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 2/17/14

SECTION 2: PROPOSE DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME:	Mard	MCNEILL	1	
ADDRESS: 1625 17th Stree	t, Denver, CO 8	80202	J	
TELEPHONE NUMBER:_	Contact Shauna	a DeMattee: 303-35	7-6820	

BUILDER'S NAME: Antero Resources Corporation
ADDRESS: 1625 17th Street, Denver, CO 80202
TELEPHONE NUMBER: (303) 357-7310
ENGINEER'S NAME: Navitus Engineering Inc.
ADDRESS: 151 Windy Hill Lane, Winchester, Viriginia 22602
TELEHONE NUMBER: 888-662-4185
PROJECT LOCATION:
NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Lewis P. Bee
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Address 1: RR 1 Box 240B, West Union, WV 26456; Address 2: 1212 Sunnyside Rd. West Union, WV 26456 DISTRICT: West Union
DATE/FROM WHOM PROPERTY PURCHASED: N/A
LAND BOOK DESCRIPTION:
DEED BOOK REFERENCE:_Deed Book 37, Pg 150
TAX MAP REFERENCE:_Tax Map 19, Parcel 6
EXISTING BUILDINGS/USES OF PROPERTY:
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY
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 П New Structure Residential (1 – 4 Family) Π Addition Residential (more than 4 Family) Π Alteration []Non-residential (floodproofing) Relocation n Combined Use (res. & com.) Demolition Π Replacement Π Manufactured/Mobil Home B. OTHER DEVEOPLMENT ACTIVITIES: Fill П Mining Χ̈́ Drilling **Pipelining** Grading Π Excavation (except for STRUCTURAL DEVELOPMENT checked above) Watercourse Altercation (including dredging and channel modification) Π Π Drainage Improvements (including culvert work) Road, Street, or Bridge Construction Subdivision (including new expansion) []Individual Water or Sewer System П 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:** N/A-No properties sharing an NAME:_____ ADDRESS: immediate and common boundary up or down stream due to the ADDRESS: —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: N/A NAME:___ ADDRESS:_____ ADDRESS: NAME:____ NAME:____ ADDRESS: _____ ADDRESS: **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.

SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.

E.

(B) (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):	ward Mcnelly	
SIGNATURE:	W. Sulely	DATE: 2/17/14

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 Date	ለ Panel:ed:		
[]	Is <u>NOT</u> located in a Specific Flood Hazard Area (Notify a ew is complete and NO FLOOPLAIN DEVELOPMENT PERM	licant that the application S 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 Ralph Sunder

DATE 3 70-14

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.

0 .	A plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.
0	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 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.
()	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).

	wii Petenwinatiun (10 de completed by Floodolain
<u>Administra</u>	MIT DETERMINATION (To be completed by Floodplain ator/Manager or his/her representative)
provisions of County on N	mined that the proposed activity (type is or is not) in conformance of the Floodplain Ordinance adopted by the County Commission of D (lay 21, 2013. The permit is issued subject to the conditions attache of this permit.
SIGNED	DATE
with the pro	plain Administrator/Manager found that the above was not in conforvisions of the Doddridge County Floodplain Ordinance and/or denie the applicant may complete an appealing process below.
	Appealed to the County Commission of Doddridge County? [] Yes
APPEALS:	Hearing Date:

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

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 isFT. NGVD (MSL)
2	Actual (As Built) elevation of floodproofing isFT. NGVD (MSL)
Note:	Any work performed prior to submittal of the above information is at risk of the cant.
SECT	ION 7: COMPLIANCE ACTION (To be completed by the Floodplain
<u>Admi</u>	inistrator/Manager or his/her representative).
as app	oodplain Administrator/Manager or his/her representative will complete this section plicable based on inspection of the project to ensure compliance with the Doddridge y Floodplain Ordinance.
IN:	SPECTIONS:
	DATE:BY:: DEFICIENCIES ? Y/N
со	MMENTS
	
SECTION Admir	ON 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain
Autill	nistrator/Manager or his/her representative).
Certific	cate of Compliance issued: DATE:

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

PERM PERM	MIT NUMBER:
PURPOSE –	
CONSTRUCTION LOCATION:	
OWNER'S ADDRESS:	
	•
THE FOLLOWING MUST BE COI	
ADMINISTRATOR/MANAGER (DR HIS/HER AGENT.
COMPLIANCE IS HEREBY	CERTIFIED WITH THE REQUIREMENT OF THE
FLOODPLAIN ORDINANCE ADO	OPTED BY THE COUNTY COMMISSION OF
DODDRIDGE COUNTY ON MAY	['] 21, 2013.
SIGNED	DATE

WV Flood Map



Map Created on 1/20/2014



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: Selected site is NOT WITHIN any identified flood hazard area. Unmapped flood hazard areas may be resent.

Elevation: About 1004 feet

Location (long, lat): 80.823056 W, 39.255044 N Location (UTM 17N): (515267, 4345095) FEMA Issued Flood Map: 54017C0115C

Contacts: Doddridge County

CRS Information: No CRS information available

Parcel Number:

LOCATION COORDINATES
ACCESS ROAD ENTRANCE
LATITUDE: 39.254168 LONGITUDE: -80.821574 (NAD 83) N 4344997.69 E 515394.82 (UTM ZONE 17 METERS)

LATITUDE: 39.254955 LONGITUDE: -80.822860 (NAD 83) N 4345084.82 E 515283.67 (UTM ZONE 17 METERS)

CENTROID OF WELL PAD

LATITUDE: 39.255044 LONGITUDE: -80.823056 (NAD 83) N 4345094.66 E 515266.71 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION

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

FLOODPLAIN NOTE

THE PROPOSED SITE IS LOCATED IN FLOODPLAIN ZONE "X" PER FEMA MAP NUMBER #54017C0115C.

MISS UTILITY STATEMENT
ANTERO RESOURCES APPALACHIAN CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR
THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN: TICKET #1305610782.
IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

ANTERO RESOURCES APPALACHIAN 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 PERFORMED IN JUNE 2012 BY GAI CONSULTANTS 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 JULY 06, 2012 RESOURCE LOCATION MAP WAS PREPARED BY GAI CONSULTANTS 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 WYDEP

NO IDENTIFIED WETLANDS OR STREAMS ARE BEING IMPACTED.

PROJECT CONTACTS

OPERATOR: ANTERO RESOURCES APPALACHIAN CORPORATION 981 EAST WASHINGTON AVENUE ELLENBORO, WV 26346 PHONE: (304) 869-3405

ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE: (304) 622-3842, EXT. 311 CELL: (304) 476-9770

JOHN KAWCAK - OPERATIONS SUPERINTENDENT

CELL: (817) 368-1553

AARON KUNZLER - CONSTRUCTION SUPERVISOR

CELL: (405) 227-8344

ANTHONY SMITH - FIELD ENGINEER OFFICE: (304) 869-3405 CELL: (304) 673-6196

DAVID PATSY - LAND AGENT CELL: (304) 476-6090

ENGINEER/SURVEYOR:

NAVITUS ENGINEERING, INC. CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER OFFICE: (888) 662-4185 CELL: (540) 686-6747

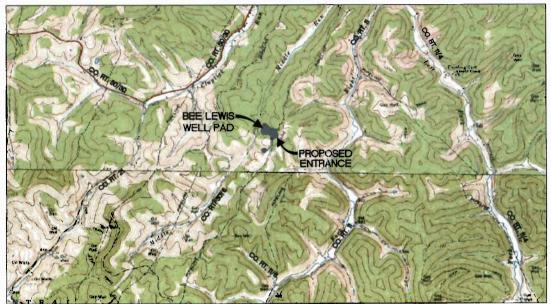
ENVIRONMENTAL:
GAI CONSULTANTS, INC.
JASON A. COOK — SENIOR ENVIRONMENTAL SPECIALIST
OFFICE: (304) 928-8100 CELL: (303) 709-3306

- THERE ARE NO PERENNIAL STREAMS, WETLANDS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PAD AND LOD.
- 2. THERE IS NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAD AND LOD.
- THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE PAD.
- 6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF

BEE LEWIS WELL PAD SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

WEST UNION DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA MIDDLE RUN WATERSHED OF ARNOLD'S CREEK

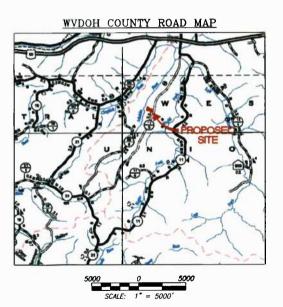
USGS 7.5 WEST UNION & OXFORD QUAD MAPS





WEST VIRGINIA COUNTY MAP





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!!

SHEET INDEX

- 1 COVER SHEET
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- 3 MATERIAL QUANTITIES
- 4 EXISTING CONDITIONS
- 5 OVERALL PLAN & VOLUMES
- 6 ACCESS ROAD & WELL PAD PLAN
- 7 ACCESS ROAD PROFILES & ACCESS ROAD SECTIONS
- 8 WELL PAD SECTIONS
- 9-12 CONSTRUCTION DETAILS
- 13 RECLAMATION PLAN

Limits Of Disturbance Area (oc	
Total Site	-
Road A (182')	0.37
Road B (221')	0.43
Drilling Pad	4.92
Staging Area	0.68
Excess/Topsoil Material Stockpiles	1.86
Total Affected Area	8.26
Total Wooded Acres Disturbed	7.39
Impacts to Key Oil Company (TM 1	9-13)
Excess/Topsoil Material Stockpiles	0.04
Total Affected Area	0.04
Total Wooded Acres Disturbed	0.02
Impacts to Key Oil Company (TM 1	9-7)
Staging Area	0.06
Excess/Topsoil Material Stockpiles	1.05
Total Affected Area	1.11
Total Wooded Acres Disturbed	0.30
Impacts to Lewis P. Bee (TM 19-	6)
Road A (182')	0.37
Road B (221')	0.43
Drilling Pad	4.92
Staging Area	0.62
Excess/Topsoil Material Stockpiles	0.81
Total Affected Area	7.15
Total Wooded Acres Disturbed	7 07

Proposed Well Name	WV North NAD 27	WV North NAD 83	UTM (METERS) Zone 17	NAD 83 Lat & Long
Vonda	N 277703.43	N 277738 4015	N 4345086.26	LAT 39-15-17 8863
Unit 2H	E 1625342.16	E 1593900 9774	E 515279.34	LONG -80-49-22.4767
Livingston	N 277700.11	N 277735 0871	N 4345085 30	LAT 39-15-17.8549
Unit 1H	E 1625351.59	E 1593910 4121	E 515282.22	LONG -80-49-22.3562
Livingston	N 277696.80	N 277731.7726	N 4345084 34	LAT 39-15-17.8235
Unit 2H	E 1625381.03	E 1593919 8469	E 515285.12	LONG -80-49-22.2358
Squirrel	N 277693.48	N 277728.4581	N 4345083 38	LAT 39-15-17 7821
Unit 1H	E 1625370 46	E 1593929 2816	E 515288.01	LONG -80-49-22.1151



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	DIENTS						

REVISION	REVISED PER WY DEP COLON			
REVI	ER WV			
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П	REVISED			
DATE	05/23/2013			



BEE LEWIS
WELL PAD



DATE: 03/01/2013 SCALE: AS SHOWN SHEET 1 OF 13