

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: #14-222 YVONNE PAD

Date Approved: 06/03/2014 Expires: 06/03/2015

Issued to: ANTERO RESOURCES POC: SHAYE MARSHALL 303-357-6412

Company Address: 1615 Wynkoop St.

Denver, Co 80202
Project Address: Camp Mistake/West Union Dist.

Firm: 54017C0110C Lat/Long: 80.769480W, 39.348563N

Purpose of development: Access Road and Well Pad

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

Date:06/03/2014

Yvonne Pad

2014 MAY 23 PM 1:54

DODDRIDGE COUNTY

COUNTY CLERK BORGERIDGE COUNTY, WY

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	1(an)	elition	
DATE	5/2	/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.

APPLICAN	r's name:	Kevin Kilstram
ADDRESS:	1615 Wynkoop S	Street, Denver, CO 80202
TELEPHON	E NUMBER:	Contact Shaye Marshall: 303-357-6412

BUILDER'S NAME: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Street, Denver, CO 80202
TELEPHONE NUMBER: (303) 357-7310
ENGINEER'S NAME: Kleinfelder
ADDRESS: 230 Executive Dr., Suite 122, Cranberry Township, PA 16066
TELEHONE NUMBER: 724-772-7072
PROJECT LOCATION:
NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Yvonne R. Foster
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) 2395 Tallmansville Road, Buckhannon, WV 26201
DISTRICT: West Union
DATE/FROM WHOM PROPERTY PURCHASED: N/A
LAND BOOK DESCRIPTION:
DEED BOOK REFERENCE:_40 Pg 419
TAX MAP REFERENCE: Tax Map 4, Parcel 5
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

Х	New Struct	ture			()	Residentia	(1 – 4 Family)	
[]	Addition				[]		(more than 4 F	amily)
0	Alteration				[]		ential (floodproc	• •
	Relocation				0		Use (res. & com	Ψ,
[]	Demolition	1			[]	Replaceme		•
[]	Manufacti	ured/Mo	bil Home					
В.	OTHER DE	VEOPLI	MENT ACTIV	/ITIES:				
[]	Fill		Mining	Χ̈́	Drilling	8 ()	Pipelining	
[]	Grading							
[]	Excavation	(except	for STRUCTUR	RAL DEVE	LOPMEN	T checked a	bove)	
[]	Watercour	se Alterc	ation (includi	ng dredg	ing and ch	nannel mod	ification)	
[]			ents (includir				·	
	Road, Stree	et, or Brid	dge Construct	ion				•
[]	Subdivision	ı (includi	ng new expar	nsion)	•			•
[]	Individual \	Water or	Sewer Syster	n				
[]	Other (plea	se speci	fy)					
		·						

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). 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. (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.

E.

(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.

NAM	IE (PRINT): KEVIN KILSTram
SIGN	ATURE: Cerplitus DATE: 5/21/14
After Admi	completing SECTION 2, APPLICANT should submit form to Floodplain inistrator/Manager or his/her representative for review.
<u>SEC1</u>	TION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain
Adm	ninistrator/Manager or his/her representative)
THE	PROPOSED DEVELOPMENT:
THE F	PROPOSED DEVELOPMENT IS LOCATED ON:
FIRM	Panel:
Dated	
[] reviev	Is <u>NOT</u> located in a Specific Flood Hazard Area (Notify applicant that the application w is complete and NO FLOOPLAIN 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	
SECT	CTION 4: ADDITIONAL INFORMATION REQUIRED (To be complete	ed by
Floo	oodplain Administrator/Manager or his/her representative)	
	e applicant must submit the documents checked below before the application ocessed.	can be
O.	A plan showing the location of all existing structures, water bodies, adjac dimensions and proposed development.	ent roads, lot
D	Development plans, drawn to scale, and specifications, including where a details for anchoring structures, storage tanks, proposed elevation of low (including basement or crawl space), types of water resistant materials u first floor, details of flood proffing of utilities located below the first floor enclosures below the first floor. Also	est floor, sed below the and details of
	Subdivision or other development plans (If the subdivision or developme lots or 5 acres, whichever is the lesser, the applicant must provide 100-ye elevations if they are not otherwise available).	
[]	Plans showing the extent of watercourse relocation and/or landform alte	rations.
[]	Top of new fill elevationFt. NGVD (MS For floodproofing structures applicant must attach certification from regions engineer or architect.	
[]	Certification from a registered engineer that the proposed activity in a re	

[]

[]

[]

[]

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

data and calculations supporting this finding must also be submitted.

Federal Emergency Management Agency (FEMA).

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

ON 5: PERI	MIT DETERMINATION (To be	completed by Flee duly	•
Administra	ator/Manager or his/her repr	<u>completed by Floodpla</u> <u>resentati</u> ve)	<u>un</u>
l taman at a			
nave deteri	mined that the proposed activity (t	type is or is not) in conform	nance wit
County on M	f the Floodplain Ordinance adopted lay 21, 2013. The permit is issued	a by the County Commissions a	on of Dodi ttached to
made part o	f this permit.	and the demanding t	ctachea ti
SIGNED		DATE	
			•
with the pro	lain Administrator/Manager found visions of the Doddridge County Florest and the County Flo	oodplain Ordinance and/or	conformation denied t
application,	the applicant may complete an app	pealing process below.	
APPEALS:	Appealed to the County Commis	sion of Doddridge County?	¹∏Yes {}
	Hearing Date:		
	County Commission Decision	Approved [] Yes [] No	
	country commission pecision -	12 12	

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

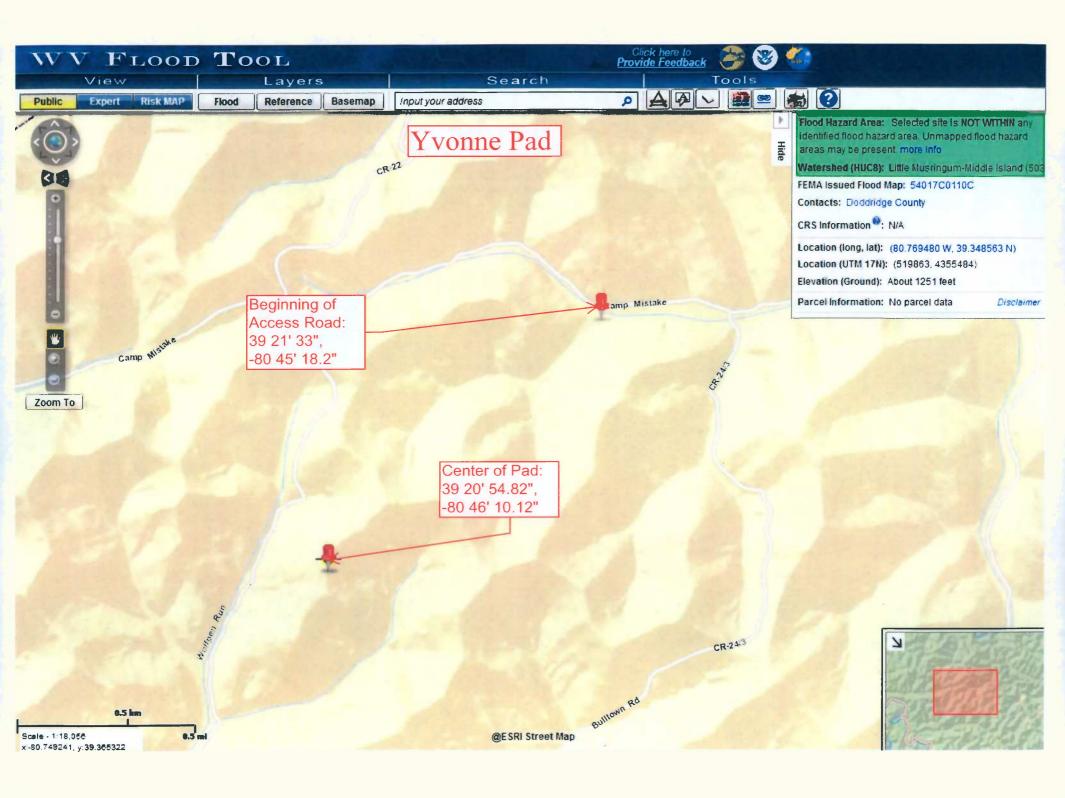
The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

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 applicant.
SECTION 7: COMPLIANCE ACTION /To be completed by the first to
SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).
The state of the s
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).
The state of the s
Certificate of Compliance Issued: DATE:BY:

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

PERMI	IT NUMBER:	
PERMI	T DATE:	
PURPOSE –		
CONSTRUCTION LOCATION:		
OWNER'S ADDRESS:		
,	•	
		, <i>\$</i>
THE FOLLOWING MUST BE COMI ADMINISTRATOR/MANAGER OR		•
COMPLIANCE IS HEREBY C	ERTIFIED WITH THE REQUIREM	FNT OF THE
FLOODPLAIN ORDINANCE ADOP	TED BY THE COUNTY COMMISS	ION OF
DODDRIDGE COUNTY ON MAY 2		-
SIGNED		
26% 21W 6 7 #	The A "The "	



YVONNE WELL AND WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

ANTERO RESOURCES CORPORATION

PROJECT CONTACTS

PROJECT OWNER

ANTERO RESOURCES 1615 WYNKOOP STREET **DENVER. CO 80202**

CONTACT: ANTHONY SMITH FIELD ENGINEER 304.869.3405 OFFICE 304 673 6196 CELL

ENGINEER

CONTACT: ELI WAGONER ENVIRONMENTAL 304.622.3842, EXT 311

LOCATION SURVEYOR

TRIPLE H ENTERPRISES CONTACT: DARELL BOICE, PS 204 NEELEY AVE WEST UNION, WV 26456 304.873.3360

ENVIRONMENTAL/ **DELINEATION BOUNDARY**

GAI CONSULTANTS, INC. CONTACT: JASON COOK 300 SUMMER ST, SUITE 1100 CHARLESTON, WV 25301 304,920,8100 OFFICE 303,709,3306 CELL

CONTACT: JOHN KAWCAK **ENGINEER**

CONTACT: AARON KUNZLER CONSTRUCTION 405 227 8344

ENGINEER OF RECORD

KLEINFELDER EAST, INC. CONTACT: JEFFERY B. CRISP, PE WW PE #20354 3500 GATEWAY CENTRE BLVD, SUITE 200 MORRISVILLE, NC 27560 919.755.5011 OFFICE 919.755.1414 FAX

TOPO SURVEYOR

BLUE MOUNTAIN AERIAL MAPPING BLUE MOUNT AIN AERIAL MAPPIN CONTACT: CRAIG FRY 11023 MASON DIXON HIGHWAY BURTON, WY 26562 304,662,2626 OFFICE 304,815,4890 CELL

	STAGING AREA
	ACCESS ROAD
WELL & WATER	Samuel
CONT. PAD	TOPSOIL SPOIL AREA 1
TOPSOIL SPOIL AREA 2	ACCESS ROAD TO EXISTING WELL MATERIAL SPOIL AREA 1

NORTH MERIDIAN REFERENCED TO NAD83 SEE SHEET 2 WEST VIRGINIA STATE

AFFECTED TAX PARCELS: WEST UNION 7.5 QUAD

DESCRIPTION	NAD 83 (WV N	NORTH ZONE)	UTM ZONE 17 (METERS)	
DESCRIPTION	LATITUDE	LONGITUDE	NORTHING	EASTING
CENTROID OF WELL AND WATER CONT. PAD	39° 20' 54.82"	-80° 46' 10.12"	4355483.28	519863,03
PRIMARY ACCESS ROAD ENTRANCE	39° 21' 33.00"	-80° 45' 18,20"	4356663.53	521102.53

FLOODPLAIN (CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE	PLACE IN FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:		NO
HEC-RAS STUDY COMPLETED:		N/A
FLOODPLAIN SHOWN ON DRAWINGS:		N/A
FIRM MAP NUMBER(S) FOR SITE:	54017C0110C	
ACREAGES OF CONSTRUCTION IN FLOOD	PLAIN:	N/A

ACCESS RO LENGTH (FE	
DESCRIPTION	FEET
ACCESS ROAD	5,830
ACCESS ROAD TO EXISTING WELL	247
TOTAL	6,077



PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN CREATED ON ANSI D (22"x34") SHEETS, FOR REDUCTIONS, REFER TO GRAPHIC SCALE

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

WARNING: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY

WELL HEAD LAYOUT					
WELL NAME	NAD 83 (WV NORTH ZONE)				
WELL NAME	NORTHING	EASTING	LATITUDE	LONGITUDE	
WALKER UNIT 1H	311652.18	1609522.47	39° 20' 55.28"	-80° 46' 09.99'	
WALKER UNIT 2H	311661.13	1609526.93	39° 20' 55.37"	-80° 46' 09.94'	
WALKER UNIT 3H	311670.08	1609531.38	39° 20' 55.46"	-80° 46' 09.88'	
BURLINGTON UNIT 1H	311679.04	1609535.84	39° 20' 55.55"	-80° 46' 09.83'	
BURLINGTON UNIT 2H	311687.99	1609540.29	39° 20' 55.64"	-80° 46' 09.77'	
YOHO UNIT 1H	311696.94	1609544.75	39° 20' 55,73"	-80° 46' 09.72'	
MANZAREK UNIT 1H	311705.89	1609549.20	39° 20' 55.82"	-80° 46' 09.66'	
MANZAREK UNIT 2H	311714.85	1609553.66	39° 20' 55.91"	-80° 46' 09.61'	
MANZAREK UNIT 3H	311723.80	1609558.12	39° 20' 55.99"	-80° 46' 09.55'	
BROCADE UNIT 1H	311732.75	1609562.57	39° 20' 56.08"	-80° 46' 09.49'	
BROCADE UNIT 2H	311741.70	1609567.03	39° 20' 56,17"	-80° 46' 09.44'	

	WE	LL HEAD LAYOUT		
WELL NAME	NAD 27 (WV NORTH ZONE)		UTM ZONE 17 (METERS)	
VVELL NAME	NORTHING	EASTING	NORTHING	EASTING
WALKER UNIT 1H	311616.72	1640963.71	4355497.51	519866.07
WALKER UNIT 2H	311625.67	1640968.16	4355500.26	519867.38
WALKER UNIT 3H	311634.62	1640972.60	4355503.01	519868.69
BURLINGTON UNIT 1H	311643.57	1640977.05	4355505.76	519870.00
BURLINGTON UNIT 2H	311652.52	1640981,50	4355508.51	519871,31
YOHO UNIT 1H	311661.48	1640985.99	4355511.26	519872.63
MANZAREK UNIT 1H	311670.43	1640990.43	4355514.01	519873.94
MANZAREK UNIT 2H	311679.38	1640994.88	4355516.76	519875.25
MANZAREK UNIT 3H	311688.33	1640999.33	4355519.51	519876.56
BROCADE UNIT 1H	311697.29	1641003.78	4355522,26	519877.87
BROCADE UNIT 2H	311706.24	1641008.26	4355525.01	519879.19

SHEET INDEX			
PAGE NO.	DESCRIPTION		
1	COVER PAGE AND LOCATION MAP		
2	SCHEDULE OF QUANTITIES		
3	NOTES		
4 - 5	EXISTING CONDITIONS		
6	OVERALL PLAN		
7 - 11	SITE PLANS		
12	WELL & W.C. PAD CROSS SECTIONS & PROFILE		
13 - 17	ACCESS ROAD CROSS SECTIONS & PROFILE		
18	ACCESS ROAD TO EXISTING WELL CROSS SECTIONS & PROFILE		
19 - 24	DETAILS		
25 - 29	RECLAMATION PLAN		

ISSUED FOR CONSTRUCTION

WELL LOCATION RESTRICTIONS

- HUMAN OR DOMESTIC ANIMALS 625' FROM AN OCCUPIED DWELLING OR BARN GREATER THAN 2500 SF USED FOR POULTRY OR DAIRY MEASURED FROM THE CENTER OF THE
- STREAMS, NATURAL OR ARTIFICIAL LAKE, POND OR RESERVOIR
- 1000' OF SURFACE OR GROUND WATER INTAKE TO A PUBLIC WATER

WWW.	
DIST EX	800
20354 5714 1)
OT VIRO	S. C.
	STATE OF SOUNAL

SEAL

DESIGNED BY: RAP MODIFIED BY: -

YVONNE WELL & W.C. PAD

ATE: 03-21-2014

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0.5 1.0 1.5

4 4 4 4

CONSTRUCTION

1 of 29 sheets

Know what's below. Call before you dig. MISS UTILITY OF WEST VIRGIN 1-800-245-4848 WEST VIRGINIA STATE LAW REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU VIRGINIA. IT'S THE LAW!

DESIGN CERTIFICATION

THE DRAWNGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS §35-8.

MM-109 PERMIT

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

WELL PAD IS TO COMPLY WITH WELL LOCATION RESTRICTIONS OF WV CODE 22-6A-12. THE PADS COMPLY WITH THE FOLLOWING RESTRICTIONS: 250' FROM AN EXISTING WELL OR DEVELOPED SPRING USED FOR

- 100' FROM EDGE OF DISTURBANCE TO WETLANDS, PERENNIAL
- 300' FROM EDGE OF DISTURBANCE TO NATURALLY REPRODUCING