

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to ANTERO , 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: #14-212

Date Approved:05/22/2014 Expires:05/22/2015

DENVER CO. 80202

Issued to: ANTERO RESOURCES POC: SHAYE MARSHALL

303-357-6412 Company Address: 1615 WYNKOOP ST

Project Address: WOLFE PEN RUN

Firm:54017C0235C Lat/Long: 80.672175W,39.241838N

Purpose of development: WELL PAD/WATER CONTAINMENT PAD

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

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



Antero Resources

1625 17th Street Denver, Colorado 80202 Office 303.357.7310

Fax 303.357.7315

April 30, 2014

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

Mr. Wriston:

Per the Doddridge County Ordinance, Antero Resources Corporation (Antero) would like to submit Doddridge County floodplain determination for our Wolf Pen well pad location which is NOT located in the floodplain as shown on the enclosed design page (signed and stamped by a Professional Engineer) and plotted on the WV flood tool map.

If you have any questions please feel free to contact me at (303) 357-6412.

Sincerely,

Shaye Marshall

Permit Representative

Antero Resources Corporation

maisnall

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_	LK
DATE	4/30/14

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: Landy Kloberdanz	
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
TELEHONE NUMBER: 888-662-4185
PROJECT LOCATION:
NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see attached Exhibit A
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see attached Exhibit A
DISTRICT: New Milton District
DATE/FROM WHOM PROPERTY PURCHASED: N/A
LAND BOOK DESCRIPTION:
DEED BOOK REFERENCE: Please see attached Exhibit A
TAX MAP REFERENCE: Please see attached Exhibit A
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 Χ̈ **New Structure** Π Residential (1 – 4 Family) Π Addition П Residential (more than 4 Family) n Alteration Non-residential (floodproofing) n n Relocation Combined Use (res. & com.) Demolition П Replacement Manufactured/Mobil Home В. **OTHER DEVEOPLMENT ACTIVITIES:** Fill Π Mining Χ̈́. Drilling Π **Pipelining** Π Grading Π Excavation (except for STRUCTURAL DEVELOPMENT checked above) Watercourse Altercation (including dredging and channel modification) Π Drainage Improvements (including culvert work) χ̈́ 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). N/A-No properties sharing an NAME: 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:** PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE (A)

SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED. (B)

RATES PERMITTED BY LAW FOR SUCH SERVICE.

(C) PUBLICATION.

E.

Wolf Pen Pad Doddridge County Floodplain Permit - Exhibit A

Surface Owner Name	Address	Deed/Page	Tax Map/ Parcel
Alvin Ross & Samme M. Hart	Rt. 1 Box 7, New Milton, WV 26411	40/294	5/7
Samme M. Hart	927 Wolfe Pen Rd., New Milton, WV 26411	40/294	5/7

- (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 (PR	INT): <u>Pandy kloberdanz</u>	-	
SIGNATUR	RE:	_ DATE:	4130/14
After com	pleting SECTION 2, APPLICANT should submit form to Fator/Manager or his/her representative for review.	loodplain	
SECTION Administ	3: FLOODPLAIN DETERMINATION (to be compared to be c	oleted by	<u>Floodplain</u>
THE PRO	POSED DEVELOPMENT:		
THE PROP	OSED DEVELOPMENT IS LOCATED ON:		·
FIRM Pane	l:		
[] Is <u>N</u>	OT located in a Specific Flood Hazard Area (Notify apport) Omplete and NO FLOOPLAIN DEVELOPMENT PERMIT I	licant that S REQUIRE	the application
[] . Is lo	ocated in Special Flood Hazard Area. FIRM zone designation		. :
	100-Year flood elevation is:		NGVD (MSL)
[] Una	vailable		
	proposed development is located in a floodway. M 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)				
	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.			
[]	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			
0	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

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

[]

<u>Administr</u>	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 the Floodplain Ordinance adopted by the County Commission of Downson 21, 2013. The permit is issued subject to the conditions attached of this permit.
SIGNED	DATE
If the Floods	plain Administrator/Manager found that the above was not in conformovisions of the Doddridge County Floodplain Ordinance and/or denied
application,	the applicant may complete an appealing process below.
application, APPEALS:	the applicant may complete an appealing process below. Appealed to the County Commission of Doddridge County? [] Yes Hearing Date:

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

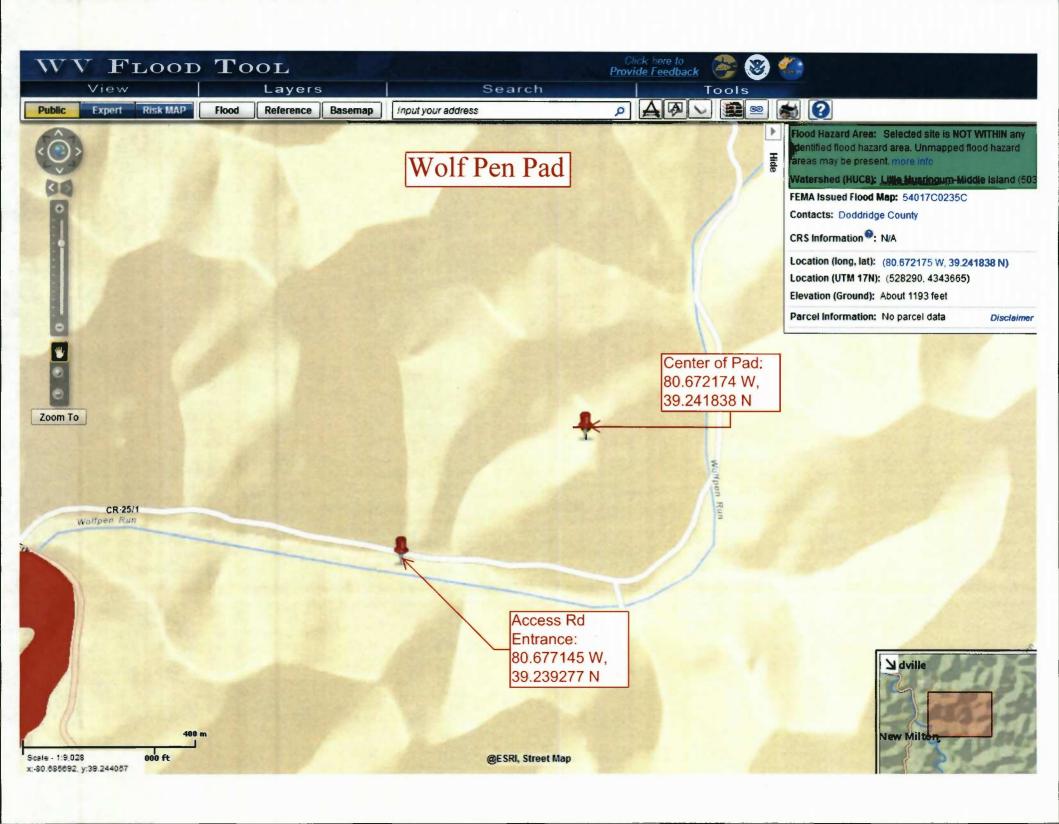
The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

1	Actual (As-Built) Elevation of the top of the lowest floor (including basement or
2	Actual (As Built) elevation of floodproofing isFT. NGVD (MSL)
Note appli	e: Any work performed prior to submittal of the above information is at risk of the icant.
SECT	FION 7: COMPLIANCE ACTION (To be completed by the Floodplain
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:	
as ap	plicable based on inspection of the project to ensure compliance with the Doddridge
II	Actual (As Built) elevation of floodproofing is
C	OMMENTS
<u>SECT</u>	ION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain
<u>Admi</u>	inistrator/Manager or his/her representative).
Certifi	cate of Compliance issued: DATE:

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

P P	PERMIT NUMBER:
PURPO	SE -
CONSTRUCTION LOCATION	N:
OWNER'S ADDRESS:	
	•
ı	
THE FOLLOWING MUST BE	
ADMINISTRATOR (NAVA SE	COMPLETED BY THE FLOODPLAIN
ADMINISTRATOR/MANAG	ER OR HIS/HER AGENT.
COMPLIANCE IS HED	
FI COMPLIANCE IS HER	EBY CERTIFIED WITH THE REQUIREMENT OF THE
DODDRIDGE COUNTY ON A	ADOPTED BY THE COUNTY COMMISSION OF
DODDRIDGE COUNTY ON N	лаү 21, 2013.
SIGNED	DATE



SITE DESIGN & CONSTRUCTION PLAN,

EROSION & SEDIMENT CONTROL PLANS

NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA MEATHOUSE FORK & WOLF PEN RUN WATERSHEDS





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

LATITUDE: 39.239277 LONGITUDE: -80.677145 (NAD 83)

LATITUDE: 39.241224 LONGITUDE: -80.672316 (NAD 83)

LATITUDE: 39.241838 LONGITUDE: -80.672174 (NAD 83)

LATITUDE: 39.240917 LONGITUDE: -80.872481 (NAD 83) N 434563.01 E 528284.11 (UTM ZONE 17 METERS)

CENTER OF TANK 1

CENTER OF TANK 2

CENTROID OF PADS

N 4343885 37

E 527862.17 (UTM ZONE 17 METERS)

E 528278.16 (UTM ZONE 17 METERS)

E 528200.14 (UTM ZONE 17 METERS)

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

MISS UTILITY STATEMENT
ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING
OF UTILITIES PRIOR TO THIS PROJECT DESIGN; TICKET #1310223219.
IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

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 MARCH & SEPTEMBER, 2013 & FEBRUARY, 2014 BY GAI CONSULTANTS INC. 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 (WYDEP). THE FEBRUARY 28, 2014 RESOURCE LOCATION MAP WAS PREPARED BY GAI CONSULTANTS INC. 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. 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

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

GEOTECHNICAL NOTE

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON MARCH 12-18, 2014. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC.

DATED APRIL 2, 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 SUBSURFACE 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: (817) 368-1553 AARON KUNZLER - CONSTRUCTION SUPERVISOR CELL: (405) 227-8344

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

CHARLES E COMPTON III - SURVEYING

CELL: (304) 719-6449 JACK BELL - LAND AGENT ENGINEER/SURVEYOR: MANAGER/ENGINEER

OFFICE: (888) 662-4185 CELL: (540) 686-6747 ENVIRONMENTAL:
ALLSTAR ECOLOGY, LLC
RYAN L. WARD - ENVIRONMENTAL SCIENTIST

OFFICE: (866) 213-2666 CELL: (304) 692-7477 GEOTECHNICAL:
PENNSYLVANIA SOIL AND ROCK, INC.
CHRISTOPHER W. SAMIOS-PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 589-0682

RESTRICTIONS NOTES:

1. THERE ARE NO PERENNIAL STREAMS, LAKES, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. THERE ARE WETLAND AND STREAM IMPACTS THAT WILL NEED TO BE PERMITTED BY THE

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 APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF

THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE

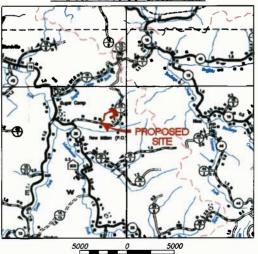
THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERBTO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL 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!!

SCALE:

SHEET INDEX

01 - COVER SHEET

02 - CONSTRUCTION AND E&S CONTROL NOTES

03 - MATERIAL QUANTITIES

05 - OVERALL PLAN SHEET INDEX & VOLUMES

OR - ACCESS ROAD PLAN

- WELL PAD & WATER CONTAINMENT PAD PLAN

OR - ACCESS ROAD PROFILES

10-11 - WELL PAD & WATER CONTAINMENT PAD SECTIONS

13-18 - CONSTRUCTION DETAILS

19 - ACCESS ROAD RECLAMATION PLAN

20 - WELL PAD & WATER CONTAINMENT PAD RECLAMATION PLAN

GE500-GE505 - GEOTECHNICAL DETAILS

WOLF PEN LIMITS OF DISTURBANCE A	REA (AC)
Total Site	ALC: NAME OF TAXABLE PARTY.
Access Road "A" (1,985')	6.35
Staging Area "A"	0.69
Staging Area "B"	0.47
Well Pad	4.02
Water Containment Pad	2.15
Production Equipment Pad	1.48
Excess/Topsoil Material Stockpiles	4.56
Total Affected Area	19.72
Total Wooded Acres Disturbed	16.02
Impacts to Joyce L. Nicholson, Joseph I. Schul	te, & Connie Jo
Weekley TM 8-8	
Access Road "A" (1,729')	5.55
Staging Area "A"	0.69
Staging Area "B"	0.02
Water Containment Pad	0.23
Excess/Topsoil Material Stockpiles	1.64
Total Affected Area	8.13
Total Wooded Acres Disturbed	6.57
Impacts to Alvin D. Ross, Et Al TM	5-7
Access Road "A" (256')	0.80
Well Pad	4.02
Water Containment Pad	1.92
Production Equipment Pad	1.48
Excess/Topsoil Material Stockpiles	2,92
Total Affected Area	11.14
Total Wooded Acres Disturbed	9.45
Impacts to Roger A. McClain, il & John H. Mc	Clain TM 8-10
Staging Area "B"	0.45
Total Affected Area	0.45
Total Wooded Acres Disturbed	0.00

WOLF PEN INTERMITTENT STREAM IMPACT (LINEAR FEET)					
Stream and Impact Cause	Culvert /Fill (LF)	Inlets/Outlets Structures (LF)	Total Impact		
Stream 1 (Road "A")	86	12	98		

WOLF PEN WE	TLAND IMP	ACT (SQUARE FEE	T)
Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	Total Impact (AC)
Wetland 1 (Water Cont. Pad)	1,130	1,130	0.03

Proposed	WV North	WV North	UIM (METERS)	NAD 83 Lat & Long
Well Name	NAD 27	NAD 83	Zone 17	
Blade	N 272359.09	N 272395.18	N 4343675.24	LAT 39-14-30.9352
Unit 2H	E 1668013.09	E 1636572.10	E 528306.22	LONG -80-40-19.1554
Blade	N 272349.26	N 272385.34	N 4343672.23	LAT 39-14-30.8377
Unit 1H	E 1668011.29	E 1636570.29	E 528305.72	LONG -80-40-19.1768
Sling	N 272339 42	N 272375.51	N 4343669.22	LAT 39-14-30 7403
Unit 2H	E 1668009.48	E 1636568.48	E 528305.22	LONG -80-40-19.1981
Sling	N 272329.59	N 272365.67	N 4343666.22	LAT 39-14-30.6429
Unit 1H	E 1668007.68	E 1636566.68	E 528304.72	LONG -80-40-19.2194
Swanson	N 272319.75	N 272355.84	N 4343663.21	LAT 39-14-30.5454
Unit 3H	E 1668005.87	E 1636564.87	E 528304.22	LONG -80-40-19.2407
Swanson	N 272309.91	N 272346.00	N 4343680.21	LAT 39-14-30.4480
Unit 2H	E 1668004.08	E 1636563.07	E 528303.72	LONG -80-40-19.2620
Swanson	N 272300.08	N 272336.16	N 4343657.20	LAT 39-14-30.3505
Unit 1H	E 1668002.26	E 1636561.26	E 528303.22	LONG -80-40-19.2833
Well Pad Elevation	1,188.0			





WOLF



DATE: 04/03/2014 SCALE: AS SHOWN SHEET 1 OF 21