

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to ANTERO RESOURCES, 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: #14-245 Fritz Pipeline Project

Date Approved: 07/17/2014

Expires: 7/17/2015

Issued to: ANTERO RESOURCES

**POC: Emily Kijowski
303-357-7232**

**Company Address: 1615 WYNKOOP ST
DENVER, CO**

Project Address: Central District

FIRM: 54017C002255C

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

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

Date: 07/17/2014

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

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 16th day of July, 2014

Antero Resources

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

Central District 39.234772N / 80.840150W

Permit #14-245 Fritz Pipeline Project

(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 27, 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

#14-245

FILED

2014 JUL 16 PM 1:03

BETH A. ROVERS
COUNTY CLERK
DODDRIDGE COUNTY, WV



Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

July 10, 2014

Doddridge County Commission
Attn: Bo Wriston, Doddridge County Floodplain Manager
118 East Court Street, Room 102
West Union, WV 26456

Mr. Wriston:

Antero Resources Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Fritz Pipeline project. The proposed project consists of a steel pipeline located near the town of Greenwood in Doddridge County, West Virginia. The 0.73 mile pipeline will be buried below the ground surface and will utilize existing access roads during the installation of the pipeline. Per the FIRM Map 54017C02255C the WV Flood Tool Map, the Fritz Pipeline project is located entirely out of the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- Surface and Adjacent Land Owner Information
- Project Description Letter – Signed and Stamped by PE
- WV Flood Tool Map
- FIRM Map and Design pages

If you have any questions please feel free to contact me at (303) 357-7232.

Thank you in advance.

Sincerely,

A handwritten signature in cursive script that reads "Emily Kijowski".

Emily Kijowski
Permit Representative
Antero Resources Corporation

Enclosures



Kleinfelder, Inc.
230 Executive Drive, Suite 122
Cranberry Township, PA 16066

July 10, 2014

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

Re: Doddridge County Floodplain Development Permit Application
Fritz Well Pad to Primm West Pipeline (Fritz Pipeline) Project
Doddridge County, West Virginia
Antero Midstream LLC

Dear Mr. Wriston:

Antero Midstream LLC (Antero) is proposing to install 0.73-miles of steel, natural gas pipeline near the town of Greenwood in Doddridge County, West Virginia at coordinates 39.234772°, -80.840150° for the eastern terminus of the line and 39.236971°, -80.851442° for the western terminus of the line. The proposed Fritz Pipeline will be buried below the ground surface using conventional open cut pipeline construction methods. Existing access roads will be utilized to construct the proposed pipeline.

GAI Consultants, Inc. conducted environmental field studies on March 26, 2014, April 3, 2014, April 9, 2014, and April 22, 2014 to identify streams and wetlands within a 26-acre area of interest (AOI) surrounding the proposed pipeline. Additionally, a portion of the AOI was previously delineated by AllStar Ecology, LLC in November 2012 as part of the Fritz Well Pad Project and by Kleinfelder, Inc. In July 2013, October 2013, and November 2013 as part of the Primm West Pipeline Project. During the site reviews, 13 features were observed within the AOI consisting of two (2) perennial streams, three (3) intermittent streams, five (5) ephemeral streams, one (1) intermittent/ephemeral complex, one (1) palustrine emergent wetland (PEM) and one (1) PEM/palustrine scrub-shrub wetland.

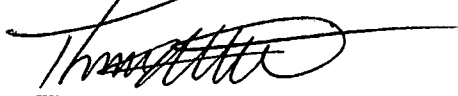
Based on the engineered design plans, the installation of the Fritz Pipeline will result in impacts to six jurisdictional features within the AOI.

No part of the Fritz Pipeline and the access road(s) for construction will cross a designated Federal Emergency Management Administration regulated flood zone according to FIRM Map #54017C0225C within Doddridge County. Following completion of construction activities, the right-of-way will be restored to pre-construction contours.

Directions to the Site: From Greenwood, WV: Head southwest on CR 36/6 towards Duckworth Road. Turn right onto Duckworth Road. Take the 1st left towards Old U.S. 50 West / Sunnyside Road. Continue on Old U.S. 50 West for 3.4 miles. Turn right onto CR 21 / Oxford Road for 2.4 miles. The western most access road for the proposed project will be on the left.

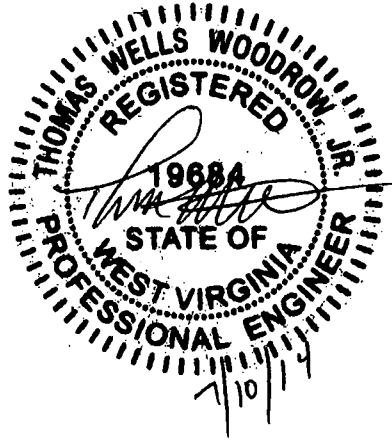
We appreciate your timely review of these materials. Please contact me at (724) 831-5129 with any questions or concerns.

Respectfully submitted,
Kleinfelder, Inc.



Thomas Woodrow, PE
Senior Project Manager

Attachments



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 _____



DATE July 10, 2014

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: Antero Midstream LLC - Randy Kloberdanz,

ADDRESS: 1615 Wynkoop Street, Denver, CO 80202

TELEPHONE NUMBER: Contact Emily Kijowski: (303)-357-7232

BUILDER'S NAME: Antero Midstream LLC

ADDRESS: 1615 Wynkoop Street, Denver, CO 80202

TELEPHONE NUMBER: (303)-357-7310

ENGINEER'S NAME: Kleinfelder

ADDRESS: 230 Executive Drive, Suite 122, Cranberry Township, PA 16066

TELEPHONE NUMBER: (304)-624-4108

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Property Owner Table

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Property Owner Table

DISTRICT: _____

DATE/FROM WHOM PROPERTY

PURCHASED: _____

LAND BOOK DESCRIPTION: Please see Property Owner Table

DEED BOOK REFERENCE: Please see Property Owner Table

TAX MAP REFERENCE: Please see Property Owner Table

EXISTING BUILDINGS/USES OF PROPERTY: None

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Property Owner Table

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY _____

To avoid delay in processing the application, please provide enough information to easily identify the project location.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

ACTIVITY

STRUCTURAL TYPE

- | | | | |
|-------------------------------------|-------------------------|--------------------------|----------------------------------|
| <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 type="checkbox"/> | Non-residential (floodproofing) |
| <input type="checkbox"/> | Relocation | <input type="checkbox"/> | Combined Use (res. & com.) |
| <input type="checkbox"/> | Demolition | <input type="checkbox"/> | Replacement |
| <input type="checkbox"/> | Manufactured/Mobil Home | | |

B. OTHER DEVELOPMENT ACTIVITIES:

- | | | | | | | | |
|--------------------------|---|--------------------------|--------|--------------------------|----------|-------------------------------------|------------|
| <input type="checkbox"/> | Fill | <input type="checkbox"/> | Mining | <input type="checkbox"/> | Drilling | <input checked="" type="checkbox"/> | Pipelining |
| <input type="checkbox"/> | Grading | | | | | | |
| <input type="checkbox"/> | Excavation (except for STRUCTURAL DEVELOPMENT checked above) | | | | | | |
| <input type="checkbox"/> | Watercourse Altercation (including dredging and channel modification) | | | | | | |
| <input type="checkbox"/> | Drainage Improvements (including culvert work) | | | | | | |
| <input type="checkbox"/> | Road, Street, or Bridge Construction | | | | | | |
| <input type="checkbox"/> | Subdivision (including new expansion) | | | | | | |
| <input type="checkbox"/> | Individual Water or Sewer System | | | | | | |
| <input type="checkbox"/> | 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 \$ N/A - Location is not within the floodplain

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: <u>N/A-No properties sharing an</u>	NAME: _____
ADDRESS: <u>immediate and common boundary</u>	ADDRESS: _____
_____ up or down stream due to the	_____
location not being in floodplain	_____
NAME: _____	NAME: _____
ADDRESS: _____	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: <u>N/A-No properties sharing an</u>	NAME: _____
ADDRESS: <u>immediate and common boundary</u>	ADDRESS: _____
_____ up or down stream due to the	_____
location not being in floodplain	_____
NAME: _____	NAME: _____
ADDRESS: _____	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): Randy Klobardanz

SIGNATURE:  DATE: 7/10/2014

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: _____

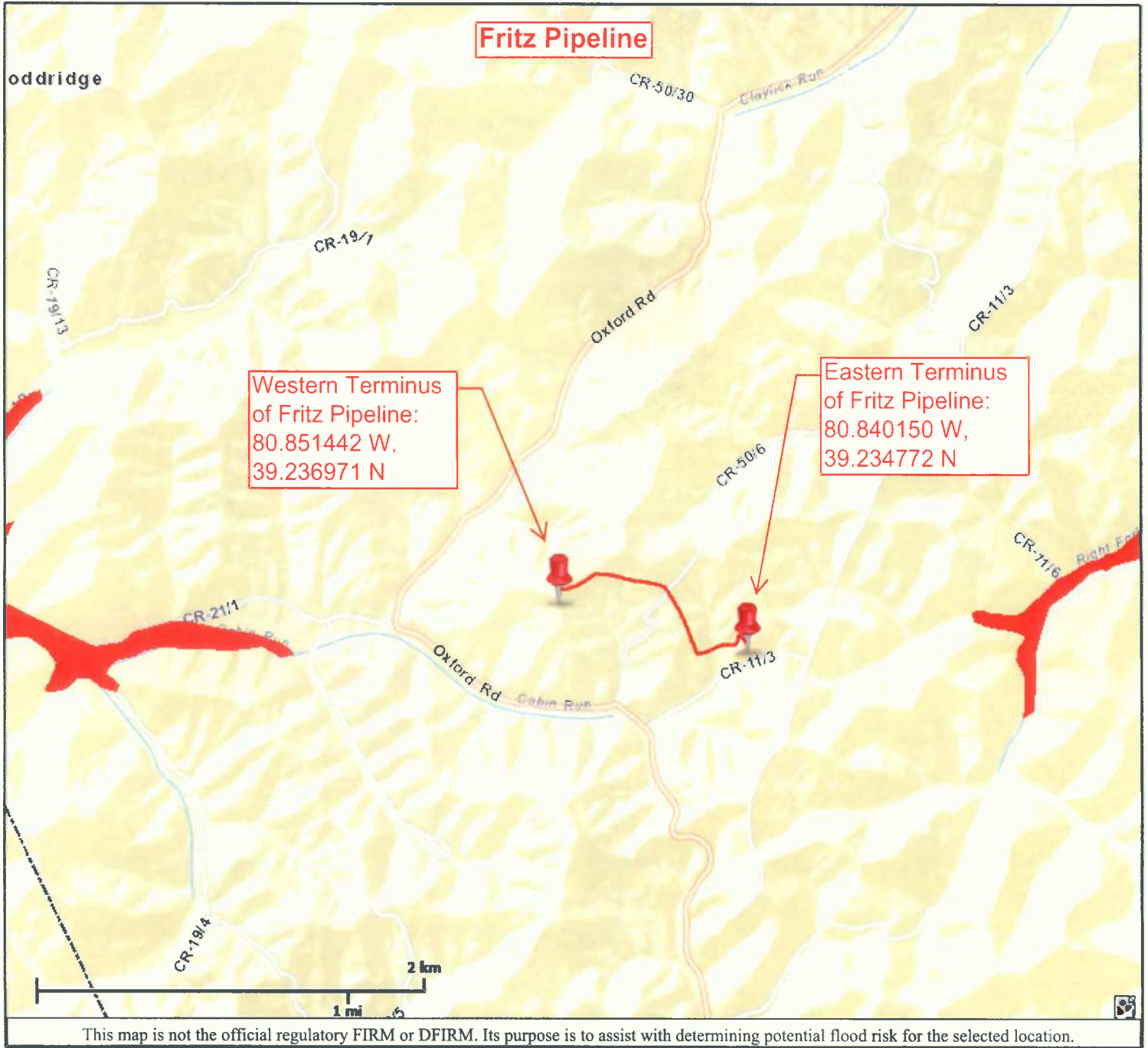
OWNER'S ADDRESS: _____

**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** _____


WV Flood Map



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 7/10/2014

 Location of the mouse click

 **Flood Hazard Zone**
(1% annual chance floodplain)

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:
Elevation: N/A
Location (long, lat):
Location (UTM 17N):
FEMA Issued Flood Map:
Contacts:
CRS Information:
Parcel Number:

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
Fritz Pipeline Project
14-245*

was published in said paper for .. 2

successive weeks beginning with the issue
of .. *August 5th* .. 2014 and
ending with the issue of

.. *August 12th* .. 2014 and

that said notice contains .. *189*

WORD SPACE at .. *115* .. cents a word

amounts to the sum of \$.. *21.94*

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

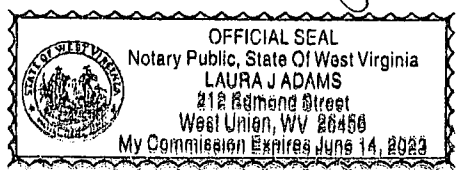
BEFORE ME THIS THE .. *14th* .. DAY

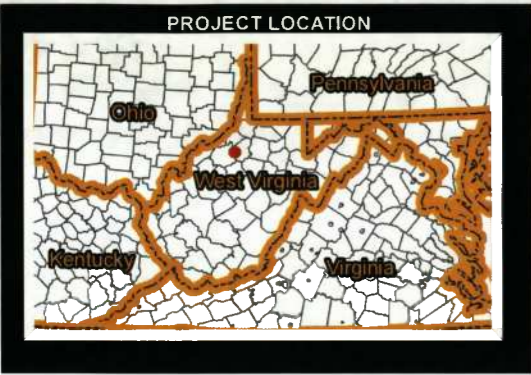
OF .. *August* .. 2014

NOTARY PUBLIC

Laura J Adams

LEGAL ADVERTISEMENT
Doddridge County
Floodplain Permit Application
Please take notice, that on the 16th day of July, 2014
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Permit to develop land located at or about Central
District 39 234772N / 80 840150W Permit # 14-245 Fritz
Pipeline Project. (Note: This project is not within the
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The Application is on file with the Clerk of the County
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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





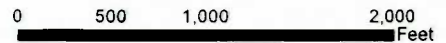
**FRITZ PIPELINE
FEMA FIRM 54017C0225C
ANTERO MIDSTREAM LLC**



SITE LOCATIONS NAD 83		
Eastern Terminus (UTM Meters)	N=4342842.2 m	E=513795.8 m
Western Terminus (UTM Meters)	N=4343084.6 m	E=512820.9 m
	LATITUDE	LONGITUDE
Eastern Terminus	39.234772	-80.840150
Western Terminus	39.236971	-80.851442

**CENTRAL DISTRICT, DODDRIDGE COUNTY, WV
LITTLE MUSRINGUM-MIDDLE ISLAND
AND LITTLE KANAWHA WATERSHEDS**

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:	N/A
FLOODPLAIN SHOWN ON DRAWINGS:	NO
FIRM MAP NUMBER (S) FOR SITE:	54017C0225C
ACREAGE OF CONSTRUCTION IN FLOODPLAIN:	N/A



- Legend**
- Fritz Pipeline (0.73 mi)
 - - - Access Road

The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the user.

Base Map: ESRI Online Map;
USGS 7.5' West Union Quadrangle



PROJECT NO.	139034
DRAWN:	7/13/2014
DRAWN BY:	J. Weber
CHECKED BY:	A. Leonard
FILE NAME:	FritzPL_FEMA_v1.mxd

Antero Midstream LLC

**Fritz Pipeline
Doddridge County, West Virginia
Flood Insurance Rate Map**

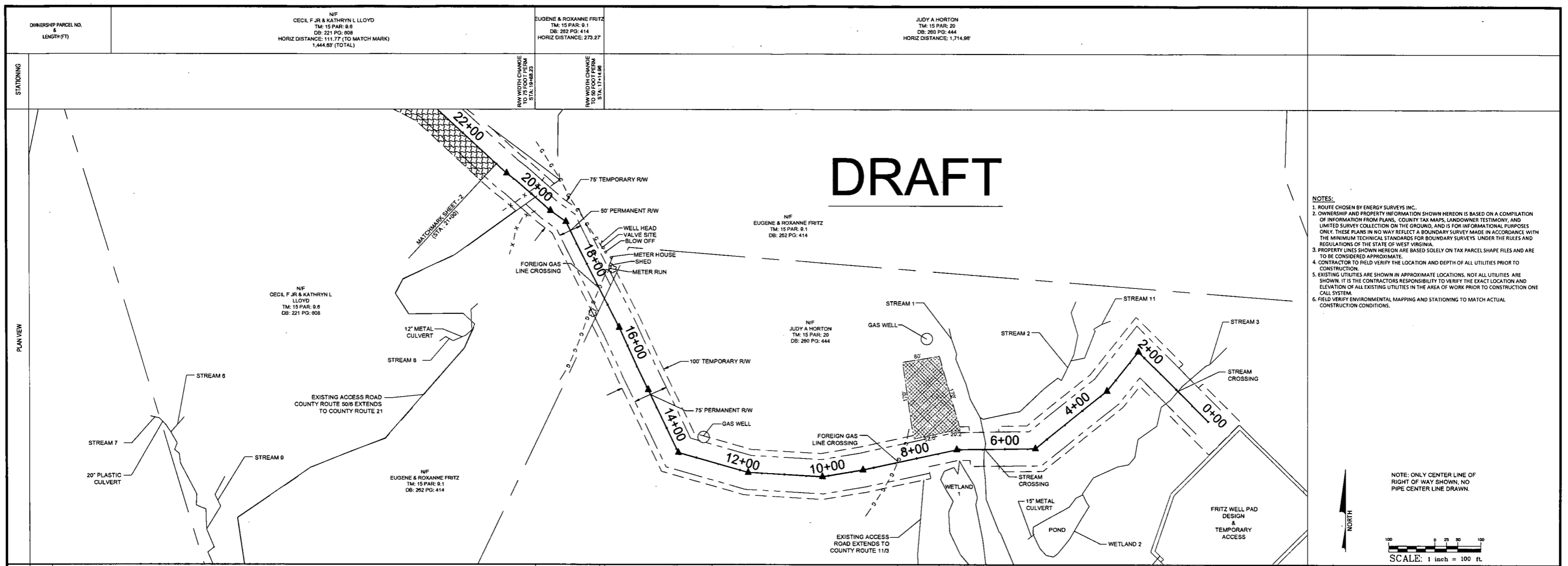
FIGURE
1

Property Owner Table - Doddridge County

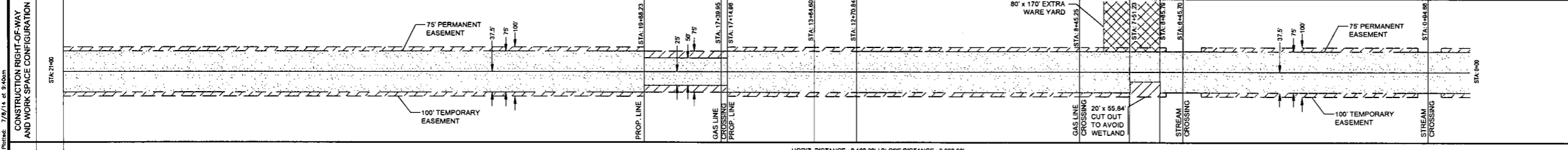
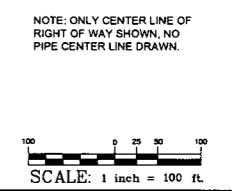
Antero Midstream LLC - Fritz Well Pad to Primm West Pipeline (Fritz Pipeline) Project

Property Owner Name	Mailing Address	Parcel ID	Deed Book Reference	Land Book Description
HOST PROPERTIES - OUTSIDE FLOODPLAIN				
Primm Loren H & Ruth Ann	RT 1 Box 223 1 West Union WV 26456	1-15-17	Book: 194, Page: 479	CABIN RUN 94.77 AC RT 21
Lloyd Cecil F Jr & Kathr	10541 Rocky Ridge Rd Rocky Ridge MD 21778	1-15-9.6	Book: 221, Page: 608	40.03 AC CABIN RUN
Grace Jan L & Phyllis A	236 24TH ST West Des Moines IA 50265	1-15-9.4	Book: 221, Page: 602	40.03 AC CABIN RUN
Fritz Eugene & Roxanne	RT 1 Box 221-2 West Union WV 26456	1-15-9.1	Book: 262, Page: 414	50 AC CABIN RUN 50/6
Horton Judy A	8021 Rocky Road Laytonsville MD 20882	1-15-20	Book: 260, Page: 444	CABIN RUN 65.06 AC RT 20 & RT 11 OVER 3

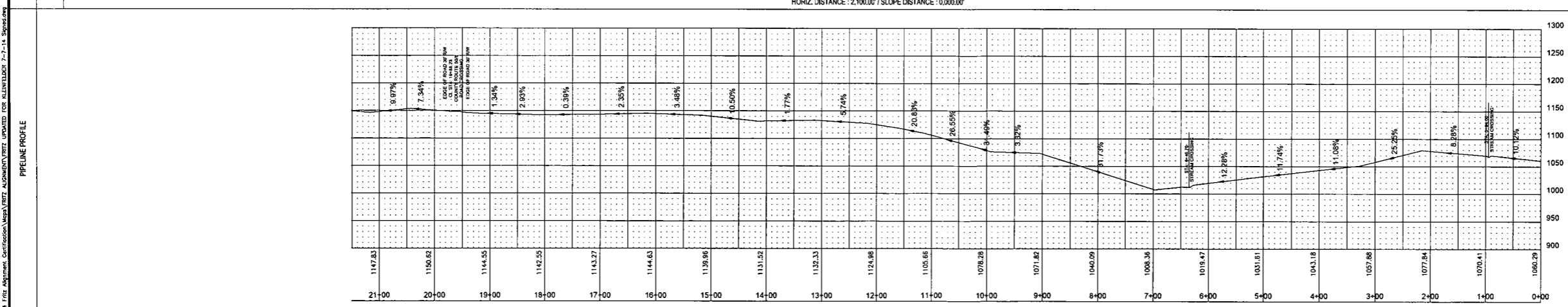
DRAFT



- NOTES:**
- ROUTE CHOSEN BY ENERGY SURVEYS INC.
 - OWNERSHIP AND PROPERTY INFORMATION SHOWN HEREON IS BASED ON A COMPILATION OF INFORMATION FROM PLANS, COUNTY TAX MAPS, LANDOWNER TESTIMONY, AND LIMITED SURVEY COLLECTION ON THE GROUND, AND IS FOR INFORMATIONAL PURPOSES ONLY. THESE PLANS IN NO WAY REFLECT A BOUNDARY SURVEY MADE IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS FOR BOUNDARY SURVEYS UNDER THE RULES AND REGULATIONS OF THE STATE OF WEST VIRGINIA.
 - PROPERTY LINES SHOWN HEREON ARE BASED SOLELY ON TAX PARCEL SHAPE FILES AND ARE TO BE CONSIDERED APPROXIMATE.
 - CONTRACTOR TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 - EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. NOT ALL UTILITIES ARE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN THE AREA OF WORK PRIOR TO CONSTRUCTION ONE CALL SYSTEM.
 - FIELD VERIFY ENVIRONMENTAL MAPPING AND STATIONING TO MATCH ACTUAL CONSTRUCTION CONDITIONS.



TEMPORARY EASEMENT ACREAGE = 8.8 AC
 PERMANENT EASEMENT ACREAGE = 8.4 AC
 EXTRA WORK SPACE COMBINED ACREAGE = 0.7 AC
 TOTAL ACREAGE (TEMPORARY EASEMENT + EWS) = 9.5 AC
 TOTAL ACREAGE (PERMANENT EASEMENT + EWS) = 7.1 AC



SUMMIT ENGINEERING, INC.
 100 TECHNOLOGY BL. NORTH CHARLOTTE, NC 28216

CERTIFICATION THAT THE PROPOSED ACTIVITY IN A REGULATORY FLOODWAY WILL NOT RESULT IN ANY INCREASE IN HEIGHT OF THE 100-YEAR FLOOD.
 I, THE UNDERSIGNED, HEREBY CERTIFY THAT THE MAP IS CORRECT AND SHOWS ALL THE INFORMATION TO THE BEST OF MY KNOWLEDGE AND BELIEF REQUIRED BY THE REGULATORY LAWS OF THIS STATE.

Michael J. Lugo
 SIGNATURE
 REGISTRATION 7-8-14
 NOTARY PUBLIC

ACKNOWLEDGED BEFORE ME A NOTARY PUBLIC
 THIS 7 DAY OF 2025. MY COMMISSION EXPIRES 08/2026

VERT. SCALE: 1 inch = 100 feet
 HORIZ. SCALE: 1 inch = 100 feet

- LEGEND**
- PROPOSED PIPELINE
 - FOREIGN PIPELINE
 - STREAM
 - ACCESS ROAD
 - PROPERTY LINE
 - TOWNSHIP/COUNTY LINE
 - PERMANENT EASEMENT
 - TEMPORARY WORK SPACE
 - ADDITIONAL TEMPORARY WORK SPACE
 - SOIL
 - SALT FENCE
 - POWER LINE
 - FENCE
 - VALVE
 - PERMANENT RIGHT OF WAY
 - CONSTRUCTION RIGHT OF WAY
 - PROPOSED PI
 - FLAGGED TREE. DO NOT OBTURB

SHEET 1

SUMMARY OF MATERIAL				LAND USE			
KEY	O.D.	W.T.	TYPE	1 3-23-14 DW CHANGES FROM 2ND ROUND TABLE REVIEW WITH NRDW			
A	16.00"	0.375"	K52 STEEL				
EXTERNAL COATING				SLOPE CATEGORIES			
C	60 MILS. ARO			A - 0 TO 5%			
				B - 5% TO 15%			
				C - 15% TO 30%			
				D - > 30%			
REV.	DATE	BY	DESCRIPTION	CHK.	ENGR.	APPR.	CLIENT



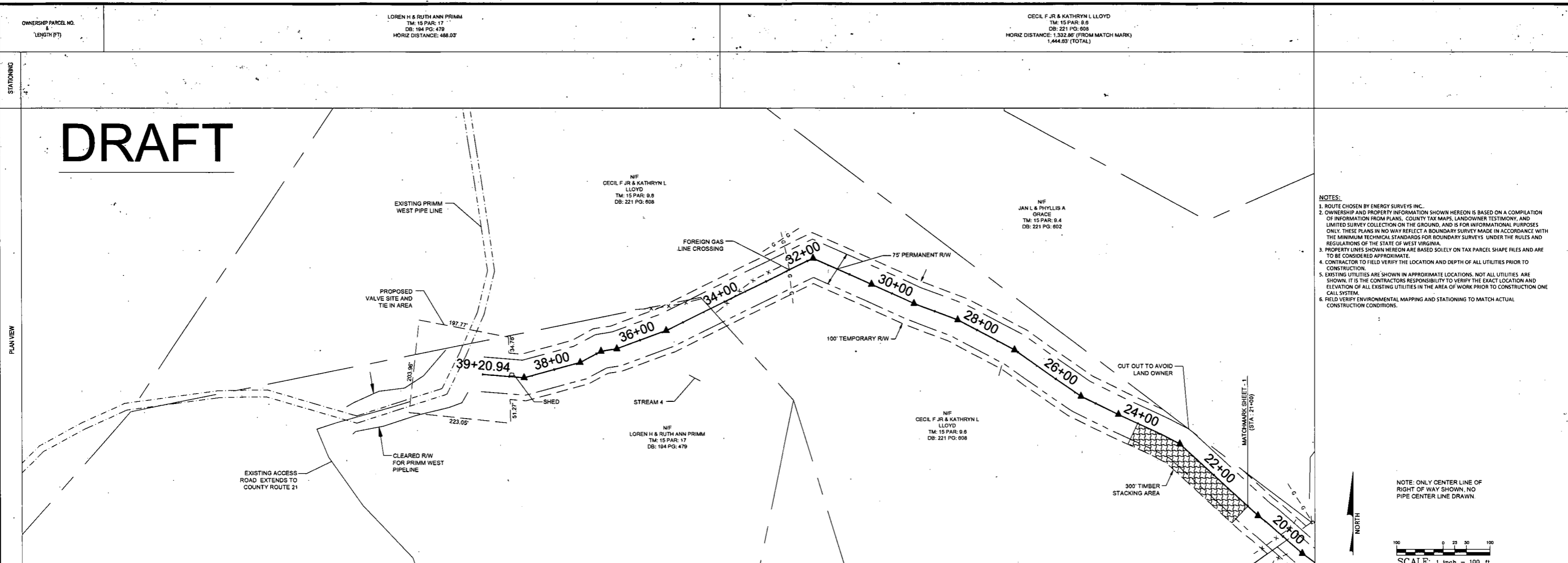
418 MAYO STREET
 CLARKSBURG, WV 26301
 WWW.ENERGYSURVEYSINC.COM

PROJECT NO.
 DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 APPROVED BY:
 SCALE: SCALE

ANTERO RESOURCES CORPORATION
 PRELIMINARY PLANS FOR THE PROPOSED
 FRITZ PIPELINE

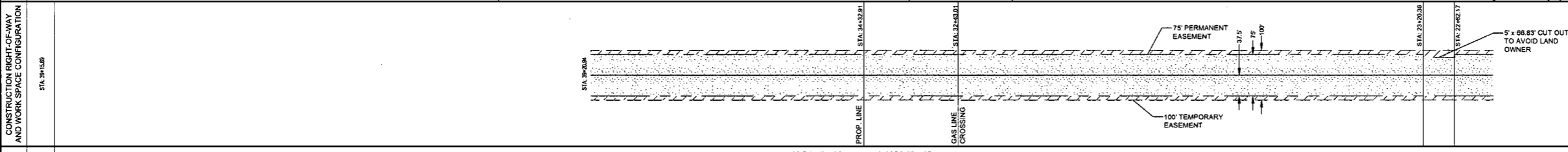
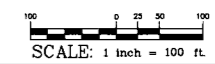
16" PIPE LINE
 FROM
 FRITZ PAD
 TO PRIMM LINE

SHEET 1 OF 2

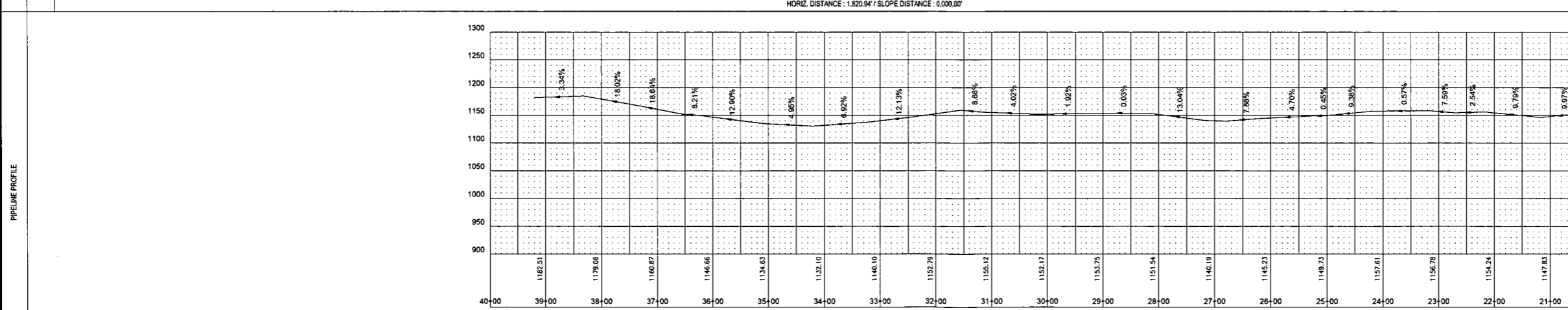


- NOTES:**
- ROUTE CHOSEN BY ENERGY SURVEYS INC.
 - OWNERSHIP AND PROPERTY INFORMATION SHOWN HEREON IS BASED ON A COMPILATION OF INFORMATION FROM PLANS, COUNTY TAX MAPS, LANDOWNER TESTIMONY, AND LIMITED SURVEY COLLECTION ON THE GROUND, AND IS FOR INFORMATIONAL PURPOSES ONLY. THESE PLANS IN NO WAY REFLECT A BOUNDARY SURVEY MADE IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS FOR BOUNDARY SURVEYS UNDER THE RULES AND REGULATIONS OF THE STATE OF WEST VIRGINIA.
 - PROPERTY LINES SHOWN HEREON ARE BASED SOLELY ON TAX PARCEL SHAPE FILES AND ARE TO BE CONSIDERED APPROXIMATE.
 - CONTRACTOR TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 - EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. NOT ALL UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN THE AREA OF WORK PRIOR TO CONSTRUCTION ONE CALL SYSTEM.
 - FIELD VERIFY ENVIRONMENTAL MAPPING AND STATIONING TO MATCH ACTUAL CONSTRUCTION CONDITIONS.

NOTE: ONLY CENTER LINE OF RIGHT OF WAY SHOWN, NO PIPE CENTER LINE DRAWN



TEMPORARY EASEMENT ACREAGE = 8.8 AC
 PERMANENT EASEMENT ACREAGE = 8.4 AC
 EXTRA WORK SPACE COMBINED ACREAGE = 0.7 AC
 TOTAL ACREAGE (TEMPORARY EASEMENT + EWS) = 9.5 AC
 TOTAL ACREAGE (PERMANENT EASEMENT + EWS) = 7.1 AC



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 106 TECHNOLOGY BL, SOUTH CHARLESTON, WV 25309

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I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT AND SHOWS ALL THE INFORMATION TO THE BEST OF MY KNOWLEDGE AND BELIEF REQUIRED BY THE REGULATORY LAWS OF THIS STATE.

Michael J. Aves
 MICHAEL J. AVES
 NOTARY PUBLIC
 STATE OF WEST VIRGINIA
 REGISTRATION NO. 7-8-14
 EXPIRES 7/8/2018

ACKNOWLEDGED BEFORE ME A NOTARY PUBLIC
 THIS 7 DAY OF *Sept* 2018 MY COMMISSION EXPIRES *7/8/2018*

VERT. SCALE: 1 inch = 100 ft.
 HORIZ. SCALE: 1 inch = 100 ft.

LEGEND

	PROPOSED PIPELINE		SALT FENCE
	FOREIGN PIPELINE		POWER LINE
	STREAM		FENCE
	ACCESS ROAD		VALVE
	PROPERTY LINE		PERMANENT RIGHT OF WAY
	TOWNSHIP/COUNTY LINE		CONSTRUCTION RIGHT OF WAY
	PERMANENT EASEMENT		PROPOSED PI
	TEMPORARY WORK SPACE		FLAGGED TREE, DO NOT DISTURB
	ADDITIONAL TEMPORARY WORK SPACE		
	SOIL		

SHEET 2

SUMMARY OF MATERIAL

KEY	Q.D.	W.T.	TYPE
A	16.00"	0.375"	X52 STEEL

EXTERNAL COATING

KEY	TYPE
C	80 MILS. ARO

LAND USE

REV.	DATE	BY	DESCRIPTION	CHK.	ENGR.	APPR.	CLIENT
1	8-23-14	DW	CHANGES FROM 2ND ROUND TABLE REVIEW WITH NROW				

SLOPE CATEGORIES

- A - > 0 TO 5%
- B - > 5% TO 15%
- C - > 15% TO 30%
- D - > 30%



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 DRAWN BY: DRAWN
 CHECKED BY: CHECKED
 APPROVED BY: APPROVED
 SCALE: SCALE

ANTERO RESOURCES CORPORATION
 PRELIMINARY PLANS FOR THE PROPOSED
 FRITZ PIPELINE

16" PIPE LINE
 FROM
 FRITZ PAD
 TO PRIMM LINE

SHEET 2 OF 2