

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: #14-263 ~ Antero Resources ~ Henley Well Pad

Date Approved: 08/26/2014

Expires: N/A

Issued to: Antero Resources

**POC: Emily Kijowski
303-357-7310**

**Company Address: 1615 Wynkoop Street
Denver, CO 80202**

**Project Address: Greenbrier District
Lat/Long: 39.184737N/80.552301W and 39.187052N/80.546400W**

Purpose of development: Well Pad & Water Containment Pad construction. *Project does not impact floodplain.*

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

Date: 08/26/2014

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

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 19th day of August, 2014

Antero Resources

filed an application for a Floodplain Permit to develop land located at or about:

Greenbrier District

39.184737N/80.552301W and 39.187052N/80.546400W

Permit #14-263 Henley Well and Water Containment 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 **September 22, 2014**, delivered to:

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

#14-263



August 15, 2014

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

Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

Mr. Wriston:

Antero Resources Appalachian Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Henley Well Pad. Our project is located in Doddridge County, Greenbrier District and per FIRM maps #54017C0260C and #54033C0220D this location is not within the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- Henley 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,

A handwritten signature in cursive script that reads "Emily Kijowski".

Emily Kijowski
Permit Representative
Antero Resources Appalachian Corporation


Enclosures

2014 AUG 19 PM 2:32
BETH ANN
COUNTY CLERK
DODDRIDGE COUNTY, WV
FILED

**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 August 18, 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 Engineering, Inc.
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 Please see Surface Owner Table

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:

- | | | | | | | | |
|--------------------------|------|--------------------------|--------|--------------------------|----------|--------------------------|------------|
| <input type="checkbox"/> | Fill | <input type="checkbox"/> | Mining | <input type="checkbox"/> | Drilling | <input type="checkbox"/> | 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 Kloberdanz

SIGNATURE:  DATE: August 18, 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: _____

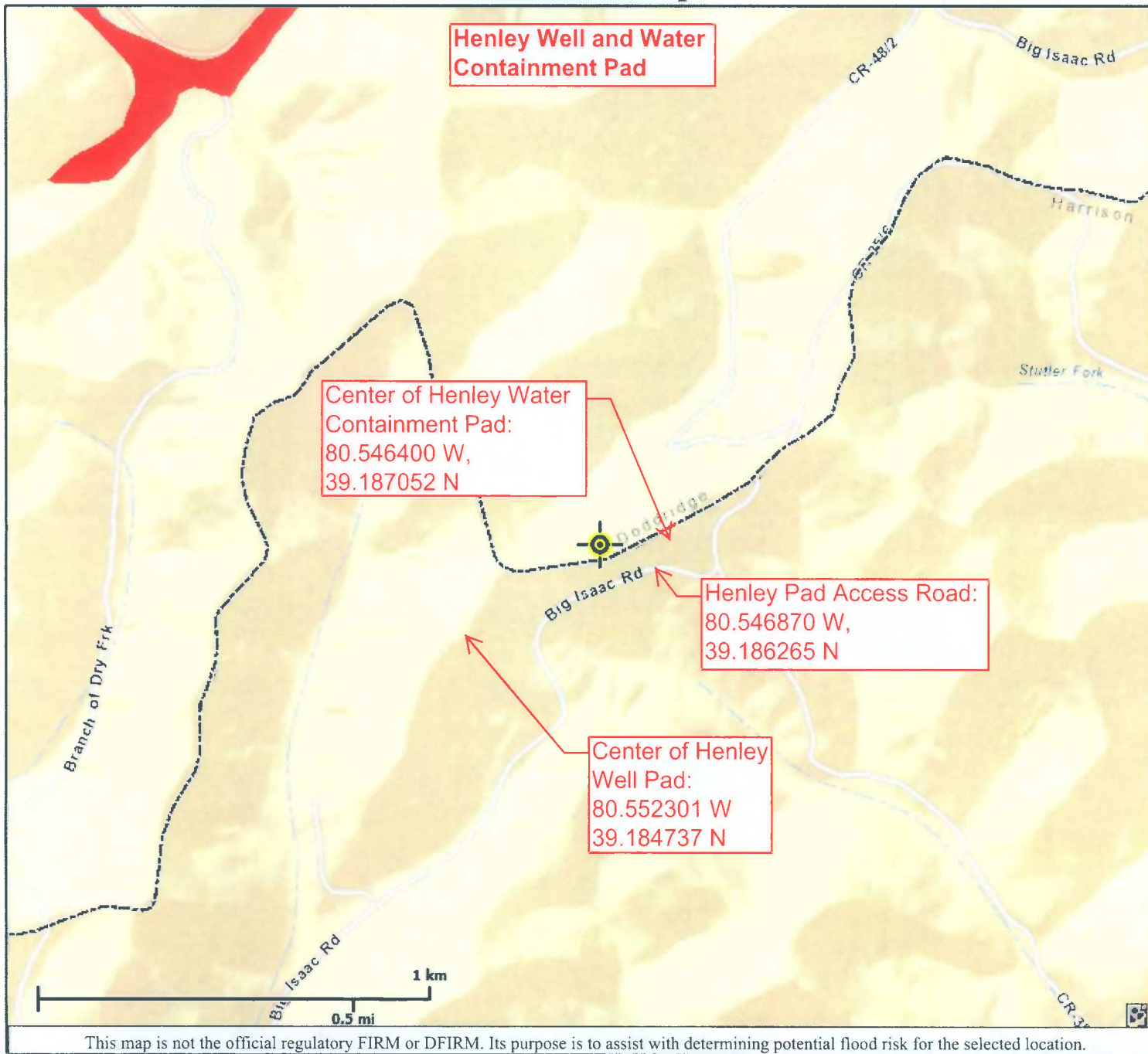
OWNER'S ADDRESS: _____

**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 8/14/2014



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: About 1393 feet

Location (long. lat): 80.548171 W, 39.186821 N

Location (UTM 17N): (539022, 4337606)

FEMA Issued Flood Map: 54017C0270C

Contacts: Doddridge County

CRS Information: N/A

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
14-263

was published in said paper for *2*

successive weeks beginning with the issue
of *September 2nd* 2014 and

ending with the issue of
September 9th 2014 and

that said notice contains *189*

WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.74*

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

\$ *16.31*

and each publication thereafter

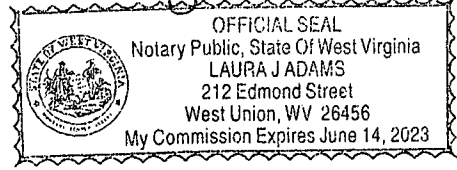
\$ *38.05* TOTAL

EDITOR
Virginia Nicholson

SWORN TO AND SUBSCRIBED
BEFORE ME THIS THE *9th* DAY
OF *September* 2014

NOTARY PUBLIC
Laura J Adams

LEGAL ADVERTISEMENT:
Doddridge County
Floodplain Permit Application
Please take notice that on the 19th day of August, 2014
Antero Resources filed an application for a Floodplain
Permit to develop land located at or about: Greenbrier
District 39 184737N/80 552301W and
39 187052N/80 546400W Permit #14-263 Henley Well and
Water Containment 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
September 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



FIRM EXHIBIT



LANDOWNER TABULATION

A	TM 15-16.1 CLARENCE & GABRIELE HOOVER DB 257 PG 712 13.73 ACRES RT 3 BOX 79A SALEM, WV 26426	D	TM 401-19 ERONISLAW & URSULA SZMIGIEL DB 1244 PG 261 2.087 ACRES RR2 BOX 160 B1 JANE LEW, WV 26378	G	TM 401-1.1 TIMOTHY G. & NANCY JO HUGHES DB 1237 PG 881 43.85 ACRES RR 2 BOX 158 JANE LEW, WV 26378	J	TM 15-16 GABRIELE HOOVER AB 035 PG 493 71.41 ACRES RT 3 BOX 79A SALEM, WV 26426	M	TM 402-13.2 JOSHUA M. & SARAH J. HACKER DB 1419 PG 1310 7.25 ACRES RR 2 BOX 160C JANE LEW, WV 26378
B	TM 402-13 WILLIAM D. & TABITHA N. RATLIFF DB 1406 PG 384 48.45 ACRES C/O ADAM CARDER RR 1 BOX 44 LOST CREEK, WV 26385	E	TM 401-4 FRANCES O. PHARES WB 166 PG 606 8.8 ACRES 235 E. MAIN STREET CLARKSBURG, WV 26301	H	TM 401-1.2 TIMOTHY G. & NANCY JO HUGHES DB 1237 PG 881 65.99 ACRES RR2 BOX 158 JANE LEW, WV 26378	K	TM 402-1 JAMES OMAR CUMBERLEDGE DB 1451 PG 1103 19.94 ACRES C/O WILLIS CUMBERLEDGE RR 2 BOX 161 WEST UNION, WV 26456	N	TM 402-13.1 MICHAEL A. & BARBARA J. DAVIS DB 1431 PG 1022 48.45 ACRES RR 2 BOX 165 JANE LEW, WV 26378
C	TM 15-33 GABRIELE HOOVER AB 035 PG 493 16.13 ACRES RT 3 BOX 79A SALEM, WV 26426	F	TM 401-1.5 RICHARD K. & WANDA F. HENLEY DB 1349 PG 344 48.66 ACRES 225 RAINBOW DRIVE LIVINGSTON, TX 77399	I	TM 401-2 CLARENCE & GABRIELE HOOVER DB 1150 PG 898 1.1 ACRES 832 INDEPENDENCE ROAD SALEM, WV 26426	L	TM 402-17 WILLIS L. & ARLETA P. CUMBERLEDGE DB 842 PG 535 80 ACRES RR2 BOX 161 JANE LEW, WV 26378		

PANEL 0260C


FIRM

FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 260 OF 325
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
DODDRIDGE COUNTY 26004 0260 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
54017C0260C
MAP REVISED
OCTOBER 4, 2011
Federal Emergency Management Agency

PANEL 0220D


FIRM

FLOOD INSURANCE RATE MAP
HARRISON COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 220 OF 355
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
HARRISON COUNTY 22003 0220 D

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
54033C0220D
EFFECTIVE DATE
OCTOBER 2, 2012
Federal Emergency Management Agency



FLOODPLAIN NOTE
THE PROPOSED SITE IS LOCATED IN
FLOOD ZONE "X" PER FEMA FLOOD MAPS
#54017C0260C & #54033C0220D

NAVITUS
ENERGY ENGINEERING

Telephone: (888) 682-4185 | www.NavitusEng.com

DATE	REVISION
05/13/2014	UPDATE PER WETLAND DELINEATION

Antero
Resources

THIS DOCUMENT
WAS PREPARED FOR:
ANTERO RESOURCES
CORPORATION

FIRM EXHIBIT
HENLEY
WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA



DATE: 04/28/2014
SCALE: 1" = 200'
SHEET 23 OF 23

LOCATION COORDINATES

ACCESS ROAD ENTRANCE
 LATITUDE: 39.186265 LONGITUDE: -80.546870 (NAD 83)
 N 4338721.65 E 539128.41 (UTM NAD83, ZONE 17 METERS)

CENTROID OF WELL PAD
 LATITUDE: 39.184737 LONGITUDE: -80.552301 (NAD 83)
 N 4337372.87 E 538668.09 (UTM NAD83, ZONE 17 METERS)

CENTER OF WATER CONTAINMENT TANK
 LATITUDE: 39.187052 LONGITUDE: -80.546400 (NAD 83)
 N 4337832.32 E 539174.50 (UTM NAD83, 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 #54017C0280C & #54033C0220D.

MISS UTILITY STATEMENT

ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN; TICKET #1310825142. 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 IN APRIL-MAY, 2014 BY ALLSTAR ECOLOGY 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 MAY 08, 2014 JURISDICTIONAL STREAMS AND WETLANDS MAP WAS PREPARED BY ALLSTAR ECOLOGY AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT 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 WVDEP.

GEOTECHNICAL NOTE

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY KLEINFELDER ON OCTOBER 15-18, 2013 & MARCH 19-APRIL 8, 2014. THE REPORT PREPARED BY KLEINFELDER DATED APRIL 25, 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 KLEINFELDER 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) 842-4088 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 COORDINATOR
 CELL: (304) 719-6449

DAVE CAVA - LAND AGENT
 CELL: (304) 641-5814

ENGINEER/SURVEYOR:
 NAVITUS ENGINEERING, INC.
 CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER
 OFFICE: (888) 662-4185 CELL: (540) 888-8747

ENVIRONMENTAL:
 ALLSTAR ECOLOGY, LLC
 RYAN L. WARD - ENVIRONMENTAL SCIENTIST
 OFFICE: (866) 213-2866 CELL: (304) 892-7477

GEOTECHNICAL:
 KLEINFELDER
 JOSHUA D. FREGOSI-ENGINEER
 OFFICE: (724) 772-7072 CELL: (704) 400-1103

RESTRICTIONS NOTES:

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

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

GREENBRIER & UNION DISTRICTS, DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA
 LAUREL RUN, RIGHT FORK KINCHELOE CREEK & TANNER FORK WATERSHEDS

BIG ISAAC QUAD MAP



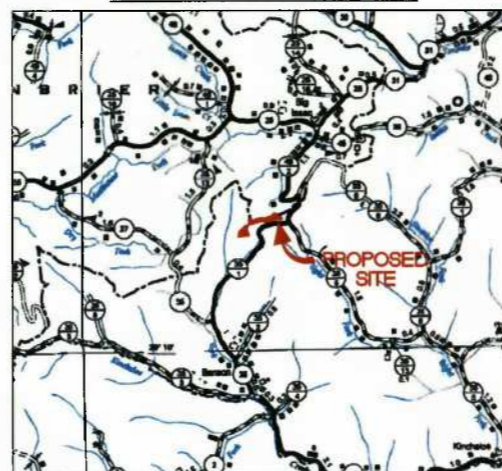
WEST VIRGINIA STATE PLANE COORDINATE SYSTEM
 NORTH ZONE NAD83
 ELEVATION BASED ON NAVD83
 ESTABLISHED BY SURVEY GRADE GPS & OPUS
 POST-PROCESSING

WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

WVDOH COUNTY ROAD MAP



SCALE: 1" = 5000'

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 DIAGRAM 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

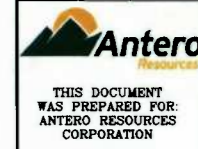
- 01 - COVER SHEET
- 02 - CONSTRUCTION AND E&S CONTROL NOTES
- 03 - MATERIAL QUANTITIES
- 04 - EXISTING CONDITIONS
- 05 - OVERALL PLAN SHEET INDEX & VOLUMES
- 06 - ACCESS ROAD & WATER CONTAINMENT PAD PLAN
- 07 - WELL PAD PLAN
- 08 - ACCESS ROAD PROFILES
- 09-10 - ACCESS ROAD SECTIONS
- 11-13 - WELL PAD SECTIONS
- 14 - WATER CONTAINMENT PAD SECTIONS
- 15-20 - CONSTRUCTIONS DETAILS
- 21 - ACCESS ROAD & WATER CONTAINMENT PAD RECLAMATION PLAN
- 22 - WELL PAD RECLAMATION PLAN
- 23 - FIRM EXHIBIT
- GE501-GE516 - GEOTECHNICAL DETAILS

HENLEY LIMITS OF DISTURBANCE AREA (AC)	
Total Site	
Access Road "A" (386')	1.13
Access Road "B" (1578')	6.61
Well Pad	5.24
Water Containment Pad	2.79
Excess/Topsoil Material Stockpiles	5.12
Total Affected Area	20.89
Total Wooded Acres Disturbed	
Impacts to Clarence & Gabrielle Hoover TM 15-16.1	
Access Road "A" (105')	0.38
Access Road "B" (103')	0.31
Water Containment Pad	2.40
Excess/Topsoil Material Stockpiles	1.10
Total Affected Area	4.19
Total Wooded Acres Disturbed	
Impacts to Gabrielle Hoover TM 15-33	
Access Road "A" (281')	0.75
Access Road "B" (999')	4.78
Water Containment Pad	0.39
Excess/Topsoil Material Stockpiles	1.97
Total Affected Area	7.89
Total Wooded Acres Disturbed	
Impacts to Timothy G. & Nancy Jo Hughes TM 401-1.2	
Access Road "B" (329')	0.68
Well Pad	1.35
Excess/Topsoil Material Stockpiles	0.62
Total Affected Area	2.65
Total Wooded Acres Disturbed	
Impacts to Frances O. Phares TM 401-4	
Access Road "B" (147')	0.84
Well Pad	0.79
Excess/Topsoil Material Stockpiles	0.19
Total Affected Area	1.82
Total Wooded Acres Disturbed	
Impacts to Richard K. & Wanda F. Henley TM 401-1.5	
Well Pad	3.10
Excess/Topsoil Material Stockpiles	1.24
Total Affected Area	4.34
Total Wooded Acres Disturbed	

Proposed Well Name	WV North NAD 27	WV North NAD 83	UTM (METERS) Zone 17	NAD 83 Lat & Long
Betty Lou Unit 1H	N 251069.26 E 1701622.29	N 251106.24 E 1670181.93	N 4337360.14 E 538653.54	LAT 39-11-04.6437 LONG -80-33-08.8101
Betty Lou Unit 2H	N 251072.14 E 1701631.87	N 251109.12 E 1670191.51	N 4337361.06 E 538656.45	LAT 39-11-04.6733 LONG -80-33-08.6889
Andrea Unit 1H	N 251075.01 E 1701641.44	N 251111.99 E 1670201.09	N 4337361.98 E 538659.35	LAT 39-11-04.7028 LONG -80-33-08.5677
Andrea Unit 2H	N 251077.89 E 1701651.02	N 251114.87 E 1670210.66	N 4337362.91 E 538662.25	LAT 39-11-04.7324 LONG -80-33-08.4465
Lebanon Unit 1H	N 251080.76 E 1701660.60	N 251117.74 E 1670220.24	N 4337363.83 E 538665.15	LAT 39-11-04.7819 LONG -80-33-08.3253
Lebanon Unit 2H	N 251083.64 E 1701670.18	N 251120.62 E 1670229.82	N 4337364.76 E 538668.06	LAT 39-11-04.7914 LONG -80-33-08.2041
Tanner Unit 1H	N 251086.51 E 1701679.75	N 251123.50 E 1670239.40	N 4337365.69 E 538670.96	LAT 39-11-04.8210 LONG -80-33-08.0829
Tanner Unit 2H	N 251089.39 E 1701689.33	N 251126.37 E 1670248.97	N 4337366.61 E 538673.86	LAT 39-11-04.8505 LONG -80-33-07.9617
Myrtle Unit 1H	N 251092.27 E 1701698.91	N 251129.25 E 1670258.55	N 4337367.53 E 538676.77	LAT 39-11-04.8800 LONG -80-33-07.8405
Well Pad Elevation				1,461.0



REVISION	DATE	DESCRIPTION
05/13/2014	UPDATE PER WETLAND DELINEATION	



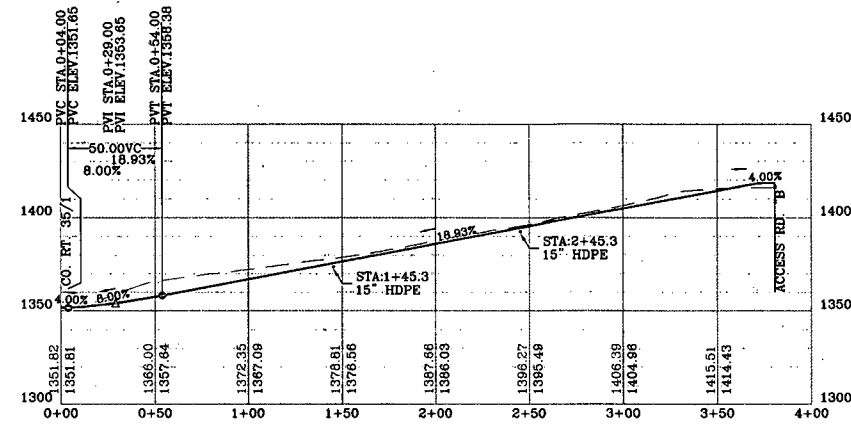
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HENLEY
 WELL PAD & WATER CONTAINMENT PAD
 GREENBRIER & UNION DISTRICTS
 DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA

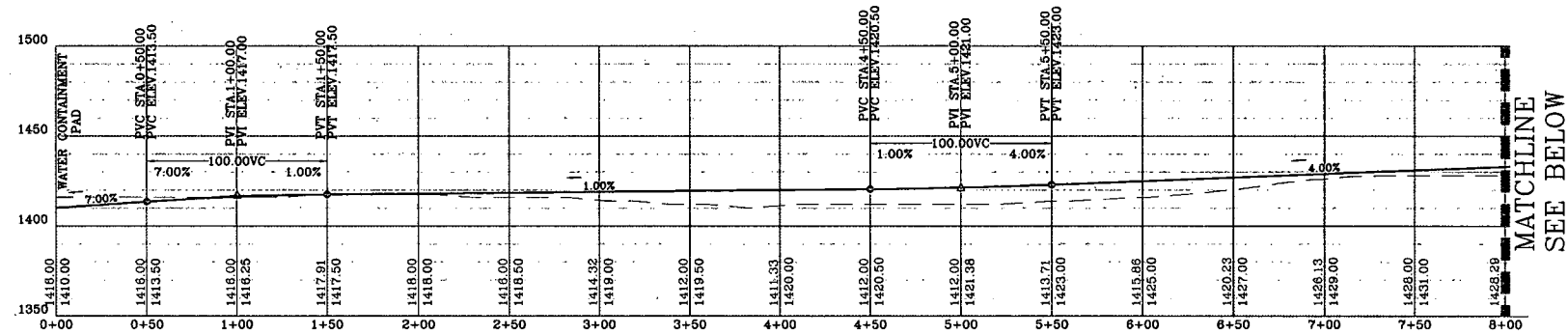


DATE: 04/28/2014
 SCALE: AS SHOWN
 SHEET 1 OF 23

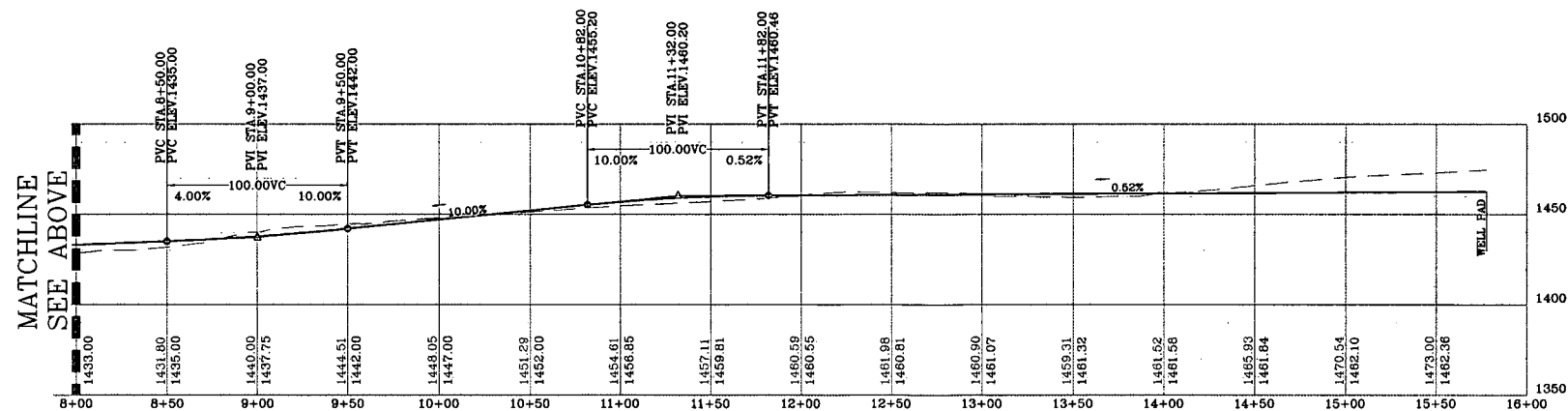
ACCESS ROAD PROFILES



ACCESS ROAD "A" PROFILE
SCALE: HORIZ. 1" = 50' VERT. 1" = 50'



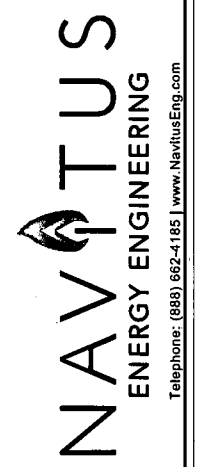
ACCESS ROAD "B" PROFILE
SCALE: HORIZ. 1" = 50' VERT. 1" = 50'



ACCESS ROAD "B" PROFILE
SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

LEGEND

X-SECTION GRID INDEX	-----
X-SECTION GRID INTERMEDIATE	-----
X-SECTION PROPOSED GRADE	-----
X-SECTION EXISTING GRADE	-----
X-SECTION WATER SURFACE	-----
MATCHLINE	-----



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ACCESS ROAD PROFILES
HENLEY
WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA

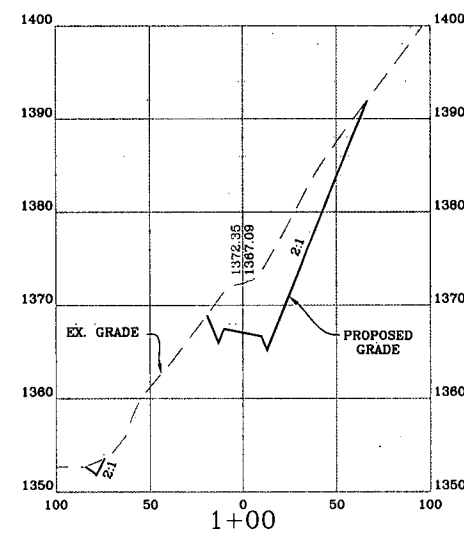
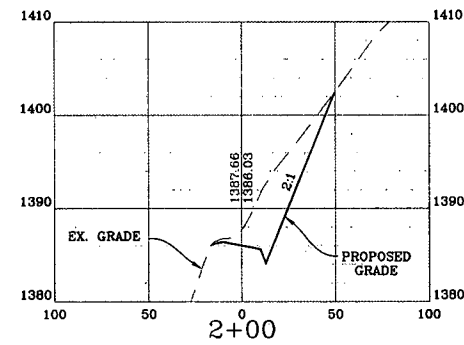
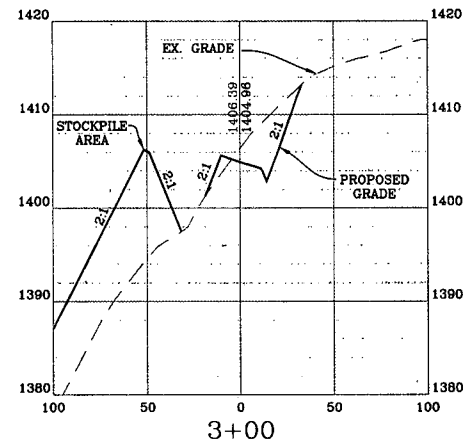


05/13/2014
DATE: 04/28/2014
SCALE: AS SHOWN
SHEET 8 OF 23

ACCESS ROAD SECTIONS

ACCESS ROAD "A" CROSS-SECTIONS

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'

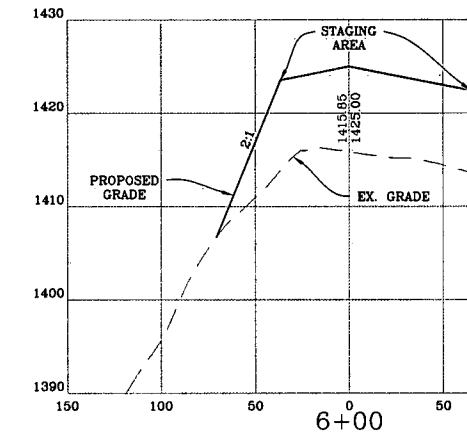
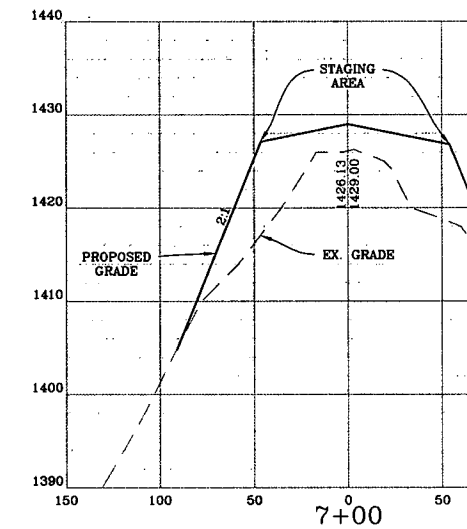
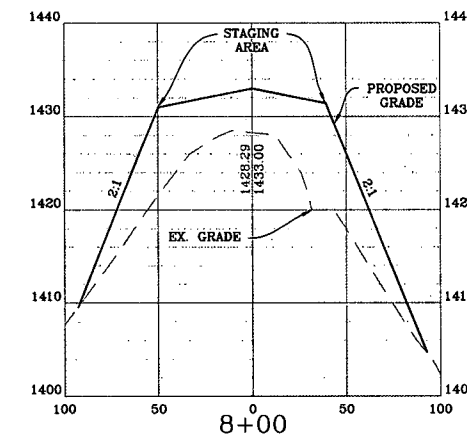
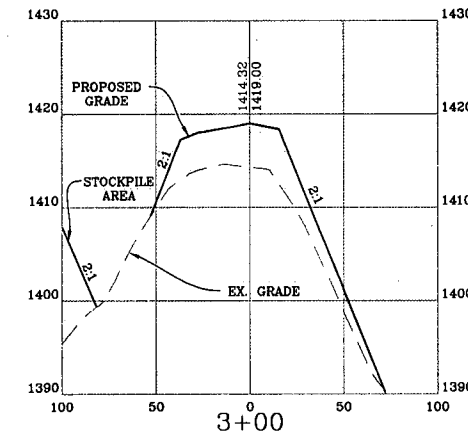
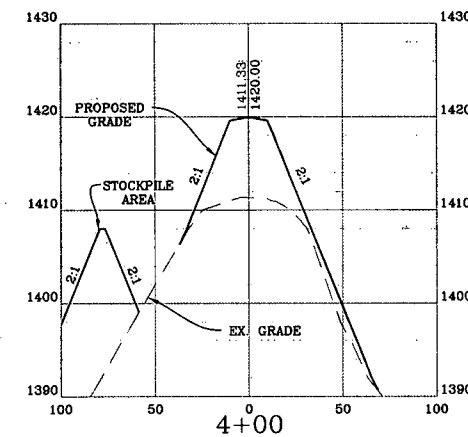
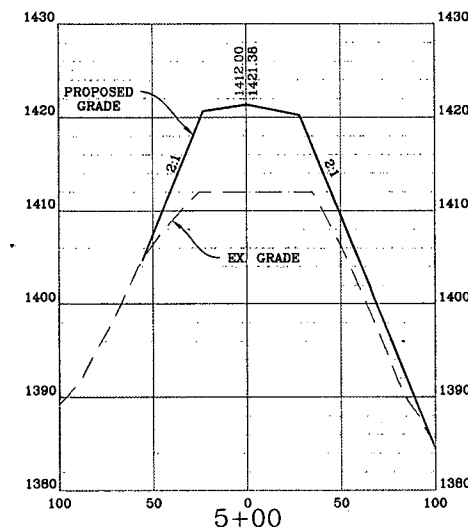


NOTE:
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2. ALL CUT & FILL SLOPES SHALL BE 2:1 UNLESS STATED OTHERWISE.

ACCESS ROAD "B" CROSS-SECTIONS

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



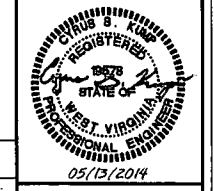
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X-SECTION PROPOSED GRADE	---
X-SECTION EXISTING GRADE	---
X-SECTION WATER SURFACE	---
MATCHLINE	---

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ACCESS ROAD SECTIONS
HENLEY
 WELL PAD & WATER CONTAINMENT PAD
 GREENBRIER & UNION DISTRICTS
 DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA

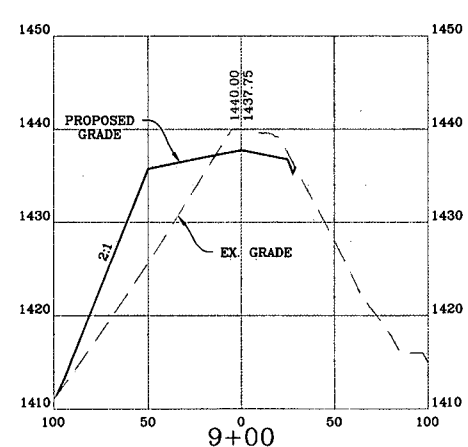
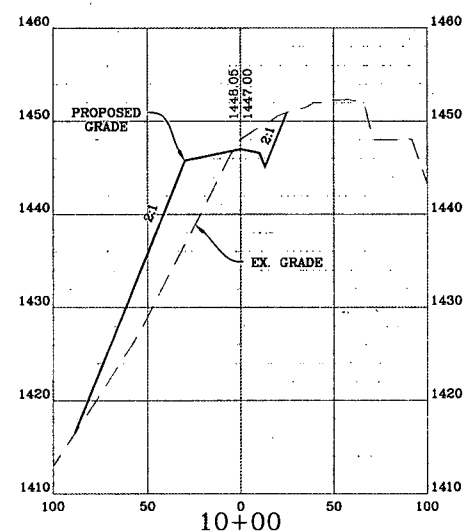
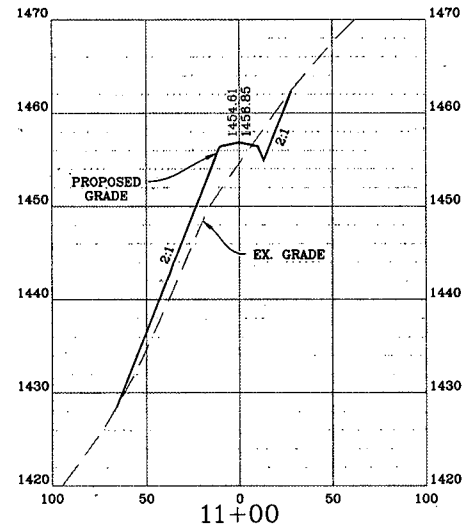


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 SHEET 9 OF 23

ACCESS ROAD SECTIONS

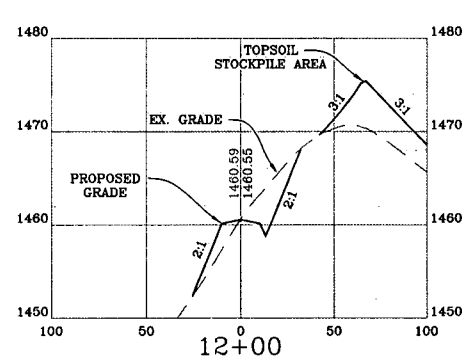
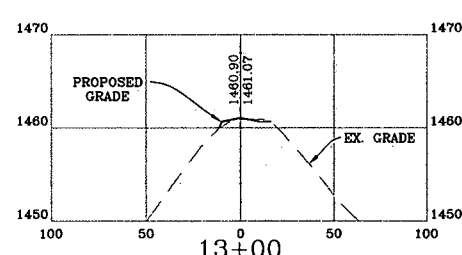
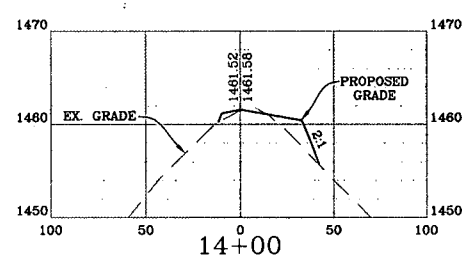
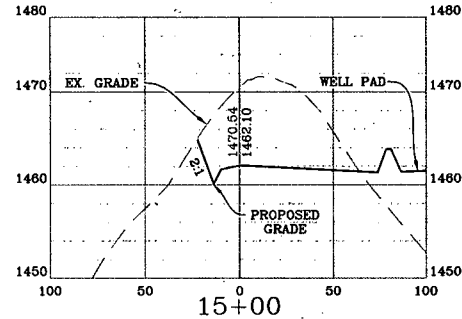
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X-SECTION GRID INTERMEDIATE	-----
X-SECTION PROPOSED GRADE	-----
X-SECTION EXISTING GRADE	-----
X-SECTION WATER SURFACE	-----
MATCHLINE	-----

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ACCESS ROAD "B" CROSS-SECTIONS

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



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DATE	REVISION
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ACCESS ROAD SECTIONS
HENLEY
WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA

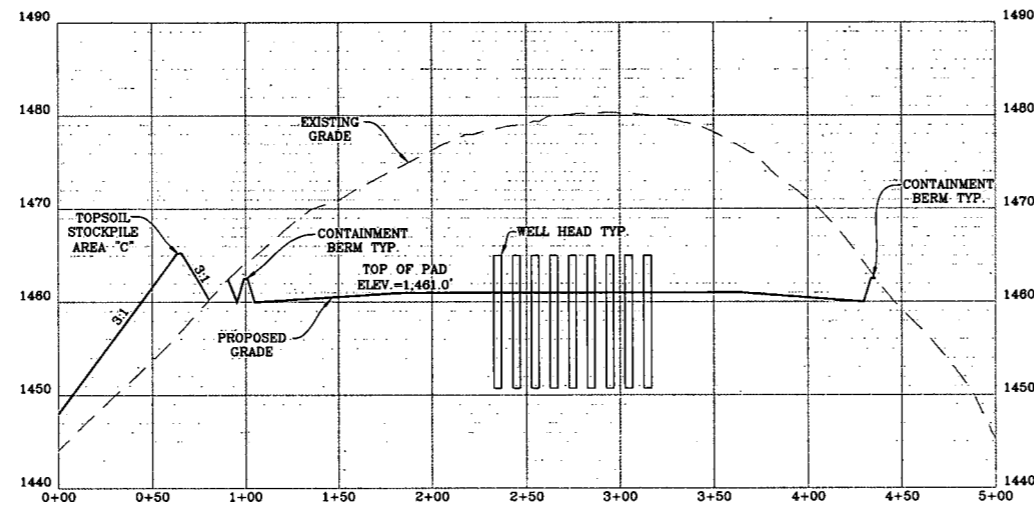


DATE: 04/28/2014
SCALE: AS SHOWN
SHEET 10 OF 23

WELL PAD SECTIONS

WELL PAD CROSS-SECTION "A-A"

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



NOTE:

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LEGEND

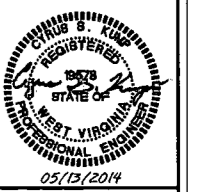
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X-SECTION PROPOSED GRADE	_____
X-SECTION EXISTING GRADE	_____
X-SECTION WATER SURFACE	_____
MATCHLINE	_____

REVISION	DATE	UPDATE PER WETLAND DELINEATION
	05/13/2014	



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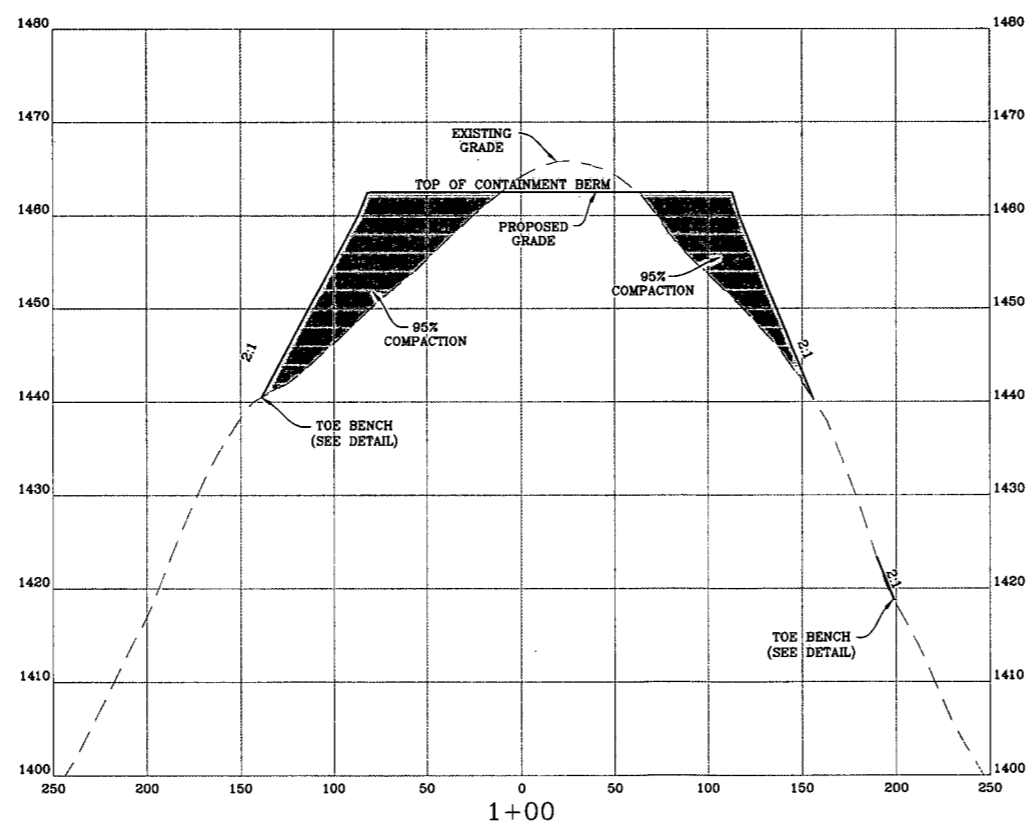
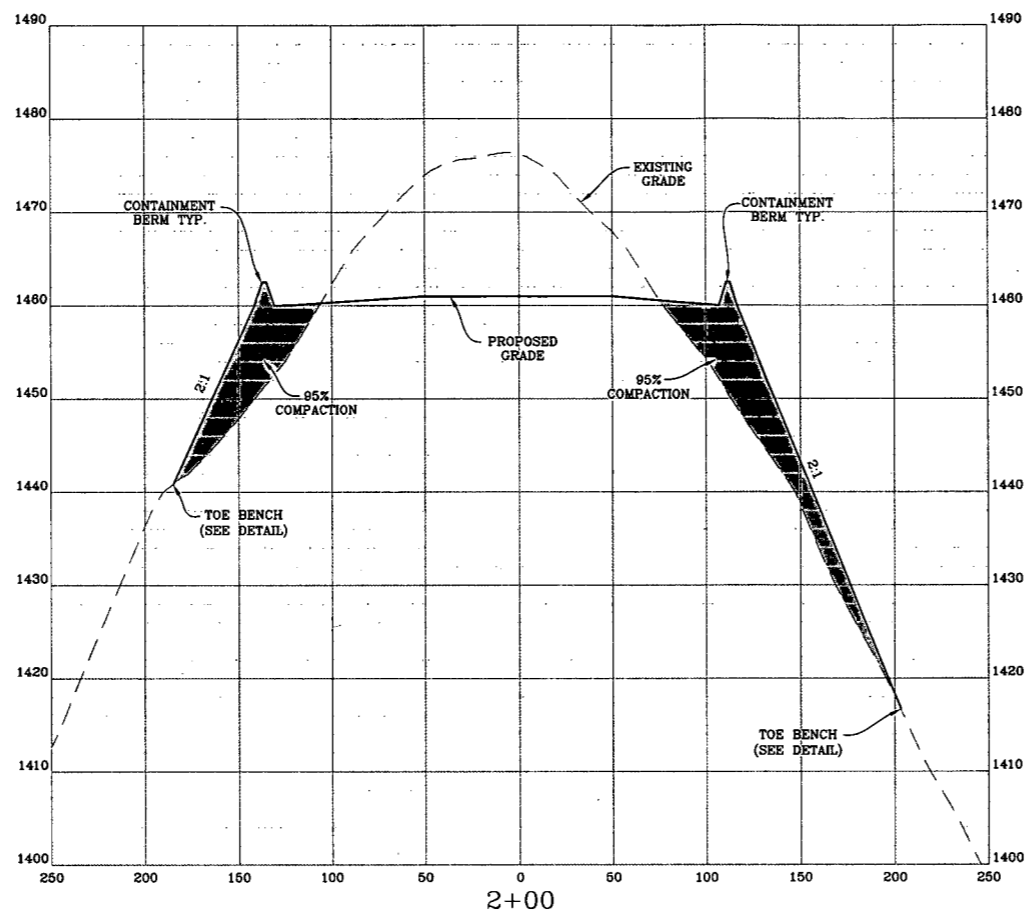
WELL PAD SECTIONS
HENLEY
WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA



WELL PAD SECTIONS

WELL PAD CROSS-SECTIONS ALONG BASELINE "A-A"

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



- NOTE:**
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LEGEND

X-SECTION GRID INDEX	-----
X-SECTION GRID INTERMEDIATE	-----
X-SECTION PROPOSED GRADE	-----
X-SECTION EXISTING GRADE	-----
X-SECTION WATER SURFACE	-----
MATCHLINE	=====

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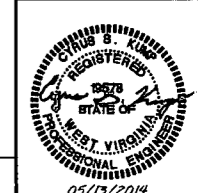
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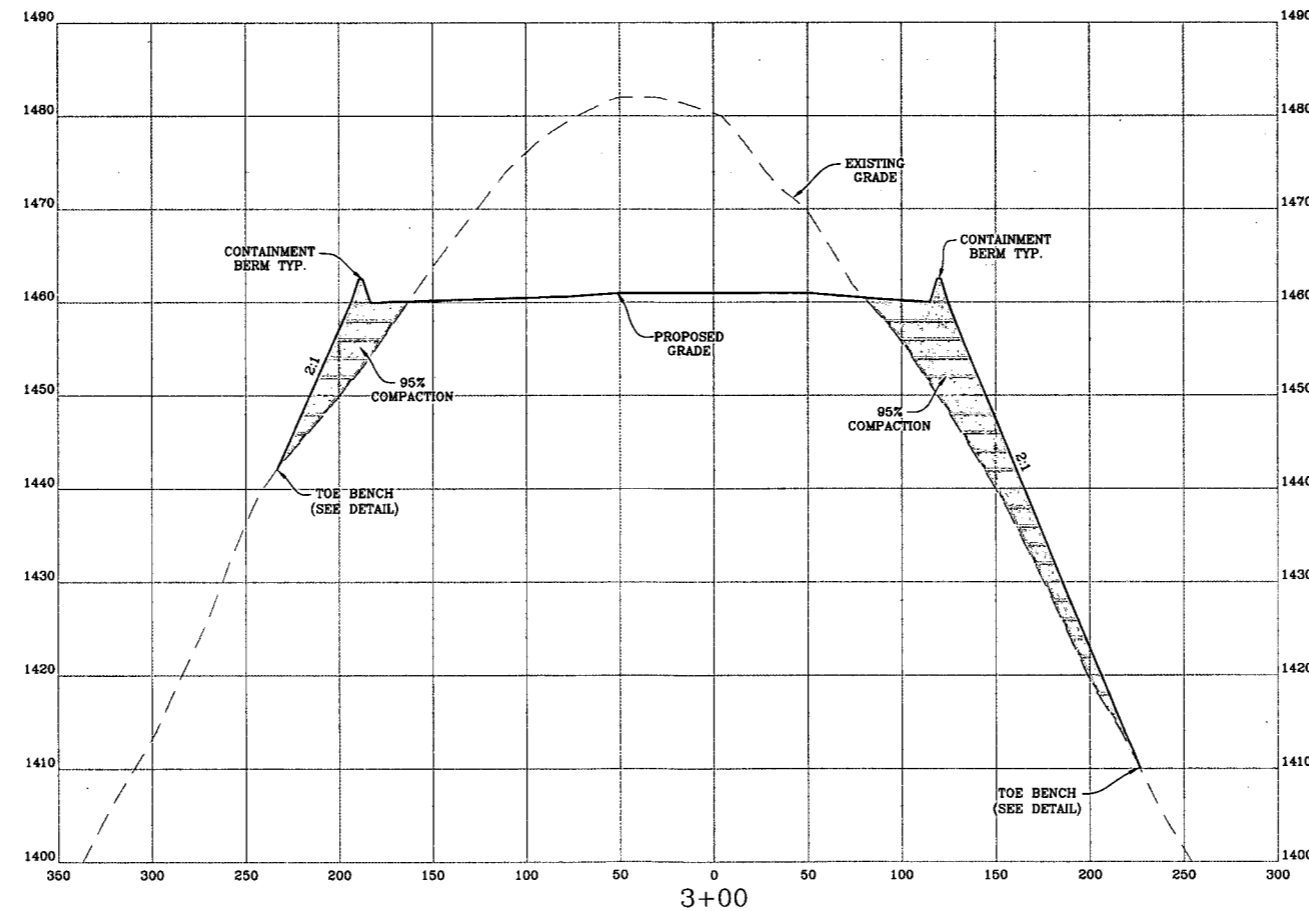
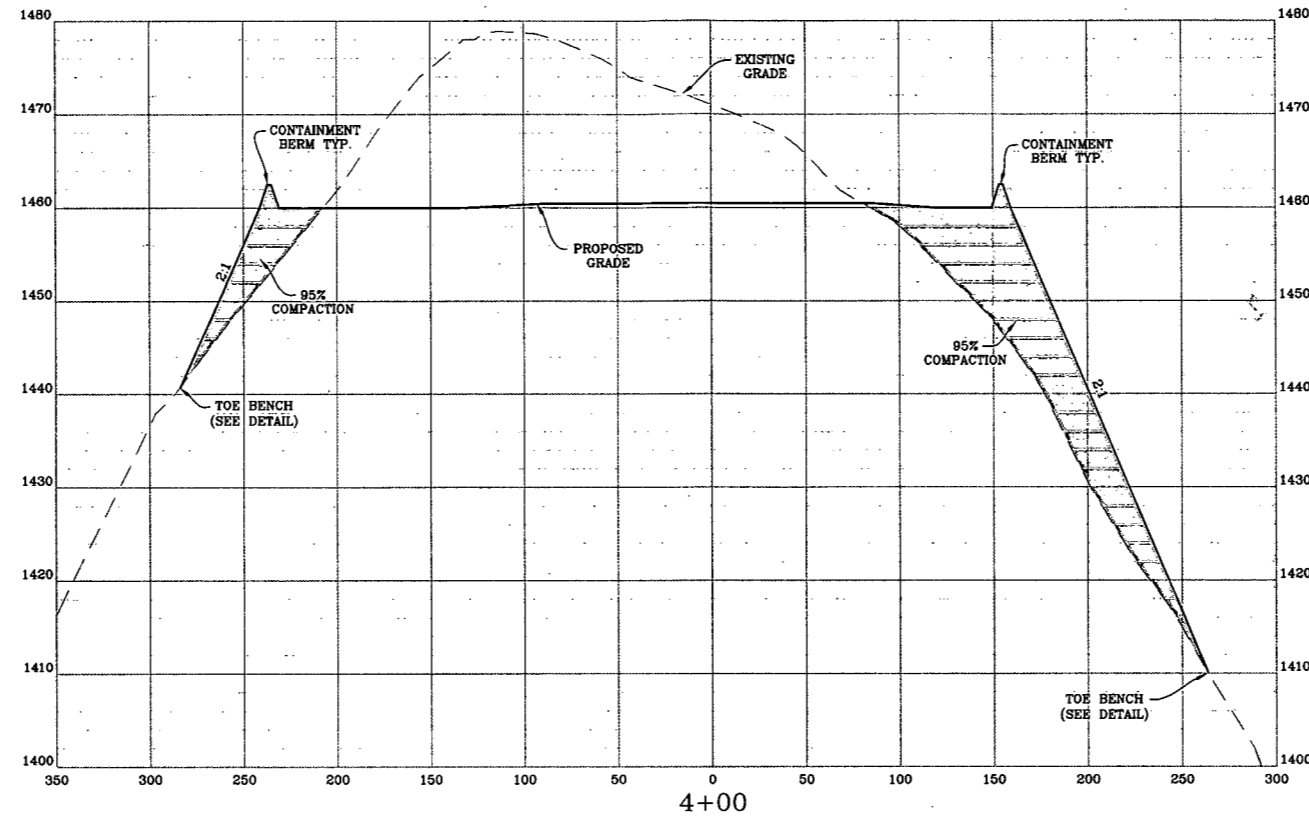
WELL PAD SECTIONS
HENLEY
WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA



DATE: 04/28/2014
SCALE: AS SHOWN
SHEET 12 OF 23

WELL PAD SECTIONS

WELL PAD CROSS-SECTIONS ALONG BASELINE "A-A"
SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



- NOTE:**
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LEGEND

X-SECTION GRID INDEX	-----
X-SECTION GRID INTERMEDIATE	-----
X-SECTION PROPOSED GRADE	-----
X-SECTION EXISTING GRADE	-----
X-SECTION WATER SURFACE	-----
MATCHLINE	-----

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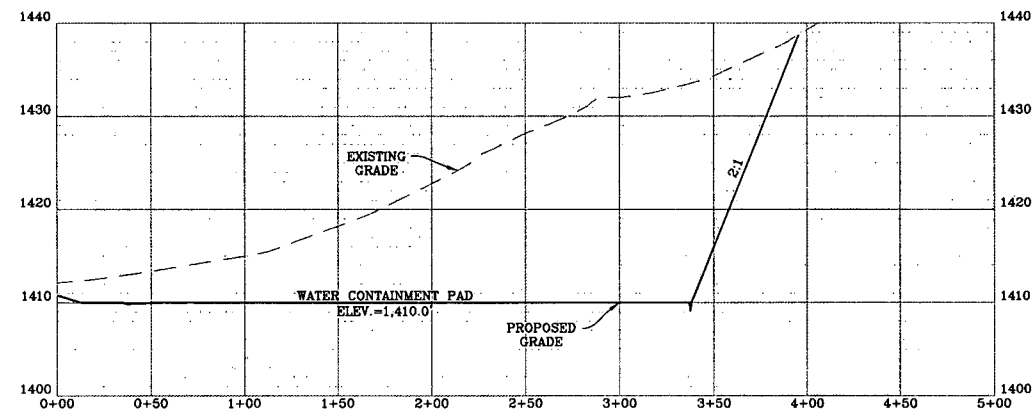
WELL PAD SECTIONS
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WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA



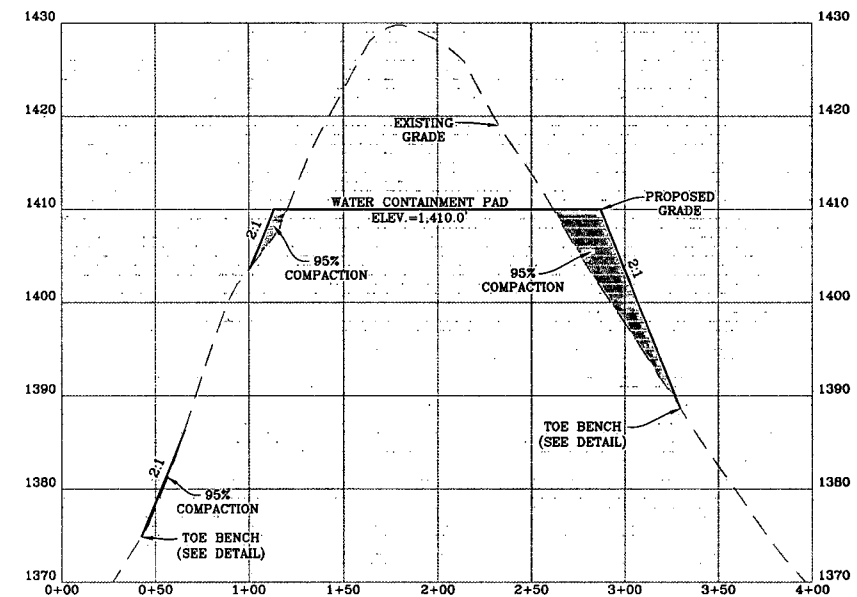
DATE: 04/28/2014
SCALE: AS SHOWN
SHEET 13 OF 23

WATER CONTAINMENT PAD SECTIONS

WATER CONTAINMENT PAD CROSS-SECTIONS ALONG BASELINE "B-B"
SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



WATER CONTAINMENT PAD CROSS-SECTIONS ALONG BASELINE "C-C"
SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



NOTE:

1. ALL FILL AREAS, INCLUDING ACCESS ROADS AND EXCESS MATERIAL STOCKPILES, SHALL BE "KEYED IN" AND COMPACTED IN 12" (MAXIMUM) LOOSE LIFT THICKNESS WITH A VIBRATING SHEEPSFOOT ROLLER TO 95% COMPACTION PER STANDARD PROCTOR. MOISTURE CONTENT WILL BE CONTROLLED IN ACCORDANCE WITH THE STANDARD PROCTOR TEST (ASTM-D698) RESULTS.
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LEGEND

X-SECTION GRID INDEX	---
X-SECTION GRID INTERMEDIATE	---
X-SECTION PROPOSED GRADE	---
X-SECTION EXISTING GRADE	---
X-SECTION WATER SURFACE	---
MATCHLINE	---

DATE	REVISION
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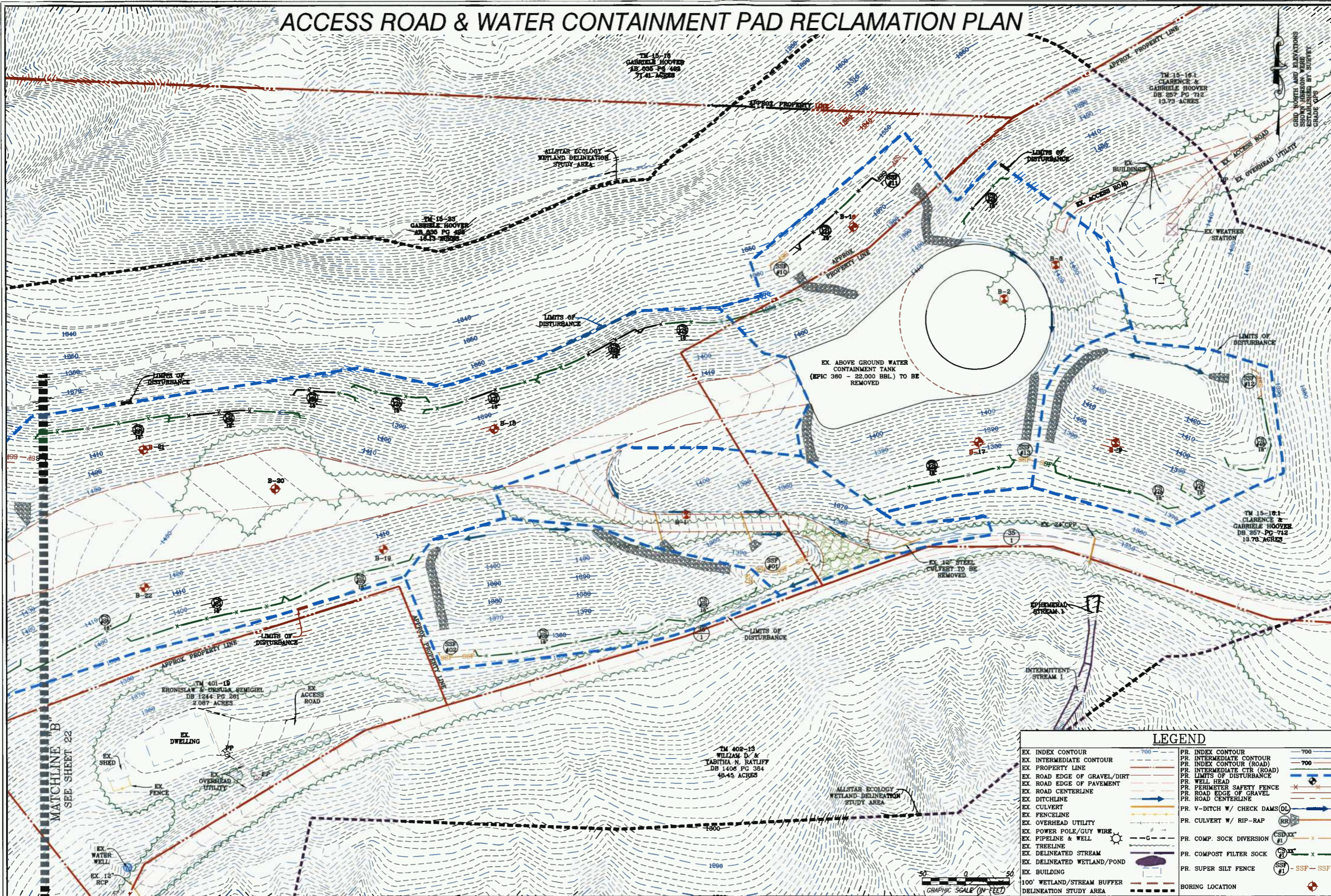


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WATER CONTAINMENT PAD SECTIONS
HENLEY
WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA



ACCESS ROAD & WATER CONTAINMENT PAD RECLAMATION PLAN



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DATE	REVISION
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ACCESS ROAD & WATER CONTAINMENT PAD RECLAMATION PLAN
HENLEY
WELL PAD & WATER CONTAINMENT PAD
GREENBRIER & UNION DISTRICTS
DODDRIDGE & HARRISON COUNTIES, WEST VIRGINIA



DATE: 04/28/2014
SCALE: 1" = 50'
SHEET 21 OF 23

LEGEND			
EX. INDEX CONTOUR	700	PR. INDEX CONTOUR	700
EX. INTERMEDIATE CONTOUR	700	PR. INTERMEDIATE CONTOUR	700
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. V-DITCH W/ CHECK DAMS (DL)	---
EX. POWER POLE/GUY WIRE	---	PR. CULVERT W/ RIP-RAP	---
EX. PIPELINE & WELL	---	PR. COMP. SOCK DIVERSION	---
EX. TRELLINE	---	PR. COMPOST FILTER SOCK	---
EX. DELINEATED STREAM	---	PR. SUPER SILT FENCE	---
EX. DELINEATED WETLAND/POND	---	PR. BORING LOCATION	---
EX. BUILDING	---	DELINEATION STUDY AREA	---

