

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: #14-311 ~ Antero Resources ~ Duckworth Well Pad

Date Approved: 10/23/2014

Expires: N/A

Issued to: Antero Resources

**POC: Rachel Grzybek
304-842-4008**

**Company Address: 535 White Oaks Blvd
Bridgeport, WV 26330**

**Project Address: West Union District
Lat/Long: 39.299920N/-80.871783W**

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

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

Date: 10/23/2014

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

14-311

FILED

2014 OCT 23 AM 9:19



October 17, 2014

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

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 Duckworth Well Pad. Our project is located in Doddridge County, West Union District and per FIRM map #54017C0115C this location is not within the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- Duckworth 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
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 October 17, 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 - Randy Kloberdanz,

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
ADDRESS: 151 Windy Hill Lane, Winchester, VA 22602
TELEPHONE NUMBER: (888)-662-4185

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: _____
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
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 checked="" 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 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
ADDRESS: immediate and common boundary
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-No properties sharing an
ADDRESS: immediate and common boundary
up or down stream due to the
location not being in floodplain

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): Randy Kloburdanz

SIGNATURE:  DATE: October 17, 2014

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 _____

DATE _____

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: _____

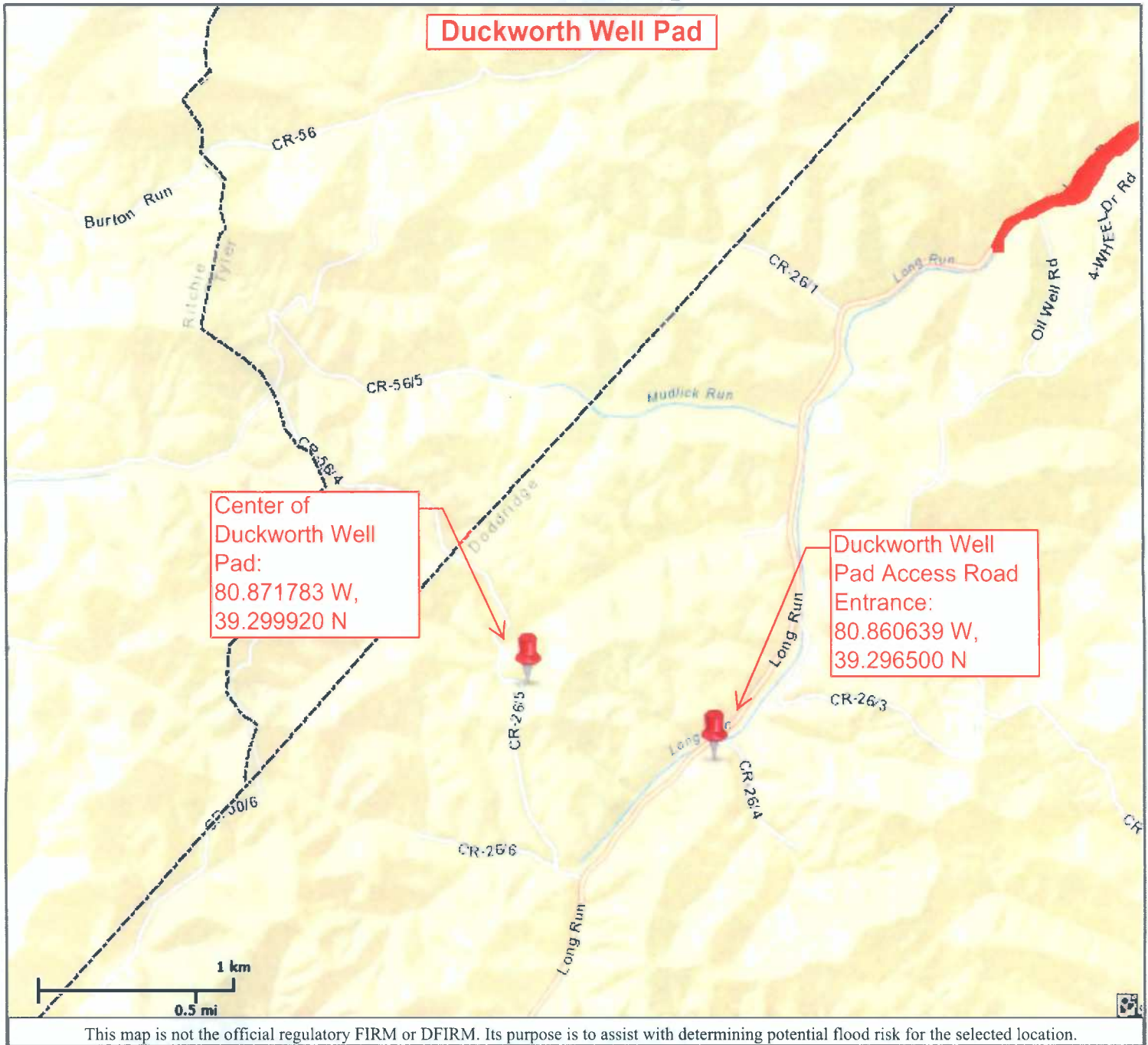
OWNER'S ADDRESS: _____

**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** _____

WV Flood Map



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map Created on 10/16/2014

 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:

Elevation: N/A

Location (long, lat):

Location (UTM 17N):

FEMA Issued Flood Map:

Contacts:

CRS Information:

Parcel Number:

STATE OF WEST VIRGINIA,
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
14-311
Duckworth Well Pad

was published in said paper for *2*

successive weeks beginning with the issue
of *November 11th* 2014 and

ending with the issue of
November 18 2014 and

that said notice contains *189*

WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.94*

FOR FIRST PUBLICATION, SECOND
PUBLICATION IS 75% OF THE FIRST
PUBLICATION

\$ *16.31*
and each publication thereafter

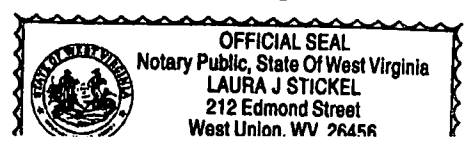
\$ *38.05* TOTAL

EDITOR
Virginia Nicholson

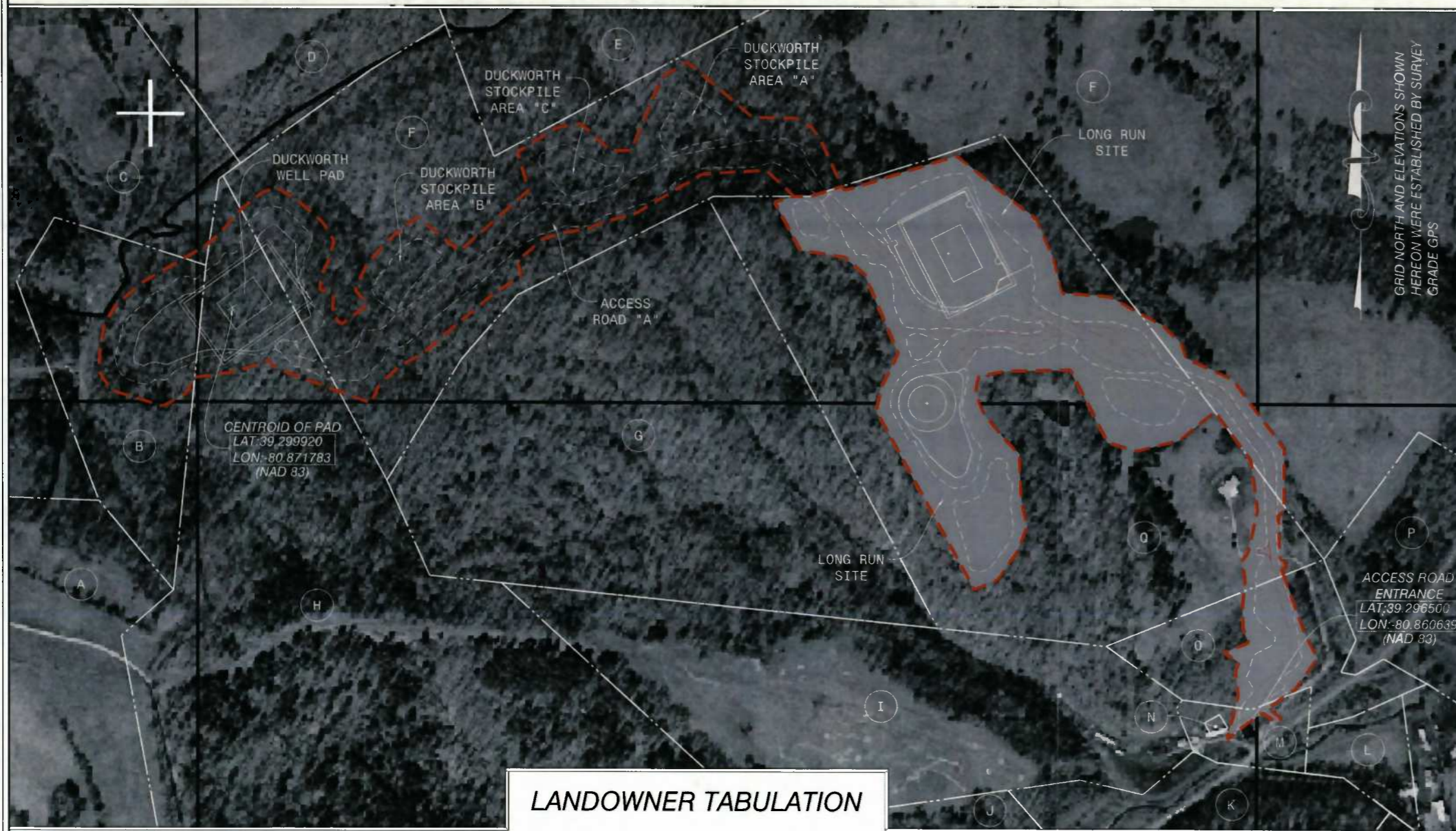
SWORN TO AND SUBSCRIBED
BEFORE ME THIS THE *18th* DAY
OF *November* 2014

NOTARY PUBLIC
Laura J. Stickel

LEGAL ADVERTISEMENT
Doddridge County
Floodplain Permit Application
Please take notice that on the 23rd day of October, 2014
Antero Resources filed an application for a Floodplain
Permit to develop land located at or about West Union
District 39-299920N/80-871083W, Permit #14-311
Duckworth 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
November 27, 2014.
Delivered to the
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
11-111-2xb



FIRM EXHIBIT



NFIP PANEL 0115C
FIRM
FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY, WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 115 OF 325
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
 COMMUNITY NUMBER PANEL SUFFIX
 DODDRIDGE COUNTY 540024 0115 C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
 54017C0115C
MAP REVISED
 OCTOBER 4, 2011
 Federal Emergency Management Agency

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

LANDOWNER TABULATION

A TM 6-10 ARTHUR G. & MELISSA A. PAYNE DB 237 PG 502 70.5 ACRES PO BOX 335 PENNSBORO, WV 26415	D TM 6-1 WILLIAM F. COTTRILL JR, ET AL DB 293 PG 479 69.25 ACRES 902 TYGART STREET PARKERSBURG, WV 26101	G TM 6-17 CHARLES M. & KIMELA M. KELLEY DB 243 PG 631 30 ACRES ROUTE 1 BOX 771 GREENWOOD, WV 26415	J TM 6-26 MICHELLE L. LEACH, ET AL WB 040 PG 290 49.56 ACRES ROUTE 1 BOX 778 GREENWOOD, WV 26415	L TM 6-29 THELMA B. JAMES TRUSTEE OF THE LAWRENCE L. JAMES LIVING TRUST WB 033 PG 226 DB 232 PG 690 2 ACRES ROUTE 1 BOX 773 GREENWOOD, WV 26415	O TM 6-14 JOHN FRAME, (DB 271 PG 666) & CARROL R., GARY D. & MICHAEL D. HARRIS, SR (DB 217 PG 592) 5.416 ACRES 320 PENNSYLVANIA AVENUE BRIDGEPORT, WV 26300 PO BOX 53 SMITHBURG WV, 26436	Q TM 6-5 RICHARD F. McCULLOUGH DB 272 PG 309 39 ACRES ROUTE 1 BOX 770 GREENWOOD, WV 26415
B TM 6-3 EDWARD V. RICE DB 161 PG 495 9.00 ACRES 2957 CLARKS BLUFF ROAD KINGSLAND, GA 31548	E TM 3-15 THELMA JAMES DB 260 PG 025 212.1 ACRES ROUTE 1 BOX 773 GREENWOOD, WV 26415	H TM 6-11 GEO. DUCKWORTH HEIRS DB 3 PG 544 58 ACRES 2819 EDONIA DRIVE KNOXVILLE, TN 37918	K TM 6-27 THELMA B. JAMES TRUSTEE OF THE LAWRENCE L. JAMES LIVING TRUST (WB 033 PG 226) THELMA B. JAMES (DB 269 PG 176) & JUDITH A. NORBERG (WB 020 PG 311) 33 ACRES ROUTE 1 BOX 773 GREENWOOD, WV 26415 24 NORTH AVENUE CAMERON, WV 26033	M TM 6-47 CHARLES M. & KIMELA M. KELLEY DB 243 PG 631 1.416 ACRES ROUTE 1 BOX 771 GREENWOOD, WV 26415	P TM 6-15 OPAL R. CARVER (LIFE) & CHARLOTTE D. JAMES (DB 213 PG 378) & THELMA JAMES (DB 260 PG 025) 23.5 ACRES ROUTE 1 BOX 773 GREENWOOD, WV 26415 ROUTE 1 BOX 1029 GREENWOOD, WV 26415	
C TM 6-2 EDWARD V. RICE DB 161 PG 857 69.13 ACRES 2957 CLARKS BLUFF ROAD KINGSLAND, GA 31548	F TM 6-6 THELMA B. JAMES, TRUSTEE OF THE LAWRENCE L. JAMES LIVING TRUST WB 033 PG 226 107 ACRES ROUTE 1 BOX 773 GREENWOOD, WV 26415	I TM 6-12 KIMELA M. & CHARLES M. KELLEY DB 235 PG 672 21 ACRES ROUTE 1 BOX 771 GREENWOOD, WV 26415	N TM 6-13 YOUTH CAMP CHURCH 0.16 ACRES (EXEMPT)			

NAVITUS
 ENERGY ENGINEERING
 Telephone: (888) 662-4185 | www.NavitusEng.com

REVISION
DATE

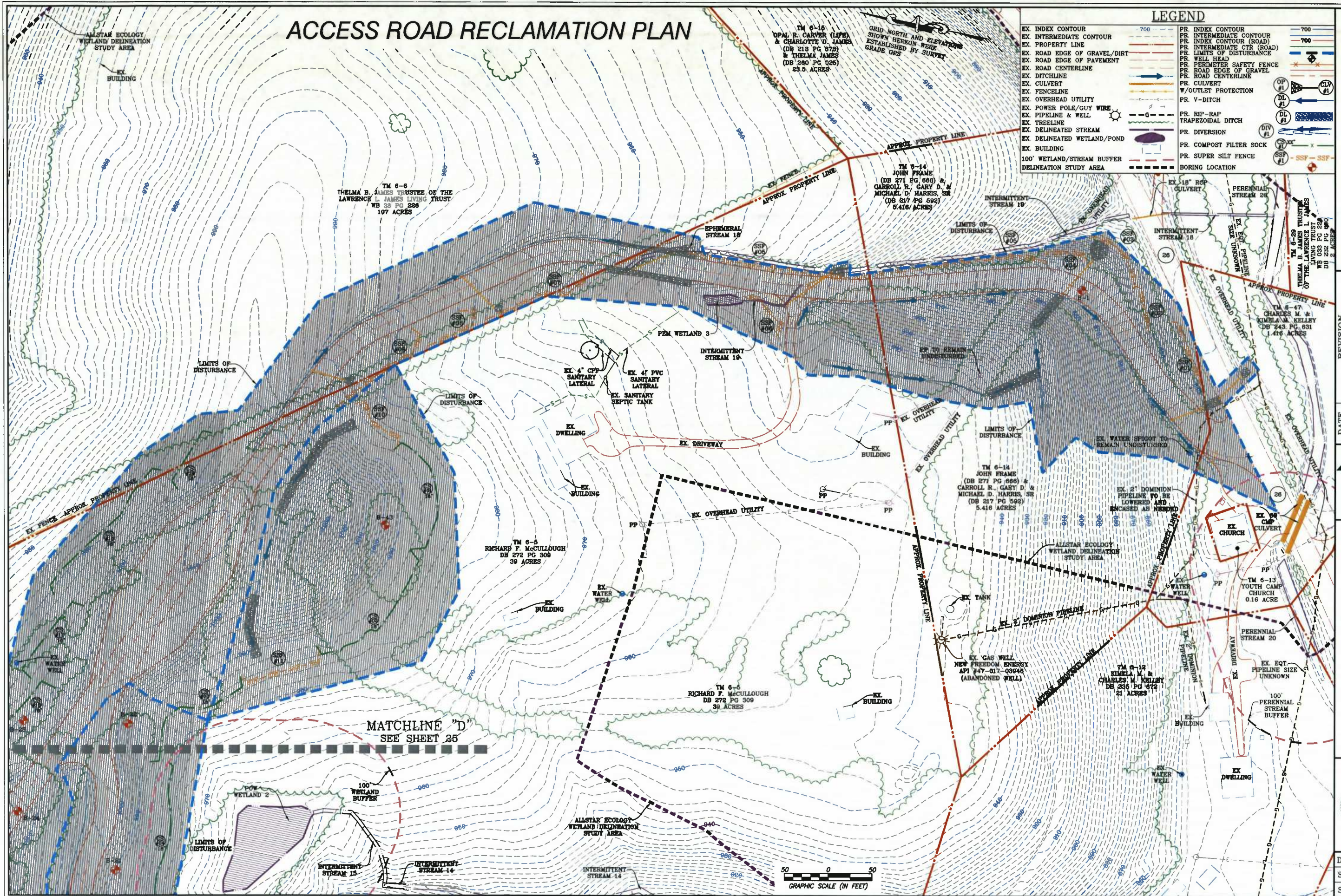
Antero
 RESOURCES
 THIS DOCUMENT WAS PREPARED FOR:
 ANTERO RESOURCES CORPORATION

FIRM EXHIBIT
DUCKWORTH
 WELL PAD
 CENTRAL DISTRICT
 DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 08/05/2014
 SCALE: 1" = 200'
 SHEET 28 OF 28

ACCESS ROAD RECLAMATION PLAN



LEGEND	
EX INDEX CONTOUR	PR INDEX CONTOUR
EX INTERMEDIATE CONTOUR	PR INTERMEDIATE CONTOUR
EX PROPERTY LINE	PR INDEX CONTOUR (ROAD)
EX ROAD EDGE OF GRAVEL/DIRT	PR INTERMEDIATE CTR (ROAD)
EX ROAD EDGE OF PAVEMENT	PR LIMITS OF DISTURBANCE
EX ROAD CENTERLINE	PR WELL HEAD
EX DITCHLINE	PR PERIMETER SAFETY FENCE
EX CULVERT	PR ROAD EDGE OF GRAVEL
EX FENCELINE	PR ROAD CENTERLINE
EX OVERHEAD UTILITY	PR CULVERT
EX POWER POLE/GUY WIRE	PR W/OUTLET PROTECTION
EX PIPELINE & WELL	PR V-DITCH
EX TREELINE	PR RIP-RAP
EX DELINEATED STREAM	PR TRAPEZOIDAL DITCH
EX DELINEATED WETLAND/POND	PR DIVERSION
EX BUILDING	PR COMPOST FILTER SOCK
100' WETLAND/STREAM BUFFER	PR SUPER SILT FENCE
DELINEATION STUDY AREA	BORING LOCATION

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REVISION	DATE

Antero
RESOURCES CORPORATION

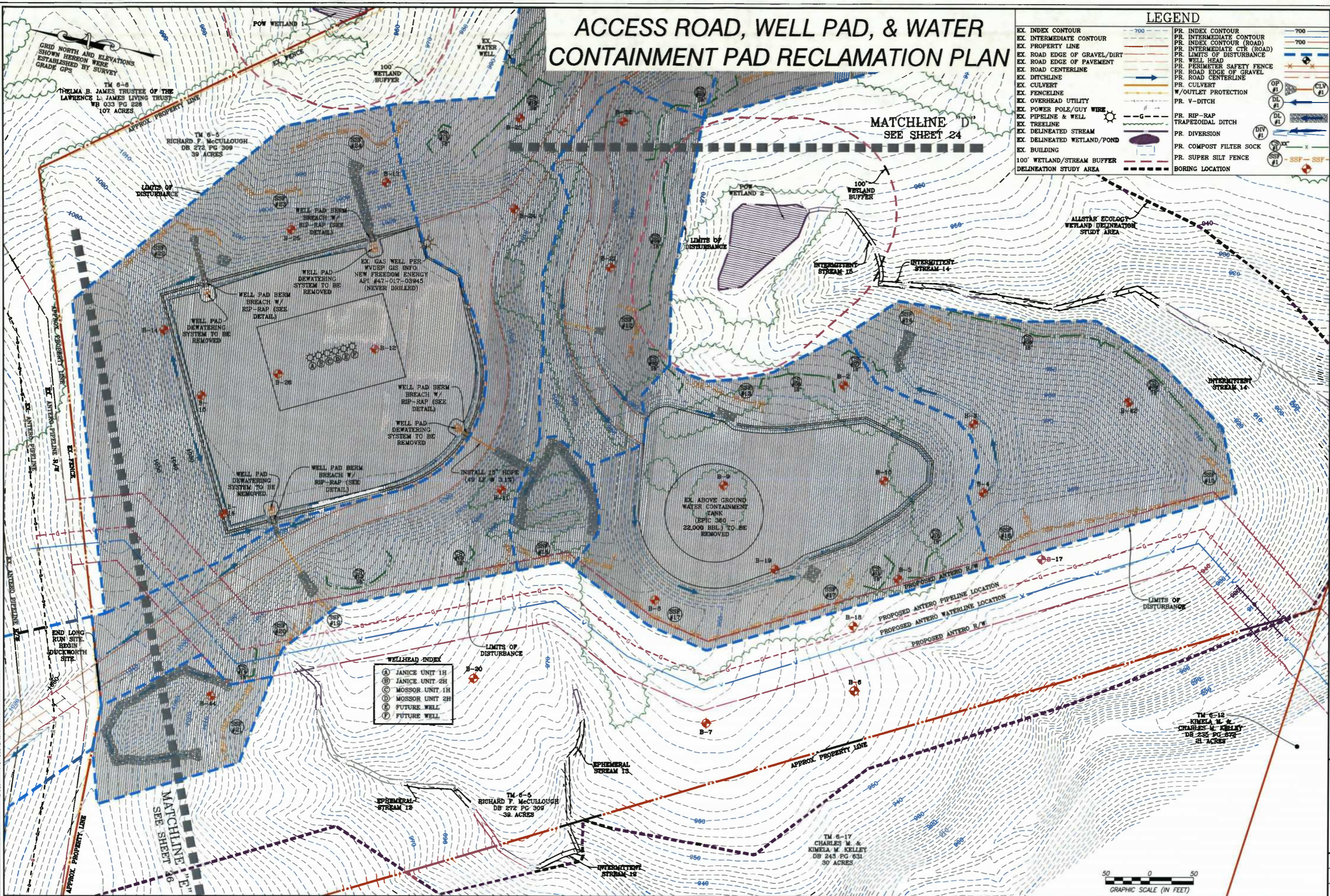
THIS DOCUMENT WAS PREPARED FOR:
ANTERO RESOURCES CORPORATION

ACCESS ROAD RECLAMATION PLAN
DUCKWORTH
WELL PAD
CENTRAL DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

08/05/2014
DATE: 08/05/2014
SCALE: 1" = 50'
SHEET 24 OF 28

ACCESS ROAD, WELL PAD, & WATER CONTAINMENT PAD RECLAMATION PLAN

LEGEND	
EX INDEX CONTOUR	PR INDEX CONTOUR
EX INTERMEDIATE CONTOUR	PR INTERMEDIATE CONTOUR
EX PROPERTY LINE	PR INDEX CONTOUR (ROAD)
EX ROAD EDGE OF GRAVEL/DIRT	PR LIMITS OF DISTURBANCE
EX ROAD EDGE OF PAVEMENT	PR WELL HEAD
EX ROAD CENTERLINE	PR PERIMETER SAFETY FENCE
EX DITCHLINE	PR ROAD EDGE OF GRAVEL
EX CULVERT	PR ROAD CENTERLINE
EX FENCELINE	PR W/OUTLET PROTECTION
EX OVERHEAD UTILITY	PR V-DITCH
EX POWER POLE/GUY WIRE	PR RIP-RAP
EX PIPELINE & WELL	TRAPEZOIDAL DITCH
EX TRELLINE	PR DIVERSION
EX DELINEATED STREAM	PR COMPOST FILTER SOCK
EX DELINEATED WETLAND/POND	PR SUPER SILT FENCE
EX BUILDING	BORING LOCATION
100' WETLAND/STREAM BUFFER	
DELINEATION STUDY AREA	



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REVISION	DATE

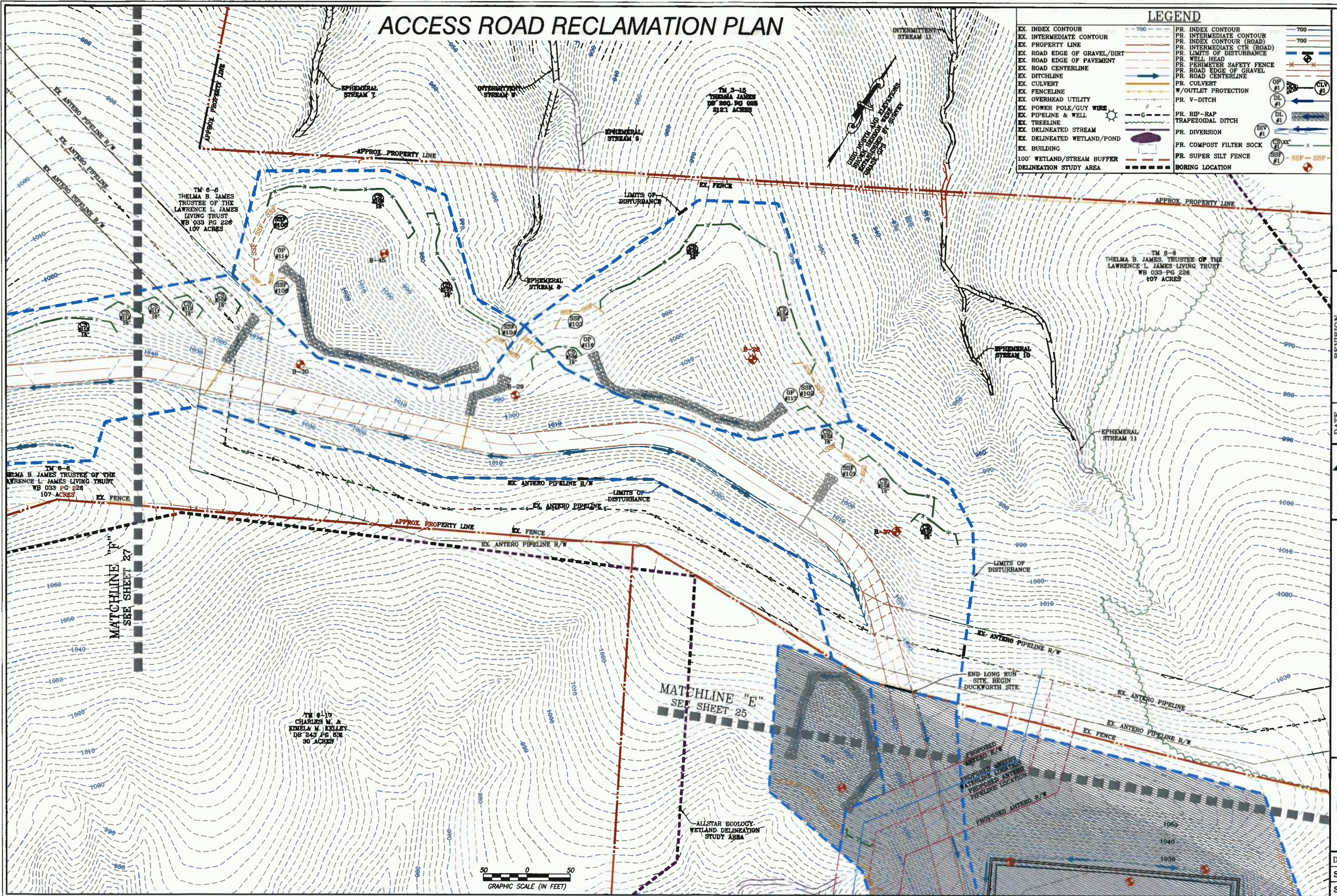
Antero
THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

ACCESS ROAD, WELL PAD, & WATER CONTAINMENT PAD RECLAMATION PLAN
DUCKWORTH
WELL PAD
CENTRAL DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 08/05/2014
SCALE: 1" = 50'
SHEET 25 OF 28



ACCESS ROAD RECLAMATION PLAN



LEGEND

EX INDEX CONTOUR	PR INDEX CONTOUR	700
EX INTERMEDIATE CONTOUR	PR INTERMEDIATE CONTOUR	700
EX PROPERTY LINE	PR INDEX CONTOUR (ROAD)	700
EX ROAD EDGE OF GRAVEL/DIRT	PR INTERMEDIATE CTR (ROAD)	
EX ROAD EDGE OF PAVEMENT	PR LIMITS OF DISTURBANCE	
EX ROAD CENTERLINE	PR WELL HEAD	
EX DITCHLINE	PR PERIMETER SAFETY FENCE	
EX CULVERT	PR ROAD EDGE OF GRAVEL	
EX FENCELINE	PR ROAD CENTERLINE	
EX OVERHEAD UTILITY	PR CULVERT	
EX PIPELINE & WELL	PR W/OUTLET PROTECTION	
EX TRAILLINE	PR V-DITCH	
EX DELINEATED WETLAND/POND	PR RIP-RAP	
EX BUILDING	PR TRAPEZOIDAL DITCH	
DELINEATION STUDY AREA	PR DIVERSION	
	PR COMPOST FILTER SOCK	
	PR SUPER SILT FENCE	
	BORING LOCATION	

NAVITUS
ENERGY ENGINEERING

Telephone: (888) 862-4185 | www.NavitusEng.com

REVISION	DATE

Antero

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ANTERO RESOURCES CORPORATION

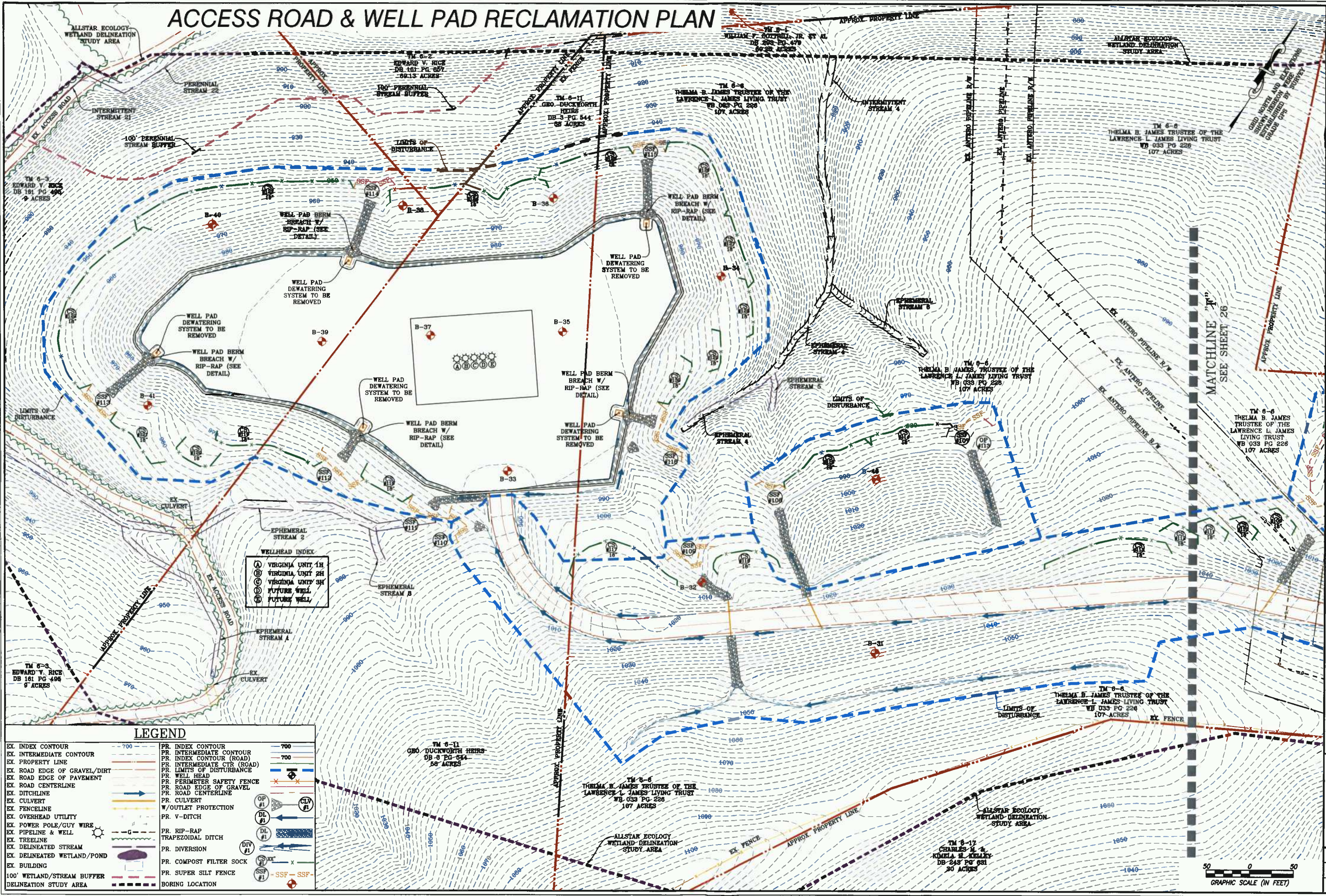
ACCESS ROAD RECLAMATION PLAN

DUCKWORTH
WELL PAD
CENTRAL DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 08/05/2014
SCALE: 1" = 50'
SHEET 26 OF 28

ACCESS ROAD & WELL PAD RECLAMATION PLAN



WELLHEAD INDEX

(A)	VIRGINIA UNIT 1H
(B)	VIRGINIA UNIT 2H
(C)	VIRGINIA UNIT 3H
(D)	FUTURE WELL
(E)	FUTURE WELL

LEGEND

EX. INDEX CONTOUR	700	PR. INDEX CONTOUR	700
EX. INTERMEDIATE CONTOUR		PR. INTERMEDIATE CONTOUR	
EX. PROPERTY LINE		PR. INDEX CONTOUR (ROAD)	700
EX. ROAD EDGE OF GRAVEL/DIRT		PR. INTERMEDIATE CTR (ROAD)	
EX. ROAD EDGE OF PAVEMENT		PR. LIMITS OF DISTURBANCE	
EX. ROAD CENTERLINE		PR. WELL HEAD	
EX. DITCHLINE		PR. PERIMETER SAFETY FENCE	
EX. CULVERT		PR. ROAD EDGE OF GRAVEL	
EX. FENCELINE		PR. ROAD CENTERLINE	
EX. OVERHEAD UTILITY		PR. CULVERT	
EX. POWER POLE/GUY WIRE		PR. W/OUTLET PROTECTION	
EX. PIPELINE & WELL		PR. V-DITCH	
EX. TREELINE		PR. RIP-RAP	
EX. DELINEATED STREAM		PR. TRAPEZOIDAL DITCH	
EX. DELINEATED WETLAND/POND		PR. DIVERSION	
EX. BUILDING		PR. COMPOST FILTER SOCK	
100' WETLAND/STREAM BUFFER		PR. SUPER SILT FENCE	
DELINEATION STUDY AREA		BORING LOCATION	

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REVISION	DATE	DESCRIPTION

THIS DOCUMENT WAS PREPARED FOR: ANTERO RESOURCES CORPORATION

ACCESS ROAD & WELL PAD RECLAMATION PLAN

DUCKWORTH
WELL PAD
CENTRAL DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

08/05/2014

DATE: 08/05/2014
SCALE: 1" = 50'
SHEET 27 OF 28