

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: #14-294 ~ Antero Resources ~
Lauren Well Pad**

Date Approved: 10/10/2014

Expires: N/A

Issued to: Antero Resources

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

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

**Project Address: Grant District
Lat/Long: 39.345551N/80.669877W**

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

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

Date: 10/10/2014

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 9th day of October, 2014

Antero Resources

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

Grant District

39.345551N/80.669877W

Permit #14-294 Laureen 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 6, 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

14-294

FILED



2014 OCT -9 PM 1:25

October 8, 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 Lauren Well Pad. Our project is located in Doddridge County, Grant District and per FIRM map #54017C0135C this location is **not** within the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- WV Flood Tool Map
- FIRM Map
- Lauren Construction Plans

If you have any questions please feel free to contact me at (304) 842-4008.

Thank you in advance for your consideration.

Sincerely,

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

Emily Kijowski
Floodplain Engineer
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 September 19, 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:

- | | | | | | | | |
|--------------------------|------|--------------------------|--------|--------------------------|----------|--------------------------|------------|
| <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): _____

SIGNATURE:  _____ DATE: September 19, 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: _____

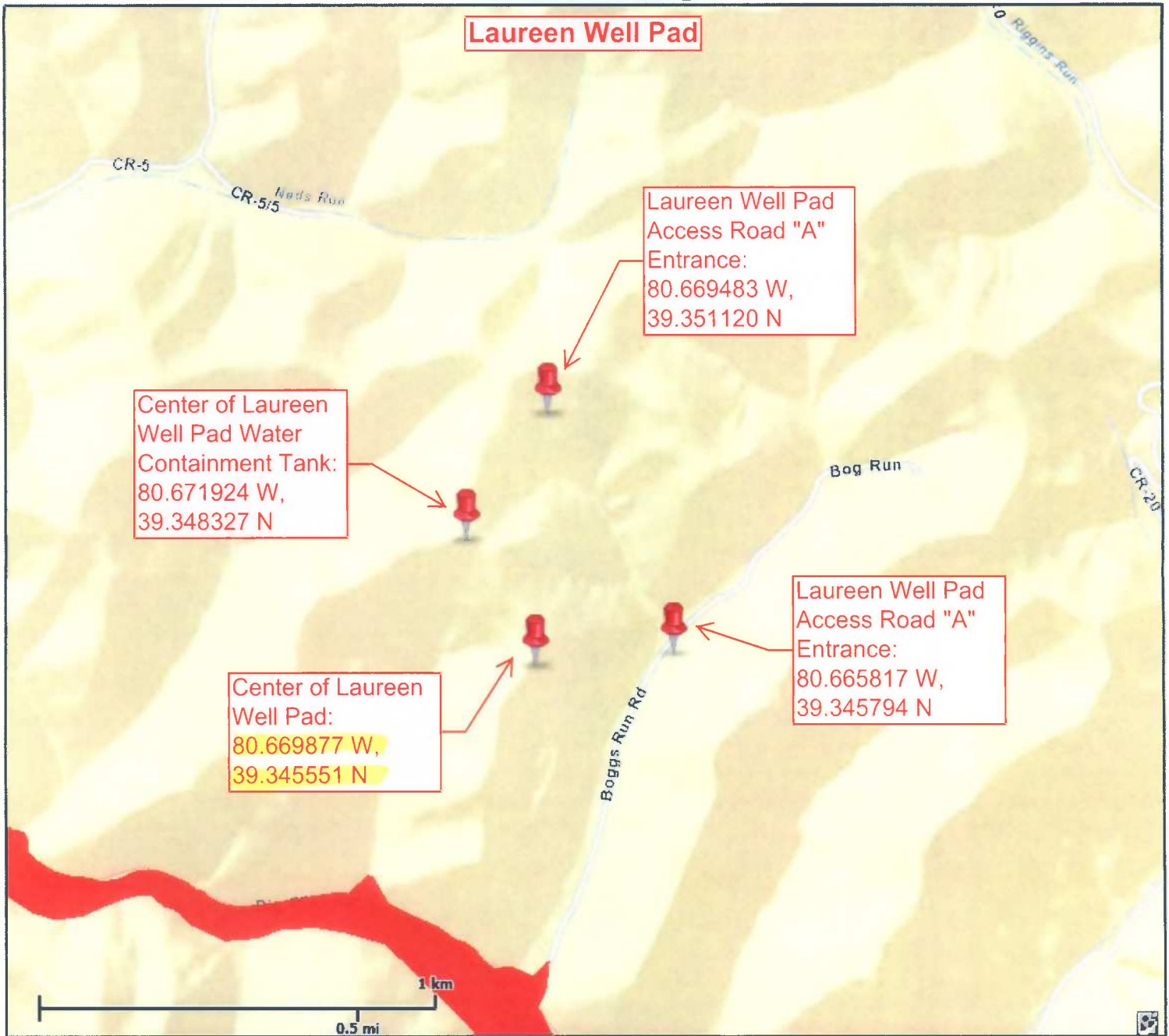
OWNER'S ADDRESS: _____

**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 9/18/2014

 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
14-294

was published in said paper for *2*

successive weeks beginning with the issue
of *October 14th* 2014 and
ending with the issue of

October 21st 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 *23rd* DAY

OF *October* 2014

NOTARY PUBLIC

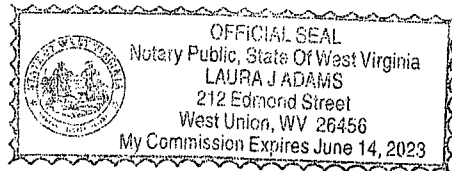
Laura Adams

LEGAL ADVERTISEMENT
Doddridge County
Floodplain Permit Application

Please take notice that on the 9th day of October, 2014 Antero Resources filed an application for a Floodplain Permit to develop land located at or about Grant District 39.345551N/80.669877W Permit # 14-294 Laureen 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 6, 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

10-14-21b



FIRM EXHIBIT



LANDOWNER TABULATION

<p>A</p> <p>TM 9-16 JOSEPHINE J. DONNAHOE WB 031 PG 004 36.25 ACRES ROUTE 2 BOX 175 WEST UNION, WV 26456</p>	<p>D</p> <p>TM 7-5 DAVID A. HOSKINSON DB 168 PG 787 10.23 ACRES 1968 SMITHTON ROAD WEST UNION, WV 26456</p>	<p>G</p> <p>TM 10-7.1 THOMAS P. ROMINE WB 028 PG 028 30 ACRES 115 ELLIS AVENUE ELKINS, WV 26241</p>	<p>J</p> <p>TM 9-17 SUSAN B. (BOGGS) TRAVERS DB 275 PG 096 49.84 ACRES 1 FIRST AMERICAN WAY WESTLAKE, TX 76262</p>
<p>B</p> <p>TM 9-6 JOSEPHINE J. DONNAHOE WB 031 PG 004 17 ACRES ROUTE 2 BOX 175 WEST UNION, WV 26456</p>	<p>E</p> <p>TM 10-2 NORMAN I. & VICTORIA D. SINES DB 264 PG 430 200.53 ACRES 7126 GREENBANK ROAD BALTIMORE, MD 21220</p>	<p>H</p> <p>TM 10-7.2 JACK E. JR. & MARY B. BORING, TRUSTEES BORING FAMILY TRUST DB 264 PG 091 35 ACRES ROUTE 2 BOX 183 WEST UNION, WV 26456</p>	
<p>C</p> <p>TM 10-1 JOSEPHINE J. DONNAHOE WB 031 PG 004 23.14 ACRES ROUTE 2 BOX 175 WEST UNION, WV 26456</p>	<p>F</p> <p>TM 10-2.1 NORMAN I. & VICTORIA D. SINES DB 299 PG 585 1.36 ACRES 7126 GREENBANK ROAD BALTIMORE, MD 21220</p>	<p>I</p> <p>TM 10-6 LAUREEN D. KELLEY DB 205 PG 695 45.52 ACRES 4855 BIG FLINT ROAD WEST UNION, WV 26456</p>	

NFIP

PANEL 0135C

FIRM

FLOOD INSURANCE RATE MAP

DODDRIDGE COUNTY,

WEST VIRGINIA

AND INCORPORATED AREAS

PANEL 135 OF 325

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0135	C

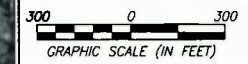
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
54017C0135C

MAP REVISED
OCTOBER 4, 2011

Federal Emergency Management Agency

FLOODPLAIN NOTE
THE PROPOSED SITE IS LOCATED IN FLOOD ZONE "X" PER FEMA FLOOD MAP #54017C0135C



REVISION	DATE

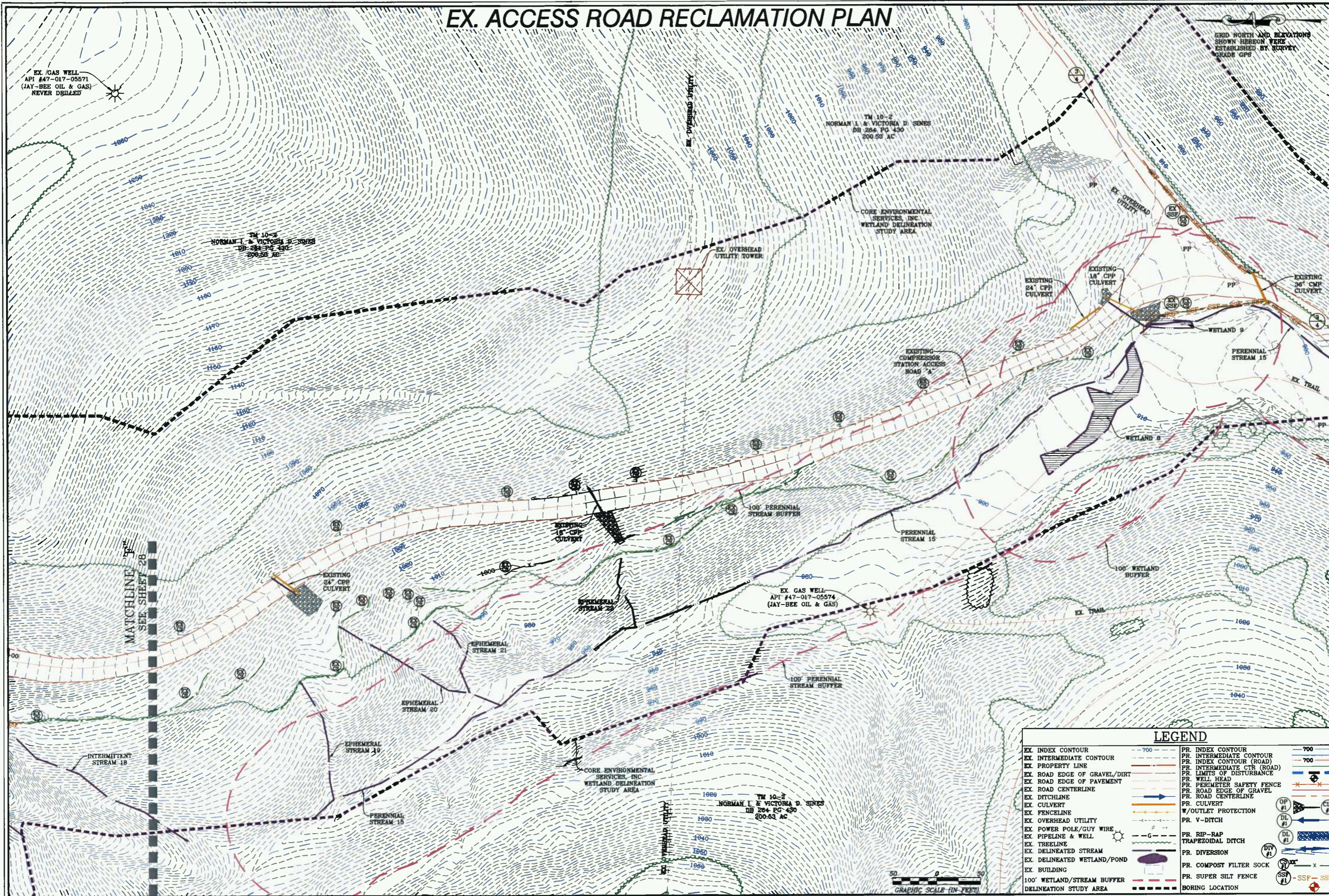
Antero
Resources

THIS DOCUMENT WAS PREPARED FOR:
ANTERO RESOURCES CORPORATION

FIRM EXHIBIT
LAUREEN
WELL PAD & WATER CONTAINMENT PAD
GRANT DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



EX. ACCESS ROAD RECLAMATION PLAN



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

REVISION	DATE

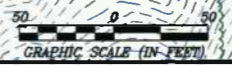
Antero Resources
THIS DOCUMENT WAS PREPARED FOR:
ANTERO RESOURCES CORPORATION

EX. ACCESS ROAD RECLAMATION PLAN
LAUREN
WELL PAD & WATER CONTAINMENT PAD
GRANT DISTRICT
DODDRIIDGE COUNTY, WEST VIRGINIA



DATE: 07/18/2014
SCALE: 1" = 50'
SHEET 27 OF 32

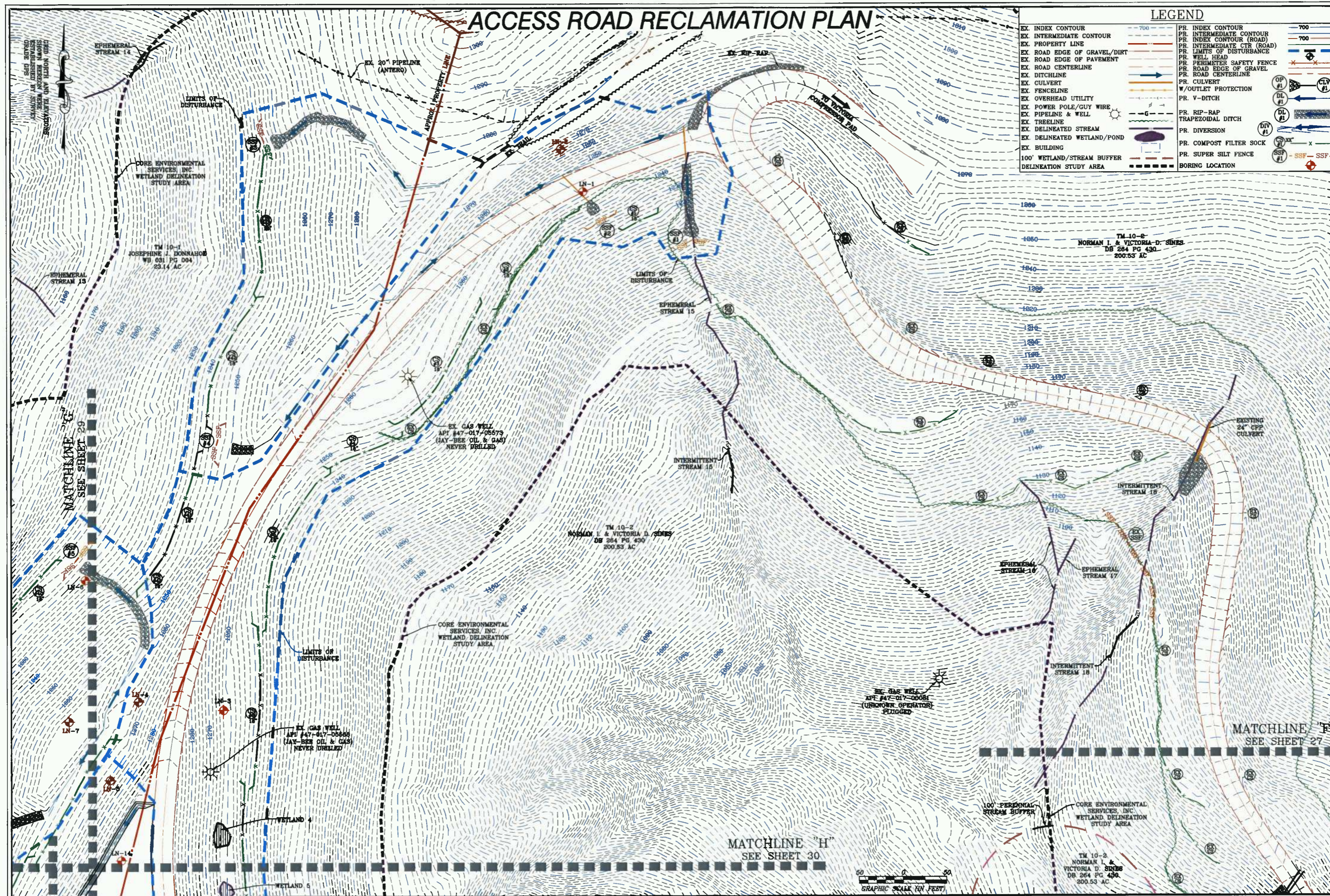
LEGEND	
EX INDEX CONTOUR	PR INDEX CONTOUR
EX INTERMEDIATE CONTOUR	PR INTERMEDIATE CONTOUR
EX PROPERTY LINE	PR INDEX CONTOUR (ROAD)
EX ROAD EDGE OF GRAVEL/DIRT	PR LIMITS OF DISTURBANCE
EX ROAD EDGE OF PAVEMENT	PR PERIMETER SAFETY FENCE
EX ROAD CENTERLINE	PR ROAD EDGE OF GRAVEL
EX DITCHLINE	PR ROAD CENTERLINE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



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. FENCELINE | PR. ROAD EDGE OF GRAVEL |
| EX. OVERHEAD UTILITY | PR. ROAD CENTERLINE |
| EX. PIPELINE & GUY WIRE | PR. CULVERT |
| EX. TRELINER | W/OUTLET PROTECTION |
| EX. DELINEATED STREAM | PR. V-DITCH |
| EX. DELINEATED WETLAND/POND | PR. RIP-RAP |
| EX. BUILDING | TRAPEZOIDAL DITCH |
| 100' WETLAND/STREAM BUFFER | PR. DIVERSION |
| DELINEATION STUDY AREA | PR. COMPOST FILTER SOCK |
| | PR. SUPER SILT FENCE |
| | BORING LOCATION |



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

REVISION	DATE

Antero Resources
THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

ACCESS ROAD RECLAMATION PLAN
LAUREN
WELL PAD & WATER CONTAINMENT PAD
GRANT DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

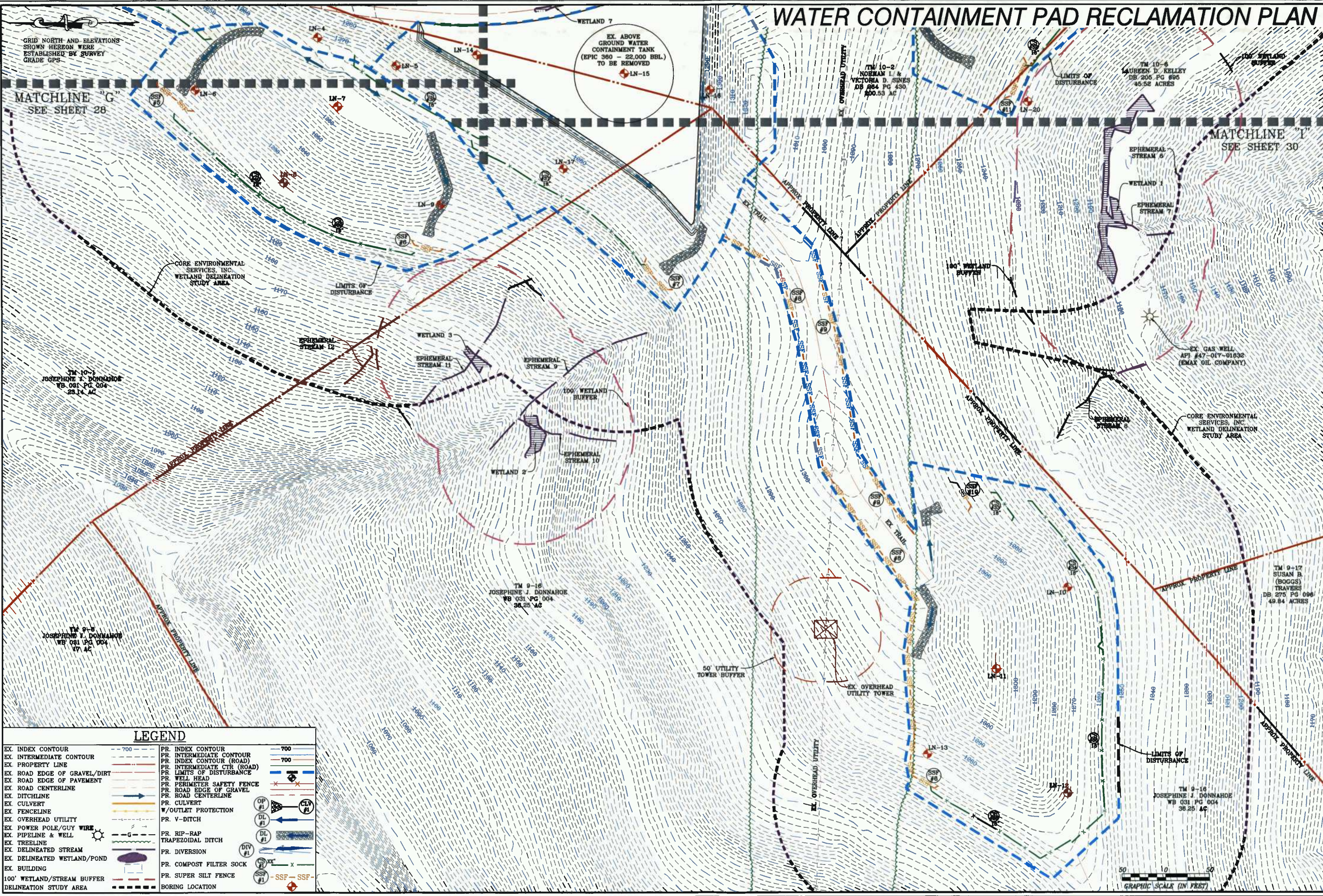


DATE: 07/18/2014
SCALE: 1" = 50'
SHEET 28 OF 32

MATCHLINE "H"
SEE SHEET 30



WATER CONTAINMENT PAD RECLAMATION PLAN



GRID NORTH AND ELEVATIONS SHOWN HEREON WERE ESTABLISHED BY SURVEY GRADE GPS

EX. ABOVE GROUND WATER CONTAINMENT TANK (EPIC 360 - 22,000 BBL.) TO BE REMOVED LN-15

MATCHLINE "G" SEE SHEET 28

MATCHLINE "I" SEE SHEET 30

LEGEND

EX. INDEX CONTOUR	--- 700 ---	PR. INDEX CONTOUR	--- 700 ---
EX. INTERMEDIATE CONTOUR	--- 700 ---	PR. INTERMEDIATE CONTOUR	--- 700 ---
EX. PROPERTY LINE	---	PR. PROPERTY LINE	---
EX. ROAD EDGE OF GRAVEL/DIRT	---	PR. ROAD EDGE OF GRAVEL/DIRT	---
EX. ROAD EDGE OF PAVEMENT	---	PR. ROAD EDGE OF PAVEMENT	---
EX. ROAD CENTERLINE	---	PR. ROAD CENTERLINE	---
EX. DITCHLINE	---	PR. DITCHLINE	---
EX. CULVERT	---	PR. CULVERT	---
EX. FENCELINE	---	PR. FENCELINE	---
EX. OVERHEAD UTILITY	---	PR. OVERHEAD UTILITY	---
EX. POWER POLE/GUY WIRE	---	PR. POWER POLE/GUY WIRE	---
EX. PIPELINE & WELL	---	PR. PIPELINE & WELL	---
EX. TREELINE	---	PR. TREELINE	---
EX. DELINEATED STREAM	---	PR. DELINEATED STREAM	---
EX. DELINEATED WETLAND/POND	---	PR. DELINEATED WETLAND/POND	---
EX. BUILDING	---	PR. BUILDING	---
100' WETLAND/STREAM BUFFER	---	PR. 100' WETLAND/STREAM BUFFER	---
DELINEATION STUDY AREA	---	PR. DELINEATION STUDY AREA	---
		OP #1	OP #2
		DL #1	DL #2
		DI #1	DI #2
		SSP #1	SSP #2
		SSP #3	SSP #4
		SSP #5	SSP #6
		SSP #7	SSP #8
		SSP #9	SSP #10
		SSP #11	SSP #12
		SSP #13	SSP #14
		SSP #15	SSP #16
		SSP #17	SSP #18
		SSP #19	SSP #20
		SSP #21	SSP #22
		SSP #23	SSP #24
		SSP #25	SSP #26
		SSP #27	SSP #28
		SSP #29	SSP #30
		SSP #31	SSP #32
		SSP #33	SSP #34
		SSP #35	SSP #36
		SSP #37	SSP #38
		SSP #39	SSP #40
		SSP #41	SSP #42
		SSP #43	SSP #44
		SSP #45	SSP #46
		SSP #47	SSP #48
		SSP #49	SSP #50
		SSP #51	SSP #52
		SSP #53	SSP #54
		SSP #55	SSP #56
		SSP #57	SSP #58
		SSP #59	SSP #60
		SSP #61	SSP #62
		SSP #63	SSP #64
		SSP #65	SSP #66
		SSP #67	SSP #68
		SSP #69	SSP #70
		SSP #71	SSP #72
		SSP #73	SSP #74
		SSP #75	SSP #76
		SSP #77	SSP #78
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		SSP #81	SSP #82
		SSP #83	SSP #84
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		SSP #87	SSP #88
		SSP #89	SSP #90
		SSP #91	SSP #92
		SSP #93	SSP #94
		SSP #95	SSP #96
		SSP #97	SSP #98
		SSP #99	SSP #100

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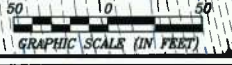
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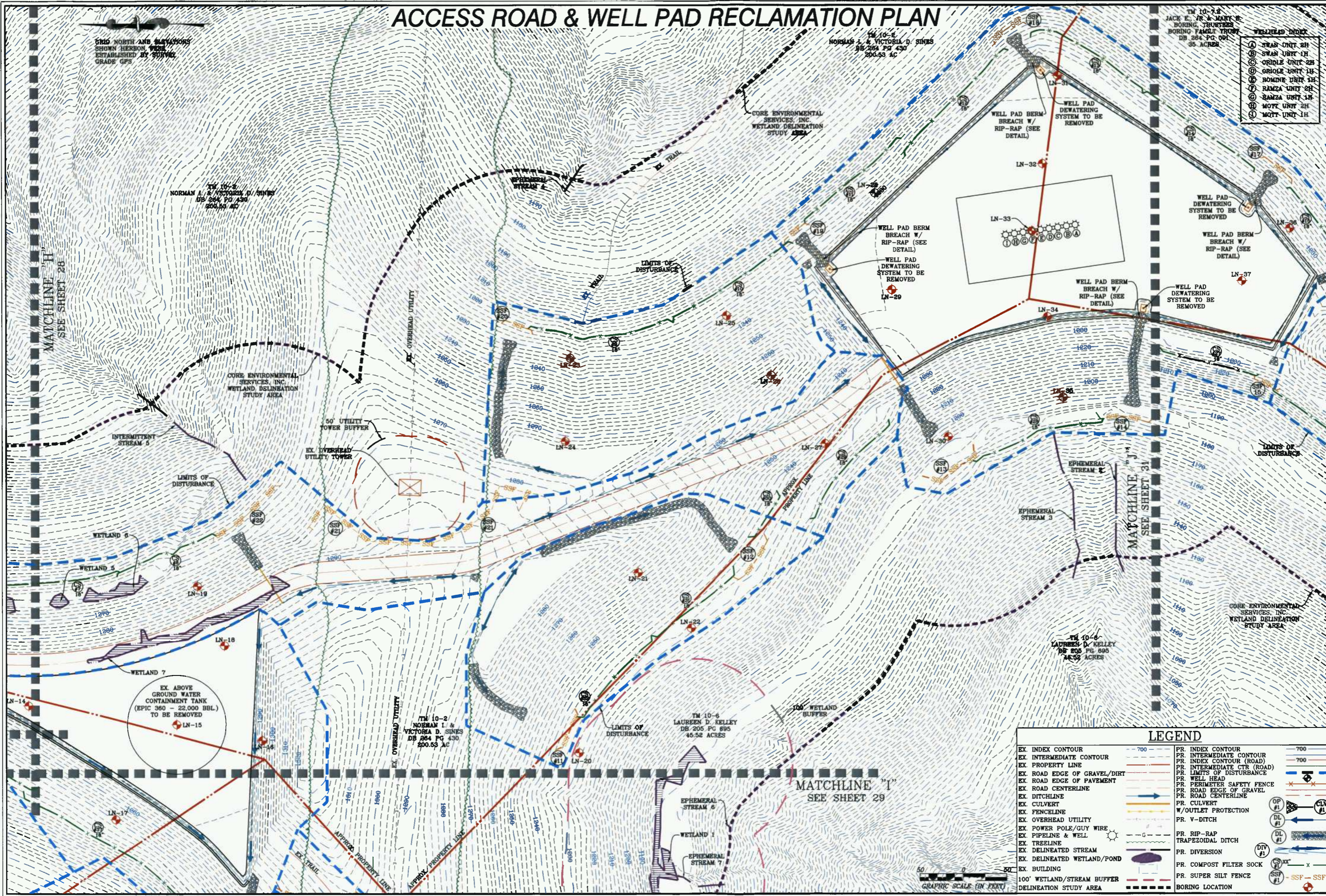
WATER CONTAINMENT PAD RECLAMATION PLAN
LAUREN
WELL PAD & WATER CONTAINMENT PAD
GRANT DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 07/18/2014
SCALE: 1" = 50'
SHEET 29 OF 32



ACCESS ROAD & WELL PAD RECLAMATION PLAN



- WELLHEAD INDEX**
- Ⓐ SWAN UNIT 2H
 - Ⓑ SWAN UNIT 1H
 - Ⓒ ORIOLE UNIT 2H
 - Ⓓ ORIOLE UNIT 1H
 - Ⓔ ROMINE UNIT 1H
 - Ⓕ RAMZA UNIT 2H
 - Ⓖ RAMZA UNIT 1H
 - Ⓗ MOTT UNIT 2H
 - Ⓘ MOTT UNIT 1H

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. CULVERT | --- | |
| EX. POWER POLE/GUY WIRE | --- | | PR. W/OUTLET PROTECTION | --- | |
| EX. PIPELINE & WELL | --- | | PR. V-DITCH | --- | |
| EX. TRELLINE | --- | | 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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ACCESS ROAD & WELL PAD RECLAMATION PLAN

LAUREN
WELL PAD & WATER CONTAINMENT PAD
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DODDRIDGE COUNTY, WEST VIRGINIA



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SHEET 30 OF 32

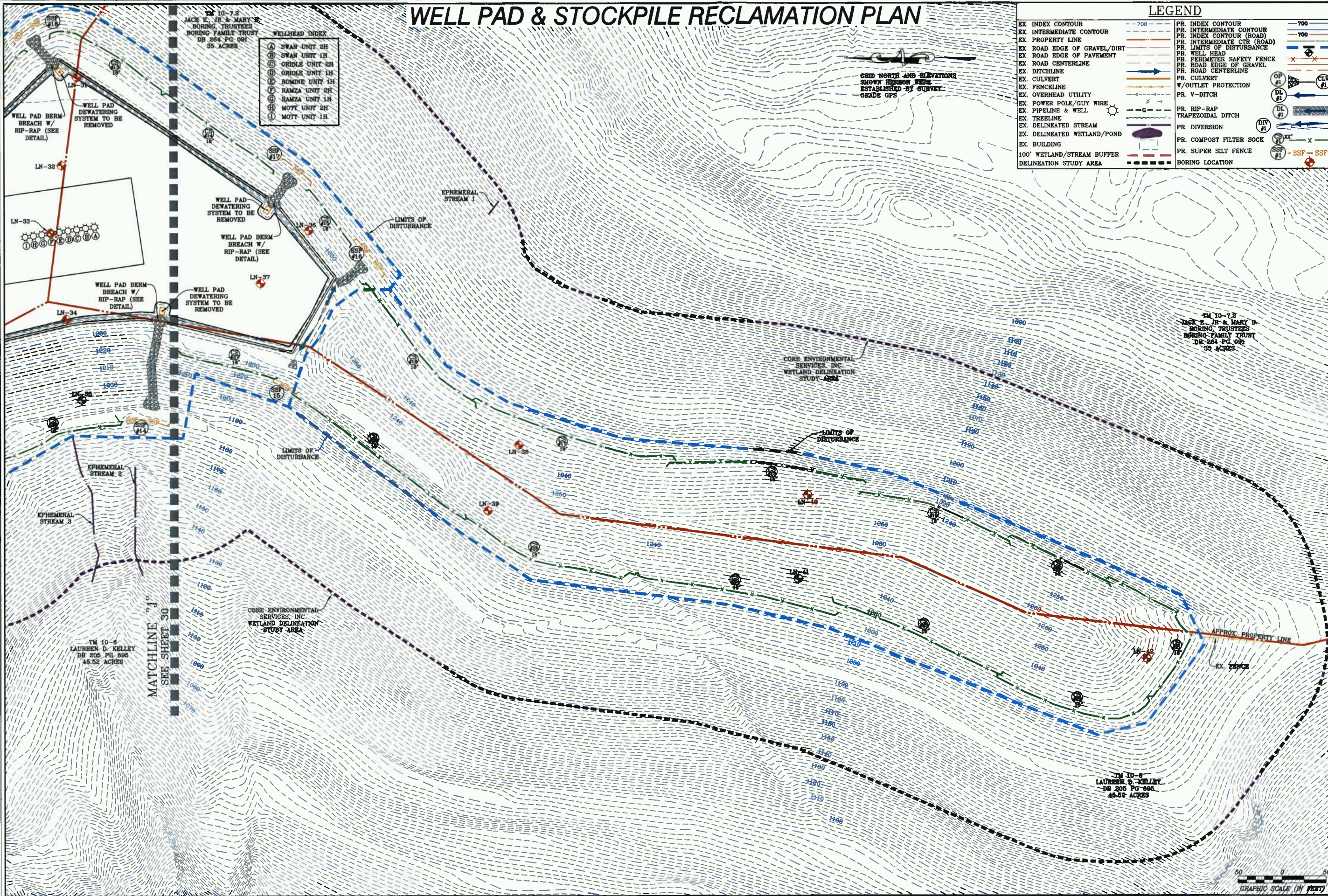
WELL PAD & STOCKPILE RECLAMATION PLAN

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. V-DITCH	
EX. PIPELINE & WELL	PR. RIP-RAP	
EX. TREELINE	PR. TRAPEZOIDAL DITCH	
EX. DELINEATED STREAM	PR. DIVERSION	
EX. DELINEATED WETLAND/POND	PR. COMPOST FILTER SOCK	
EX. BUILDING	PR. SUPER SILT FENCE	
100' WETLAND/STREAM BUFFER	DELIMITATION STUDY AREA	
	BORING LOCATION	

GRID NORTH AND ELEVATIONS SHOWN THROUGHOUT ESTABLISHED BY SURVEY GRADE GPS

- WELLHEAD INDEX**
- (A) SWAN UNIT 2H
 - (B) SWAN UNIT 1H
 - (C) ORIOLE UNIT 2H
 - (D) ORIOLE UNIT 1H
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