

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to **CESO, Inc. CONSOL, & CNX Gas Company, LLC**, 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: #14-250 ~ CNX Gas Company, LLC ~
Red-Orange Waterline**

Date Approved: 11/13/2014

Expires: 11/13/2015

Issued to: CESO, CONSOL, CNX Gas Company, LLC

**POC: Natalie Hooton
412-221-2236**

**Company Address: 800 Bursca Drive STE 804
Bridgeville, PA 15017-1451**

**Project Address: Southwest District
Lat/Long: 39.187261N/80.790683W to 39.187741N/80.782164W**

Purpose of development: Waterline construction.

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

Date: 11/13/2014

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

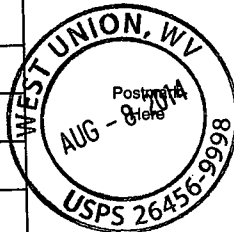
U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

7013 2250 0001 6914 9091

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	



#14-250
 I.L. Ike Morris
 PO Box 397
 Glenville, WV 26351

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-250
 I.L. Ike Morris
 PO Box 397
 Glenville, WV 26351

2. Article Number
(Transfer from service label)

7013 2250 0001 6914 9091

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

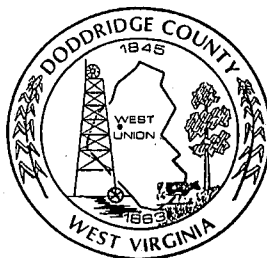
B. Received by *(Printed Name)*
 Jackie Swiger

C. Date of Delivery
 8-11-14

Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? *(Extra Fee)* Yes



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Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 30th day of July, 2014

CNX Gas Company LLC

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

39.187261N / 80.790683W to 39.187741N / 80.782164W

Permit #14-250 Red-Orange Waterline

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **August 27, 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

CNX Gas Company LLC
 P. O. Box 305
 Canonsburg, PA 15317-0305
 Phone: 724-485-4031

DODDRIDGE COUNTY COMMISSION

Vendor No. 824536
 Check No. 2780029952

Invoice Number	Invoice Date	Invoice Amount	Discount Amount	Net Amount
RED/ORG WATERLIN	07/23/2014	1,772.50	0.00	1,772.50
		Check Total.....		\$ 1,772.50

14-250
 CNX
 1

THIS CHECK IS TENDERED IN FULL SETTLEMENT OF YOUR INVOICES LISTED HEREON.

PLEASE DETACH REMITTANCE BEFORE CASHING.

Doddridge County, West Virginia

RECEIPT NO: 2693

DATE: 2014/08/06

FROM: CNX GAS COMPANY

AMOUNT: \$ 1,772.50

ONE THOUSAND SEVEN HUNDRED SEVENTY TWO DOLLARS AND 50 CENTS

FOR: #14-250 CNX GAS RED ORANGE WATERLINE

02780029952 FP-BUILDING PERMITS

020-318

TOTAL: \$1,772.50

MICHAEL HEADLEY
 SHERIFF & TREASURER

MEC
 CLERK

NO. 215-058

INVOICE

West Virginia Division of Natural Resources

Wildlife Resources Section, P.O. Box 67, Elkins, WV 26241

Attention: Ms. Patty Fordyce

In Account With: CESO, Inc.
800 Bursca Drive, Suite 804
Bridgeville, PA 15017-1451

Date: August 7, 2014

Attention: Mr. Andrew Longenecker

For the retrieval and compilation of information on rare, threatened and endangered species and sensitive habitats for the proposed Red to Orange Waterline project in Doddridge County, WV.

AMOUNT DUE: \$75.00

Make check payable to WV Division of Natural Resources. **Please reference the invoice number on your check.** Mail to the above address and to the attention of Ms. Fordyce.

FILED

2014 JUL 30 PM 12:55

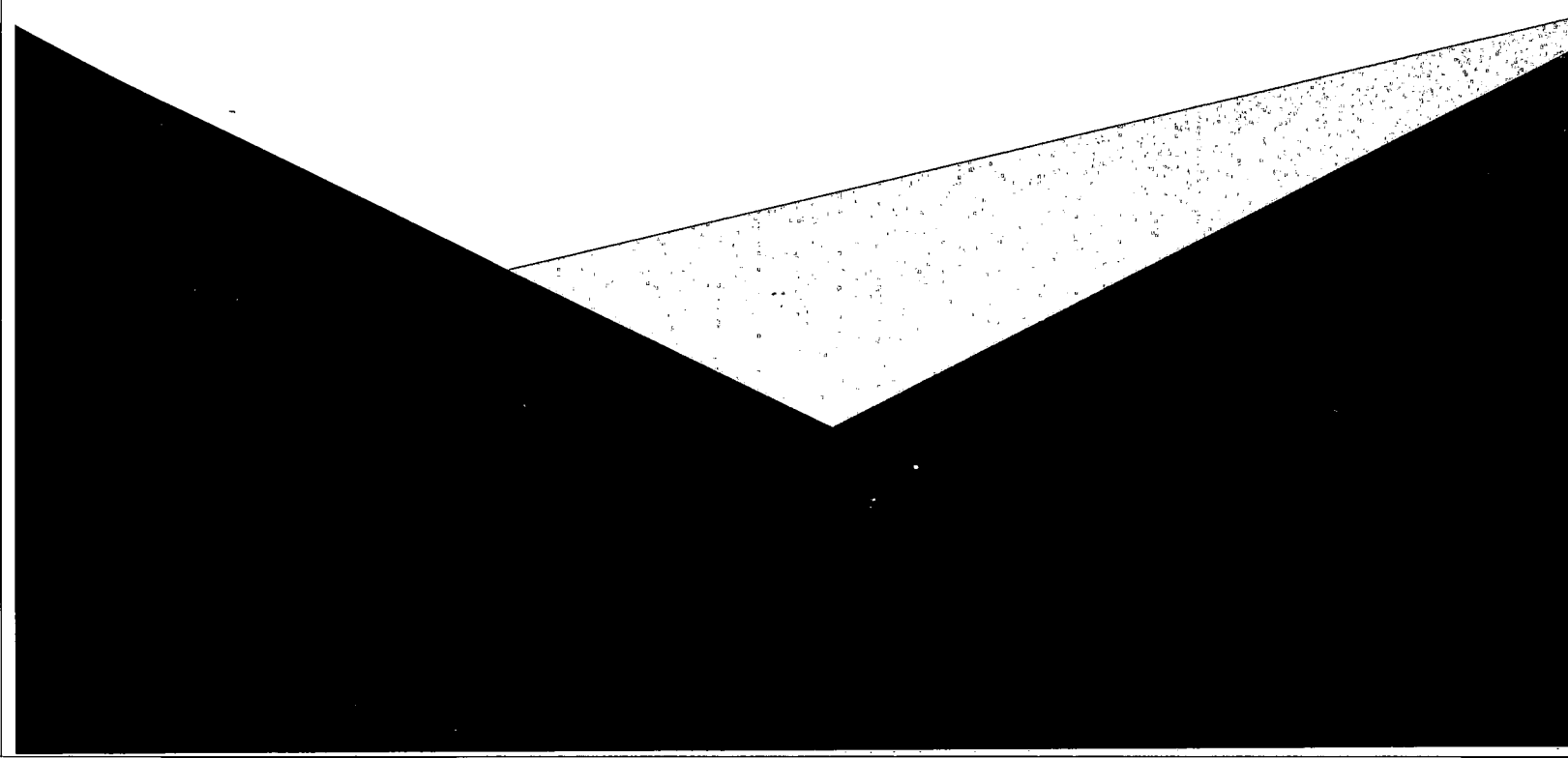


DEPT. OF ROADS
COUNTY CLERK
DODDRIDGE COUNTY, WV

CREATION † COMPLETION

**CNX Gas-
Red-Orange Waterline**

Doddridge County
Floodplain Permit Application
and Fees





NATALIE HOOTON, M.S.

Staff Biologist

(412) 221-2236

(412) 639-2231 Cell, (412) 221-2267 Fax

hooton@cesoinc.com

www.cesoinc.com

*800 Bursca Drive, Suite 804
Bridgeville, Pennsylvania 15017-1451*



CREATION TO COMPLETION

*Engineering • Architecture • Survey
Construction Mgt • Environmental*



800 Bursca Drive, Suite 804
 Bridgeville, Pennsylvania 15017-1451
 (412) 221-2236
 www.cesoinc.com

14-250

July 29, 2014

Mr. Edwin "Bo" Wriston
 Doddridge County Floodplain Manager
 118 East Court Street
 West Union, WV 26456

**RE: CNX Gas- Red-Orange Waterline
 Doddridge County Floodplain Permit**

2014 JUL 30 PM 12:55
 BETH A. JAMES
 COUNTY CLERK
 DODDRIDGE COUNTY, WV

FILED

Dear Mr. Wriston:

CESO, Inc. is pleased to submit this information for a Doddridge County Floodplain Permit, for the proposed Red-Orange Waterline. **CNX Gas Company, LLC (CNX)**, is proposing to construct a new temporary water transport system and associated construction access roads within a portion of Doddridge County, West Virginia. The proposed new waterlines will be approximately 0.48-miles connecting a water withdrawal point to a planned water storage tank. The proposed withdrawal point will be located east of the intersection of South Fork Hughes River Road and Upper Run Road near New Milton, West Virginia. The approximate coordinates for the withdrawal point of is 39.187261 N latitude, 80.790683 W longitude (NAD83) and the terminus at approximate coordinates 39.187741 N latitude, 80.782164 W longitude (NAD83).

CESO, Inc. has identified a total of one (1) unnamed waterway crossing in Doddridge County as a result of this project. Additionally, water will be withdrawal from the South Fork Hughes River within Doddridge County as identified above. The Doddridge County Development Permit Application further describing project characteristics is presented in Attachment 1. According to the FEMA Flood Insurance Rate Maps, one waterway within the project area, South Fork Hughes River, occurs within the FEMA 100-year floodplain. A map depicting the proposed alignment location as well as a table and map identifying stream crossings are also provided.

Waterway activity associated with the Red-Orange waterline project will be the result of one (1) temporary intake installation and one (1) crossing using cribbing and a temporary timber mat bridge. However, all waterways will be returned to their pre-disturbance plan, profile, and dimension after the pipe has been installed. In addition, proper construction sequencing and implementation of an approved erosion and sediment control plan will ensure water quality impacts are minimized throughout the project area and the proposed activities are in compliance with Nationwide Permit General Conditions and Regional General Conditions.

Should you have any questions or comments please don't hesitate to contact me at 412-221-2236 ext. 2009 or through email at hooton@cesoinc.com.

Sincerely,

CESO, Inc.

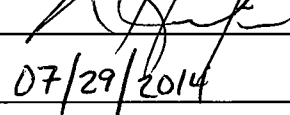
Natalie Hooton
 Staff Biologist



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  For CESO, Inc.
DATE 07/29/2014

SECTION 2: PROPOSED 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: CNX Gas Company, LLC
ADDRESS: c/o Adam White, One Energy Drive PO Box 1248 Jane Lew, WV 26378
TELEPHONE NUMBER: 724.627.1300

CONTRACTOR NAME: _____
ADDRESS: _____
TELEPHONE # _____
WV CONTRACTOR LICENCE # _____

ENGINEER'S NAME: CESO, Inc.
ADDRESS: 2800 Corporate Exchange Drive, Suite 160, Columbus, OH 43231
TELEPHONE NUMBER: 614.794.7080

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.
DISTRICT: Please see Attachment A.
LAND BOOK DESCRIPTION: Please see Attachment A.
DEED BOOK REFERENCE: Please see Attachment A.

TAX MAP REFERENCE: Please see Attachment A.

EXISTING BUILDINGS/USES OF PROPERTY: Please see Attachment A.

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Attachment A.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Attachment A.

To avoid delay in processing the application, please provide enough information to easily identify the project location.

Cone Gathering, LLC (Cone), is proposing to construct new temporary aboveground waterline and associated construction access roads within a portion of southwestern Doddridge County, West Virginia to support non-conventional gas exploration. The temporary withdrawal point will be located southwest of the intersection of State Route 18 and County Route 40, near Blandville, West Virginia. The approximate coordinates of the withdrawal point are 39.257269N latitude, -80.713153 W longitude (NAD83). From the withdrawal point, the waterline will transport water southeast to the OX11 well pad (39.170959 N Latitude, 80.762926 W Longitude (NAD83)).

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

ACTIVITY	STRUCTURAL TYPE
<input 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 Alteration (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 (ENGINEERING PLANS MUST BE SIGNED AND SEALED).
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. Please see Attachment B and Attachment C.

ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT/ PROPOSED CONSTRUCTION PROJECT WITHIN THE FLOODPLAIN \$ 254,500.00

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: Please see Attachment D.
ADDRESS: Please see Attachment D.

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: Refer to Attachment D.
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): Natalie Hooton for CESO, Inc

SIGNATURE: 

DATE: 07/29/2014

After completing SECTION 2, APPLICANT should submit form and fees to Clerk of Doddridge County Court 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 .
Stream name _____
Profile # _____

Unavailable

The proposed development is located in a floodway.

See section 4 for additional instructions.

SIGNED _____ DATE _____

SECTION 4: ADDITIONAL INFORMATION REQUIRED FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (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 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 proofing 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 10 lots or 2 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).

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 _____



**RED-ORANGE WATERLINE
DODDRIDGE FLOODPLAIN PERMIT APPLICATION:
STREAM CROSSING TABLE**

Table 1. Stream Activity by Waterline Project

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Type of Crossing	Coordinates (NAD83) (dd)	Width (feet)	Crossing Size (linear feet)
G1	Perennial	South Fork Hughes River	Intake for Waterline	No crossing- Temporary Floating Intake Structure	39.187261, -80.790683	7.0	No crossing
G4	Ephemeral	UNT South Fork Hughes River	Aboveground Waterline	Cribbed and Timber Matted	39.187720, -80.782671	0.33	32



**Attachment A- Project Location-
Surface Owner Information**

TAX ID: 09-07-0010-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

DISTRICT: Southwest

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 230/ Page 307

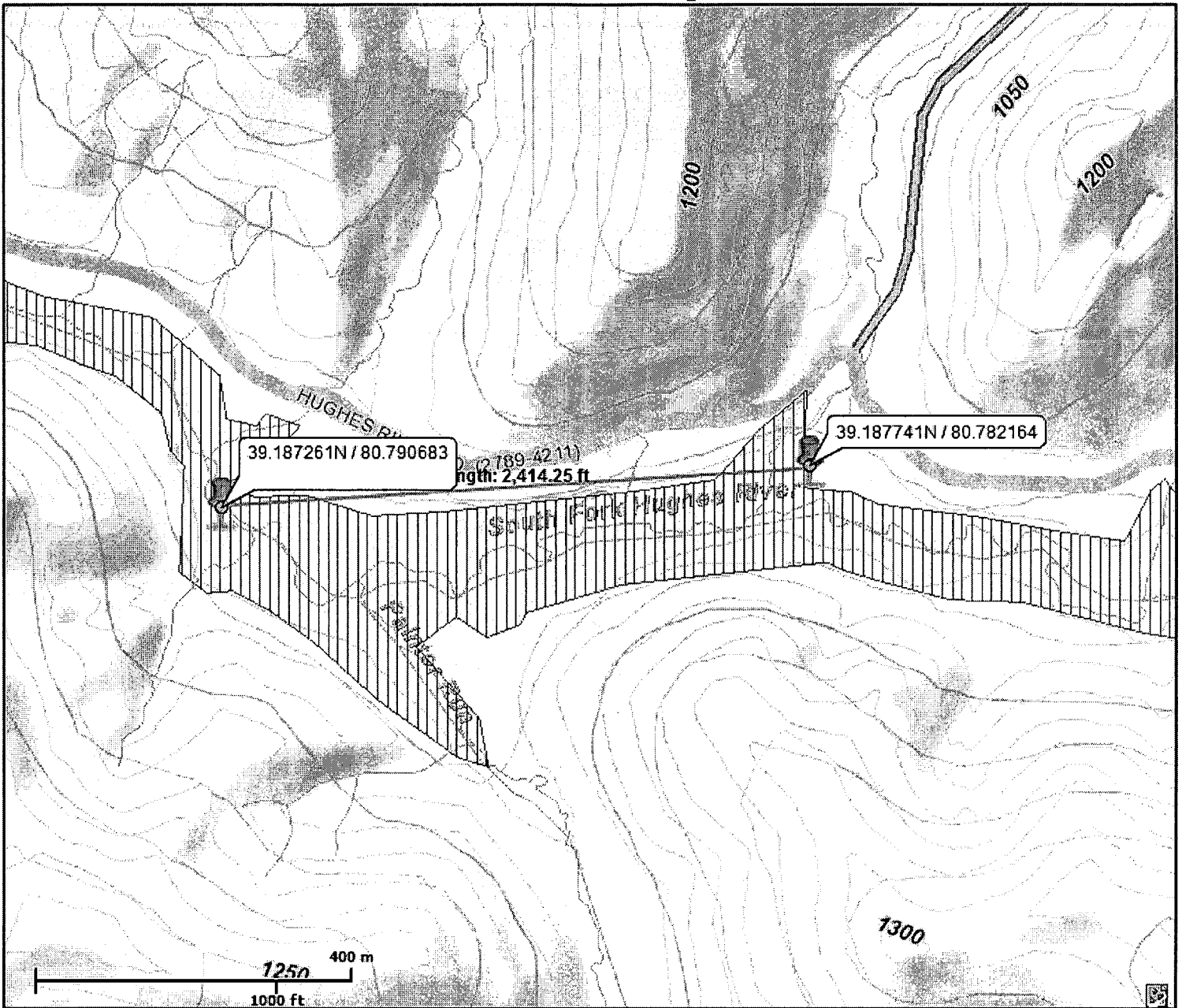
TAX MAP REFERENCE: MAP 10/ Parcel 2

EXISTING BUILDINGS/USES OF PROPERTY: There are currently several horizontal 6A wells with access roads located on the property. One residential (rented) structure is present on the property. The remaining portions of the parcel are forested and undeveloped.

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

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 8/1/2014

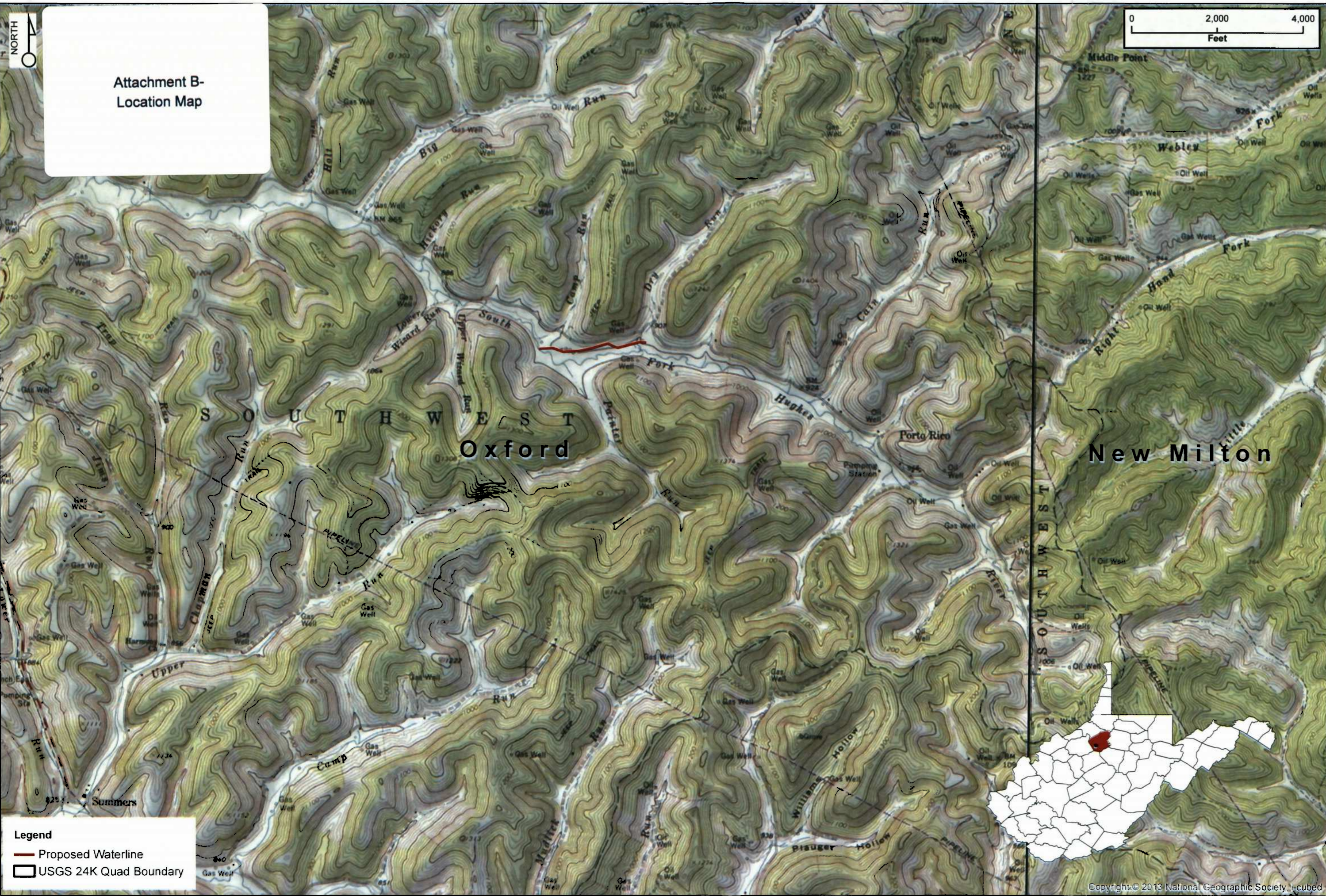
	Location of the mouse click		K—K Cross Section Line
	Approximate Study (Zone A)		810 Base Flood Elevation Line
	Detailed Study (Zone AE, AH, AO)		DFIRM Panel (Map) Index
	Floodway		
	Flood Water Depth (HEC-RAS)		

User Notes:
CNX Gas Red-Orange Waterline

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:
Advisory Flood Height: N/A
Water Depth: N/A
Elevation: N/A
Location (long, lat):
Location (UTM 17N):
FEMA Issued Flood Map:
Contacts:
CRS Information:
Flood Profile: No Profile
HEC-RAS Model: No Model
Parcel Number:



Attachment B-
Location Map

Legend
 — Proposed Waterline
 - - - USGS 24K Quad Boundary

0 2,000 4,000
Feet



Red to Orange Waterline
 Location Map - Oxford, WV Quad
 Doddridge County, West Virginia



Date: 07/08/2014
 By: G. Bergquist

Copyright © 2013 National Geographic Society, i-cubed

EROSION AND SEDIMENT CONTROL NARRATIVE:

PLAN DESIGNER: CESO, INC.
2800 CORPORATE EXCHANGE DRIVE, SUITE 160
COLUMBUS, OH 43231

OWNER: CNX GAS
ONE ENERGY DRIVE
JANE LEW, WV 26378

CONTACT: BENJAMIN J. MILLER, PE
P: 614-794-7080
E: MILLER@CESOINC.COM

CONTACT: ADAM WHITE
P: 240-506-7299
E: ADAMWHITE@CONSOLENERGY.COM

WV DEP PERMIT #: XXXXXXXX

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF CONSTRUCTING TWIN WATER LINES IN DODDRIDGE COUNTY, WEST VIRGINIA. 2.36 ACRES TOTAL PROJECT AREA. 0 ACRES PROPOSED IMPERVIOUS AREA. 2.36 ACRES DISTURBED. 0 CY CUT/0 CY FILL (BALANCED)

EXISTING SITE CONDITIONS: THE TOPOGRAPHY OF THIS SITE CONSISTS OF MILDLY SLOPED OPEN FIELDS. THIS SITE DRAINS TO S FORK HUGHES RIVER.

ADJACENT AREAS: ADJACENT AREAS THAT MAY BE AFFECTED BY SITE DISTURBANCE INCLUDE S FORK HUGHES RIVER RD AND STREAM G1, STREAM G3, STREAM G4, AND WETLAND G2. THE DRAINAGE PATH LEADING FROM THE SITE TO THE RECEIVING BODY OF WATER CONSISTS OF VEGETATED SWALES, EXISTING EROSIONAL FEATURES, AND TRIBUTARIES OF STREAMS.

CRITICAL AREAS: PIPELINE: STREAM G1 (S FORK HUGHES RIVER), WETLAND G2, AND STREAM G4.

REQUIREMENTS FOR WORKING IN OR NEAR CRITICAL AREAS CAN BE FOUND ON SHEETS 2-6.

SOILS:

Soil name	Soil Mapping Unit	Erodibility (K Factor, Whole Soil)	Settleability (Unavailable)	Permeability	Depth (cm)	Texture	Soil Structure (Unavailable)
MONONGAHELA SILT LOAM, 8 TO 15 PERCENT SLOPES	MoC	0.43	-	Moderately well drained	56	Silt loam	-
SENSABAUGH SILT LOAM	Se	0.37	-	Well drained	>200	Silt loam	-
SENSABAUGH SILT LOAM, 3 TO 8 PERCENT SLOPES, RARELY FLOODED	SeB	0.37	-	Well drained	>200	Silt loam	-
VANDALIA SILT LOAM, 15 TO 25 PERCENT SLOPES	VaD	0.32	-	Well drained	>200	Silt loam	-

*Data obtained from NRCS-USDA Web Soil Survey

EROSION PROBLEM AREAS: NO EROSIONAL PROBLEM AREAS ARE ANTICIPATED AS THE TERRAIN IS FAIRLY FLAT.

CONSTRUCTION STORMWATER POLLUTION PREVENTION ELEMENTS: THE SEDIMENT CONTROL PLAN SHOWS ALL CLEARING LIMITS AND PROPOSED SEDIMENT CONTROLS. THE GENERAL NOTES ADDRESS THE STABILIZATION OF SOILS, SLOPE PROTECTION, CONTROL OF OTHER POLLUTANTS, DEWATERING CONTROL, MAINTENANCE OF BMPs, MANAGEMENT OF THE PROJECT, AND STABILIZATION. TYPES OF BMPs USED ON THIS PROJECT INCLUDE FILTER SOCKS, SUPER SILT FENCE, AND SILT FENCE, AND TRENCH PLUGS. REFER TO SHEET 7 FOR LOCATIONS.

CONSTRUCTION PHASING AND SCHEDULE: THE CONSTRUCTION SEQUENCE FOR THIS PROJECT CAN BE FOUND ON SHEET 2. WET SEASON CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, EROSION & SEDIMENT CONTROL INSTALLATION, ACCESS ROAD CONSTRUCTION, TRENCH EXCAVATION, UTILITY PLACEMENT, BACKFILLING, AND OPEN CUTTING OF STREAMS. CONSTRUCTION RESTRAINTS FOR ENVIRONMENTALLY CRITICAL AREAS CAN BE FOUND ON SHEET 2.

ENGINEERING CALCULATIONS: ENGINEERING CALCULATIONS ARE NOT REQUIRED FOR THIS PROJECT.

TEMPORARY SEEDING CHART

Common Name	Scientific Name	Planting Dates	PLS Lbs/Acre
Annual Ryegrass	Lolium multiflorum	2/16-5/15, 8/1-11/1	40
Field Bromegrass	Bromus ciliatus	3/1-6/15, 8/1-9/15	40
Spring Oats	Avena sativa	3/1-6/15	100
Winter Rye	Secale cereale	8/15-2/28	170
Winter Wheat	Triticum aestivum	8/18-2/28	180
Japanese Millet	Echinochloa crusgalli	5/15-8/15	30
Redtop	Agrostis alba	3/1-6/15	10
Annual Ryegrass and Spring Oats	Lolium multiflorum, Avena sativa	3/1-6/15	30, 70
German, Foxtail Millet	Setaria italica	5/1-8/1	40
Hairy Vetch	Vicia villosa	8/15-4/1	60

PERMANENT SEEDING CHART

Seed Mix	Common Name	Scientific Name	PLS Lbs/Acre
O	Perennial Ryegrass	Lolium perenne	40
	Birdsfoot Trefoil	Lotus corniculatus	15
	Redtop	Agrostis alba	5
p	Serecia Lespedeza	Lespedeza cunata	40
	Orchardgrass	Dactylis glomerata	30
	Redtop	Agrostis alba	5

- ALL PERMANENT SEEDING SHALL CONFORM TO WV DEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, SECTION 3.10-1.
- SEED MIX O OR P SHALL BE USED FOR PERMANENT SEEDING.

- PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND BASINS.
- SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP. SMALL SEEDS, SUCH AS ANNUAL RYE, SHALL BE PLANTED NO MORE THAN A QUARTER INCH DEEP. OTHER GRASSES AND LEGUMES SHALL BE PLANTED NO MORE THAN A HALF INCH DEEP.
- TEMPORARY SEEDING CONDUCTED IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED WITH STRAW AND HAY ACCORDING TO THE STANDARD FOR MULCHING. HYDROMULCHES (FIBER MULCH) MAY NOT PROVIDE ADEQUATE TEMPERATURE AND MOISTURE CONTROL.

EROSION & SEDIMENT CONTROL PLAN NOTES

- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO THIS PLAN; WEST VIRGINIA GENERAL WATER POLLUTION CONTROL PERMIT; ANY AND ALL REQUIRED PERMITS, REPORTS, AND RELATED DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS MUST BECOME FAMILIAR WITH ALL OF THE ABOVE.
- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE EROSION CONTROL PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AND GRADE CHANGES TO THE SITE AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
- PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES WERE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
- TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER 3.10.
- PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER 3.11.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEEDED, AND CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY, NORTH AMERICAN GREEN, INC. OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.
- NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN DESIGNATED PIT OR DIKED AREAS, WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OFF-SITE WHEN THEY HARDEN. STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS. IN ADDITION, SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUEL AND CHEMICAL SPILLS MUST BE KEPT ON SITE.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE MOST OF THE DIRT AND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- DUST CONTROL USING APPROVED MATERIALS MUST BE PERFORMED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.

EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

- ALL CONTROL MEASURES STATED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO THE FOLLOWING:
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
 - SILT FENCES, AND CHECK DAMS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION IF DAMAGED. SEDIMENT ACCUMULATION MUST BE REMOVED WHEN SEDIMENT HEIGHT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE OR CHECK DAM.
 - SEDIMENTATION TRAPS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT MUST BE REMOVED FROM TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 40%.
 - MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES; THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE AS CONDITIONS DEMAND.
 - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
 - CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, INCLUDING SEDIMENT TRAPS AND STORM SEWER PIPES. SEDIMENT DEPOSITION DURING SITE STABILIZATION MUST ALSO BE REMOVED.
 - ALL ROCK CHANNEL PROTECTION MUST BE PLACED OVER GEOTEXTILE FILTER.
 - ROCK CHECK DAMS SHOULD BE ROUTINELY CLEANED ONCE SEDIMENT BEGINS TO APPEAR ON THE UPSTREAM SIDE OF THE ROCK.
 - CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.
 - AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.
 - EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
 - A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.
 - ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN WVDEP APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
 - THE CONTRACTOR SHALL CONTACT THE WVDEP, THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.

EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

ALL EROSION AND SEDIMENT CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

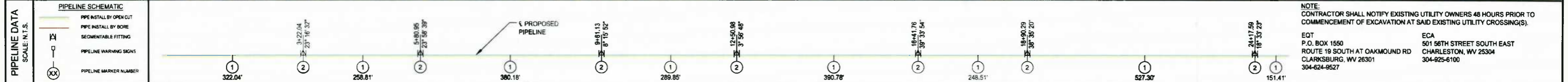
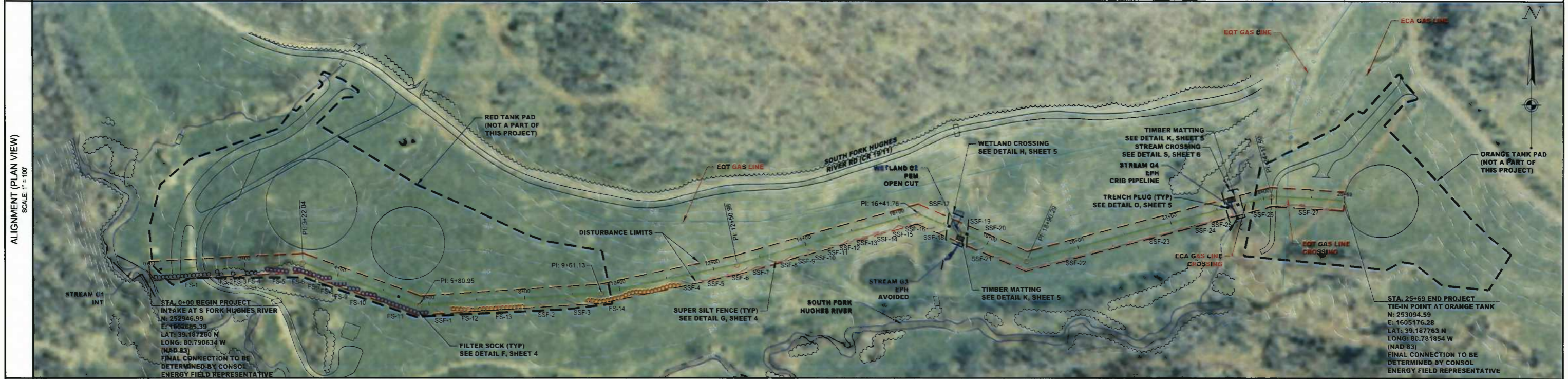
 07/22/14 DATE	SUMMARY OF MATERIALS MRKR # QTY. DESCRIPTION			REFERENCE DRAWINGS DWG. DESCRIPTION		REVISIONS NO. DATE DESCRIPTION			 CREATION TO COMPLETION www.cesoinc.com Engineering • Architecture • Survey • Construction Mgt • Environmental	RED-ORANGE WATER LINE SWPPP NOTES		 200 EVERGREENE DRIVE WAYNESBURG, PA 15370	DATE: 07/22/14 JOB NO.: 750594 DESIGN: BEM DRAWN: BEM CHECKED: BJM SHEET NO.
	STATION(S): N/A												3 of 8

SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

MORRIS I L I K E
09-07-0010-0002-0000-6001

OPEN

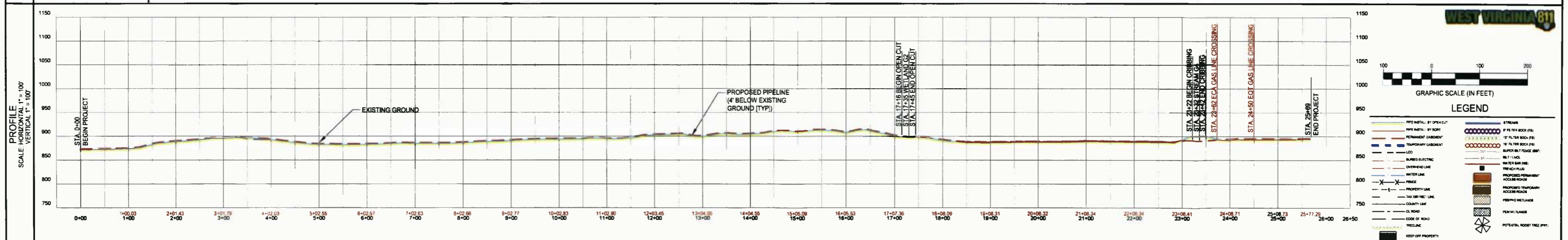
TOWNSHIP COUNTY, STATE										
OWNER/PARCEL ID										
ENVIRONMENTAL	OPEN									
STATIONS & TRAVERSE ANGLES	BEGIN PROJECT 0+00	3+22.04 23° 16' 32" RT	5+80.95 23° 36' 39" LT	9+61.13 8° 15' 52" LT	12+50.98 3° 59' 48" LT	16+41.76 38° 33' 54" RT	18+90.29 38° 35' 20" LT	24+17.59 18° 33' 25" RT	25+69	END PROJECT 25+69



NOTE:
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

EQT
P.O. BOX 1550
ROUTE 19 SOUTH AT OAKMOUND RD
CLARKSBURG, WV 26301
304-624-9527

ECA
501 56TH STREET SOUTH EAST
CHARLESTON, WV 25304
304-925-6100



WEST VIRGINIA 811

GRAPHIC SCALE (IN FEET)

LEGEND

PIPE INSTALL BY OPEN CUT	STREAM
PIPE INSTALL BY BORE	1" FILTER SOCK (FS)
SEGMENTABLE FITTING	12" FILTER SOCK (FS)
PIPELINE WARNING SIGNS	18" FILTER SOCK (FS)
PIPELINE MARKER NUMBER	BACKFILL PLUG (BIP)
	MULTI-LAYER
	WATER BAY FIBER
	TRENCH PLUG
	PROPOSED PERMANENT ACCESS ROAD
	PROPOSED TEMPORARY ACCESS ROAD
	PURPOSED WETLANDS
	FLUSH W/ FLANGE
	POTENTIAL ROOT TREE (PRT)
	KEEP OFF PROPERTY

IFC

07/22/14
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2577 LF	16" HDPE WATERLINE					
2	7 EA	Elbow, 45° Segmentable Fitting					

ceso

CREATION TO COMPLETION
www.cesoinc.com

Engineering • Architecture • Survey • Construction Mgt • Environmental

RED-ORANGE WATER LINE

WATERLINE PLAN

STATION(S): 0+00 TO 25+69

CONSOL ENERGY

200 EVERGREENE DRIVE
WAYNESBURG, PA 15370

DATE:	07/22/14
JOB NO.:	750594
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	7 of 8

RED TO ORANGE WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-1	8	4	100	200	123	1+00
FS-2	8	16	29	100	18	1+45
FS-3	8	11	24	140	13	1+74
FS-4	8	8	19	200	30	2+15
FS-5	8	20	14	100	55	2+60
FS-6	8	4	63	400	49	3+40
FS-7	8	10	65	200	34	3+75
FS-8	8	15	78	140	33	4+75
FS-9	8	12	121	140	28	4+40
FS-10	8	12	140	140	33	4+75
FS-11	8	8	200	200	118	5+30
FS-12	18	9	294	300	56	6+75
FS-13	18	10	262	300	98	7+50
FS-14	18	15	197	200	200	10+35

RED TO ORANGE WATERLINE TRENCH PLUG LOCATION CHART**	
PLUG #	STATION
1	0+25
2	5+34
3	17+12
4	17+53
5	23+23
6	23+45

EROSION AND SEDIMENT CONTROL BMP PRACTICES		
BMP	UNITS	QUANTITY
8" COMPOST FILTER SOCK	FT	534
18" COMPOST FILTER SOCK	FT	354
SUPER SILT FENCE	FT	1382
SILT FENCE	FT	177
TRENCH PLUG	EA	6
TIMBER MATS (10 FT WIDTH, ASSUME 8 FT SECTION LENGTHS)	LF	32
STREAM CROSSING - CRIBBING	EA	1
TOB TO TOB (PIPELINE CONST.)	LF	1

STREAM CROSSINGS - PIPELINE				
STREAM ID	TOB	TOB	LENGTH (LF)	TIMBER MAT LENGTH (LF)
STREAM G4	23+32	23+33	1	16
TOTAL:			1	16

WETLAND CROSSINGS - PIPELINE				
WETLAND ID	EDGE	EDGE	LENGTH (LF)	TIMBER MAT LENGTH (LF)
WETLAND G2	17+26	17+42	16	16
TOTAL:			16	16

*FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREXX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.

**TRENCH PLUG DESIGN BASED ON THE TABLE PROVIDED ON THE TRENCH PLUG DETAIL ON SHEET 5. SOME TRENCH PLUGS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

<h1>IFC</h1> <p>07/22/14 DATE</p>	SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS		 ceso CREATION TO COMPLETION www.cesoinc.com <i>Engineering • Architecture • Survey • Construction Mgt • Environmental</i>	RED-ORANGE WATER LINE E&S TABLES AND QUANTITIES	 CONSOL ENERGY 200 EVERGREENE DRIVE WAYNESBURG, PA 15370	DATE: 07/22/14
	MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.				DATE
									DESIGN: BEM	
									DRAWN: BEM	
									CHECKED: BJM	
									SHEET NO.	
									8 of 8	



**Attachment D- Project Location-
Adjacent and/or Affected Landowners**

TAX ID: 09-06-0003-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351



United States Department of the Interior



FISH AND WILDLIFE SERVICE

West Virginia Field Office
694 Beverly Pike
Elkins, West Virginia 26241

September 25, 2014

Mr. Andrew Longenecker
CESO, Inc.
800 Bursca Drive, Suite 804
Bridgeville, Pennsylvania 15017-1451

Re: Orange to Blue Waterlines & Orange to Red Waterlines Project, Doddridge County, WV

Dear Mr. Longenecker:

This responds to your August 29, 2014, request for information regarding the potential occurrence of federally listed endangered and threatened species and their designated critical habitats. Cone Gathering, LLC (Cone) proposes to install waterlines and a temporary water withdrawal unit to extract water from the South Fork Hughes River, in Doddridge County, West Virginia. These comments are provided pursuant to the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

The U.S. Fish and Wildlife Service (Service) has determined that three federally listed endangered species may occur within the project impact area, and may be affected by the proposed water withdrawal. They are the Indiana bat (*Myotis sodalis*), the clubshell mussel (*Pleurobema clava*), and the snuffbox mussel (*Epioblasma triquetra*).

Additionally, on October 2, 2013, in the *Federal Register* (78 FR 61045 -61080) the Service proposed the northern long-eared bat (*Myotis septentrionalis*) for listing under the ESA. A final listing determination is anticipated by April 2015. If a decision is made to list this species, potential impacts from this project to this species will need to be addressed if this project is not completed by the time the listing takes effect. We encourage you to begin incorporating conservation measures to protect these species prior to any potential final listing decisions. Additional information regarding the northern long eared bat and conference procedures can be found at the following address:

<http://www.fws.gov/midwest/endangered/mammals/nlba/pdf/NLEBinterimGuidance6Jan2014.pdf>

Indiana bat

The project area is within the range of the Indiana bat and may provide summer foraging and roosting habitats, as well as winter habitat, for this endangered mammal. Indiana bats may use the proposed site for foraging and roosting between April 1 and November 14. In West Virginia, the Service considers all forest habitats containing trees greater than or equal to 5 inches in

diameter at breast height to be potentially suitable as summer roosting and foraging habitat for the Indiana bat. Indiana bats use caves or mine portals for winter hibernation habitat between November 15 and March 31.

The Service has evaluated the availability of suitable foraging and roosting habitats on the West Virginia landscape relative to the best estimate of the statewide population of Indiana bats. On that basis, we have determined that projects affecting 17 acres or less of suitable forest habitat and that occur more than 10 miles from a known priority 1 or 2 Indiana bat hibernaculum, more than 5 miles from a known priority 3 or 4 Indiana bat hibernaculum, or more than 2.5 miles from any known maternity roost, or more than 5 miles from summer capture sites where no roosts were identified are very unlikely to result in direct or indirect impacts to the species. The effects of such projects are considered discountable and the projects, therefore, are not likely to adversely affect the species. Tree removal associated with such projects can occur at any time of year.

The proposed action involves less than 17 acres of tree clearing, does not occur within the hibernacula or summer-use buffers described above, and does not require work in the vicinity of any caves or mine portals. Therefore, the project is not likely to adversely affect the Indiana bat.

Freshwater Mussels

This project proposes to withdraw water from the South Fork Hughes River, which contains suitable habitat for clubshell and snuffbox mussels. Freshwater mussels play a key role in the health of aquatic environments by helping to maintain water quality, cycle nutrients, stabilize substrates, remove suspended sediments, and create habitat complexity (Anderson and Kreeger, 2012). Mussels remove suspended particulates from water by filter-feeding, which involves straining water over gills to remove microscopic food particles. Filter-feeding makes mussels very sensitive to excessive sedimentation caused by runoff from streambank and upland activities. Excessive sedimentation into a stream reduces suitable habitat for mussels and can smother them, causing death. Excessive suspended sediments can also impair feeding processes of mussels, leading to acute short-term or chronic long-term stress. Both excessive sedimentation and excessive suspended sediments can lead to reduced populations of mussels and therefore reduced benefits to the ecosystem (Anderson and Kreeger, 2010; Box and Mossa, 1999; Ellis, 1931; Ellis, 1936; Houp, 1993).

In electronic mail correspondence on September 8, 2014, you stated that the temporary withdrawal intake will be secured to a floating buoy that will be constructed from the streambank in such a manner so as to not disturb the stream bottom. The intake structure will have a 4 inch screen, with an open area that will cause a maximum allowable velocity of 0.50 ft/s, on it to protect aquatic life and will only extract water from the top of the water column to further avoid any impacts to the stream bottom. The temporary water withdrawal intake is estimated to be in place for no more than one year.

Please note that although the West Virginia Department of Environmental Protection (WVDEP) has drafted guidance and a web-based tool for water withdrawal limits related to natural gas production and other development activities, the tool has not yet been validated as adequately

protective of freshwater mussels or other aquatic species under all weather and precipitation conditions. We recommend that the tool be checked daily before withdrawing significant quantities of water from any watershed known to contain freshwater mussels. It is also recommended that users exercise caution and use common sense, particularly during drought or extended dry conditions, or in cases where multiple users may be withdrawing water from the same source. If a stream is low and withdrawing additional water could expose portions of the stream bottom or banks that are normally submerged, including riffle areas downstream from pools from which water is typically withdrawn, we recommend that users find a different location or water source that does not contain federally listed species. We recommend that water users not block, dam, or divert flows, or excavate pools or otherwise create unnatural deep spots in the aquatic habitats listed above or in their direct tributaries. Use of the tool does not absolve users of liability for the loss of aquatic life, including potential violation of the Endangered Species Act if take of federally listed species occurs. Cone has committed to utilize the WVDEPs water withdrawal guidance tool to ensure that it is environmentally safe to withdraw water from the South Fork Hughes River.

Additionally, Cone commits to implement best management practices (BMPs) for reduction of erosion and sedimentation as shown and described in the construction documents received by this office on September 3, 2014. These BMPs cover all work areas of the proposed project. The Service believes that implementation of these BMPs will minimize, to the extent practicable, the likelihood of adverse impacts to the South Fork Hughes River and the clubshell and snuffbox mussels. This office should be notified immediately if any deviations from the submitted project plans and associated BMPs are anticipated, or if any significant erosion-control or sedimentation issues occur during construction of the project. All erosion and sedimentation measures will be in accordance with the West Virginia online BMP manual for standard guidelines and specifications available at: <https://apps.dep.wv.gov/dwwm/stormwater/bmp/index.html>.

Because the proposed construction of the water withdrawal location will not directly impact the stream bottom and screens will protect aquatic life, the Service concludes that the project is not likely to adversely affect any federally endangered or other freshwater mussels.

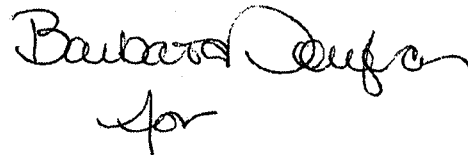
In the event that these proposed waterlines and temporary water withdrawal structure are made permanent, consultation with the Service will need to be reinitiated. The Service is concerned that a permanent water withdrawal facility on the South Fork Hughes River would adversely impact downstream mussel populations. The recent spike in oil and gas development has led to increased disturbances in the South Fork Hughes watershed. The accumulation of pipeline crossings, access roads, and water withdrawal intake structures along this river has led to increases in erosion and sedimentation. Disturbances along the river can cause degradation of habitat quality for mussel populations downstream. A long term water withdrawal facility could exacerbate these impacts and adversely affect endangered freshwater mussels. Because the South Fork Hughes watershed is small, supports large populations of native freshwater mussels, including populations of clubshell and snuffbox mussels, the Service recommends not permanently withdrawing water from this river. As an alternative, we recommended withdrawing water from a larger or alternative watershed that does not support federally listed aquatic species.

Mr. Andrew Longenecker
September 25, 2014

4

As a result of the information presented above, the Service has concluded that the project may affect, but is not likely to adversely affect any federally listed endangered or threatened species. Therefore, no biological assessment or further section 7 consultation under the ESA is required with the Service. Should project plans change or amendments be proposed that we have not considered in your proposed action, or if additional information on listed and proposed species becomes available, or if new species become listed or critical habitat is designated, this determination may be reconsidered. If you have any questions regarding this letter, please contact Tiernan Lennon of my staff, at (304) 636-6586, Ext. 12, or at tiernan_lennon@fws.gov, or at the letterhead address.

Sincerely,

Handwritten signature of Barbara Dufon in cursive script.

John E. Schmidt
Field Supervisor



DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

REPLY TO
ATTENTION OF

October 8, 2014

Regulatory Division
Energy Resource Branch
LRH-2014-762-South Fork Hughes River-OHR

Mr. Adam White
CNX Gas, LLC
One Energy Drive
Post Office Box 1248
Jane Lew, WV 26378

Dear Mr. White:

I refer to the Pre-Construction Notification (PCN) submitted on your behalf by CESO, Inc., received in this office on July 29, 2014 and additional information received on August 9, 2014 and September 29, 2014. You have requested authorization to discharge dredged and/or fill material into waters of the United States (U.S.) in conjunction with the construction of the Red to Orange Waterline Project. The project will include the installation of approximately 0.48 mile of twin 16-inch waterlines to connect a water withdrawal point within the South Fork Hughes River to the proposed Orange Water Storage Tank near Porto Rico, Doddridge County, West Virginia. The installation of the waterlines will require the temporary discharge of dredged and/or fill material into Wetland G2, which is adjacent to a tributary to the South Fork Hughes River, a tributary of the Ohio River, a traditionally navigable water of the U.S.

The United States Army Corps of Engineers (Corps) authority to regulate waters of the U.S. is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to discharging dredged or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

Based on a review of the aquatic resources in the PCN submittal, three stream channels totaling 322 linear feet and one wetland totaling 0.02 acre are located within the Area of Interest (AOI) as indicated in Table 1, which is attached to the PJD form. The on-site aquatic resources may be waters of the U.S. in accordance with the Regulatory Guidance Letter for Jurisdictional Determinations (JDs) issued by the Corps on June 26, 2008 (Regulatory Guidance Letter NO. 08-02). As indicated in the guidance, this Preliminary Jurisdictional Determination (PJD) is non-binding and cannot be appealed (33 CFR 331.2) and only provides a written indication that waters of the U.S. may be present on-site.

You have declined to exercise the option to obtain an approved JD in this instance and at this time. However, for the purposes of the determine of discharges of fill into waters of the U.S., compensatory mitigation, and aquatic resource protection measures for activities which require

authorization from this office, the streams referenced above will be evaluated as if they were waters of the U.S.

Enclosed please find two (2) copies of the PJD form. If you agree with the findings of this PJD and understand your options regarding the same, please sign and date one copy of the PJD form and return it to this office within thirty (30) days of receipt of this letter. You should submit the signed copy to the following address:

United States Army Corps of Engineers
Huntington District
Attn: Energy Resource Branch
502 8th Street
Huntington, WV 25701

You have requested authorization to discharge fill material into waters of the U.S. in conjunction with the installation of twin 16-inch High Density Polyethylene (HDPE) waterlines into one (1) palustrine emergent wetland utilizing the open trench method. The excavation of the trench and subsequent installation of the twin waterlines will result in the temporary discharge of dredged material into 0.02 acre of one (1) wetland within the project limits. Upon completion of the installation of the waterlines, the temporarily affected wetland will be restored to its pre-disturbance contours and elevations. In addition, two ephemeral streams will be crossed via aerial crossings (cribbing with timber mat bridges). The cribbing device will be installed on either end of the stream crossing at a minimum of ten (10) feet from the top of bank to the center of the cribbing bank and will be above the 25-year storm event elevation. The installation of the aerial crossings will not result in the discharge of fill material into waters of the U.S.

Based on the information provided in the permit application, it has been determined the discharge of dredged and/or fill material into waters of the U.S., to facilitate the installation of 0.48 mile of twin 16-inch HDPE waterlines meets the criteria for authorization under Nationwide Permit (NWP) #12 (enclosed) under the February 21, 2012 Federal Register, Notice of Reissuance of NWPs (77 FR 10184) provided you comply with all terms and conditions of the enclosed material. A copy of this NWP can be found on our website at <http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>. Please note that you must comply with all applicable terms and conditions of the enclosed material and the attached special conditions for the authorizations to be valid.

In view of the above, your utility line activities project is authorized subject to the terms and conditions of the enclosed material, including the enclosed special conditions. It is your responsibility to ensure that your work conforms to all of the environmental management conditions listed within the enclosed material. Please be aware this NWP verification does not obviate the requirement to obtain any state or local assent required by law for the activities.

A copy of this NWP and verification letter must be supplied to your project engineer responsible for construction activities. A copy of the verification letter must be kept at the site during construction. Upon completion of the work, the enclosed certification must be signed and

returned to this office. If you have any questions concerning the above, please contact Kimberly Courts-Brown at (304) 399-6906 or by email at Kimberly.d.courtsbrown@usace.army.mil.

Sincerely,



Samantha Dailey
Regulatory Project Manager
Energy Resource Branch
Regulatory Division

CF: (w/out encls)

Mr. Andrew Longenecker
CESO Inc.
800 Bursca Drive
Suite 804
Bridgeville, Pennsylvania 15017-1451
Longenecker@cesoinc.com



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
TDD (304) 558-1439
TDD 1-800-354-6087
Fax (304) 558-6048
Telephone (304) 558-3225

Earl Ray Tomblin
Governor

Frank Jezloro
Director

October 30, 2014

Division of Natural Resources
RIGHT OF ENTRY

Re: P-14-VI/09-1140

CNX Gathering, LLC
Adam White
CESO, Inc.
800 Bursca Drive
Suite 804
Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove two (2) sixteen inch (16") HDPE surface waterlines via cribbing (Red-Orange Waterline) along an unnamed tributary of the South Fork Hughes River near Porto Rico in Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A.

This Right of Entry is subject to the following terms and conditions:

1. No in stream work during the fish-spawning season (April 1-June 30).
2. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
3. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
4. Green concrete must not be put in the stream (highly toxic to aquatic life).
5. Amount of stream side vegetation disturbed should be kept to a minimum.
6. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.

CNX Gathering, LLC

P-14-VI/09-1140

Page 2

October 30, 2014


7. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to obtain a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your payment in the amount of \$450.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,

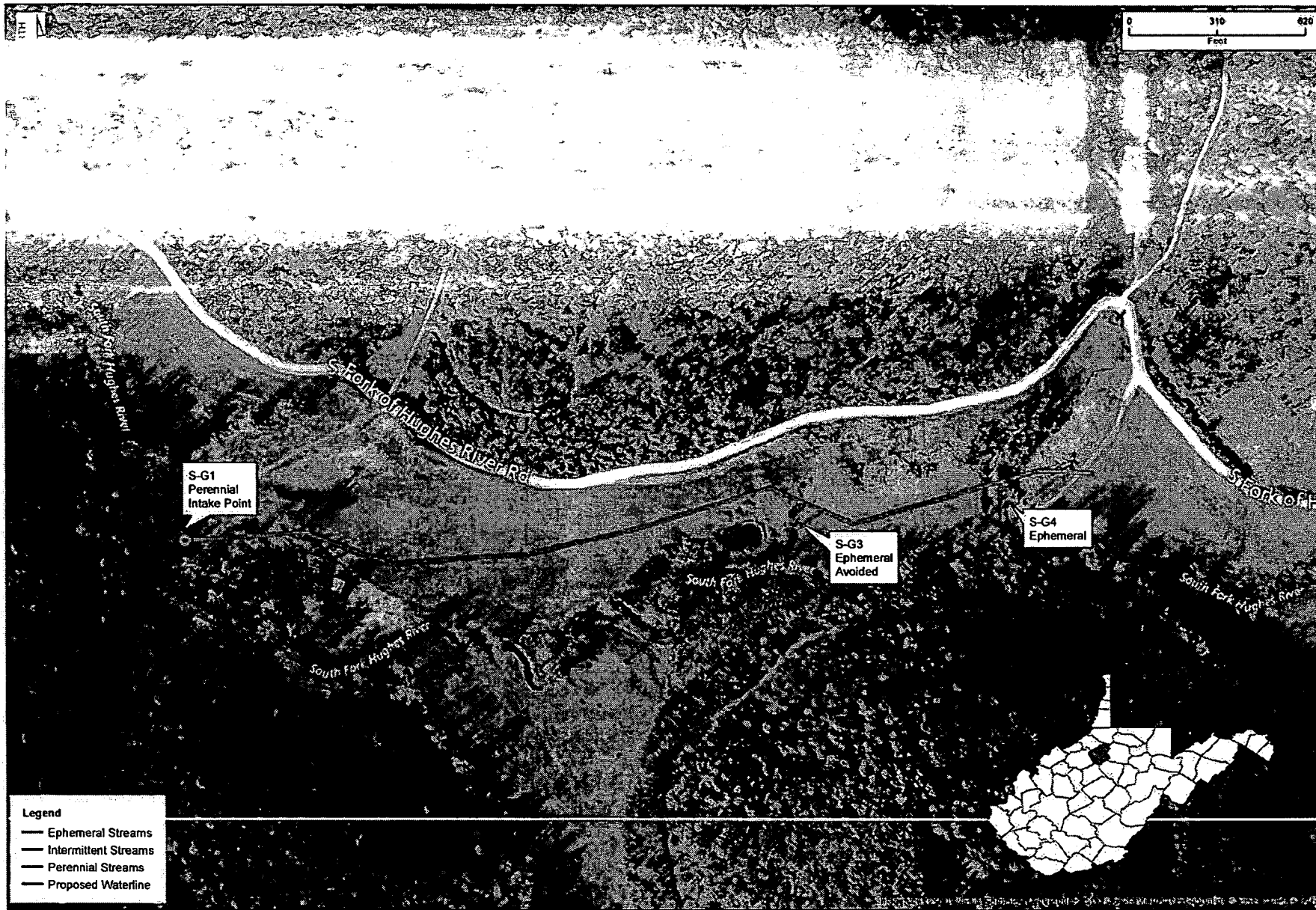

Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers

Exhibit A

P-N-VI/09-1140



Red to Orange Waterline
Stream Crossing Map
Doddridge County, West Virginia



Sheet 1 of 1
Date: 07/23/2014
By: G. Bergquist



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
TDD (304) 558-1439
TDD 1-800-354-6087
Fax (304) 558-6048
Telephone (304) 558-3225

Earl Ray Tomblin
Governor

Frank Jezloro
Director

October 30, 2014
Division of Natural Resources
RIGHT OF ENTRY

Re: **LS-14-VI/09-1141**

CNX Gathering, LLC
Adam White
c/o CESCO, Inc.
800 Bursca Drive
Suite 804
Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a period of ten (10) years from the date hereof, a Right of Entry for the purpose of a timber mat bridge crossing (Red-Orange Waterline) along an unnamed tributary of the South Fork Hughes River near Porto Rico in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

1. No in stream work during the fish-spawning season (April 1-June 30).
2. Work should be completed as quickly as possible during low flows in designated work areas only.
3. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
4. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
5. Green concrete must not be put in the stream (highly toxic to aquatic life).
6. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year year flood flow.
7. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.
8. Applicant is responsible for removing debris from in and around the installation periodically to prevent stream flow obstruction.

9. Durable head walls of logs, crossties, rock, or concrete shall be constructed at both the upstream and downstream ends of crossing to prevent erosion of fill material into the stream.
10. Bridge installation should not impede passage of recreational water craft. Water craft must be able to pass through or over the structure, whichever the applicant prefers.
11. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.
12. A 404 permit may be required from the U.S. Army Corps of Engineers. You may call them at 304-529-5710 or 412-395-7155.

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to obtain a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your payment of the amount of \$100.00 is now due and payable to the Division of Natural Resources covering the first year's annual fee of this agreement. You must notify the Division in writing with this installation has been approved. Your agreement will be effective upon receipt of your payment in full.

Sincerely,


Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

pc: DNR Fisheries Unit
Eric Jeremiak, Environmental Enforcement
DNR Conservation Officers

From: DEP NPDESEP

Sent: Thursday, August 14, 2014 8:19 AM

To: DEP NPDESEP; adam.white@consolenergy.com

Cc: Swiger, Bradley C; Bridge, Timothy W; Minigh, Christina D

Subject: Approval for WVR310346, Red-Orange Waterline, Doddridge Co., 2.36 Acres

Adam White

CNX Gas Company LLC

One Energy Drive

Jane Lew, WV 26370

Physical Site Location: 7th. Rt. 40, Porto Rico

Please be advised that this e-mail constitutes approval for your project associated with Oil and Gas Construction Activities and your registration no. is **WVR310346**. You are now authorized to operate under WV NPDES General Water Pollution Control Permit No. WV0116815, issued on May 13, 2013.

You should carefully read the contents of this General Permit and become familiar with all requirements needed to remain in compliance with your permit. A "Notice of Termination" form is to be completed and submitted when all disturbed areas are stabilized. You can find the permit and Notice of Termination forms on the Internet by visiting Permitting, Division of Water and Waste Management at www.dep.wv.gov. The annual permit fee has been assessed as \$ 100.00. You will be invoiced by this agency upon the anniversary date of this approval date. Failure to submit the annual fee within ninety (90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect. Please be advised that a pro-rated annual permit fee may be assessed upon the completion date and proper stabilization.

If you have any questions relative to this approval, please do not hesitate to contact **Alice Cooper** at (304) 256-4991 ext. 210 or by email at alice.e.cooper@wv.gov.

Scott G. Mandirosh, Director

WV DEP-Division of Water & Waste Mgt.

601 E. 9th Street

Charleston, WV 25309-2415

Phone: (304) 256-6000

Fax: (304) 256-6100



DIVISION OF NATURAL RESOURCES
Wildlife Resources Section
Operations Center
P.O. Box 67
Elkins, West Virginia 26241-3235
Telephone (304) 637-0245
Fax (304) 637-0250

Earl Ray Tomblin
Governor

Frank Jezioro
Director

August 7, 2014

Mr. Andrew Longenecker
CESO, Inc.
800 Bursca Drive, Suite 804
Bridgeville, PA 15017-1451

Dear Mr. Longenecker:

We have reviewed our files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Red to Orange Waterline project in Doddridge County, WV.

We have no known records of any RTE species or sensitive habitats within the project area. The Wildlife Resources Section knows of no surveys that have been conducted in the area for rare species or rare species habitat. Consequently, this response is based on information currently available and should not be considered a comprehensive survey of the area under review.

The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required. Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service.

Thank you for your inquiry, and should you have any questions please feel free to contact me at the above number, or barbara.d.sargent@wv.gov. Enclosed please find an invoice.

Sincerely,


Barbara Sargent
Environmental Resources Specialist
Wildlife Diversity Unit

enclosure

S:\Monthly\Barb\Invoices\CESO1.doc



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
TDD (304) 558-1439
TDD 1-800-354-6087
Fax (304) 558-6048
Telephone (304) 558-3225

Earl Ray Tomblin
Governor

Frank Jezioro
Director

October 30, 2014
Division of Natural Resources
RIGHT OF ENTRY

Re: LS-14-VI/09-1142

CNX Gathering, LLC
Adam White
c/o CESO, Inc.
800 Bursca Drive
Suite 804
Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a period of one (1) year a Right of Entry to install, maintain and use a water intake system (Red-Orange Waterline) along the South Fork Hughes River near Route 100 in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

1. The applicant must have a water management plan for this water withdrawal project approved by the West Virginia Department of Environmental Protection.
2. This permit does not allow any streambed disturbances. If any streambed disturbances are to be preformed, a mussel survey will be required.
3. Water withdrawals will not be allowed during the fish spawning season: April 1 – June 30. During other times of the year, the applicant must follow the DEP Water Withdrawal Guidance Tool for allowable periods to withdraw water.
4. Work should be completed as quickly as possible during low flows in designated work periods only.
5. The protection of aquatic life at a water withdrawal site includes the prevention of entrainment and impingement. Entrainment is the unwanted passage of fish or other aquatic life through a water intake, which is generally caused by an absent or inadequate screen surrounding the water intake. Impingement is the physical contact of a fish with such a barrier structure (commonly screens) to intake velocities which are too high to allow the fish to escape. Therefore the water withdrawal intake must:

- a. Be located in at least three feet of water;
 - b. Include a screen surrounding the entire intake with openings no larger than 0.1875 (3/16) inches for floating intake structures or 0.10 inches for submerged or buried intakes;
 - c. Be designed to limit the through-screen approach velocity to 0.5 feet per second or less;
 - d. Be regularly inspected and well-maintained.
6. Any streambed disturbance should be restricted to the immediate area. In stream, use of equipment should be kept to a minimum.
 7. The South Fork Hughes River is known to contain endangered freshwater mussels and other important aquatic animals. Dewatering and the entrainment and/or impingement of aquatic life are a major concern to resource agencies. The applicant will be responsible for any damages that may occur to aquatic life from the operation of this water withdrawal project. It is recommended that the applicant contact the WV Division of Natural Resources (Fisheries Biologist; Scott Morrison, 304 420-4550 or Mussel Biologist; Janet Clayton, 304 637-0245) and/or the US Fish and Wildlife Service for more information. These agencies have regulatory authority to levy fines and other punitive measures in the event that aquatic animals are harmed.
 8. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
 9. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year flow.
 10. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.
 11. Applicant is responsible for removing debris from in and around the installation periodically to prevent stream flow obstruction.
 12. No drawdown will be permitted when the natural stream flow is less than 50% of the 10-year mean monthly flow.
 13. The State's issuance of this Right-of-Entry does not provide for the applicant to withdraw water outside the requested boundaries nor does the State assume any liability for the applicant/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this project to both upstream and downstream landowners.
 14. Stream gauging or a device to measure the required minimum flow (for example: a weir or flume) is required.

CNX Gathering, L.L.C.
LS-14-VI/09-1142
Page 2
October 30, 2014

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, 601 57th Street, S.E., Charleston, West Virginia 25304-2348, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to obtain a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative requirements. As applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that area and obtaining a flood plain development permit for it. This Right of Entry does not grant any right of access, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your payment of the amount of \$100.00 is now due and payable to the Division of Natural Resources as a one time fee of this agreement. Your agreement will be effective upon receipt of your payment.

Sincerely,


Joe T. Scarberry
Office of Land and Streams

JTS/cb

pc: DNR Field District
Environmental Enforcement
Enforcement Officers



Edwin Wriston <doddridgecountyfpm@gmail.com>

Floodplain Fee Calculations for Projects submitted by CESO

1 message

Natalie Hooton <hooton@cesoinc.com>

Fri, Aug 1, 2014 at 1:30 PM

To: "doddridgecountyFPM@gmail.com" <doddridgecountyFPM@gmail.com>

Mr. Wriston- Below are the calculations that were made to determine the fees required for the Doddridge County Floodplain permits. Please let me know if additional information is required. Thank you for your assistance. Natalie

EQT-OX11

- Pipeline & Waterline Construction – 370 LF * \$250 = \$92,500
- Timber Matting = \$500
- Access Road Apron – 2 EA * \$1,000 = \$2,000
- **Total Floodplain Construction Cost = \$95,000**
- Check Amount Required = \$500

Meathouse Fork-OX11

- Waterline Construction – 435 LF *150 = \$65,250
- Timber Matting = \$500
- Temp Pad Intake = \$20,000
- **Total Floodplain Construction Cost = \$85,750**
- Check Amount Required = \$500

Red to Orange Waterline

- Pipeline & Waterline Construction – 1,693 LF * \$150 = \$254,000
- Timber Matting = \$500
- **Total Floodplain Construction Cost = \$254,500**
- Check Amount Required = \$1,000 + (\$5 * (154,500/1,000)) = \$1,772.50

Orange to Blue Waterline

- Waterline Construction – 4,415 LF *150 = \$662,250
- Timber Matting = \$1,750
- Access Roads – 5 * \$2,500 = \$12,500
- **Total Floodplain Construction Cost = \$676,500**
- Check Amount Required = \$1,000 + (\$5 * (576,500/1,000)) = \$3,882.50

Natalie Hooton



CESO, Inc.

800 Bursca Dr. Suite 804

Bridgeville, PA 15017

P: (412) 221-2236 x 2009 | F: (412) 221-2267

Email: hooton@cesoinc.com | Website: www.cesoinc.com

The information contained in this message (including attached documents) is proprietary and as such is privileged, confidential and protected from disclosure. It is intended only for the addressee(s) named above. If you are not the intended recipient, you are hereby notified that any use, disclosure, dissemination, copying or distribution of this communication is strictly prohibited. If you have received this message in error, please return it to the sender and destroy all copies you possess. Your assistance in correcting this error is appreciated.

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
14-250
Red-Orange Waterline

was published in said paper for . . . 7 . . .

successive weeks beginning with the issue
of . . . *August 5th* . . . 2014 and
ending with the issue of

. . . *August 12th* . . . 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 . . . *14th* . . . DAY

OF . . . *August* . . . 2014

NOTARY PUBLIC

Laura Adams

Legal Advertisement
LEGAL ADVERTISEMENT
Doddridge County
Floodplain Permit Application
Please take notice that on the 30th day of July, 2014,
CNX Gas Company, L.P. filed an application for a
Floodplain Permit to develop land located on about
39°18'26"N / 80°7'06"E W to 39°18'74"N / 80°7'21"E W,
Permit #14-250 Red-Orange Waterline.
The Application is on file with the Clerk of the County
Court and may be inspected or copied during regular
business hours. Any interested persons who desire to
comment shall present the same in writing by August 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 Floodplain
Staff to Manager

