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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Tuesday, September 19, 2017  
**WELL WORK PERMIT**  
Vertical / Plugging

XTO ENERGY, INC.  
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for 1  
47-033-00034-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Moran  
Chief

Operator's Well Number: 1  
Farm Name: LANCASTER, FRANK  
U.S. WELL NUMBER: 47-033-00034-00-00  
Vertical / Plugging  
Date Issued: 9/19/2017

Promoting a healthy environment.

09/22/2017

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## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B  
Rev. 2/01

1) Date 8/30, 20 17  
2) Operator's  
Well No. 1  
3) API Well No. 47-033 0034

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X
- 5) Location, Elevation 1088' Watershed Tenmile Creek (0502000205)  
District Sardis County Harrison Quadrangle Wolf Summit
- 6) Well Operator XTO Energy Inc 7) Designated Agent Gary Beall  
Address PO Box 1008 Address PO Box 1008  
Jane Lew, WV 26378 Jane Lew, WV 26378
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name \_\_\_\_\_  
Address PO Box 2327 Address \_\_\_\_\_  
Buckhannon, WV 26201

- 10) Work Order: The work order for the manner of plugging this well is as follows:  
See attached

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector [Signature] Date 8/29/2017

09/22/2017

47-033-00034

Frank Lancaster 1

## Plugging Procedure

RIH through 3" casing and T.D. well at 3255', then run tubing to 3255' and circulate 6% gel to surface.

Cement - 3255' - 3100' (30 sks)

Shot - 3222' - 3255'

Pull tubing up to 2900' and reverse circulate, let cement set for 8 hrs and tag. If ok pull tubing out and RIH and cut the 3" casing off right above the 6 5/8" hook wall packer.

Then circulate 6% gel back to surface and pull the 3" casing out and run tubing back in and spot a 200' cement plug over the cut (50 sks).

Tag cement plug.

Pull tubing up to 2400'.

Cement 2400' - 2000' (30 sks)

Gel - 2200' - 1400'.

Cement - 1400' - 950' (60 sks).

Elevation at 1088'.

Gel - 950' - 200'.

Cement - 200' - Surface. (58 sks).

Install Well Monument.

Plug across all cuts

Inspector may require alternate SDW  
method of cutting pipe if shooting 8/29/2017

Exils

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3300034P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date: February 7, 1936  
Operator's FRANK Lancaster  
Well No. EC-2

FORM IV-35  
(Obverse)  
[08-78,

WELL OPERATOR'S REPORT  
OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE  
API Well No. 47 - 033 - 34  
State County Pern

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /  
(If "Gas", Production / Underground storage / Deep / Shallow X /)

LOCATION: Elevation: 11079 Watershed: Isaac Creek  
District: Sardis County: Harrison Quadrangle: SW/4 Clarksburg

1028  
Survey

WELL OPERATOR E&C Gas Company DESIGNATED AGENT LORNA HILL  
Address 211 Main St Address 211 Main St  
Lumberport WV Lumberport WV

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate  
Plug off old formation / Perforate new formation /  
Other physical change in well (specify):

PERMIT ISSUED ON July 6, 1936 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name N/A  
Address

GEOLOGICAL TARGET FORMATION: Balltown Depth: 3222  
Depth of completed well, 3255 feet Rotary / Cable Tools X  
Water strata depth: Fresh, N/A feet; salt, feet.  
Coal seam depths: Below Coal Is coal being mined in the area? Yes  
Work was commenced July 22, 1936, and completed November 24, 1936

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CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	Wood							Kinds Comb Hood
Fresh water								Anchor
Coal								Sizes 3x-7"
Intermediate	8"		24			1012	1012	
Production	7"		17			1341	1341	Depth set 3167'
Tubing	3"		10	X		325	3255	
Liners								Perforations: Top Bot

OPEN FLOW DATA

Producing formation Balltown Pay zone depth 3254

Gas: Initial open flow, 35 Mcf/d Oil: Initial open flow, Bbl/d  
Final open flow, 104 Mcf/d Final open flow, Bbl/d

Time of open flow between initial and final tests,        hours

Static rock pressure, N/A psig (surface measurement) after        hours shut in

09/22/2017

[If applicable due to multiple completion--]

Second producing formation        Pay zone depth       

Gas: Initial open flow,        Mcf/d Oil: Initial open flow,        Bbl/d  
Final open flow,        Mcf/d Final open flow,        Bbl/d

Time of open flow between initial and final tests,        hours

Static rock pressure,        psig (surface measurement) after        hours shut in

033-0034

WELLS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Well shot in balltown sand, as follows:

322-3255-80quarts nitroglycerine

322-3255-400# Gelatin 90%

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Little Dunkard			375	400	
Big Dunkard			400	510	
Gas Sand			685	750	
First Salt			760	815	
Second Salt			815	900	
Little Lime			1006	1070	
Pencil Cave			1070	1203	
Big Lime			1324	1390	
Big Injun			1390	1461	
Squaw			1475	1492	
Gantz			1864	1868	
Fifty Feet			1928	1985	
Thrity Feet			1993	2038	
Gordon Stray			2070	2077	
Gordon			2175	2212	
Fourth			2223	2230	
Fifth			2350	2370	
= Balltown			3222	3255	

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(Attach separate sheets to complete as necessary)

E&amp;C Gas Company

Well Operator

By

*Lorna Hill*

Its

AGENT

LORNA HILL

09/22/2017

**NOTE:** Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

G-10  
 WEST VIRGINIA DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
*Clarksburg*  
 WELL RECORD

Permit No. Har-34 Oil or Gas Well Gas  
 (Kind)

Company <u>E. &amp; C. Gas Co.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Lumberport, W. Va.</u>				
Farm <u>Frank Lancaster</u> Acres <u>36</u>				
Location (waters) <u>Tennile Creek</u>				
Well No. <u>1</u> Elev. <u>1107.9</u>	16. <u>1088 5/8</u>			Kind of Packer
District <u>Sardis</u> County <u>Harrison</u>	13			<u>Comp. Ho</u>
The surface of tract is owned in fee by <u>Sarah C. Lancaster</u>	10			<u>Wall &amp; Hook</u>
& others Address <u>Clarksburg, W. Va.</u>	8 1/2 <u>1012'</u>		<u>Left in</u>	Size of <u>5</u> <u>5/8"</u>
Mineral rights are owned by <u>Above</u>	6 5/8 <u>1341</u>		<u>"</u>	Depth set <u>1400'</u>
Address	5 3/16 <u>2505'</u>		<u>Pulled</u>	
Drilling commenced <u>July 22, 1936</u>	3 <u>3255'</u>		<u>Left in</u>	Perf. top <u>1470</u>
Drilling completed <u>Nov., 1936</u>	2			Perf. bottom <u>149</u>
Date shot	Liners Used			Perf. top <u>3280</u>
Depth of shot <u>3222-55</u>				Perf. bottom <u>3260</u>
Open Flow <u>9/10ths</u> Water in <u>2</u> Inch				
<u>/10ths</u> Merc. in <u>    </u> Inch				
Volume <u>143,000</u> Cu. Ft.				
Rock Pressure <u>Unknown</u> lbs.				
Oil <u>    </u> bbls., 1st 24 hrs.				
Fresh water <u>None</u> feet				
Salt water <u>Unknown</u> feet				

*Current Survey*  
 Size 1088 5/8

CASING CEMENTED      SIZE      No. FT.      Date       
 COAL WAS ENCOUNTERED AT None FEET      INCHES  
     FEET      INCHES      FEET      INCHES  
     FEET      INCHES      FEET      INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Little Dunkard			375	400			
Big Dunkard			400	510			
Gas Sand			685	750			
1st Salt sand			760	815			
2nd Salt sand			816	900			
Little Lime			1006	1070			
Big Lime			1324	1390			
" Injun			1390	1461	Gas Show	1403	
Squaw			1475	1492	"	1480	
Gantz			1864	1868	"	1868	
50 ft.			1928	1985			
30 ft.			1993	2038			
Gordon Stay			2070	2077			
Gordon			2175	2212			
4th.			2223	2230			
5th.			2350	2370	Gas	2356	
Balltown			3222	3255	"	3254	
Bottom				3920			



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WW-4A  
Revised 6-07

1) Date: 8/30/17  
2) Operator's Well Number

3) API Well No.: 47 - 033 - 00034

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>William John &amp; Cheryl Lynn Meredith</u>	Name <u>NA</u>
Address <u>476 Isaac Creek Rd.</u>	Address _____
<u>Clarksburg, WV 26301</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidation Coal Company</u>
_____	Address <u>c/o Leatherwood, Inc.</u>
_____	<u>CNX Center</u>
(c) Name _____	Name <u>1000 Consol Energy Drive</u>
Address _____	Address <u>Canonsburg, PA 15317</u>
_____	_____
<b>6) Inspector</b> <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

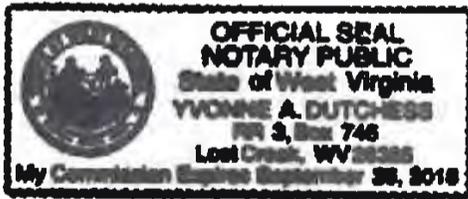
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

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Well Operator: XTO Energy Inc.

By: [Signature]

Its: Regulatory Compliance Technician

Address: PO Box 1008

Jane Lew, WV 26378

Telephone: 304-884-6000

WV Department of Environmental Protection

Subscribed and sworn before me this 23rd day of August 2017  
Yvonne A. Dutchess Notary Public  
My Commission Expires September 26, 2018

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

09/22/2017



09/22/2017

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WW-9 (5/16)

API Number 47 - 033 - 00034 Operator's Well No. 1

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name XTO Energy Inc. OP Code 494487940

Watershed (IUC 10) Tenmile Creek (0502000205) Quadrangle Wolf Summit

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes [ ] No [x]

Will a pit be used? Yes [ ] No [x]

If so, please describe anticipated pit waste: Fluids from plugging operations will be put into tanks.

Will a synthetic liner be used in the pit? Yes [ ] No [x] If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
Underground Injection ( UIC Permit Number 4707302523, 4708505151, 4708509721 )
Reuse (at API Number )
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain Meadowbrook Landfill SWF#1032, RES Water Recycling -WMGR123SW005 (PA)

SPW 8/29/2017

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA - Plugging

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Any solid waste from plugging will be taken to landfill.

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? Meadowbrook Landfill SWF#1032

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Tim Sands

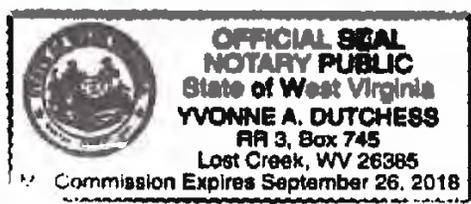
Company Official Title Regulatory Compliance Technician

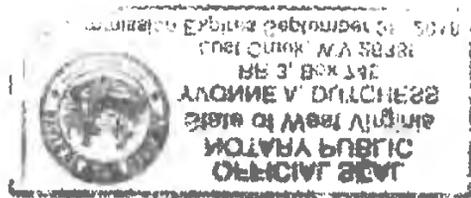
Subscribed and sworn before me this 23rd day of August, 2017

[Signature] Notary Public

My commission expires September 26, 2018

09/22/2017





09/22/2017

Form WW-9

Operator's Well No. 1

Proposed Revegetation Treatment: Acres Disturbed .95 +/- Prevegetation pH \_\_\_\_\_

Lime 4 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Per attached plans

Per attached plans

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

WV Department of Environmental Protection

Comments: \_\_\_\_\_

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Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

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WW-9- GPP  
Rev. 5/16

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 033 - 00034  
Operator's Well No. 1

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: XTO Energy Inc.  
Watershed (HUC 10): Tenmile Creek (0502000205) Quad: Wolf Summit  
Farm Name: Lancaster, Frank

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Fluids will not be discharged.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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WW-9- GPP  
Rev. 5/16

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 033 - 00034  
Operator's Well No. 1

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: *[Handwritten Signature]*

Date: 8/30/17

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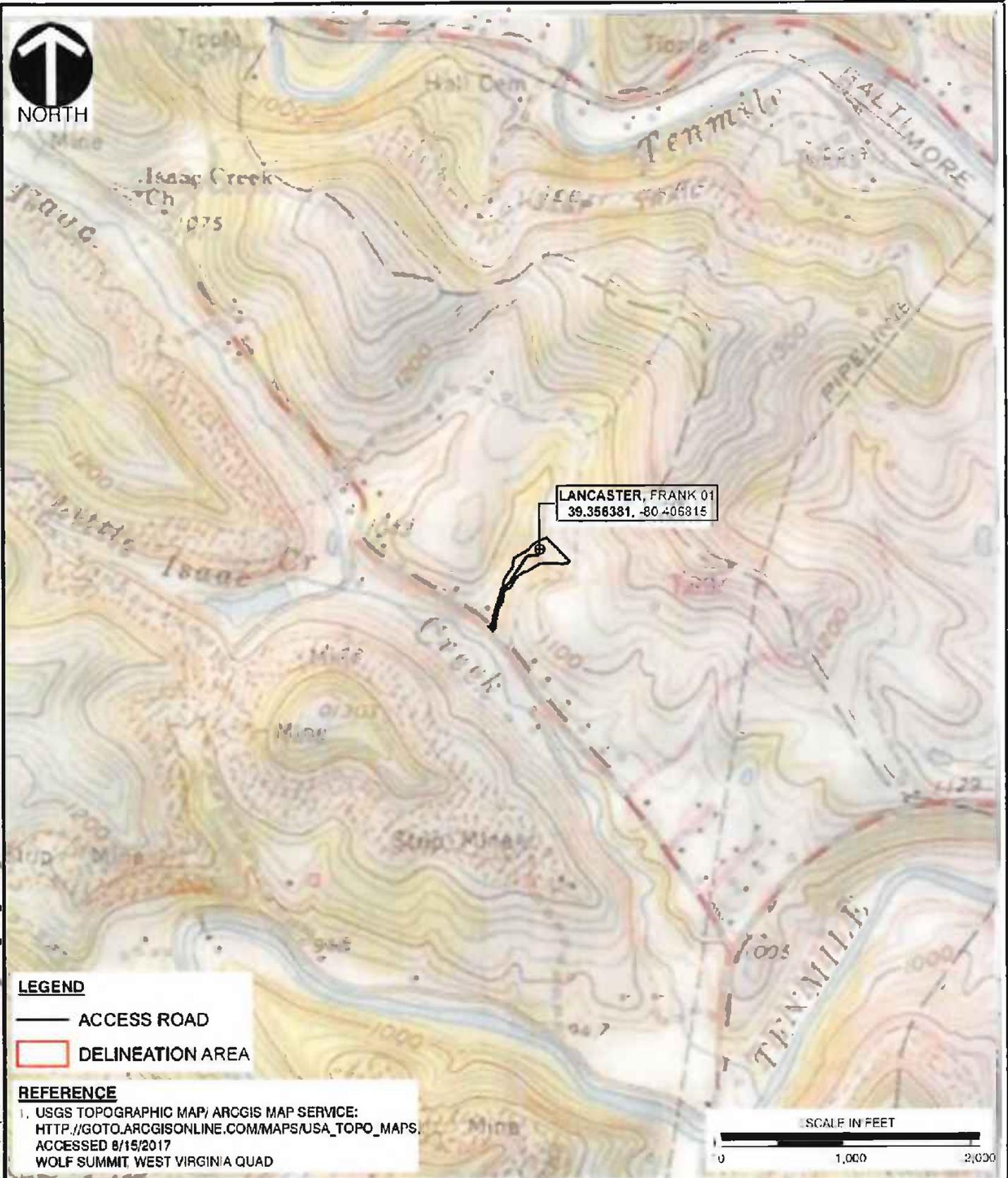
NY

NY

NY

NY

09/22/2017



**LEGEND**  
 — ACCESS ROAD  
 □ DELINEATION AREA

**REFERENCE**  
 1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:  
[HTTP://GTO.ARCGISONLINE.COM/MAPS/USA\\_TOPO\\_MAPS](http://gto.arcgis.com/maps/usa_topo_maps)  
 ACCESSED 8/15/2017  
 WOLF SUMMIT WEST VIRGINIA QUAD



I:\sv-pittsburgh\proj\172-990-GIS\Map\AW00\WDSIR\_172990\_AW00\_FIG1\_WDSIR\_SITE.mxd 8/15/2017 10:10:35 AM (gkuckuck)



**Civil & Environmental Consultants, Inc.**  
 600 Marketplace Avenue, Suite 200 - Bridgeport, WV 26330-9121  
 Ph: 304-933-3119 • Toll: 855-488-9539 • Fax: 304-933-3327  
[www.cecinc.com](http://www.cecinc.com)

**XTO ENERGY, INC.**  
**LANCASTER, FRANK 01 WELL PLUGGING**  
**HARRISON COUNTY, WEST VIRGINIA**

**USGS SITE LOCATION MAP**

DRAWN BY: GSK	CHECKED BY: KAD	APPROVED BY: <sup>Hand signature</sup> <sub>on file</sub> JDK*	FIGURE NO: <b>1</b>
DATE: 08/15/2017	SCALE: 1" = 1,000'	PROJECT NO: 172-990.AW00	<b>09/22/2017</b>

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WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-033-00034 WELL NO.: 1  
 FARM NAME: Lancaster, Frank  
 RESPONSIBLE PARTY NAME: XTO Energy INC.  
 COUNTY: Harrison DISTRICT: Sardis  
 QUADRANGLE: Wolf Summit, WV  
 SURFACE OWNER: Meredith Cheryl Lynn & William John  
 ROYALTY OWNER: See Attached  
 UTM GPS NORTHING: 4356505.5 meters  
 UTM GPS EASTING: 551152.3 meters GPS ELEVATION: 1088'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

B. C. [Signature] Project Manager 8-18-17  
 Signature Title Date

09/22/2017  
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3300034A

# LANCASTER 01 WELL PLUGGING PROJECT EROSION AND SEDIMENT CONTROL PLAN XTO ENERGY, INC.

(LOCATION OF WELL)

**XTO ENERGY, INC.**  
PO BOX 1000  
JANE LEVY, WV 26076  
PH: (304) 864-0090  
CONTACT: TERRY SANDS

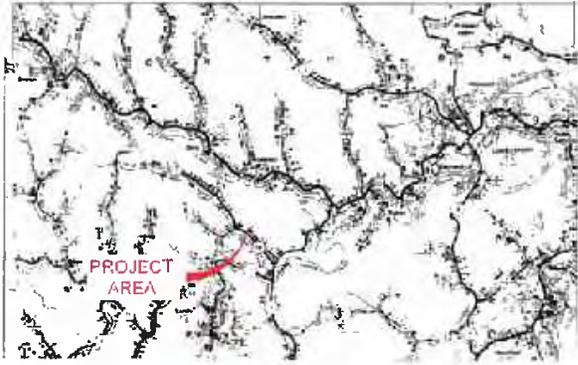
**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.**  
800 MARKET PLACE AVE - SUITE 200  
BRIDGECROFT, WV 26030  
PH: (304) 933-3119  
CONTACT: STEVEN A. CAIN, P.E.

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
1000 UNIVERSITY AVENUE  
CHARLESTON, WV 25304  
PH: (304) 251-2222

LOCAL EMERGENCY TABLE		
EMERGENCY	NAME	PHONE NUMBER
FIRE	911	
HAZARDOUS MATERIAL RESPONSE	UNIVERSITY OF WEST VIRGINIA	800.444.4600
TOXIC SUBSTANCE	UNIVERSITY OF WEST VIRGINIA	800.546.2721
HAZARDOUS WASTE	911	
HAZARDOUS MATERIAL RESPONSE	WEST VIRGINIA UNIVERSITY	800.222.2222



**LOCATION MAP**  
WOLF SUMMIT USGS 7.5 QUAD  
SCALE IN FEET  
1 INCH = 1000 FEET



**VICINITY MAP**  
HARRISON COUNTY ROAD MAPS  
SCALE IN FEET  
1 INCH = 1 MILE

SHEET NO.	DESCRIPTION
SHEET 1 OF 4	COVER SHEET
SHEET 2 OF 4	EROSION AND SEDIMENT CONTROL PLAN
SHEET 3 OF 4	EROSION AND SEDIMENT CONTROL PLAN
SHEET 4 OF 4	EROSION AND SEDIMENT CONTROL PLAN

**NO BURIED IRON WARNING**

THIS WARNING IS REQUIRED ON ALL EXCAVATION OPERATIONS IN ORDER TO PROTECT THE PUBLIC FROM BURIED IRON.

IF YOU HAVE BEEN BURIED IRON OPERATIONS, YOU MUST STOP THE OPERATIONS AND REPORT TO THE LOCAL HEALTH DEPARTMENT AND THE STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

WARNING: NEVER EXCAVATE IN UTILITY AND POWER AREAS.



ESTIMATED QUANTITIES			
	LINE FEET	MIN.	MAX.
STANDARD CONCRETE PIPES	720	50	
PRECAST CONCRETE	500	50	
EROSION CONTROL MAT	100		
EROSION CONTROL MAT	175		

SEE DIMENSIONS ON PLAN SHEETS

RECEIVED  
Office of Oil and Gas  
SEP - 5 2017  
WV Department of Environmental Protection

SDW  
8/29/2017



**Civil & Environmental Consultants, Inc.**

XTO ENERGY, INC.  
LANCASTER 01 WELL PLUGGING  
SARDIS DISTRICT  
HARRISON COUNTY, WV

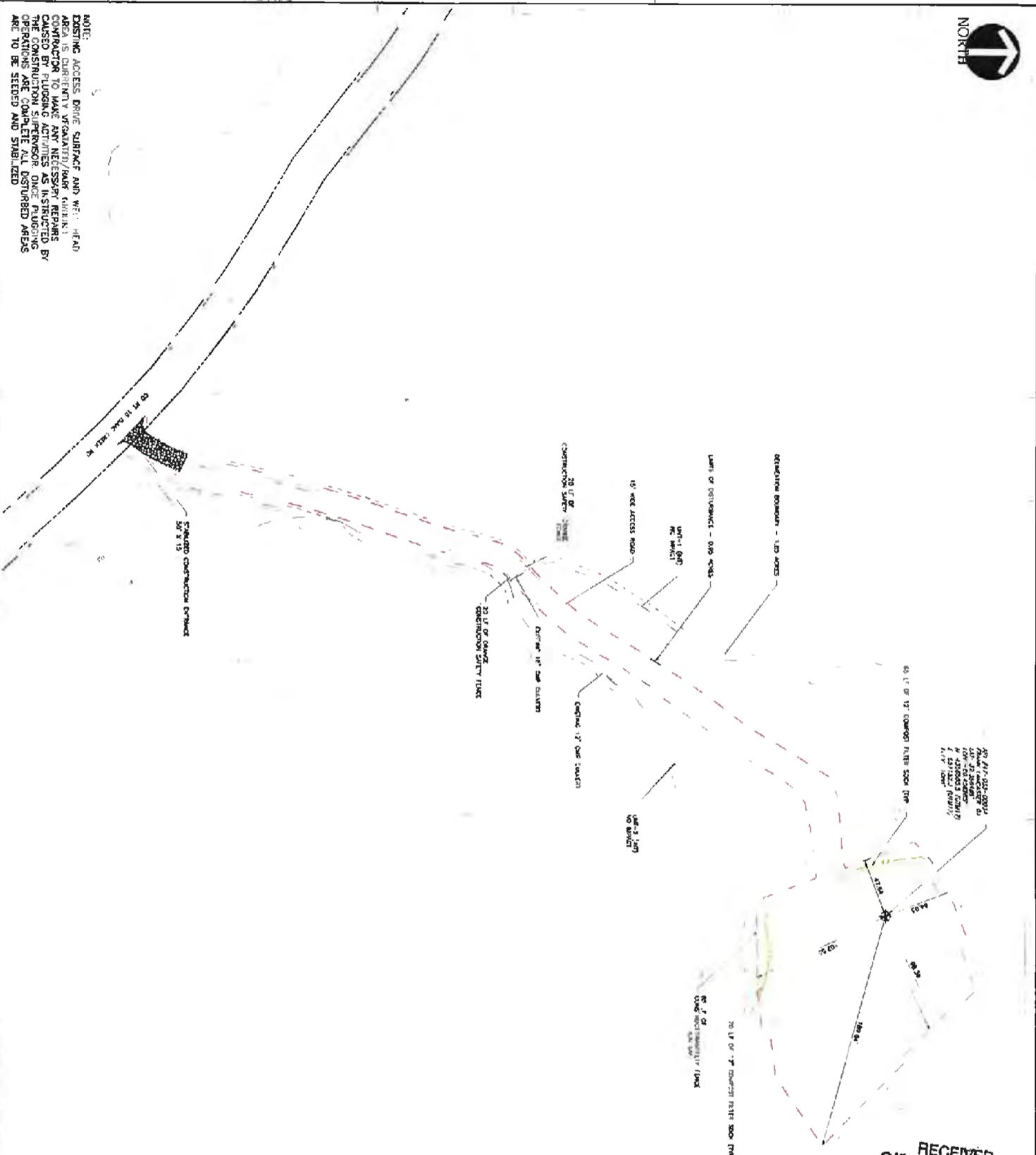
COVER SHEET

1





NOTE:  
 EXISTING ACCESS DRIVE SURFACE AND WELL HEAD AREA IS CURRENTLY VEGGATION/BAD GRASS. CONTRACTOR TO MAKE ANY NECESSARY REPAIRS CAUSED BY PLUGGING ACTIVITIES AS INSTRUCTED BY THE CONSTRUCTION SUPERVISOR. ONCE PLUGGING OPERATIONS ARE COMPLETE ALL DISTURBED AREAS ARE TO BE SEEDS AND STABILIZED.



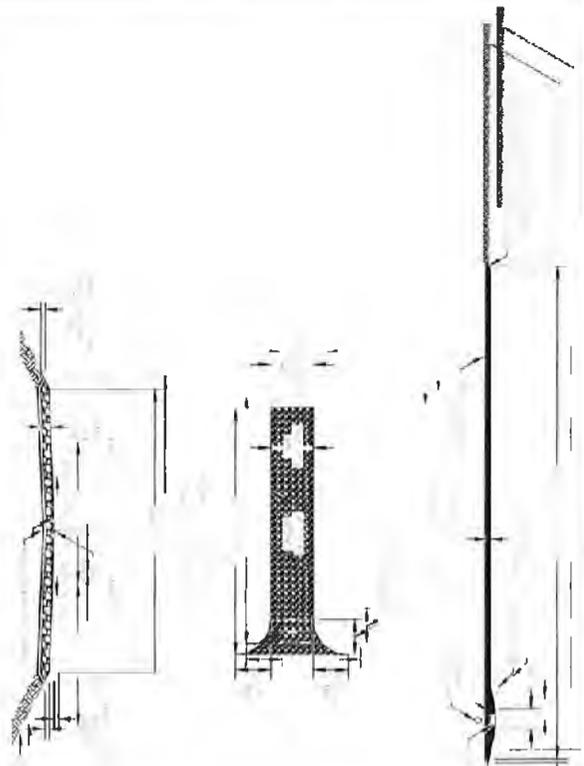
RECEIVED  
 Office of Oil and Gas  
 SEP - 5 2017  
 WV Department of  
 Environmental Protection

09/22/2017

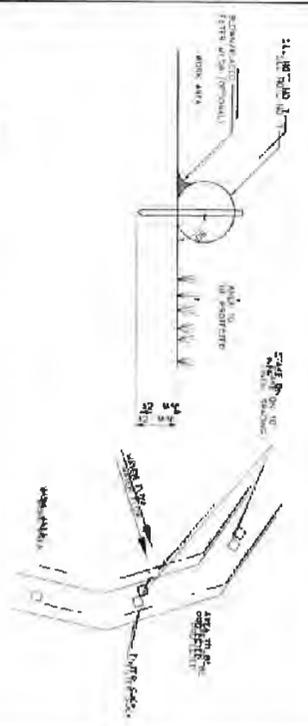
SCALE: 1" = 10' FEET



SHEET NO. 3 OF 3	EROSION & SEDIMENT CONTROL PLAN	XTO ENERGY, INC. LANCASTER OIL WELL PLUGGING HARRISON COUNTY, WV	Civil & Environmental Consultants, Inc.	REVISIONS RECEIVED	
	DATE: 01.5.2015 DRAWN BY: ASHLEY REVISED: 09.22.2017 PROJECT NO: 15020			DATE: 09.22.2017 BY: [ ] FOR: [ ]	DATE: [ ] BY: [ ] FOR: [ ]

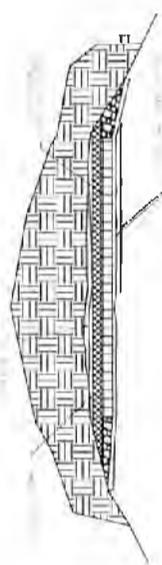


DETAIL 1  
STAIR PROPORTION WITH FINISHES  
1/8" = 1'-0"



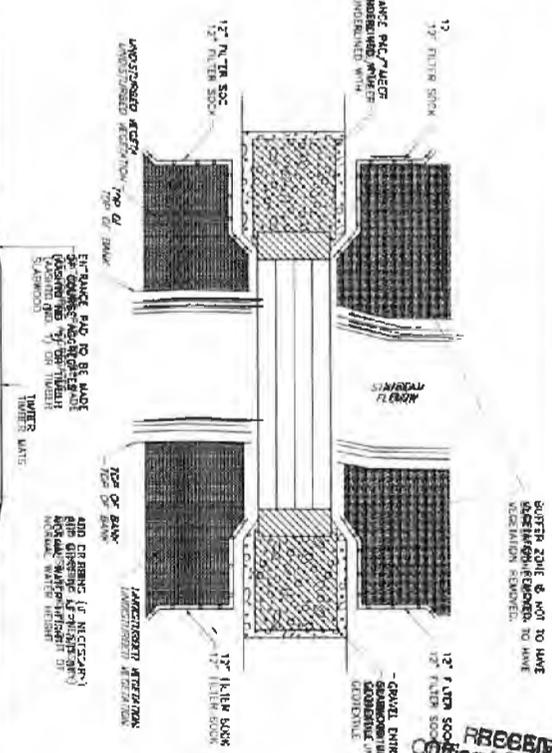
1. WINDOW FRAME SHALL BE MADE OF ALUMINUM FINISH  
2. GLASS SHALL BE 1/2" CLEAR ANODIZED ALUMINUM  
3. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
4. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
5. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
6. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
7. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
8. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
9. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
10. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM

DETAIL 3  
CONCRETE FILTER SOCK  
1/8" = 1'-0"



1. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
2. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
3. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
4. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
5. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
6. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
7. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
8. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
9. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE  
10. CONCRETE FILTER SOCK SHALL BE MADE OF CONCRETE

DETAIL 4  
TIMBER MATT SHIELDING FOR SIGHTLINE CROSSING  
1/8" = 1'-0"



1. WINDOW FRAME SHALL BE MADE OF ALUMINUM FINISH  
2. GLASS SHALL BE 1/2" CLEAR ANODIZED ALUMINUM  
3. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
4. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
5. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
6. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
7. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
8. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
9. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM  
10. WINDOW SHALL BE OPERABLE WITH 1/2" CLEAR ANODIZED ALUMINUM

DETAIL 2  
TRANSOMARY TIMBER MATT SIGHT CROSSING DETAIL  
1/8" = 1'-0"



1. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
2. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
3. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
4. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
5. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
6. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
7. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
8. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
9. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER  
10. TIMBER MATT SHIELD SHALL BE MADE OF TIMBER

DETAIL 5  
TYPICAL CONSTRUCTION ALLIGER BOARD DETAIL  
1/8" = 1'-0"

RECEIVED  
Office of the  
SCDP 152007  
09/22/2015  
WVDD  
Environmental Protection

