

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: #14-274 ~ Antero Resources ~ Red Lick Well Pad

Date Approved: 09/16/2014 Expires: N/A

Issued to: Antero Resources POC: Emily Kijowski 303-357-7310

Company Address: 1615 Wynkoop Street

Denver, CO 80202

Project Address: West Union District Lat/Long: 39.223125N/80.653420W

Purpose of development: Well Pad construction. Project does not impact floodplain.

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

Date: 09/16/2014

Legal Advertisement:

Doddridge County

Floodplain Permit Application

Please take notice that on the 4th day of September, 2014

Antero Resources

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

West Union District

39.223125N/80.653420W

Permit #14-274 Red Lick Well Pad

(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 October 6, 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

414-274



2014 SEP -4 PA 12: 47

September 3, 2014



Resource
Antero Resources
1615 Wynkoop Street

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

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

Mr. Wriston:

Antero Resources Appalachian Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Red Lick Well Pad. Our project is located in Doddridge County, West Union District and per FIRM map #54017C0235C this location is **not** within the floodplain.

Attached you will find the following:

- > Doddridge County Floodplain Permit Application
- > Red Lick Construction Plans
- ➤ FIRM Map
- > WV Flood Tool Map

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

Thank you in advance for your consideration.

Sincerely,

Emily Kijowski

Permit Representative

mily Fin

Antero Resources Appalachian Corporation

Enclosures

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_September 3, 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	
ADDRESS: 1615 Wynkoop Street, Denver, CO 80202	
TELEPHONE NUMBER: Contact Emily Kijowski: (303)-357-7232	

BUILDER'S NAME: Antero Midstream LLC
ADDRESS: 1615 Wynkoop Strett, Denver, CO 80202
TELEPHONE NUMBER: (303)-357-7310
ENGINEER'S NAME: Navitus Engineering Inc.
ADDRESS: 151 Windy Hill Lane, Winchester, VA 22602
TELEHONE NUMBER: (888)-622-4185
PROJECT LOCATION:
NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Surface Owner Table
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Surface Owner Table
DISTRICT:
DATE/FROM WHOM PROPERTY PURCHASED:
DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: Please see Surface Owner Table
DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: Please see Surface Owner Table DEED BOOK REFERENCE: Please see Surface Owner Table
DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: Please see Surface Owner Table DEED BOOK REFERENCE: Please see Surface Owner Table
DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: Please see Surface Owner Table DEED BOOK REFERENCE: Please see Surface Owner Table TAX MAP REFERENCE: Please see Surface Owner Table EXISTING BUILDINGS/USES OF PROPERTY: None
DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: Please see Surface Owner Table DEED BOOK REFERENCE: Please see Surface Owner Table TAX MAP REFERENCE: Please see Surface Owner Table EXISTING BUILDINGS/USES OF PROPERTY: None
DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: Please see Surface Owner Table DEED BOOK REFERENCE: Please see Surface Owner Table TAX MAP REFERENCE: Please see Surface Owner Table EXISTING BUILDINGS/USES OF PROPERTY: None NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT
DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: Please see Surface Owner Table DEED BOOK REFERENCE: Please see Surface Owner Table TAX MAP REFERENCE: Please see Surface 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 Surface Owner Table
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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

ACTIVITY STRUCTURAL TYPE Χ **New Structure** Residential (1 - 4 Family) Π Addition Π Residential (more than 4 Family) Π Alteration Non-residential (floodproofing) n Relocation П Combined Use (res. & com.) []Demolition Replacement Π Manufactured/Mobil Home B. **OTHER DEVEOPLMENT ACTIVITIES:** []Fill Mining Drilling **Pipelining** X Grading Excavation (except for STRUCTURAL DEVELOPMENT checked above) Watercourse Altercation (including dredging and channel modification) Π Drainage Improvements (including culvert work) Π Road, Street, or Bridge Construction Π Subdivision (including new expansion)

C. STANDARD SITE PLAN OR SKETCH

Individual Water or Sewer System

Other (please specify)

[]

[]

- 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).

ME: N/A-No properties sharing an NAME:

AIVIE:	N/A-No properties sharing an	NAME:
DDRESS	immediate and common boundary	ADDRESS:
	up or down stream due to the	
	location not being in floodplain	
AME:		NAME:
DDRESS		ADDRESS:
LO AP RE	PLICATION IS FILED AND THE NAME A SIDING IN ANY HOME ON ANY PROPE	TY AT THE TIME THE FLOODPLAIN PERMIT ND ADDRESS OF AT LEAST ONE ADULT RTY THAT MAY BE AFFECTED BY FLOODING AS
LO AP RE IS	CATED UPON ANY ADJACENT PROPER PLICATION IS FILED AND THE NAME A SIDING IN ANY HOME ON ANY PROPE DEMONSTRATED BY A FLOODPLAIN ST	TY AT THE TIME THE FLOODPLAIN PERMIT ND ADDRESS OF AT LEAST ONE ADULT RTY THAT MAY BE AFFECTED BY FLOODING AS TUDY OR SURVEY.
LO AF RE IS NAME	CATED UPON ANY ADJACENT PROPER PLICATION IS FILED AND THE NAME A SIDING IN ANY HOME ON ANY PROPE DEMONSTRATED BY A FLOODPLAIN ST N/A-No properties sharing an	TY AT THE TIME THE FLOODPLAIN PERMIT ND ADDRESS OF AT LEAST ONE ADULT RTY THAT MAY BE AFFECTED BY FLOODING AS FUDY OR SURVEY. NAME:
LO AF RE IS NAME	CATED UPON ANY ADJACENT PROPER PLICATION IS FILED AND THE NAME A SIDING IN ANY HOME ON ANY PROPE DEMONSTRATED BY A FLOODPLAIN ST	TY AT THE TIME THE FLOODPLAIN PERMIT ND ADDRESS OF AT LEAST ONE ADULT RTY THAT MAY BE AFFECTED BY FLOODING AS TUDY OR SURVEY. NAME:
LO AF RE IS NAME	CATED UPON ANY ADJACENT PROPER PLICATION IS FILED AND THE NAME A SIDING IN ANY HOME ON ANY PROPE DEMONSTRATED BY A FLOODPLAIN ST	TY AT THE TIME THE FLOODPLAIN PERMIT ND ADDRESS OF AT LEAST ONE ADULT RTY THAT MAY BE AFFECTED BY FLOODING AS FUDY OR SURVEY. NAME:
LO AF RE IS NAME ADDRI	CATED UPON ANY ADJACENT PROPER PLICATION IS FILED AND THE NAME A SIDING IN ANY HOME ON ANY PROPE DEMONSTRATED BY A FLOODPLAIN ST :N/A-No properties sharing an ESS:immediate and common boundary up or down stream due to the location not being in floodplain	TY AT THE TIME THE FLOODPLAIN PERMIT ND ADDRESS OF AT LEAST ONE ADULT RTY THAT MAY BE AFFECTED BY FLOODING AS TUDY OR SURVEY. NAME: ADDRESS:
LO AF RE IS NAME ADDRI	CATED UPON ANY ADJACENT PROPER PLICATION IS FILED AND THE NAME A SIDING IN ANY HOME ON ANY PROPE DEMONSTRATED BY A FLOODPLAIN ST	TY AT THE TIME THE FLOODPLAIN PERMIT ND ADDRESS OF AT LEAST ONE ADULT RTY THAT MAY BE AFFECTED BY FLOODING AS FUDY OR SURVEY. NAME:

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): Rangy Kloberdage	
SIGNATURE: D	ATE: September 3, 2014
After completing SECTION 2, APPLICANT should submit form to Floor Administrator/Manager or his/her representative for review.	dplain
SECTION 3: FLOODPLAIN DETERMINATION (to be completed Administrator/Manager or his/her representative)	ed by Floodplain
THE PROPOSED DEVELOPMENT:	
THE PROPOSED DEVELOPMENT IS LOCATED ON:	
FIRM Panel:	
Dated:	
[] Is <u>NOT</u> located in a Specific Flood Hazard Area (Notify applicant review is complete and NO FLOOPLAIN DEVELOPMENT PERMIT IS RE	nt that the application EQUIRED).
[] 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 Date of the proposed development is located in a floodway.	ted

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 a	applicant must submit the documents checked below before the application can be essed.		
[]	A plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.		
E)	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.		
0	Top of new fill elevationFt. 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.		

SIGNED_

[]

Contractor's License and a Manufactured Home Installation License as required by the

Manufactured homes located in a floodplain area must have a West Virginia

Federal Emergency Management Agency (FEMA).

ION 5: PER	MIT DETERMINATION (To be completed by Floodplain
	ator/Manager or his/her representative)
provisions o County on N	mined that the proposed activity (type is or is not) in conformance with f the Floodplain Ordinance adopted by the County Commission of Dodd (lay 21, 2013). The permit is issued subject to the conditions attached to f this permit.
SIGNED	DATE
with the pro	plain Administrator/Manager found that the above was not in conforma visions of the Doddridge County Floodplain Ordinance and/or denied the applicant may complete an appealing process below.
APPEALS:	Appealed to the County Commission of Doddridge County? [] Yes {} Hearing Date:
	County Commission Decision - Approved [] Yes [] No

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
2	crawl space isFT. NGVD (MSL) Actual (As Built) elevation of floodproofing isFT. NGVD (MSL)
Note appi	e: Any work performed prior to submittal of the above information is at risk of the icant.
SEC	TION 7: COMPLIANCE ACTION (To be completed by the Floodplain
Adn	ninistrator/Manager or his/her representative).
as ap	Floodplain Administrator/Manager or his/her representative will complete this section policable based on inspection of the project to ensure compliance with the Doddridge aty Floodplain Ordinance.
II	NSPECTIONS:
	DATE:BY:
C	OMMENTS
<u>SECT</u>	ION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain
<u>Adm</u>	inistrator/Manager or his/her representative).
Certif	icate of Compliance issued: DATE: BY:

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

PURPOSE – CONSTRUCTION LOCATION: OWNER'S ADDRESS: THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN ADMINISTRATOR/MANAGER OR HIS/HER AGENT.	
OWNER'S ADDRESS: THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN	
THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN	
THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN	
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THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN ADMINISTRATOR/MANAGER OR HIS/HER AGENT.	
ADMINISTRATOR/MANAGER OR HIS/HER AGENT.	
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	

Doddridge County
Please take notice this on the 4th day of September,
2014 Anteroid Resources filed san-rapplication for a
Please take notice this on the 4th day of September,
2014 Anteroid Resources filed san-rapplication for a
Ploodplain Permit to develop land located actor about
West Union District 39 221125/186 653420W Permit #14274 Red Lick Well Rad (Note: This projectly 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 Proodplain Managements has allow
to comment shall present the same innerting by October of
6,2014

Delivered to the
Cerk of the County Court

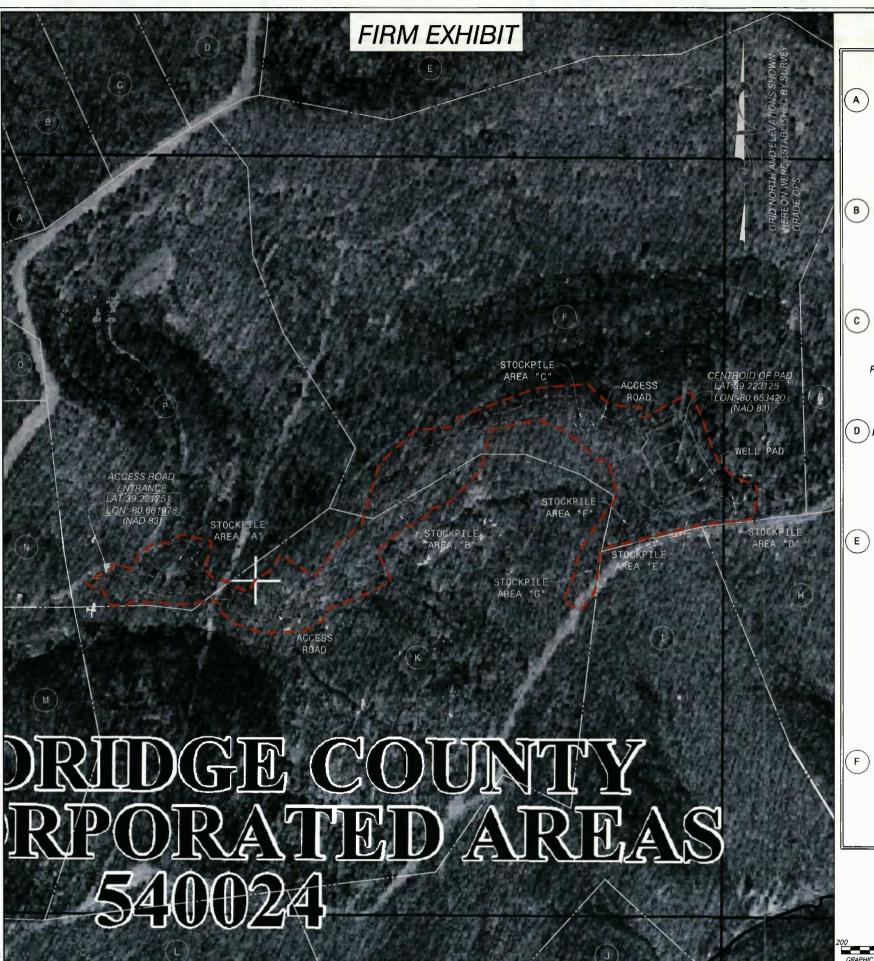
118 F. Court Street. West Union, WV 26456
Beth A. Rosers/Doddridge County Clerk
Edwin L. "Bo" Wriston; Doddridge County Clerk
Edwin L. "Bo" Wriston; Doddridge County Phood Plain
Manager:

9-16-2xb

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 * 14-274
was published in said paper for
successive weeks beginning with the issue of September 16 2014 and
ending with the issue of
September 23 rd 2014 and
that said notice contains
amounts to the sum of \$. \\ \frac{1.74}{
FOR FIRST PUBLICATION, SECOND PUBLICATION IS 75% OF THE FIRST PUBLICATION
\$ /6:31 and each publication thereafter
s. 38,05 TOTAL
EDITOR Virginia Micholson
SWORN TO AND SUBSCRIBED
BEFORE ME THIS THE DAY
OF September 2014
NOTARYPUBLIC TOULOGO GODONO.
OFFICIAL SEAL Notary Public, State Oi West Virginia LAURA J ADAMS 212 Edmond Street

West Union, WV 26456 My Commission Expires June 14, 2023

STATE OF WEST VIDGINIA



LANDOWNER TABULATION

TM 9-10 MARVIN L. NUCE, ET AL AP 037 PG 238 11.5 ACRES RT 1 BOX 10 NEW MILTON, WV 26411

> TM 9-11 RACHEL RUNNER DB 87 PG 353 11 ACRES 179 WOODS WAY ELKTON, MD 21921

TM 9-12 J. H. BURBRIDGE DB 87 PG 353 12 ACRES 5824 DEER PARK ROAD REISTERSTOWN, MD 21136

TM 9-13 D) P. S. BURBRIDGE, ESTATE DB 87 PG 353 16 ACRES RT 1 BOX 10 NEW MILTON, WV 26411

TM 9-14 E) CHRISTINE M. BARTLETT, TINA L. SEITZ. BETH A. DURANTE, ROXANE L. LOMBARDI. DIANE MENNIG, DAMIEL CUNNINGHAM, CATHY M. ZEIGLER. VINCE BRUNO, TRACY BRUNTON, AND MARK J. BRUNO DB 263 PG 479 60 ACRES 176 BEACON DRIVE WEIRTON, WV 26062

TM 9-18 MICHAEL D. & CHARLOTTE D. HIZA DB 182 PG 500 DB 184 PG 003 100 ACRES P.O. BOX 84 STORY, WV 82842

MICHAEL D. & CHARLOTTE D. HIZA DB 182 PG 500 DB 184 PG 003 22 ACRES P.O. BOX 84 STORY, WV 82842

TM 9-21 DENZIL R. & LINDA M. RUTHERFORD DB 235 PG 619 130.18 ACRES RT 6 BOX 217 ROCKLAKE FAIRMONT, WV 26554

TM 13-5 DENZIL R. & LINDA M. RUTHERFORD DB 235 PG 619 88.25 ACRES RT 6 BOX 217 ROCKLAKE FAIRMONT, WV 26554

TM 13-4 DENZIL R. & LINDA M. RUTHERFORD DB 235 PG 619 23.73 ACRES RT. 6 BOX 217 ROCKLAKE FAIRMONT, WV. 26554

TM 9-17 LOUIS BRUNO, JR DB 294 PG 304 75.93 ACRES 145 LEECH STREET WEIRTON, WV 26062

TM 13-3 DENZIL R. & LINDA M. RUTHERFORD DB 235 PG 619 23.73 ACRES RT. 6 BOX 217 ROCKLAKE FAIRMONT, WV. 26554

TM 9-16.1 FORREST D. & CHRISTOPHER D. **DEWEESE** DB 234 PG 656 52.8 ACRES 117 GRANT DRIVE CHARLESTON, WV 25320

TM 9-16.8 FORREST D. & CHRISTOPHER D. DEWEESE DB 243 PG 677 8 ACRES 117 GRANT DRIVE CHARLESTON, WV 25320

TM 9-16 RAMONA JEAN BOYCE WB 026 PG 621 31.32 ACRES 2257 ELDERSVILLE ROAD FOLLANSBEE, WV 26037

TM 9-17.1 P) CHRISTINE M. BARTLETT, TINA L. SEITZ, BETH A. DURANTE, ROXANE L. LOMBARDI, DIANE MENNIG. DANIEL CUNNINGHAM, CATHY M. ZEIGLER, VINCE BRUNO. TRACY BRUNTON, & MARK J. BRUNO DB 263 PG 479 45.739 ACRES 176 BEACON DRIVE

WEIRTON, WV 26062

FLOOD INSURANCE RATE MAP

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY



MAP NUMBER 54017C0235C MAP REVISED **OCTOBER 4, 2011**

Federal Emergency Management Agency

PANEL 0235C

FIRM

DODDRIDGE COUNTY, **WEST VIRGINIA** AND INCORPORATED AREAS

PANEL 235 OF 325

PANEL SUFFIX

Antero

THIS DOCUMENT
WAS PREPARED FOR:
ANTERO RESOURCES
CORPORATION

RED LICK

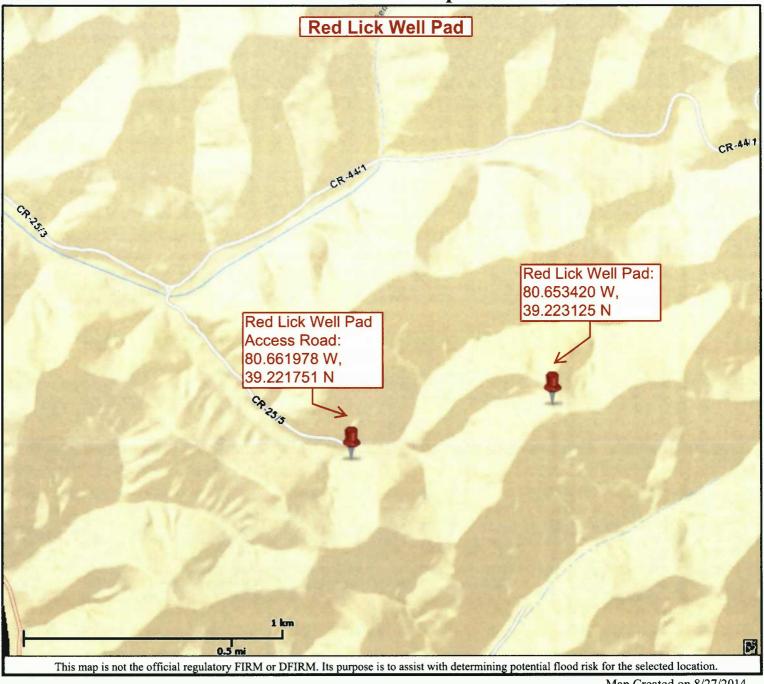
FIRM

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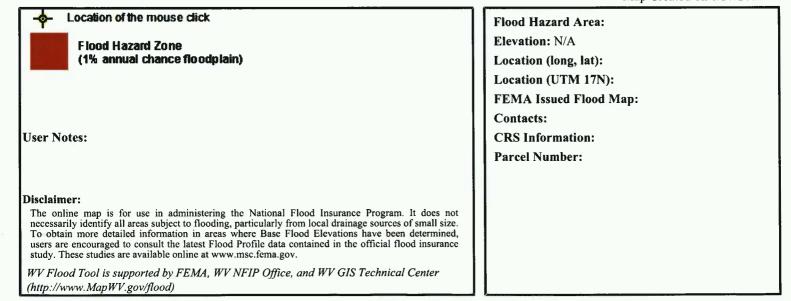
DATE: 07/28/2014 SCALE: 1" = 200 SHEET 22 OF 22

FLOODPLAIN NOTE
THE PROPOSED SITE IS LOCATED IN
FLOOD ZONE "X" PER FEMA FLOOD
MAP #54017C0235C

WV Flood Map



Map Created on 8/27/2014



LOCATION COORDINATES
ACCESS ROAD ENTRANCE

LATITUDE: 39.221751 LONGITUDE: -80.661978 (NAD 83) N 4341439.40 E 529178.33 (UTM ZONE 17 METERS)

CENTROID OF WELL PAD LATITUDE: 39.223125 LONGITUDE: -80.653420 (NAD 83) N 4341594.69 E 529916.52 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION

THE WELL PAD & ACCESS ROAD(S) ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTE

THE PROPOSED SITE IS LOCATED IN FLOOD ZONE "X" PER FEMA FLOOD MAP #54017C0235C.

MISS UTILITY STATEMENT
ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING
OF UTILITIES PRIOR TO THIS PROJECT DESIGN: TICKET #1313733988.
IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT

ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES

WETLAND DELINEATIONS WERE COMPLETED ON APRIL 18, 2013 BY ALLSTAR ECOLOGY, LLC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE APRIL 29, 2013 DESIGNERS' MAP WAS PREPARED BY ALLSTAR ECOLOGY, LLC. AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM

RED LICK	PERENNIAL	STREAM IMPACT	(LINEAR FEET)	
	Permanent Impacts		Temp. Impacts	Total Impact
Stream and Impact Cause	Culvert /Fill (LF)	Inlets/Outlets Structures (LF)	Distance to L.O.D. (LF)	Total Impact (LF)
Stream 1 (Access Road A)	47	41	10	98

GEOTECHNICAL NOTE

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON JULY 01-03, & 07-09, 2014. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED JULY 22, 2014, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED.

ENGINEER/SURVEYOR: NAVITUS ENGINEERING, INC. CYRUS S. KUMP, PE - PROJECT

OFFICE: (888) 662-4185 CELL: (540) 686-6747

ALLSTAR ECOLOGY, LLC
RYAN L. WARD - ENVIRONMENTAL SCIENTIST
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GEOTECHNICAL:
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CHRISTOPHER W. SAMIOS-PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 589-0662

MANAGER/ENGINEER

ENVIRONMENTAL:

PROJECT CONTACTS

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 FAX: (304) 842-4102

ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE: (304) 842-4068 CELL: (304) 476-9770

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AARON KUNZLER - CONSTRUCTION SUPERVISOR

ANTHONY SMITH - FIELD ENGINEER OFFICE: (304) 842-4208 CELL: (304) 673-6196

MARK JOHNSON - SURVEYING COORDINATOR OFFICE: (304) 842-4162 CELL: (304) 719-6449

RESTRICTIONS NOTES:

JACK BELL - LAND AGENT CELL: (304) 376-9682

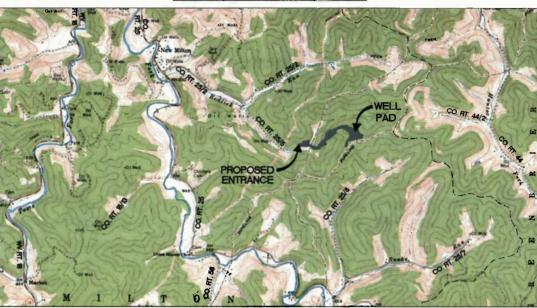
THERE ARE NO WETLANDS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. THERE ARE PERENNIAL STREAM IMPACTS THAT WILL NEED TO BE PERMITTED BY THE APPROPRIATE AGENCIES.

- 2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

RED LICK WELL PAD SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA MEATHOUSE FORK WATERSHED

USGS 7.5 NEW MILTON QUAD MAP





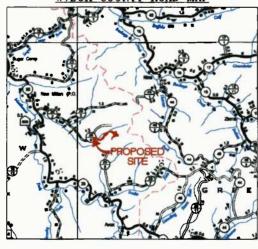
WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

WVDOH COUNTY ROAD MAP



DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAMS ATTACHED HERETO HAVE
BEEN PREPARED IN ACCORDANCE WITH THE
WEST VIRGINIA CODE OF STATE RULES, DIVISION

OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL

SHEET INDEX

1 - COVER SHEET

2 - CONSTRUCTION AND E&S CONTROL NOTES

3 - MATERIAL QUANTITIES

4 - STORM DRAINAGE COMPUTATIONS

5 - EXISTING CONDITIONS

6 - OVERALL PLAN SHEET INDEX & VOLUMES

7 - ACCESS ROAD PLAN

B - WELL PAD PLAN

9 - WELL PAD GRADING PLAN

11-12 - ACCESS ROAD SECTIONS

13 - WELL PAD SECTIONS

14 - STREAM CROSSING "A" DETAILS

15-19 - CONSTRUCTION DETAILS

20 - ACCESS ROAD RECLAMATION PLAN

21 - WELL PAD RECLAMATION PLAN

GE500-GE505 - GEOTECHNICAL DETAILS

RED LICK LIMITS OF DISTURBANCE A	REA (AC)
Total Site	
Access Road "A" (2,789')	11.30
Well Pad	3.58
Excess/Topsoil Material Stockpiles	4.60
Total Affected Area	19.48
Total Wooded Acres Disturbed	19.16
Impacts to Christine M. Bartlett, Tina L. Seitz,	Beth A. Durante,
Roxane L. Lombardi, Diane Mennig, Daniel Cuni	ningham, Cathy M .
Zeigler, Vince Bruno, Tracy Brunton, & Mark J.	Bruno TM 9-17.1
Access Road "A" (502')	1.55
Excess/Topsoil Material Stockpiles	0.96
Total Affected Area	2.51
Total Wooded Acres Disturbed	2.19
Impacts to Louis Bruno, Jr. TM 9	-17
Access Road "A" (900")	4.73
Excess/Topsoil Material Stockpiles	1.20
Total Affected Area	5.93
Total Wooded Acres Disturbed	5.93
Impacts to Michael D. & Charlotte D. Hiz	a TM 9-18
Access Road "A" (1,387')	5.02
Well Pad	3.58
Excess/Topsoil Material Stockpiles	2.44
Total Affected Area	11.04
Total Wooded Acres Disturbed	11.04

Proposed Well Name	WW North NAD 27	WW North NAD 83	UTM (METERS) Zone 17	NAD 83 Lat & Long
Clevenger	N 265425.12	N 265461.36	N 4341589.13	LAT 39-13-23.0683
Unit 2H	E 1673190.37	E 1641749.52	E 529918.73	LONG -80-39-12.2207
Clevenger	N 265434.28	N 265470.52	N 4341591.90	LAT 39-13-23.1593
Unit 1H	E 1673186.35	E 1641745.50	E 529917.46	LONG -80-39-12.2733
Jesse	N 265443.43	N 265479.67	N 4341594.67	LAT 39-13-23.2493
Unit 2H	E 1673182.33	E 1641741.48	E 529916.19	LONG -80-39-12.3259
Jesse	N 265452.59	N 265488.83	N 4341597.44	LAT 39-13-23.3393
Unit 1H	E 1673178.31	E 1641737.46	E 529914.92	LONG -80-39-12.3784
Runner	N 265461.75	N 265497.99	N 4341800.21	LAT 39-13-23.4292
Unit 1H	E 1673174.29	E 1641733.44	E 529913.65	LONG -80-39-12.4310
Runner	N 265470.90	N 265507.14	N 4341602.98	LAT 39-13-23.5192
Unit 2H	E 1673170.27	E 1641729.42	E 529912.38	LONG -80-39-12.4836
Well Pad Elevation	1.364.0			



Antero

THIS DOCUMENT
WAS PREPARED FOR:
ANTERO RESOURCES
CORPORATION

RED LICK
WELL PAD
EW MITON DISTRIC



DATE: 07/28/2014 SCALE: AS SHOWN

SHEET 1 OF 22

