

#14-167

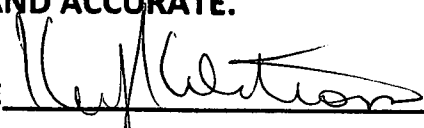
DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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.**

2014 MAR -7 PM 2:08
 RETI A. ROBERTS
 COUNTY CLERK
 DODDRIDGE COUNTY, WV
FILED

APPLICANT'S SIGNATURE _____



DATE _____

3/5/14

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: Kevin Kilstram

ADDRESS: 1625 17th Street, Denver, CO 80202

TELEPHONE NUMBER: Contact Shauna DeMattee: 303-357-6820

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, Virginia 22602
TELEPHONE 888-662-4185

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see attachment

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)
Please see attachment

DISTRICT: Central and West Union

DATE/FROM WHOM PROPERTY

PURCHASED: N/A

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Please see attachment

TAX MAP REFERENCE: Please see attachment

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

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

B. OTHER DEVELOPMENT ACTIVITIES:

- Fill Mining X 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: ___ N/A-No properties sharing an immediate and common boundary
ADDRESS: ___ up or down stream due to the ___ location not being in floodplain

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
ADDRESS: _____

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.

- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): Kevin Histran

SIGNATURE: [Handwritten Signature] DATE: 3/5/14

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 Ralph [Signature]

DATE 3-10-14

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.

- 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** _____

Surface Owners:

George D. Lambert
12 Townridge Ac
Mullens, WV 25882
DB/PG: 288/49
TM/Parcel: 4/33

Jonathan L. Davis & Jeffery Wm. Davis
Rt. 1 Box 271
West Union, WV 26456
DB/PG: 243/262
TM/Parcel: 4/35 & 36

Jonathan L. Davis & L. Diane Davis and
Benjamin Arnold Davis
3175 Sam Cavins Road
West Union, WV 26456
DB/PG: 243/262
TM/Parcel: 4/35 & 36

Jeffery W. Davis & Sue Ann Davis and
Benjamin Arnold Davis
858 Old River Road
Madison, WV 25130
DB/PG: 243/262
TM/Parcel: 4/35 & 36

Martha A. McConnell
HC 69 Box 16
West Union, WV 26456
DB/PG: 264/631
TM/Parcel: 4/39



View

Layers

Search

Tools

Public

Expert

Risk MAP

Flood

Reference

Basemap

Input your address



Rock Run Pad

Center of Pad:
80.814648 W,
39.304923 N

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

Additional Hazard Info: [Click here](#)

Elevation (Ground): About 1181 feet

Location (long, lat): ([80.814659 W, 39.304931 N](#))

Location (UTM 17N): (515980, 4350632)

FEMA Issued Flood Map: 54017C0115C

Contacts: [Doddridge County](#)

CRS Information: No CRS information available

Parcel Information: No parcel data [Disclaimer](#)

Zoom To

200 m

100 ft

Scale - 1:4,814
x: -80.816595, y: 39.305385

©ESRI, Street Map



LOCATION COORDINATES

ACCESS ROAD ENTRANCE
 LATITUDE: 39.296222 LONGITUDE: -80.799541 (NAD 83)
 N 4349668.65 E 517285.49 (UTM ZONE 17 METERS)

CENTROID OF STAGING AREA "B"
 LATITUDE: 39.299423 LONGITUDE: -80.800056 (NAD 83)
 N 4350023.78 E 517240.30 (UTM ZONE 17 METERS)

CENTER OF WATER CONTAINMENT TANK
 LATITUDE: 39.303990 LONGITUDE: -80.810564 (NAD 83)
 N 4350528.67 E 516333.18 (UTM ZONE 17 METERS)

CENTROID OF WELL PAD
 LATITUDE: 39.304923 LONGITUDE: -80.814848 (NAD 83)
 N 4350631.48 E 515980.84 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION

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

FLOODPLAIN NOTE

THE PROPOSED SITE IS LOCATED IN FLOODZONE "X" PER FEMA FLOOD MAPS #54017C0115C & #54017C0120C

MISS UTILITY STATEMENT

ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN; TICKET #1329179341. 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 PERFORMED BETWEEN OCTOBER, 2013 & FEBRUARY, 2014 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 FEBRUARY 06, 2013 ROCK RUN & COFOR JURISDICTIONAL STREAMS & WETLANDS MAPS WERE PREPARED BY ALLSTAR ECOLOGY, LLC AND SUMMARIZE THE RESULTS OF THE FIELD DELINEATION. THE MAPS DO 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 CROSSINGS.

GEOTECHNICAL NOTE

A GEOTECHNICAL INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON JANUARY 15 THROUGH FEBRUARY 5, 2014. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED FEBRUARY 17, 2014, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WAS USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE GEOTECHNICAL INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS

OPERATOR:
 ANTERO RESOURCES CORPORATION
 535 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE: (304) 842-4100
 FAX: (304) 842-4112

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

JOHN KAWCAK - OPERATIONS SUPERINTENDENT
 CELL: (617) 368-1553

AARON KUNZLER - CONSTRUCTION SUPERVISOR
 CELL: (405) 227-8344

ANTHONY SMITH - FIELD ENGINEER
 OFFICE: (304) 842-4208 CELL: (304) 673-6198

MARK JOHNSON - SURVEYING COORDINATOR
 OFFICE: (304) 842-4182 CELL: (304) 719-6449

DAVE CAVA - LAND AGENT
 CELL: (304) 841-5814

ENGINEER/SURVEYOR:
 NAVITUS ENGINEERING, INC.
 CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER
 OFFICE: (888) 862-4185 CELL: (540) 686-6747

ENVIRONMENTAL:

ALLSTAR ECOLOGY, LLC
 RYAN L. WARD - ENVIRONMENTAL SCIENTIST
 OFFICE: (888) 213-2668 CELL: (304) 692-7477

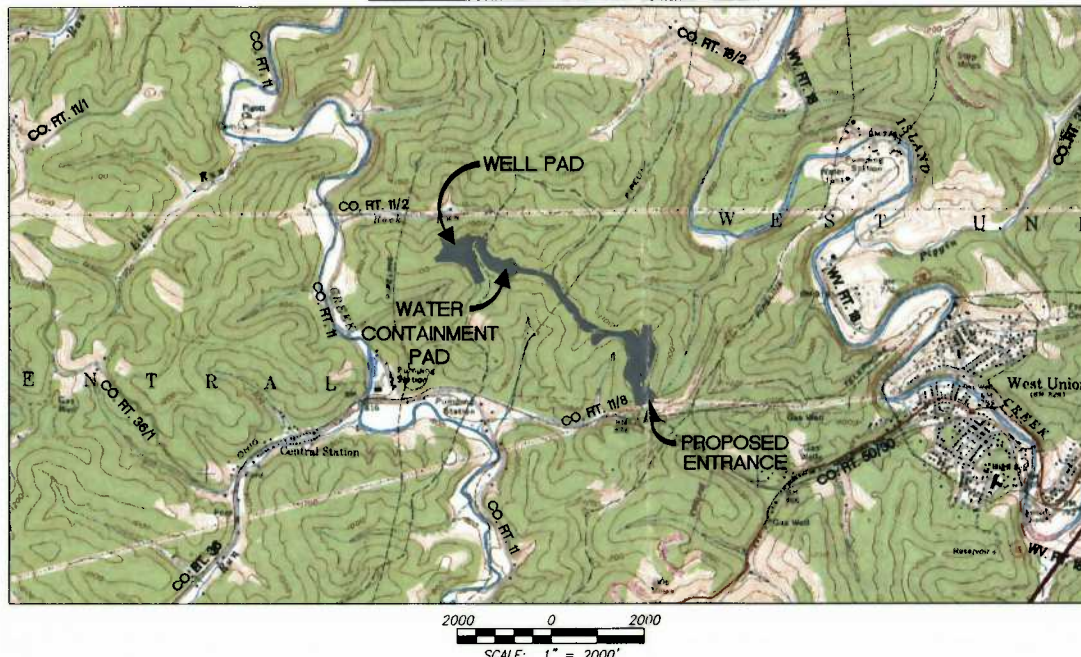
RESTRICTIONS NOTES:

- THERE ARE NO PERENNIAL STREAMS, WETLANDS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT 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 WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

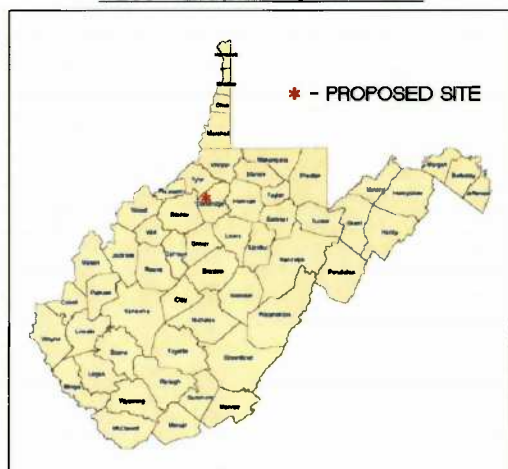
ROCK RUN WELL PAD & WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN, EROSION & SEDIMENT CONTROL PLANS

CENTRAL & WEST UNION DISTRICTS, DODDRIDGE COUNTY, WEST VIRGINIA
 NUTTER FORK - MIDDLE ISLAND CREEK & ARNOLD CREEK WATERSHEDS

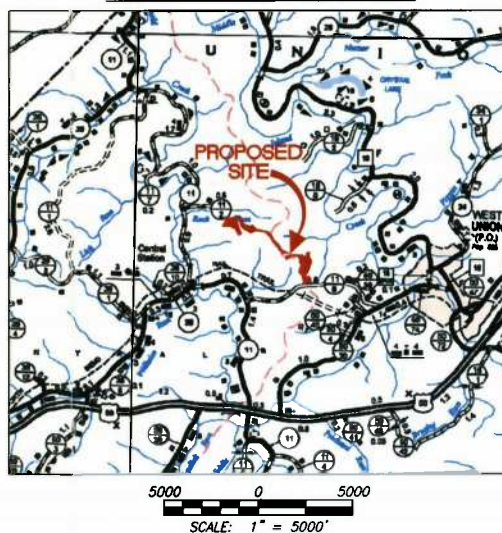
USGS 7.5 WEST UNION QUAD MAP



WEST VIRGINIA COUNTY MAP



WVDOH COUNTY ROAD 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!!

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 AND GAS CRS 35-8.

SHEET INDEX

- COVER SHEET
- CONSTRUCTION AND E&S CONTROL NOTES
- MATERIAL QUANTITIES
- EXISTING CONDITIONS
- OVERALL PLAN SHEET INDEX & VOLUMES
- ACCESS ROAD & STAGING AREA "A" PLAN
- ACCESS ROAD & STAGING AREA "B" PLAN
- ACCESS ROAD PLAN
- ACCESS ROAD & WATER CONTAINMENT PAD PLAN
- ACCESS ROAD & WELL PAD PLAN
- ACCESS ROAD PROFILES
- ACCESS ROAD SECTIONS
- WELL PAD SECTIONS
- STAGING AREA "B" SECTIONS
- STAGING AREA "B" & WATER CONTAINMENT PAD SECTIONS
- STREAM CROSSING DETAILS
- CONSTRUCTION DETAILS
- ACCESS ROAD & STAGING AREA "A" RECLAMATION PLAN
- ACCESS ROAD & STAGING AREA "B" RECLAMATION PLAN
- ACCESS ROAD RECLAMATION PLAN
- ACCESS ROAD & WATER CONTAINMENT PAD RECLAMATION PLAN
- ACCESS ROAD & WELL PAD RECLAMATION PLAN
- FIRM EXHIBIT
- GE500-GE512 - GEOTECHNICAL DETAILS

WEST VIRGINIA STATE PLANE COORDINATE SYSTEM
 NORTH ZONE, MADS 83 AND NAD83
 ESTABLISHED BY SURVEY GRADE GPS & OPUS
 POST-PROCESSING

ROCK RUN EPHEMERAL STREAM IMPACT (LINEAR FEET)

Stream and Impact Cause	Fill (LF)	Culvert (LF)	Inlets/Outlets (LF)	Total Impact (LF)
Ephemeral Stream 04 (Access Road "A")	2	N/A	N/A	2
Ephemeral Stream 05 (Access Road "A")	0	52	14	66

ROCK RUN WOODS OF DISTURBANCE AREA (AC)

Category	Area (AC)
Total Site	18.40
Access Road "A" (4,792')	6.36
Access Road "B" (1,253')	1.36
Access Road "C" (523')	1.39
Staging Area "A"	6.81
Well Pad	3.70
Water Containment Pad	2.27
Excess/Topsoil Material Stockpiles	11.86
Total Affected Area	50.15
Total Wooded Acres Disturbed	43.52

Impacts to Douglas P. Farr, II TM 7-5

Access Road "A" (218')	1.39
Access Road "B" (0')	0.32
Water Containment Pad	1.03
Excess/Topsoil Material Stockpiles	0.09
Total Affected Area	2.83
Total Wooded Acres Disturbed	2.65

Impacts to Martha A. McConnell TM 4-39

Access Road "A" (758')	1.71
Access Road "B" (1,253')	5.79
Well Pad	0.53
Water Containment Pad	1.24
Excess/Topsoil Material Stockpiles	0.50
Total Affected Area	9.77
Total Wooded Acres Disturbed	8.62

Impacts to George D. Lambert TM 4-33

Access Road "B" (0')	0.25
Well Pad	4.06
Excess/Topsoil Material Stockpiles	3.34
Total Affected Area	7.65
Total Wooded Acres Disturbed	6.32

Impacts to Jonathan L. & Jeffery W. Davis TM 4-36

Well Pad	2.10
Total Affected Area	2.10
Total Wooded Acres Disturbed	2.10

Impacts to Jonathan L. & Jeffery W. Davis TM 4-35

Well Pad	0.12
Total Affected Area	0.12
Total Wooded Acres Disturbed	0.11

Proposed Well Pad	WV North NAD 83	WV North NAD 83	UTM (WESTERS) Zone 17	NAD 83 Lat & Long
Future Well	N 295873.44	N 295908.52	N 4350635.20	LAT 39-18-17.8429
	E 1627981.56	E 1596540.38	E 515991.08	LONG -80-48-52.3053
Future Well	N 295873.29	N 295908.37	N 4350635.10	LAT 39-18-17.8400
	E 1627971.56	E 1596530.38	E 515988.03	LONG -80-48-52.4325
Devonian Unit 3H	N 295873.14	N 295908.22	N 4350635.01	LAT 39-18-17.8370
	E 1627981.57	E 1596520.38	E 515984.98	LONG -80-48-52.5596
Devonian Unit 2H	N 295872.99	N 295908.07	N 4350634.91	LAT 39-18-17.8341
	E 1627951.57	E 1596510.38	E 515981.94	LONG -80-48-52.6868
Devonian Unit 1H	N 295872.83	N 295907.92	N 4350634.81	LAT 39-18-17.8311
	E 1627941.57	E 1596500.38	E 515978.89	LONG -80-48-52.8140
Wentz Unit 2H	N 295872.68	N 295907.76	N 4350634.72	LAT 39-18-17.8282
	E 1627931.57	E 1596490.39	E 515975.85	LONG -80-48-52.9411
Wentz Unit 1H	N 295872.53	N 295907.61	N 4350634.62	LAT 39-18-17.8252
	E 1627921.57	E 1596480.39	E 515972.80	LONG -80-48-53.0683
Twyford Unit 2H	N 295872.38	N 295907.46	N 4350634.52	LAT 39-18-17.8223
	E 1627911.57	E 1596470.39	E 515969.76	LONG -80-48-53.1954
Well Pad Elevation				1,171.0

NAVITUS
 ENERGY ENGINEERING

REVISION	DATE

Antero
 THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

COVER SHEET
ROCK RUN
 WELL PAD & WATER CONTAINMENT PAD
 CENTRAL & WEST UNION DISTRICTS
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 02/21/2014
 SCALE: AS SHOWN
 SHEET 1 OF 34