

# 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: #14-234 Rock Run Pipeline

**Date Approved: 07/10/2014**

**Expires: N/A**

**Issued to: ANTERO RESOURCES**

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

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

**Project Address: Central District**

**Lat/Long: 39.304793N/80.815685W to 39.305299N/80.822490W**

**Purpose of development: Rock Run Pipeline. Project does NOT impact floodplain.**

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

**Date: 07/10/2014**

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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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Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 27<sup>th</sup> day of June, 2014

**Antero Resources**

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

**Central District, Rock Run Well Pad**

**39.304793N / 80.815685W TO 39.305299N / 80.822490W**

**Permit #14-234 Rock Run Pipeline**

(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

# 14-234

FILED

2015 JUN 27 PM 12:57

COUNTY CLERK  
DODDRIDGE COUNTY, WV



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

June 25, 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 Rock Run Pipeline project. The proposed project consists of a steel pipeline located near the town of West Union in Doddridge County, West Virginia. The 0.56 mile pipeline will be buried below the ground surface and will utilize existing access roads during the installation of the pipeline. Per the FIRM Maps 54017C0115C and the WV Flood Tool Map, the Rock Run 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 plans

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

June 16, 2014

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

Re: Doddridge County Floodplain Development Permit Application  
Diane Davis Well Pad to Rock Run Well Pad Project (Rock Run Pipeline)  
Doddridge County, West Virginia  
Antero Midstream LLC

Dear Mr. Wriston:

Antero Midstream LLC (Antero) is proposing to install 0.56-miles of steel, natural gas pipeline near the town of West Union in Doddridge County, West Virginia at coordinates 39.304793°, -80.815685° for the eastern terminus of the line and 39.305299°, -80.822490° for the western terminus of the line. The proposed Rock Run 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.

Kleinfelder biologists conducted stream and wetland investigations and habitat assessments on January 17, 2014 and April 8, 2014 to identify streams and wetlands within a 29.70-acre area of interest (AOI) surrounding the proposed pipeline. A portion of the AOI was previously delineated by AllStar Ecology, LLC (ASE) on September 20, 2012 as part of the Diane Davis Well Pad and Water Containment Pad. Another portion of the AOI was also delineated by ASE on November 15, 2012 as part of the Rock Run Well Pad. During the site reviews, one (1) non-jurisdictional drainage feature was identified within the AOI.

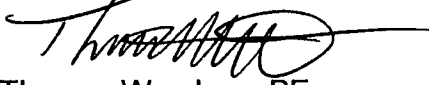
Based on the engineered construction design plans, the installation of the Rock Run Pipeline will not result in impacts to any jurisdictional features as none were identified within the AOI.

No part of the Rock Run Pipeline and access road(s) for construction will cross a designated Federal Emergency Management Administration regulated flood zone according to FIRM Map #54017C0115C within Doddridge County. Following completion of construction activities, the right-of-way will be restored to pre-construction contours.

Directions to the Site: From West Union, WV: Head south on Neely Avenue toward W Main Street. Turn left onto W Main Street. Turn right onto WV-18 S. Turn right onto US-50 W and continue for 2.6 miles. Turn right onto Arnolds Creek Road/Central Station Road/County Route 1/1/Right Fork Run Road. Continue to follow County Route 1/1. Make a sharp right onto Arnolds Creek Road/County Route 1/1. The entrance to the access road will be on your right.

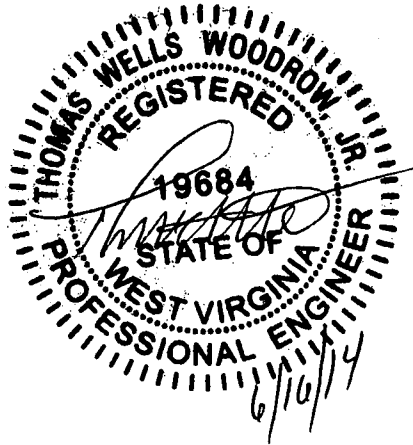
We appreciate your timely review of these materials. Please contact me at (724) 831-5129 with any questions or concerns.

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 June 25, 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:**

- 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 \$ 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: Please see Property Owner Table

ADDRESS: \_\_\_\_\_  
 \_\_\_\_\_

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: N/A-No properties sharing an

ADDRESS: immediate and common boundary  
up or down stream due to the  
location not being in floodplain

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.

**Property Owner Table - Doddridge County**

**Antero Midstream LLC - Diane Davis Well Pad to Rock Run Well Pad Project (Rock Run Pipeline)**

<b>Property Owner Name</b>	<b>Mailing Address</b>	<b>Parcel ID</b>	<b>Deed Book Reference</b>	<b>Land Book Description</b>
<b>HOST PROPERTIES - OUTSIDE FLOODPLAIN</b>				
Jonathan L. Davis & Louella D. Davis	RT 2 Box 271 West Union WV 26456	1-7-2	Book 279, Page 639	Arnolds Creek 35.21 Acres
George D. Lambert	12 Townridge AC. Mullens WV 25882	1-4-33	Book 288, Page 44	Arnolds Creek 37.51 Acres (Parcel A) Rt. 11
Kathleen M. Brown	6 Second Street Pocomoke City MD 21851	1-4-33.1	Book 281, Page 366	Arnolds Creek 62.92 Acres (Parcel B)

- (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 Kloverdanz

SIGNATURE: [Signature] DATE: 6/25/14

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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

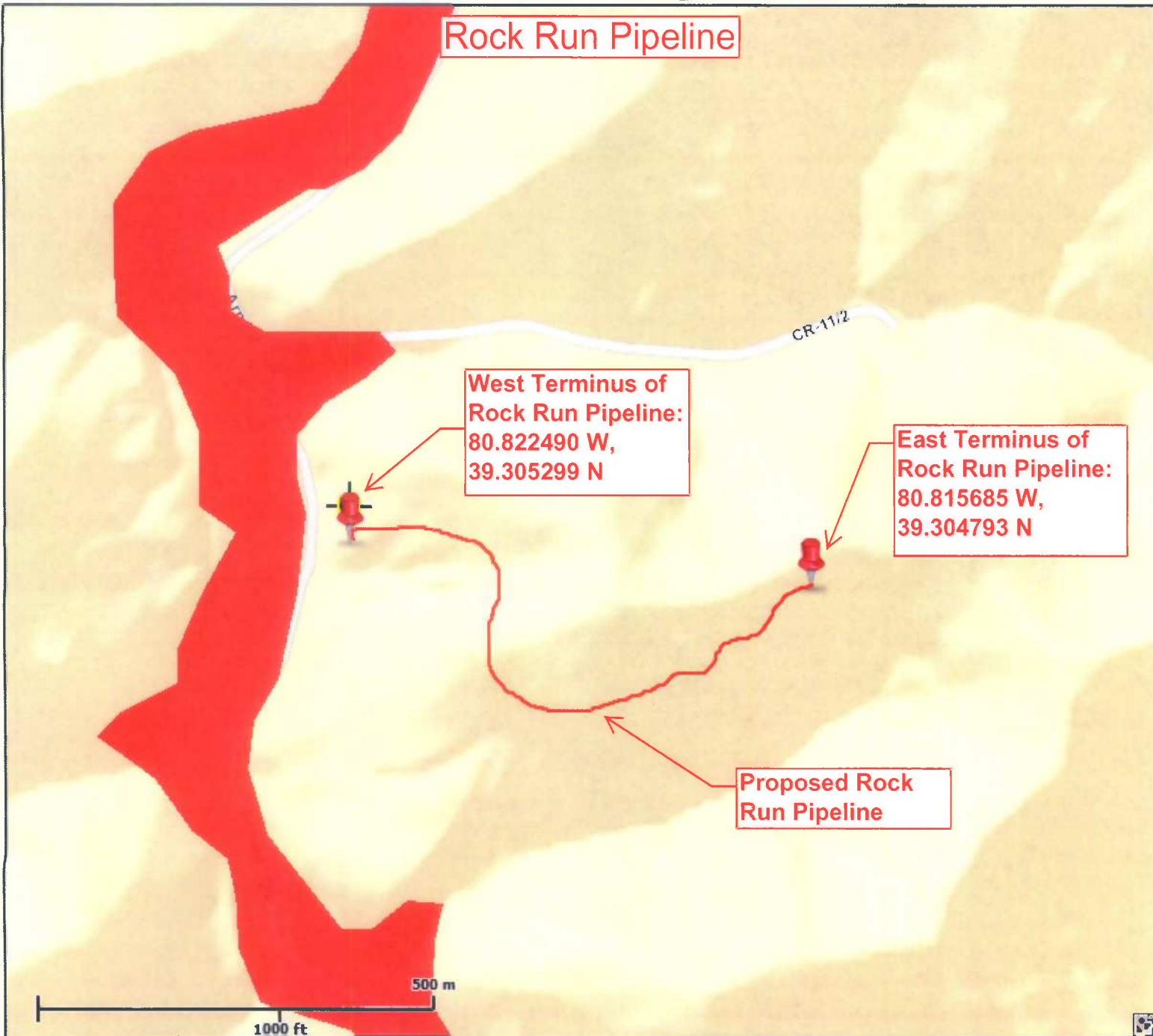
**OWNER'S ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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 6/25/2014



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](http://www.msc.fema.gov).

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center

## Flood Hazard Area:

Elevation: About 836 feet

Location (long, lat): 80.822511 W, 39.305465 N

Location (UTM 17N): (515303, 4350690)

FEMA Issued Flood Map: 54017C0115C

Contacts: Doddridge County

CRS Information: N/A

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*  
*# 14-234*  
*Rock Run Well Pad*

was published in said paper for *2*

successive weeks beginning with the issue  
of *July 15<sup>th</sup>* 2014 and  
ending with the issue of

*July 22<sup>nd</sup>* 2014 and  
that said notice contains *189*

WORD SPACE at *115<sup>c</sup>* 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*

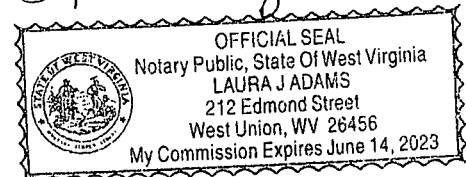
SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE *24<sup>th</sup>* DAY  
OF *July* 2014

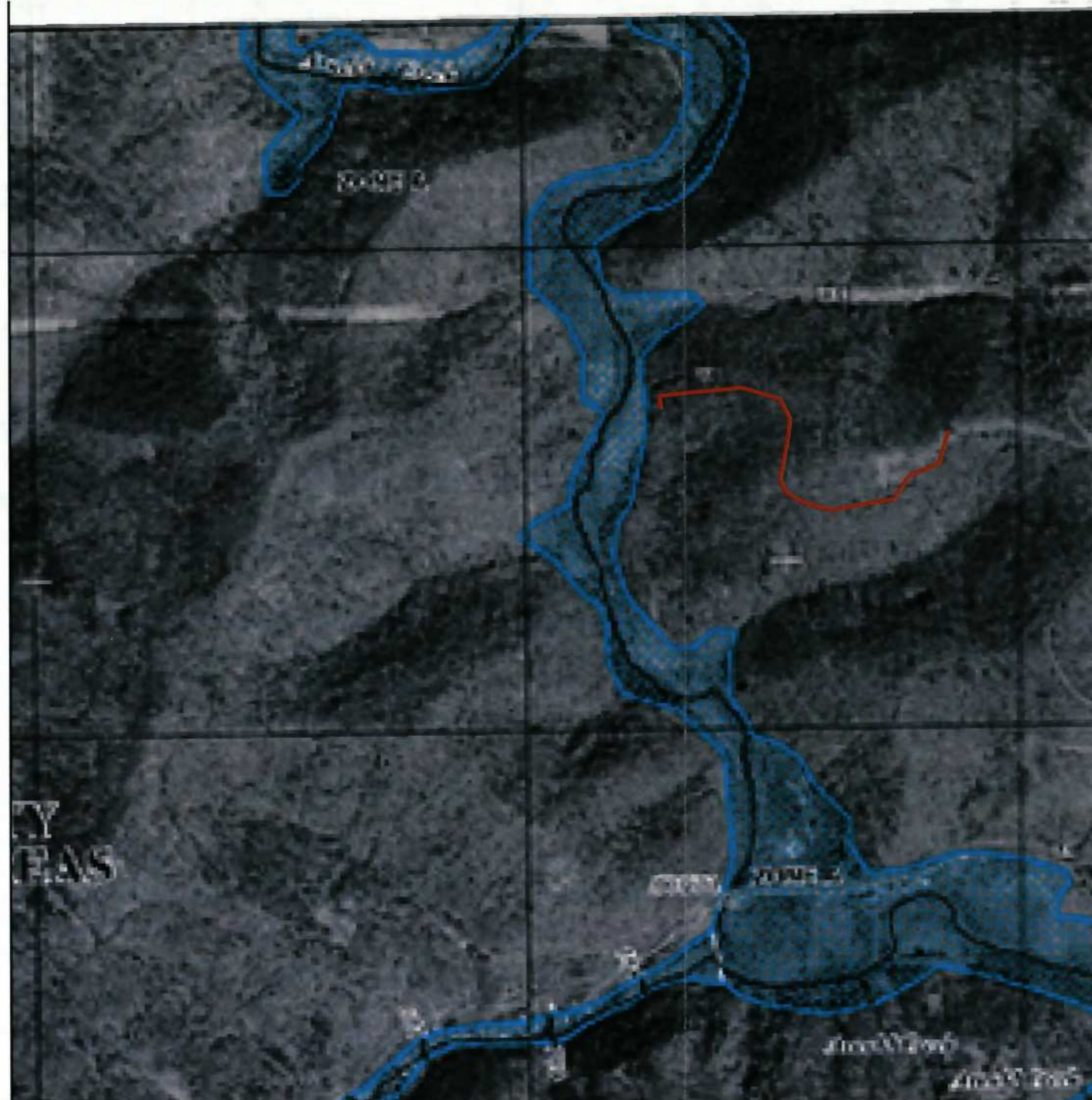
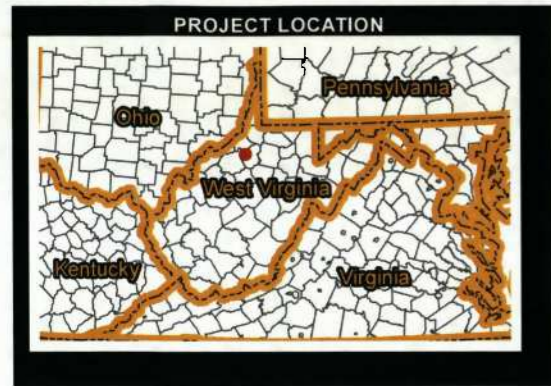
NOTARY PUBLIC

*Laura J Adams*

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 27th day of June, 2014  
Antero Resources filed an application for a Floodplain  
Permit to develop land located at or about: Central  
District, Rock Run Well Pad 39.304793N/80.815685W TO  
39.305299N/80.822490W. Permit #14-234, Rock Run  
Pipeline (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



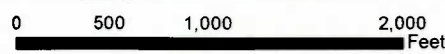
**ROCK RUN PIPELINE  
FEMA FIRM 54017C0115C  
ANTERO MIDSTREAM LLC**



SITE LOCATIONS NAD 83		
Eastern Terminus (UTM Meters)	N=4350616.8 m	E=515891.4 m
Western Terminus (UTM Meters)	N=4350671.8 m	E=515304.6 m
	LATITUDE	LONGITUDE
Eastern Terminus	39.304793	-80.815685
Western Terminus	39.305299	-80.822490

**CENTRAL DISTRICT, DODDRIDGE COUNTY, WV  
LITTLE MUSRINGUM-MIDDLE ISLAND WATERSHED**

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
REC-RAS STUDY COMPLETED:	N/A
FLOODPLAIN SHOWN ON DRAWINGS:	YES
FIRM MAP NUMBER (S) FOR SITE:	54017C0115C
ACREAGE OF CONSTRUCTION IN FLOODPLAIN:	N/A



**Legend**

- Rock Run Pipeline (0.56 mi)
- FEMA Floodplain

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 representation or warranty, 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 party using or misusing the information.

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



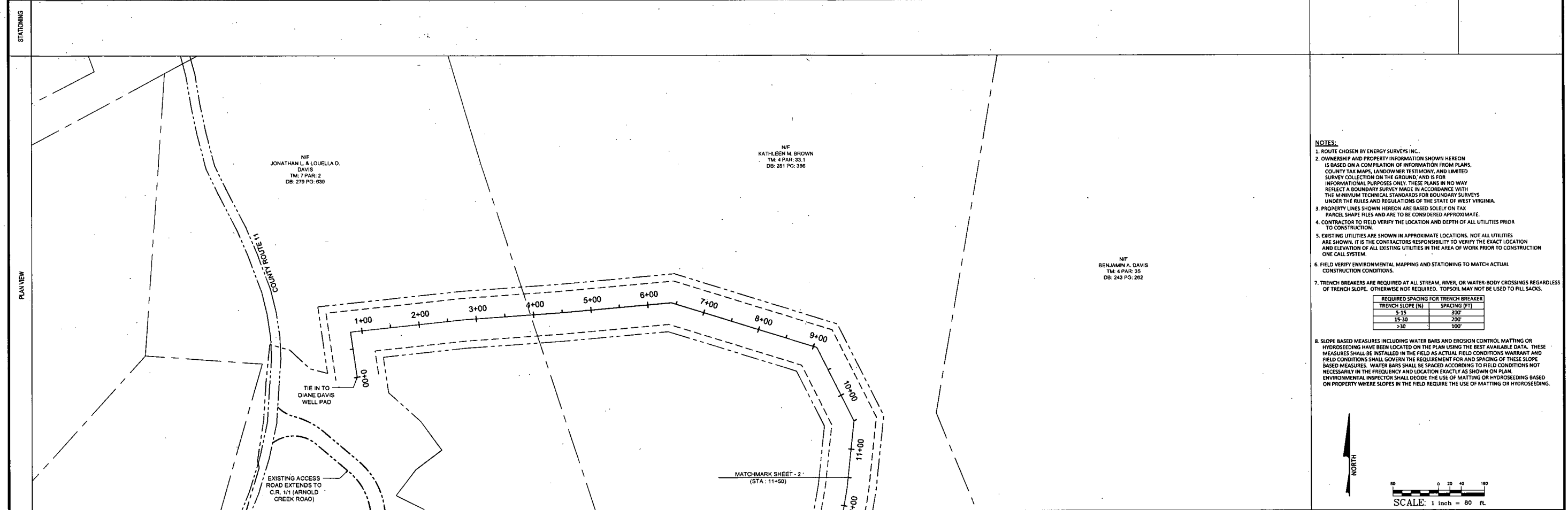
PROJECT NO.	139038
DRAWN:	5/19/2014
DRAWN BY:	B.McDavid
CHECKED BY:	N.Peace
FILE NAME:	RockRunPL_FEMA_v1.mxd

**Antero Midstream LLC**  
**Rock Run Pipeline  
Doddridge County, West Virginia  
Flood Insurance Rate Map**

FIGURE

**1**

OWNERSHIP PARCEL NO. & LENGTH (FT)	JONATHAN L. & LOUELLA D. DAVIS TM: 4 PAR: 2 DB: 278 PG: 439 HORIZ DISTANCE: 384.87	STA: 3+84.87	KATHLEEN M. BROWN TM: 4 PAR: 33.1 DB: 281 PG: 388 HORIZ DISTANCE: 1,280.22	STA: 11+50
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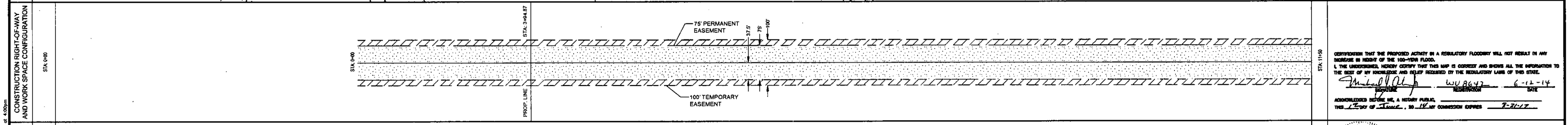


- NOTES:**
- ROUTE CHOSEN BY ENERGY SURVEYS INC.
  - OWNERSHIP AND PROPERTY INFORMATION SHOWN HEREON IS BASED ON A COMPILATION OF INFORMATION FROM PLANS, COUNTY TAX MAPS, LANDOWNER TESTIMONY, AND LIMITED SURVEY COLLECTION ON THE GROUND, AND IS FOR INFORMATIONAL PURPOSES ONLY. THESE PLANS IN NO WAY REFLECT 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.
  - TRENCH BREAKERS ARE REQUIRED AT ALL STREAM, RIVER, OR WATER-BODY CROSSINGS REGARDLESS OF TRENCH SLOPE. OTHERWISE NOT REQUIRED. TOPSOIL MAY NOT BE USED TO FILL SACKS.

TRENCH SLOPE (%)	SPACING (FT)
5-15	300'
15-30	200'
>30	100'



SCALE: 1 inch = 80 ft

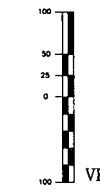
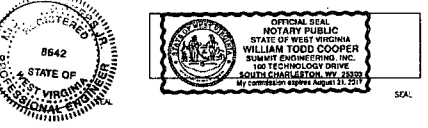
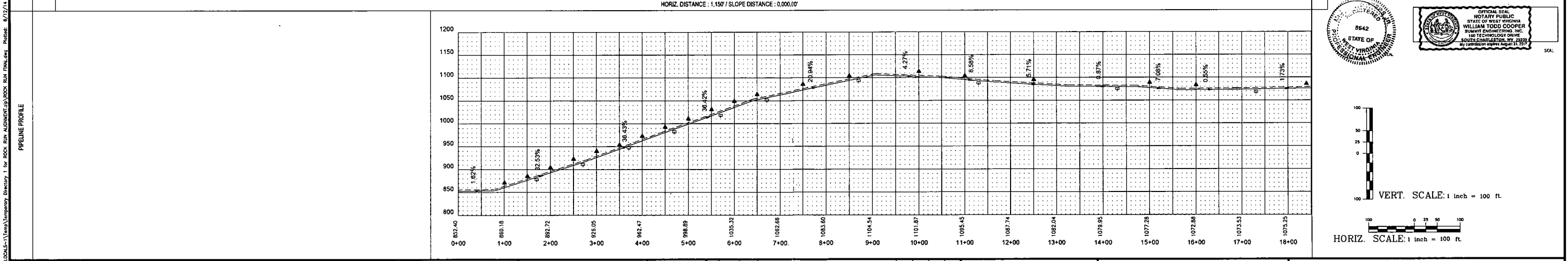


CERTIFICATION THAT THE PROPOSED ACTIVITY IS A REGULATORY FLOODING WILL NOT RESULT IN ANY INCREASE IN HEIGHT OF THE 100-YEAR FLOOD.

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.

*William Todd Cooper* WTC 8642 6-12-14  
 REGISTERED PROFESSIONAL ENGINEER DATE

ACKNOWLEDGED BEFORE ME, A NOTARY PUBLIC,  
 THIS 12th day of June, 2014, at my Commission Expires 7-21-17



VERT. SCALE: 1 inch = 100 ft



HORIZ. SCALE: 1 inch = 100 ft

**LEGEND**

	PROPOSED PIPELINE		POWER LINE
	FOREIGN PIPELINE		FENCE VALVE
	STREAM		CONSTRUCTION RIGHT OF WAY
	ACCESS ROAD		PERMANENT WATER BAR
	PROPERTY LINE		TEMPORARY WATER BAR
	PROPOSED R.O.W./L.O.D.		EARTH TRENCH BREAKER
	ADDITIONAL TEMPORARY WORK SPACE		
	EDGE OF ROAD		

# SHEET 1

KEY	O.D.	I.D.	TYPE
A	18.00"	8.375"	XS2 STEEL

KEY	TYPE
	EXTERNAL COATING

REV.	DATE	BY	DESCRIPTION	CHK.	ENGR.	APPR.	CLIENT

**Energy Surveys, Inc.**

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

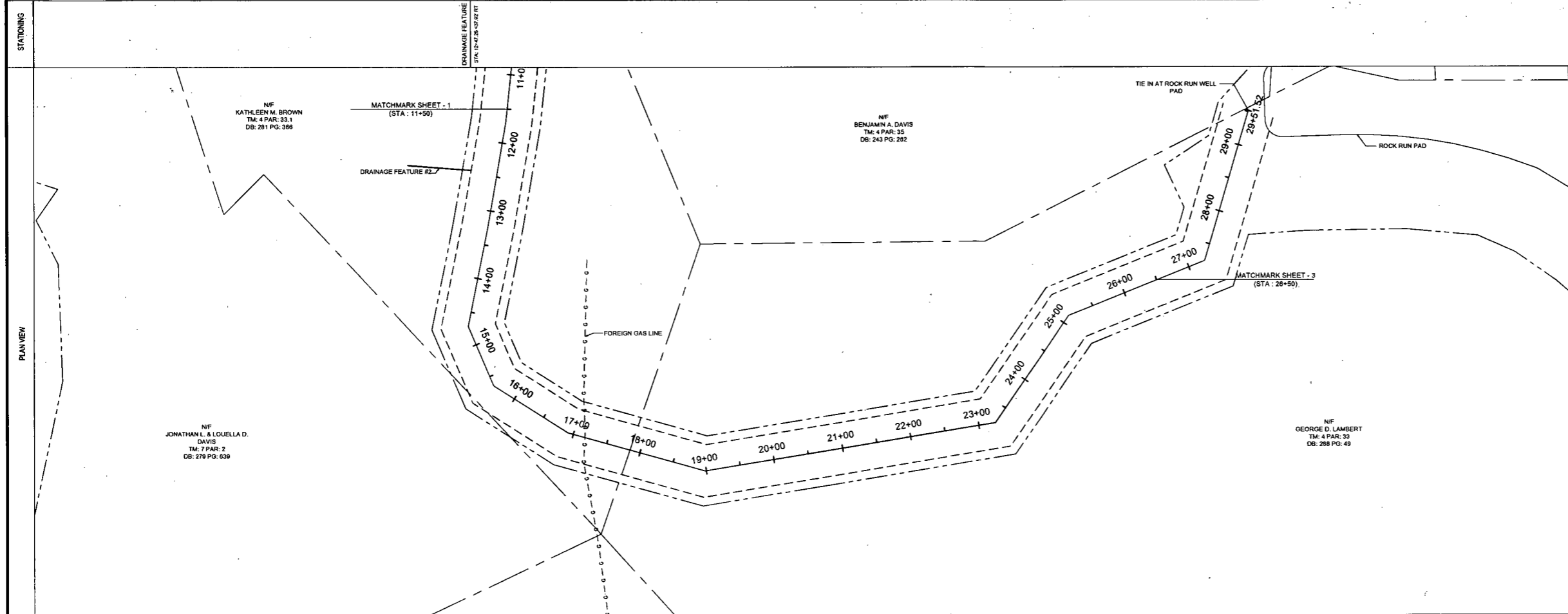
PROJECT NO. \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 SCALE: \_\_\_\_\_

**ANTERO RESOURCES CORPORATION**  
 PRELIMINARY PLANS FOR THE PROPOSED  
 ROCK RUN PIPELINE

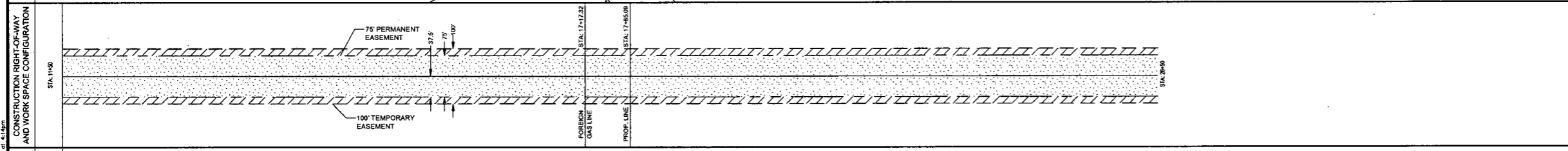
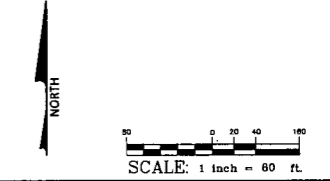
**DAVIS PAD TO ROCK RUN PAD**  
 SIZE: TBD

SHEET 1 OF 3      REV. \_\_\_\_\_

OWNERSHIP PARCEL NO. & LENGTH (FT) STA. 11+50.00 KATHLEEN M. BROWN TM: 4 PAR: 33.1 DB: 281 PG: 388 HORIZ. DISTANCE: 1,300.22 STA. 12+45.00 GEORGE D. LAMBERT TM: 4 PAR: 33 DB: 288 PG: 49 HORIZ. DISTANCE: 1,108.43 STA. 29+51.52



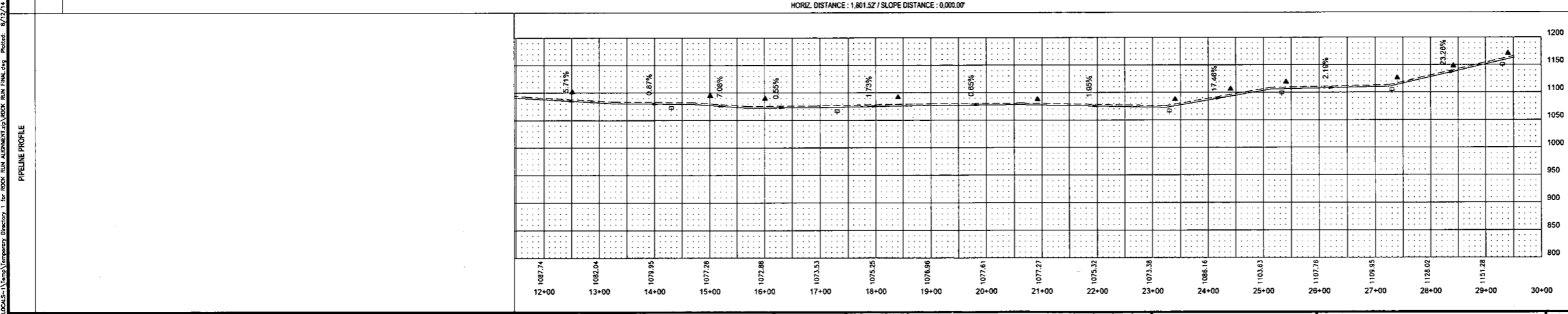
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  - FIELD VERIFY ENVIRONMENTAL MAPPING AND STATIONING TO MATCH ACTUAL CONSTRUCTION CONDITIONS.
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- | REQUIRED SPACING FOR TRENCH BREAKER |              |
|-------------------------------------|--------------|
| TRENCH SLOPE (%)                    | SPACING (FT) |
| 5-15                                | 300'         |
| 15-30                               | 200'         |
| >30                                 | 100'         |
8. SLOPE BASED MEASURES INCLUDING WATER BARS AND EROSION CONTROL, MATTING OR HYDROSEEDING HAVE BEEN LOCATED ON THE PLAN USING THE BEST AVAILABLE DATA. THESE MEASURES SHALL BE INSTALLED IN THE FIELD AS ACTUAL FIELD CONDITIONS WARRANT AND FIELD CONDITIONS SHALL GOVERN THE REQUIREMENT FOR AND SPACING OF THESE SLOPE BASED MEASURES. WATER BARS SHALL BE SPACED ACCORDING TO FIELD CONDITIONS NOT NECESSARILY IN THE FREQUENCY AND LOCATION EXACTLY AS SHOWN ON PLAN. ENVIRONMENTAL INSPECTOR SHALL DECIDE THE USE OF MATTING OR HYDROSEEDING BASED ON PROPERTY WHERE SLOPES IN THE FIELD REQUIRE THE USE OF MATTING OR HYDROSEEDING.



CERTIFICATION THAT THE PROPOSED ACTIVITY IS A REGULATORY FLOODING WILL NOT RESULT IN ANY INCREASE IN HEIGHT OF THE 100-YEAR FLOOD. 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.

*William Todd Cooper* WTC 6477 6-12-14  
 REGISTERED PROFESSIONAL ENGINEER DATE

ACKNOWLEDGED BEFORE ME, A NOTARY PUBLIC, THIS 12th day of June, 2014, at 12:12 PM COMMISSION EXPIRES 7-21-17



OFFICIAL SEAL  
 NOTARY PUBLIC  
 STATE OF WEST VIRGINIA  
 WILLIAM TODD COOPER  
 SUMMIT ENGINEERING, INC.  
 150 TECHNOLOGY DRIVE  
 SOUTH CHARLESTON, WV 25303  
 My Commission Expires August 31, 2017

VERT. SCALE: 1 inch = 100 ft.

HORIZ. SCALE: 1 inch = 100 ft.

**LEGEND**

— C —	PROPOSED PIPELINE	— P —	POWER LINE
— F —	FOREIGN PIPELINE	— V —	VALVE
— S —	STREAM	— R —	PERMANENT RIGHT OF WAY
— A —	ACCESS ROAD	— T —	CONSTRUCTION RIGHT OF WAY
— P —	PROPERTY LINE	— W —	PERMANENT WATER BAR
— R —	PROPOSED R.O.W. / L.O.D.	— B —	TEMPORARY WATER BAR
— T —	ADDITIONAL TEMPORARY WORK SPACE	— E —	EARTH TRENCH BREAKER
— E —	EDGE OF ROAD		

# SHEET 2

**SUMMARY OF MATERIAL**

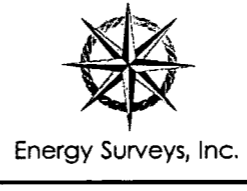
KEY	Q.D.	W.T.	TYPE
A	18.00"	0.375"	X52 STEEL

**EXTERNAL COATING**

KEY	TYPE

**LAND USE**

REV	DATE	BY	DESCRIPTION	CHK.	ENGR.	APPR.	CLIENT



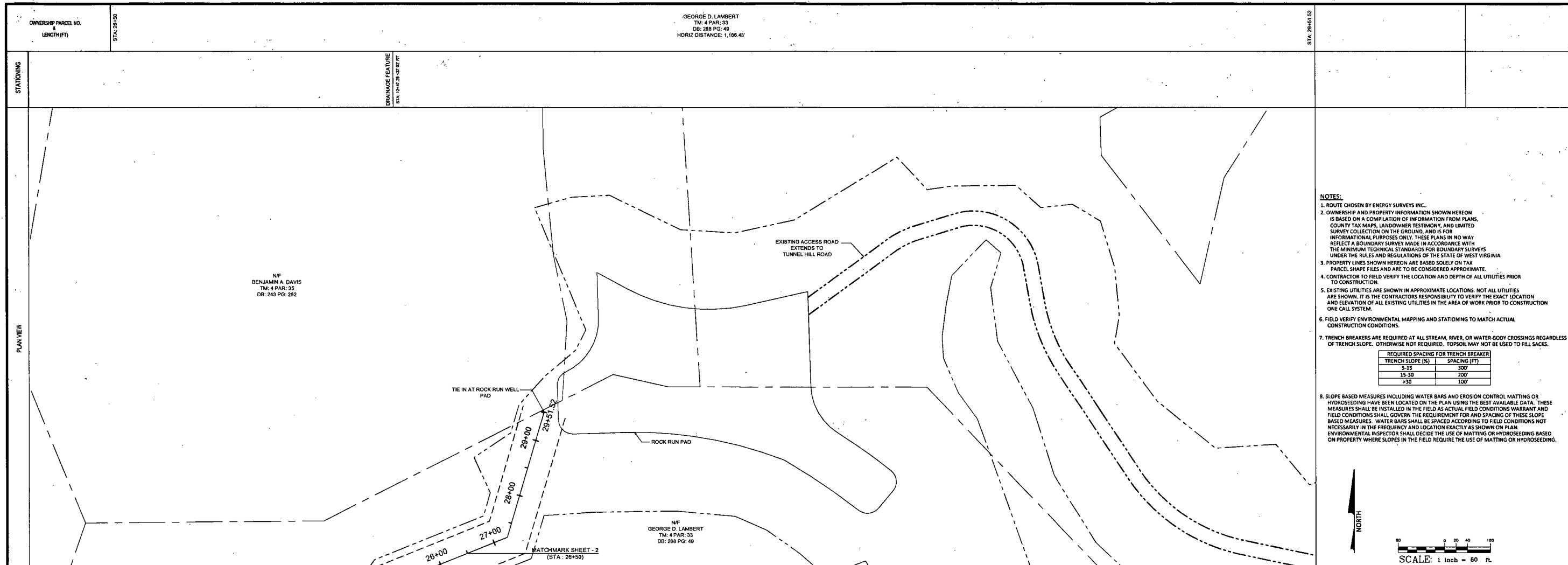
418 MAYO STREET  
 CLARKSBURG, WV 26301  
 WWW.ENERGYSURVEYSINC.COM

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

ANTERO RESOURCES CORPORATION  
 PRELIMINARY PLANS FOR THE PROPOSED  
 ROCK RUN PIPELINE

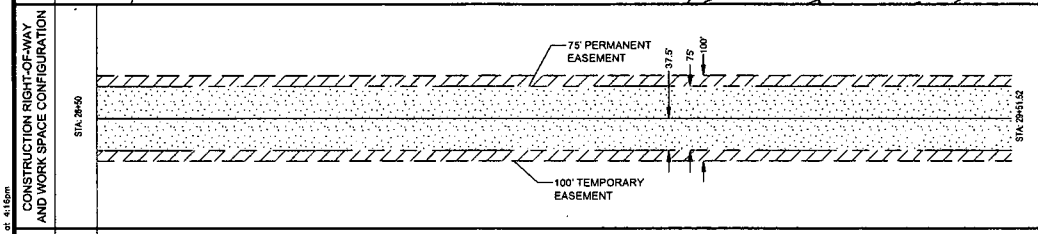
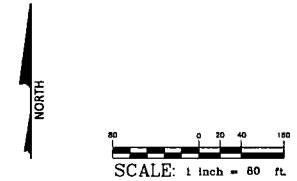
DAVIS PAD TO ROCK RUN PAD  
 SIZE: TBD

SHEET 2 OF 3



- NOTES:**
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TRENCH SLOPE (%)	SPACING (FT)
5-15	300'
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>30	100'
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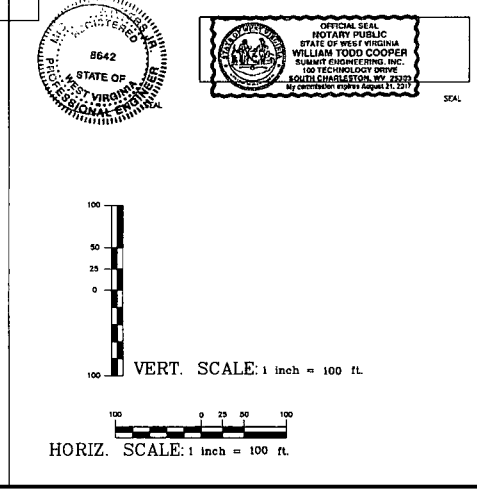
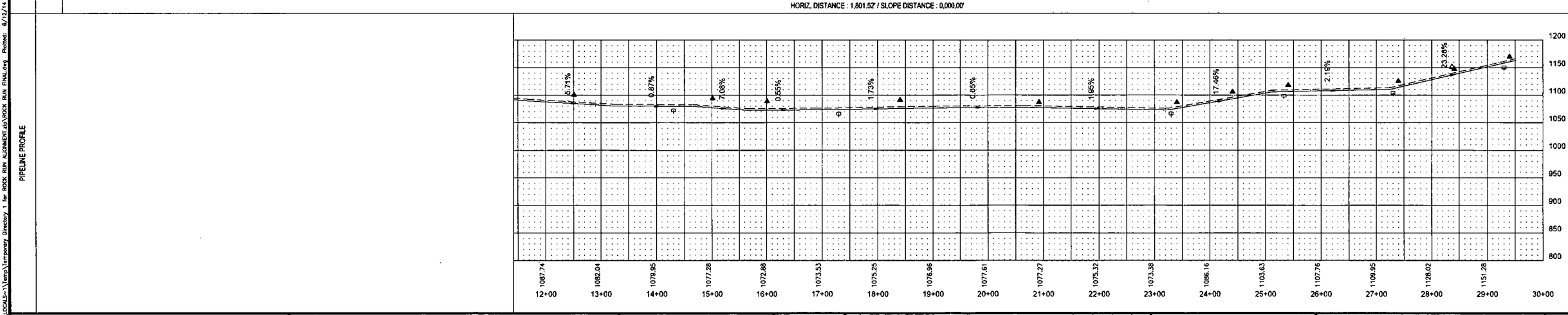


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*William Todd Cooper* WTC 8642 6-12-14  
 Notary Public  
 STATE OF WEST VIRGINIA  
 My Commission Expires August 31, 2020

ACKNOWLEDGED BEFORE ME, A NOTARY PUBLIC,  
 THIS 12th day of June, 2014, at MY OFFICE IN CLARKSBURG, WV.



**LEGEND**

	PROPOSED PIPELINE		POWER LINE
	FOREIGN PIPELINE		FENCE
	STREAM		VALVE
	ACCESS ROAD		PERMANENT RIGHT OF WAY
	PROPERTY LINE		CONSTRUCTION RIGHT OF WAY
	PROPOSED R.O.W. / L.O.D.		PERMANENT WATER BAR
	ADDITIONAL TEMPORARY WORK SPACE		TEMPORARY WATER BAR
	EDGE OF ROAD		EARTH TRENCH BREAKER

**SHEET 3**

**SUMMARY OF MATERIAL**

KEY	Q.D.	W.T.	TYPE
A	18.00"	0.375"	X52 STEEL

**EXTERNAL COATING**

KEY	TYPE

**LAND USE**

REV.	DATE	BY	DESCRIPTION	CHK.	ENGR.	APPR.	CLIENT

**SLOPE CATEGORIES**

- A - 0 TO 5%
- B - 5% TO 10%
- C - 10% TO 30%
- D - 30% +

**WATER BAR SPACING**

- 3% TO 15% - 50 FT.
- 15% TO 30% - 100 FT.
- 30% - 50 FT.



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

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

ANTERO RESOURCES CORPORATION  
 PRELIMINARY PLANS FOR THE PROPOSED  
 ROCK RUN PIPELINE

DAVIS PAD TO ROCK RUN PAD  
 SIZE: TBD

SHEET 3 OF 3