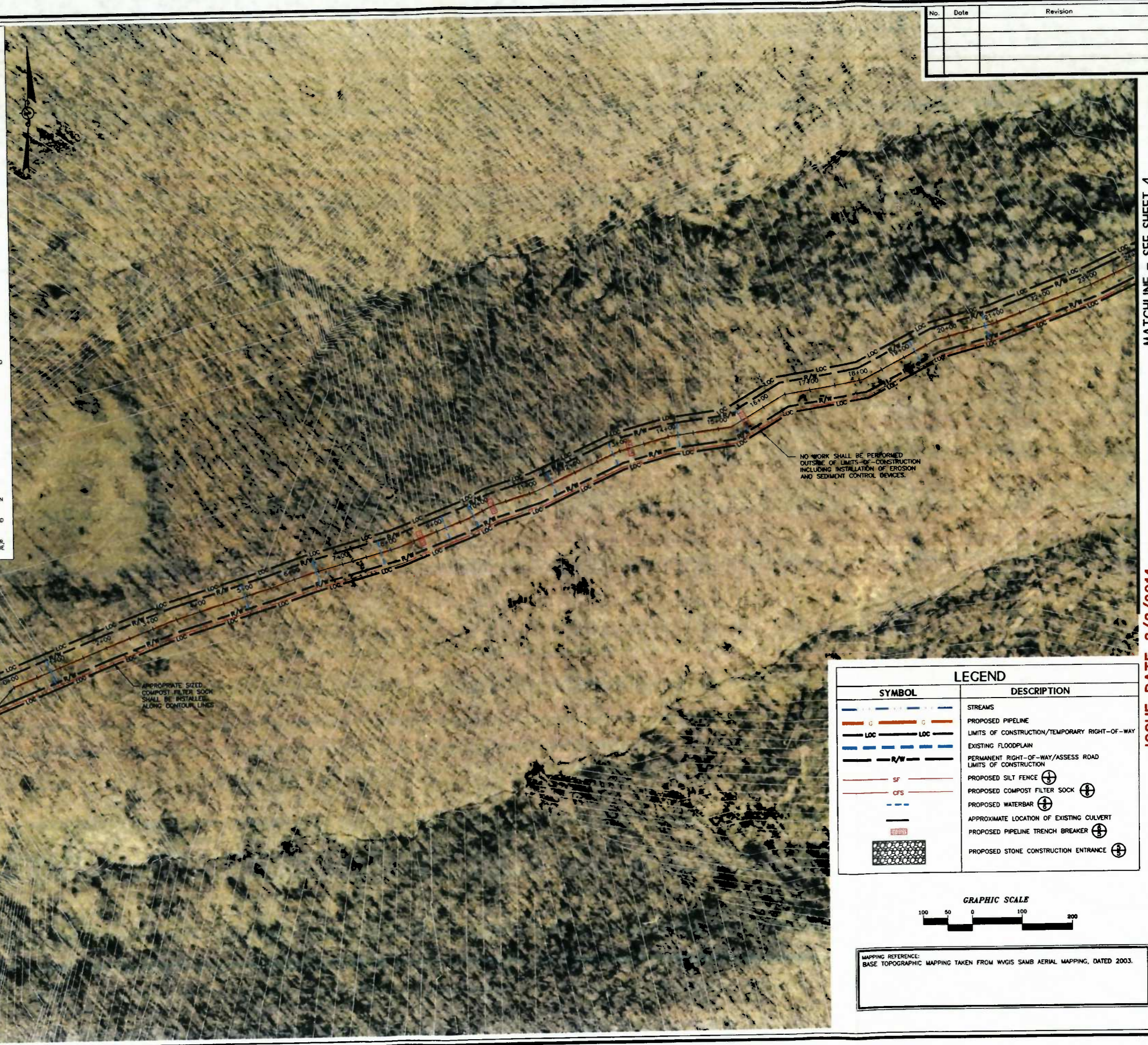
No.	Date	Revision

DESIGN  
CAD File No.  
JM  
Drawn  
JWS  
Checked  
JMS  
Approved  
1" = 100'  
Scale  
MARCH 2014  
Date  
1-0147-12203  
Project No.

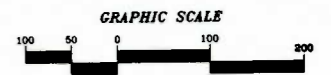
- NOTES:**
1. BASE MAPPING TAKEN FROM WVGIS SAMB FROM AERIAL PHOTOGRAPHY DEVELOPED IN 2003. THE SCALE OF THE BASE MAPPING IS APPROXIMATE. ACTUAL LOCATIONS OF EXISTING FEATURES MAY VARY.
  2. WEEKLY VISUAL INSPECTION OF THE SEDIMENT CONTROL MEASURES SHALL BE CONDUCTED TO VERIFY THEY ARE FUNCTIONING PROPERLY. 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 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.
  4. 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.
  5. 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.
  6. 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.
  7. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING PUBLIC ROADS IN A CLEAN, DUST AND MUD FREE CONDITION AT THE SITE.
  8. ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOURS, PERPENDICULAR TO THE FLOW OF WATER. SEE DETAIL ON DRAWING NO. 5.
  9. 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. 6. 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.
  10. PROPOSED UPGRADES TO EXISTING ACCESS ROADS SHALL INCLUDE MINOR GRADING, EXTENDING OF EXISTING CULVERTS WHERE APPLICABLE AND PLACEMENT OF AGGREGATE COMPOST FILTER SOCK SHALL BE INSTALLED DOWN GRADIENT PRIOR TO EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH THE ACCESS ROAD UPGRADES.
  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. 5 BASED ON FIELD CONDITIONS.
  12. 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. 5.
  13. WORK AREAS WILL BE USED TO LAYOUT AND ASSEMBLE GAS LINE FITTINGS. MINIMAL EARTH DISTURBANCE IS EXPECTED, HOWEVER, EROSION AND SEDIMENT CONTROLS 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.



LEGEND	
SYMBOL	DESCRIPTION
	STREAMS
	PROPOSED PIPELINE
	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
	EXISTING FLOODPLAIN
	PERMANENT RIGHT-OF-WAY/ASSESS ROAD LIMITS OF CONSTRUCTION
	PROPOSED SILT FENCE ⊕
	PROPOSED COMPOST FILTER SOCK ⊕
	PROPOSED WATERBAR ⊕
	APPROXIMATE LOCATION OF EXISTING CULVERT
	PROPOSED PIPELINE TRENCH BREAKER ⊕
	PROPOSED STONE CONSTRUCTION ENTRANCE ⊕



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

MATCHLINE - SEE SHEET 4

ISSUE DATE 3/3/2014

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PLAN SHEET  
EQT OXF 122 WELL LINE  
EROSION & SEDIMENT CONTROL PLAN  
RITCHIE & DODDRIDGE COUNTIES, W. V.

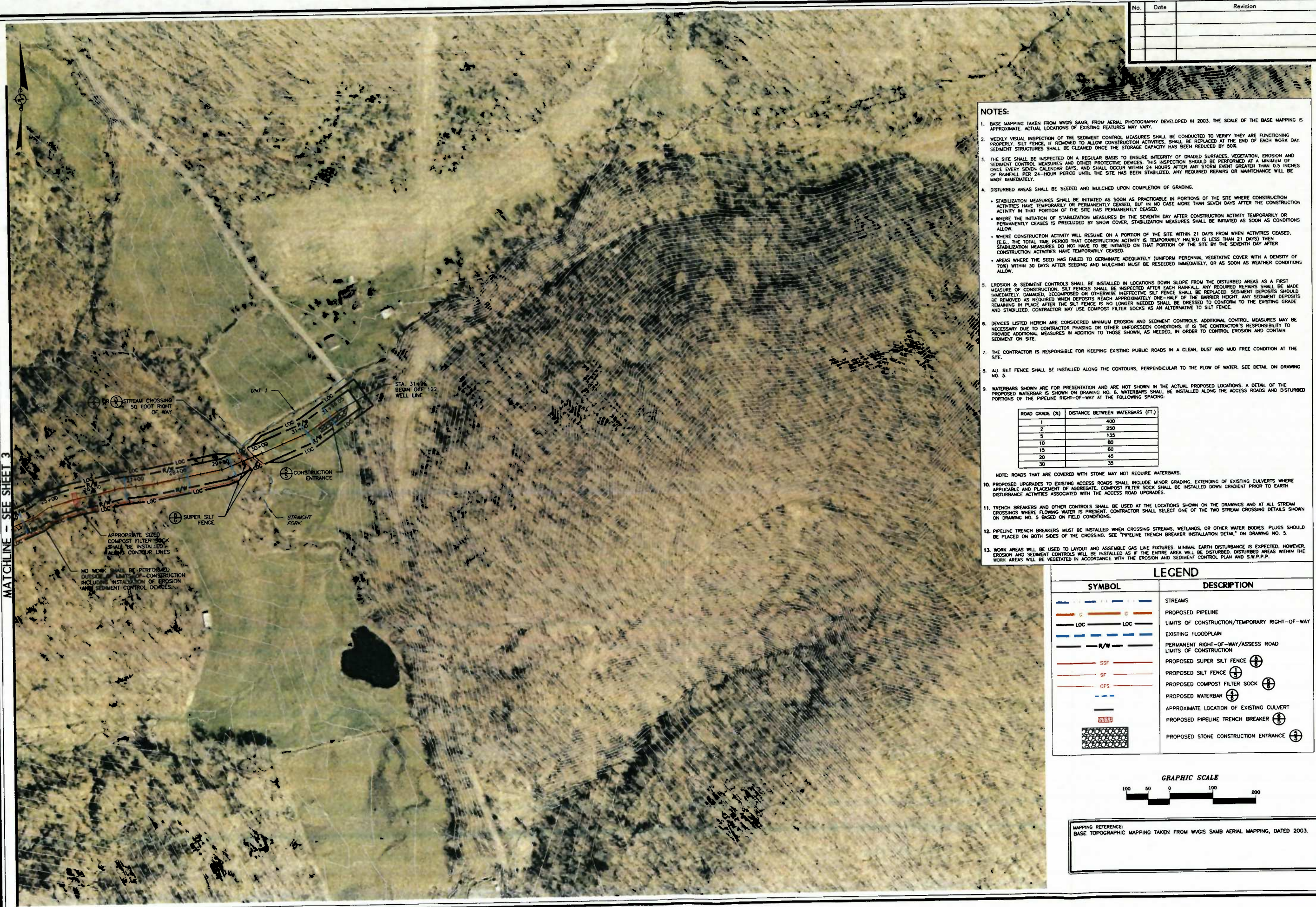
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Drawing No.

DATE: 03/03/2014 11:15:15 AM  
PROJECT: EQT OXF 122 WELL LINE  
DRAWN BY: JWS  
CHECKED BY: JMS  
APPROVED BY: JMS



DATE: 11-11-2013 11:45:15 AM  
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 PLOT DATE: 03/03/2014 10:11:11 AM  
 PLOT SCALE: 1" = 100'  
 PLOT BY: jms

MATCHLINE - SEE SHEET 3



No.	Date	Revision

-DESIGN  
 CAD File No.  
 JM  
 Drawn  
 JWS  
 Checked  
 JMS  
 Approved  
 1" = 100'  
 Scale:  
 MARCH 2014  
 Date:  
 11-0147-12203  
 Project No.

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 PLAN SHEET  
 EQT OXF 122 WELL LINE  
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Drawing No. 4

**NOTES:**

- BASE MAPPING TAKEN FROM WVGS 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% IN 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 PROTECTION. 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. 3.
- 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. 6. WATERBARS SHALL BE INSTALLED ALONG THE ACCESS ROADS AND DISTURBED PORTIONS OF THE PIPELINE RIGHT-OF-WAY AT THE FOLLOWING SPACING:
 

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

NOTE: ROADS THAT ARE COVERED WITH STONE MAY NOT REQUIRE WATERBARS.
- PROPOSED UPGRADES TO EXISTING ACCESS ROADS SHALL INCLUDE MINOR GRADING, EXTENDING OF EXISTING CULVERTS WHERE APPLICABLE AND PLACEMENT OF AGGREGATE. COMPOST FILTER SOCK SHALL BE INSTALLED DOWN GRADIENT PRIOR TO EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH THE ACCESS ROAD UPGRADES.
- TRENCH BREAKERS AND OTHER CONTROLS SHALL BE USED AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AT ALL STREAM CROSSINGS WHERE FLOWING WATER IS PRESENT. CONTRACTOR SHALL SELECT ONE OF THE TWO STREAM CROSSING DETAILS SHOWN ON DRAWING NO. 5 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. 5.
- WORK AREAS WILL BE USED TO LAYOUT AND ASSEMBLE GAS LINE FIXTURES. MINIMAL EARTH DISTURBANCE IS EXPECTED. HOWEVER, EROSION AND SEDIMENT CONTROLS 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.

**LEGEND**

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

**GRAPHIC SCALE**



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