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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

Earl Ray Tomblin , Governor  
Randy C. Huffman , Cabinet Secretary  
www.dep.wv.gov

Friday, August 26, 2016  
WELL WORK PERMIT  
Vertical / Plugging - 3

XTO ENERGY, INC.  
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for A-E-42  
47-033-01997-00-00

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. Martin  
Chief

Operator's Well Number: A-E-42  
Farm Name: GAWTHROP, A.  
U.S. WELL NUMBER: 47-033-01997-00-00  
Vertical / Plugging - 3  
Date Issued: 8/26/2016

Promoting a healthy environment.

08/26/2016

## 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.

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### 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 July 12, 2016  
2) Operator's Well No. A-E-42  
3) API Well No. 47-033 - 01997

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 1380' Watershed 0502000303  
District Clark 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 Name Sam Ward  
Address PO Box 2327  
Buckhannon, WV 26201  
9) Plugging Contractor Name \_\_\_\_\_  
Address \_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:  
RIH with tools and check TD of well at 4645', POOH and run tubing down to 4645' and circulate 6% gel back to surface, then pump cement from 4645' up to 4300', perfs at 4630 - 4624' & 4467 - 4450'  
then pull tubing up to 4025' and wait for cement to set up and run small tools down tubing to tag cement at 4300', if ok then pump cement from 4025' up to 3800', perfs at 3953' - 3945', pull tubing  
out of well and run wireline with BCL to find top of cement and free casing, estimated at 2800', cut casing and circulate 6% gel back to surface, pull all casing out and run tubing back to  
cut at 2800' and pump cement up to 2650', pull tubing up to 2000' and pump cement up to 1700', pull tubing up to 1460' and pump cement up to 1280', bottom of 8 5/8 at 1396', elev. at 1372',  
Pull tubing up to 650' and pump cement up to 550', pull tubing up to 200' and pump cement to surface. 8 5/8 cemented to surface. Install well monument.  
Cement - 4645 - 4300' = 345' in 4.5" Cement - 2000 - 1700' = 300' in 7 7/8" Cement 200 - Surface = 200' in 8 5/8"  
Cement - 4025 - 3800' = 225 in 4.5" Cement - 1460 - 1280' = 180' in 8 5/8"  
Cement - 2800 - 2650' = 150 in 7 7/8" Cement - 650 - 550' = 100' in 8 5/8"

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

Work order approved by inspector [Signature]

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Date 7/14/16  
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3301997P

OG-10  
Rev. - 9-71



DEC 26 1979

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division  
WELL RECORD 3

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Wolf Summit  
Permit No. 47-033-1997

Company Appalachian Energy, Inc. d/b/a LDR  
Address 728 Washington Road, Pgh., PA 15228  
Farm A. Gawthrop Acres 235  
Location (waters) Simpson Fork  
Well No. A-E-42 Elev. 1372  
District Clark County Harrison  
The surface of tract is owned in fee by Edna E. Gawthrop  
Address Rt. 3, Box 568 Clarksburg, WV 26301  
Mineral rights are owned by Same as above  
Address \_\_\_\_\_  
Drilling Commenced 5-28-79  
Drilling Completed 6-04-79  
Initial open flow 103 M cu. ft. --- bbls.  
Final production 350 M cu. ft. per day --- bbls.  
Well open 72 hrs. before test 750 RP.  
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
11 3/4	279	279	170 Sks.
9 5/8			
8 5/8	1396	1396	300 Sks.
7			
5 1/2			
4 1/2	3936	3939	360 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.

STIMULATION RECORD:

DATE:	INTERVAL PERFORATED:	FROM	TO	AMT. FLUID	AMT. SAND
6-15-79		3945	- 3953	378 BBLs	42,500#
		4450	- 4667	310 BBLs	42,500#
		4624	- 4630	398 BBLs	47,500#

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water 1145' & 1180' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Bradford, Riley, Benson Depth 3960, 4480, 4630

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	31		
Sand			31	120		
Shale			120	125		
Sand			125	165		
Shale & Sand			165	295		
Sandy Shale			295	345		
Sand			345	360		
Sandy Shale - Red Rock			360	535		
Sand			535	645		
Shale			645	670		
Sand			670	710		
Sandy Shale			710	755		
Sand			755	825		
Shale			825	845		
Sand			845	945		
Shale			945	970		
Sand			970	1045		
Sandy Shale			1045	1100		
Sand			1100	1255		
Sandy Shale			1255	1560		
Sand			1560	1580		
Lime & Sand			1580	1705		
Sandy Shale			1705	2025		
Sand			2025	2085		

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Water @ 1145' & 1180'

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	Remarks
Sandy Shale			2085	2120		
Sand			2120	2290		
Sandy Shale - Red Rock			2290	2305		
Sandy Shale			2305	4645	Gas @ 3110' & 4600'	
Sand			4645	4650		
Sandy Shale			4650	4782		
Drillers' T. D.				4782		

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08/26/2016

Date Dec. 17 19 79  
 APPROVED Donald R. Laughlin Owner  
 by President  
 (Title)

WELL NUMBER	WELL NAME	OWNER NUMBER	OWNER NAME	ROYALTY INTEREST	ADDRESS LINE1	CITY	STATE	ZIP
301680	GAWTHROP, A 01 (INA)	99985	XTO ENERGY INC	0.061316500	810 HOUSTON	FORT WORTH	TX	761020000
301680	GAWTHROP, A 01 (INA)	187341	JAMES E STOUT	0.022500000	RT 1 BOX 45	LOST CREEK	WV	263850000
301680	GAWTHROP, A 01 (INA)	306719	REMERGY LP	0.000595100	PO BOX 3788	MIDLAND	TX	797020000
301680	GAWTHROP, A 01 (INA)	801307	WILLIAM GARRETT	0.005625000	1313 MOCKINGBIRD RD	KEY LARGO	FL	330373865
301680	GAWTHROP, A 01 (INA)	801914	JOHN B. VAN VERTH	0.005625000	ROUTE #5	MERCER	PA	161370000
301680	GAWTHROP, A 01 (INA)	801915	CATHERINE M. FAIRLAMB	0.005625000	ROUTE 1 BOX 150	STONEBORO	PA	161530000
301680	GAWTHROP, A 01 (INA)	803329	GUY R. GARRETT	0.005625000	ROUTE 7 BOX 193	FAIRMONT	WV	265540000
301680	GAWTHROP, A 01 (INA)	803386	WILMA LEE KIDD	0.014375000	ROUTE #3 BOX #557-E	CLARKSBURG	WV	263010000
301680	GAWTHROP, A 01 (INA)	803577	MARY F. GARRETT	0.011250000	215 S. 6TH STREET APT. M	CLARKSBURG	WV	263010000
301680	GAWTHROP, A 01 (INA)	805617	EDITH MARIE RATLIFF, EXECUTRIX	0.028750000	ROUTE #3 BOX #568	CLARKSBURG	WV	263010000
301680	GAWTHROP, A 01 (INA)	808709	MARY REPP	0.005625000	533 VALLEY DR. APT. #2	MEDINA	OH	442560000
301680	GAWTHROP, A 01 (INA)	808727	DAISY J. CLARKE	0.014375000	4016 WINDERMERE ROAD	COLUMBUS	OH	432200000
301680	GAWTHROP, A 01 (INA)	808843	MARGARET PHILLIPS	0.005625000	266 PARKVIEW AVENUE	WADSWORTH	OH	442810000
301680	GAWTHROP, A 01 (INA)	809613	APPALACHIAN ROYALTIES, INC.	0.062500000	PO BOX 1917	CLARKSBURG	WV	263010000

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WW-4A  
Revised 6-07

1) Date: 7/12/2016  
2) Operator's Well Number  
A-E-42  
3) API Well No.: 47 - 033 - 01997

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>See attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See attached</u>
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector <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>	Address _____

**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.



Well Operator XTO Energy Inc.  
 By: [Signature]  
 Its: Regulatory Compliance Technician  
 Address PO Box 1008  
Jane Lew, WV 26378  
 Telephone 304-884-6000

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JUL 18 2016

Subscribed and sworn before me this 12th day of July 2016  
Dianne Rickles 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).

08/26/2016

**Surface**

Marsha S. Pearson  
3409 Old Davisson Run Rd  
Clarksburg, WV 26301

Tobey & Autumn Knight  
381 Blackhawk Way  
Wallace, WV 26448

Janice Bailey & Sandra Clemente  
147 Coal Spring Dr.  
Clarksburg, WV 26301

Judith Jordan  
91 Coal Spring Dr.  
Clarksburg, WV 26301

Betty Straley & Shirley Johnson  
678 Geneva Dr.  
Westminster, MD 21157

**Coal**

Judith Jordan  
91 Coal Spring Dr.  
Clarksburg, WV 26301

Janice Bailey & Sandra Clemente  
147 Coal Spring Dr.  
Clarksburg, WV 26301

Stephen E. Kidd  
1205 County Rd.  
Baileyton, AL 35019

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3301997P

WW-9  
(5/16)

API Number 47 - 033 - 01997  
Operator's Well No. A-E-42

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 (HUC 10) 0502000303 Quadrangle Wolf Summit

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

Will a pit be used? Yes  No  -TS 8/25/16

If so, please describe anticipated pit waste: Fluids from plugging operations. NA - TS 8/25/16

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? Yes 20 mil. NA - TS 8/25/16

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))

*ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE HAULING OFF SITE. J.W.M. 8/25/16*

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

*SOW 7/14/16*

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 *Tim Sands*

Company Official (Typed Name) Tim Sands

Company Official Title Regulatory Compliance Technician

Subscribed and sworn before me this 12<sup>th</sup> day of July, 20 16

*Dianne Rickles*

Notary Public

My commission expires September 26, 2018



08/26/2016

Form WW-9

Operator's Well No. A-E-42

Proposed Revegetation Treatment: Acres Disturbed 1.77+/- Prevegetation pH \_\_\_\_\_

Lime according to PH test Tons/acre or to correct to pH 7.0

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
<u>Annual Ryegrass</u>	<u>40</u>	<u>Ladino Clover</u>	<u>30</u>
		<u>Serecia Lespedeza</u>	<u>25</u>
		<u>Tall Fescue</u>	<u>2</u>

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: S. D. Dubowitz

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title: OOG Inspector

Date: 7/14/16

Field Reviewed? ( ) Yes ( X ) No

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WW-9- GPP  
Rev. 5/16

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API Number 47 - 033 - 01997  
Operator's Well No. A-E-42

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

Operator Name: XTO Energy Inc.  
Watershed (HUC 10): 0502000303 Quad: Wolf Summit  
Farm Name: GAWTHROP, A.

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

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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 - 01997  
Operator's Well No. A-E-42

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

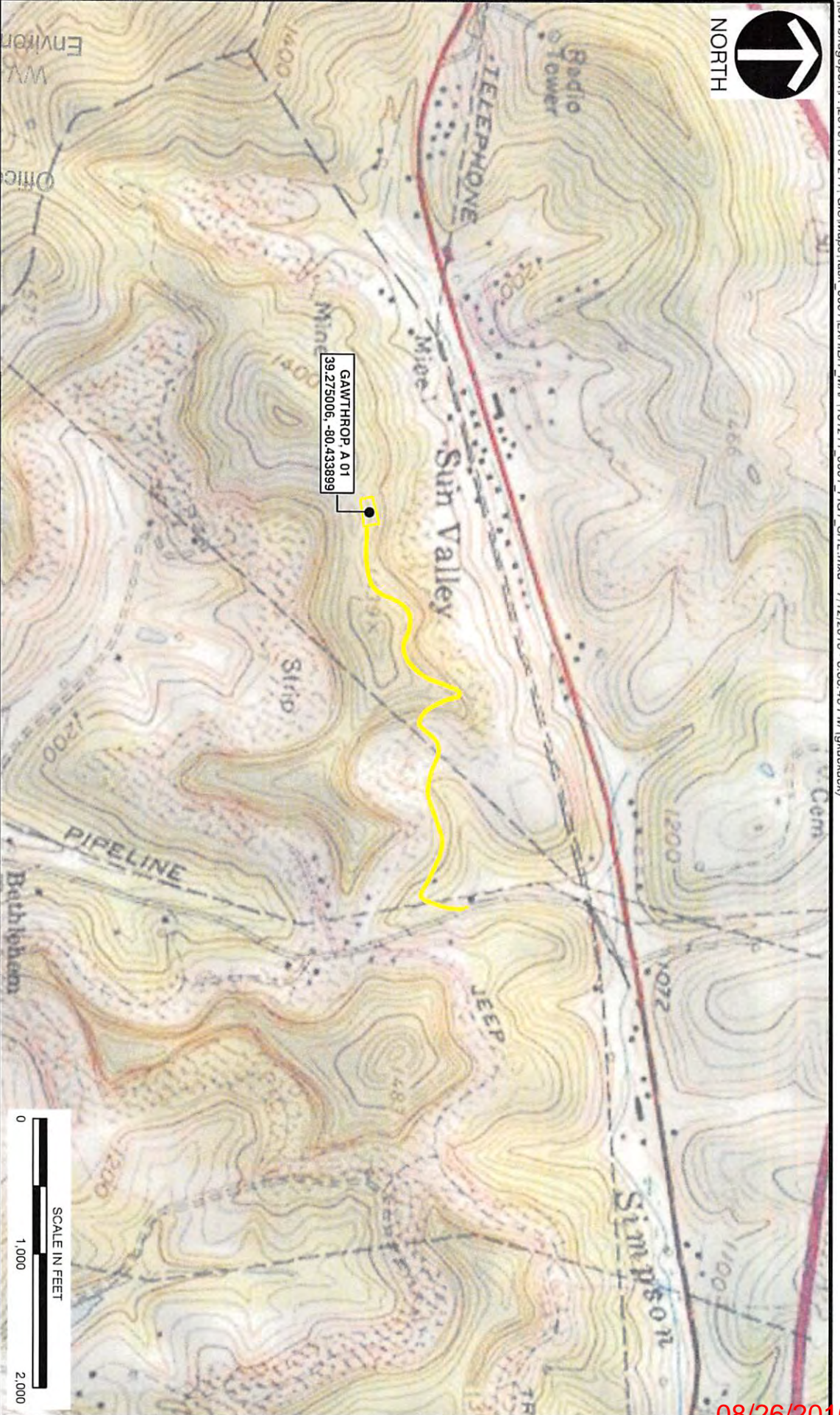
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: *T. Sa*

Date: 7/12/16

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**LEGEND**  
PROPOSED WELLS

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JUL 8 2016

1. USGS TOPOGRAPHIC MAP / ARCGIS MAP SERVICE:  
HTTP://GOTO.ARCGISONLINE.COM/MAPS/  
USA\_TOPO\_MAPS, ACCESSED 7/12/2016  
WOLF SUMMIT, WEST VIRGINIA QUAD



**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

XTO ENERGY, INC.  
GAWTHROP, A 01 WELL PLUGGING PROJECT  
HARRISON COUNTY, WEST VIRGINIA

**USGS SITE LOCATION MAP**

DRAWN BY:	GSK	CHECKED BY:	JDK	APPROVED BY:	SAC	FIGURE NO:
DATE:	07/12/2016	SCALE:	1" = 1,000'	PROJECT NO:	161-211.0001	<b>1</b>

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-033-01997 WELL NO.: AE-42

FARM NAME: Gawthrop, A.

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Harrison DISTRICT: Clay

QUADRANGLE: Wolf Summit

SURFACE OWNER: Sandra C. Bailey, Sandra Sue Clemente & Judith Ann Jordan

ROYALTY OWNER: See attached list

UTM GPS NORTHING: 4347448.6

UTM GPS EASTING: 548829.2 GPS ELEVATION: 421 meters (1381')

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:

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

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

- 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.

[Signature]  
Signature

Project Manager  
Title

June 30, 2015  
Date  
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JUL 18 2015  
Department of  
Environmental Protection

08/26/2016

3301997P

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

**PROJECT OWNER/APPLICANT**  
**XTO ENERGY, INC.**  
 PO BOX 1008  
 JANE LEW, WV 26376  
 PH (304) 884-6036  
 CONTACT TIM SANDS

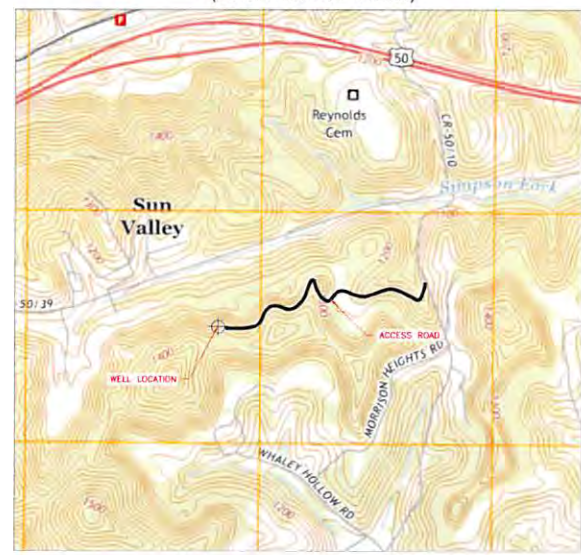
**ARCHITECT**  
 DISTRICT FOUR  
 P.O. BOX 942, 2801  
 COLONAC, HAY TERSE, DISTRICT ENGINEER

**CIVIL ENGINEER**  
**CIVIL & ENVIRONMENTAL  
CONSULTANTS, INC.**  
 600 MARKETPLACE AVE - SUITE 200  
 BRIDGEPORT, WV 26330  
 PH (304) 623-3119  
 CONTACT STEVEN A. CAIN, P.E.

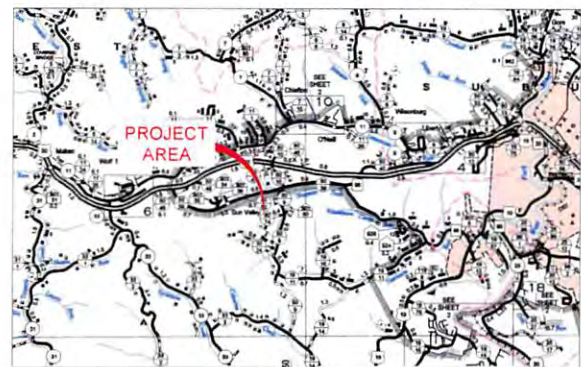
**STATE ENGINEER**  
 WEST VIRGINIA DEPARTMENT OF  
 ENVIRONMENTAL PROTECTION (WVDEP)  
 P.O. BOX 1042, 2074  
 NATIONAL RESPONSE CENTER  
 P.O. BOX 444, 26302

LOCAL EMERGENCY SERVICES		
	NAME	PHONE NUMBER
AMBULANCE		911
HOSPITAL EMERGENCY ROOM	UNITED HOSPITAL CENTER	(800) 342-0600
FIRE DEPARTMENT	REYNOLDSVILLE FIRE DEPARTMENT	(304) 623-3754
POLICE DEPARTMENT		911
POISON CONTROL CENTER	WEST VIRGINIA POISON CENTER	(800) 222-7272

(LOCATION OF WELL)



**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 INDEX	
SHEET 1 OF 5	COVER SHEET
SHEET 2 OF 5	EROSION AND SEDIMENT CONTROL PLAN NOTES
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SHEET 5 OF 5	EROSION AND SEDIMENT CONTROL PLAN DETAILS

**PLAN REPRODUCTION WARNING**  
 THIS PLAN HAS BEEN REPRODUCED ON ANSIC 492 X 347 SHEETS FOR FIELD USE. THESE REPRODUCTIONS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.  
 THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.  
 \*WARNING: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.



ESTIMATED QUANTITIES					
	EST. QTY	UNITS	BID QTY	UNIT PRICE	TOTAL COST
STABILIZED CONSTRUCTION ENTRANCE	2	LF			
IMPERMEABLE CURB	N/A	EA			
STORMWATER SEDIMENTATION BASIN	1	EA			
12' DIAMETER 12" THICK CONCRETE PIPE	201	LF			
ORANGE CONSTRUCTION FENCE	118	LF			

\* SEE DIMENSIONS ON PLAN DRAWINGS

RECEIVED  
Office of Oil and Gas

SDW JUL 18 2016

7/14/16 WV Department of Environmental Protection

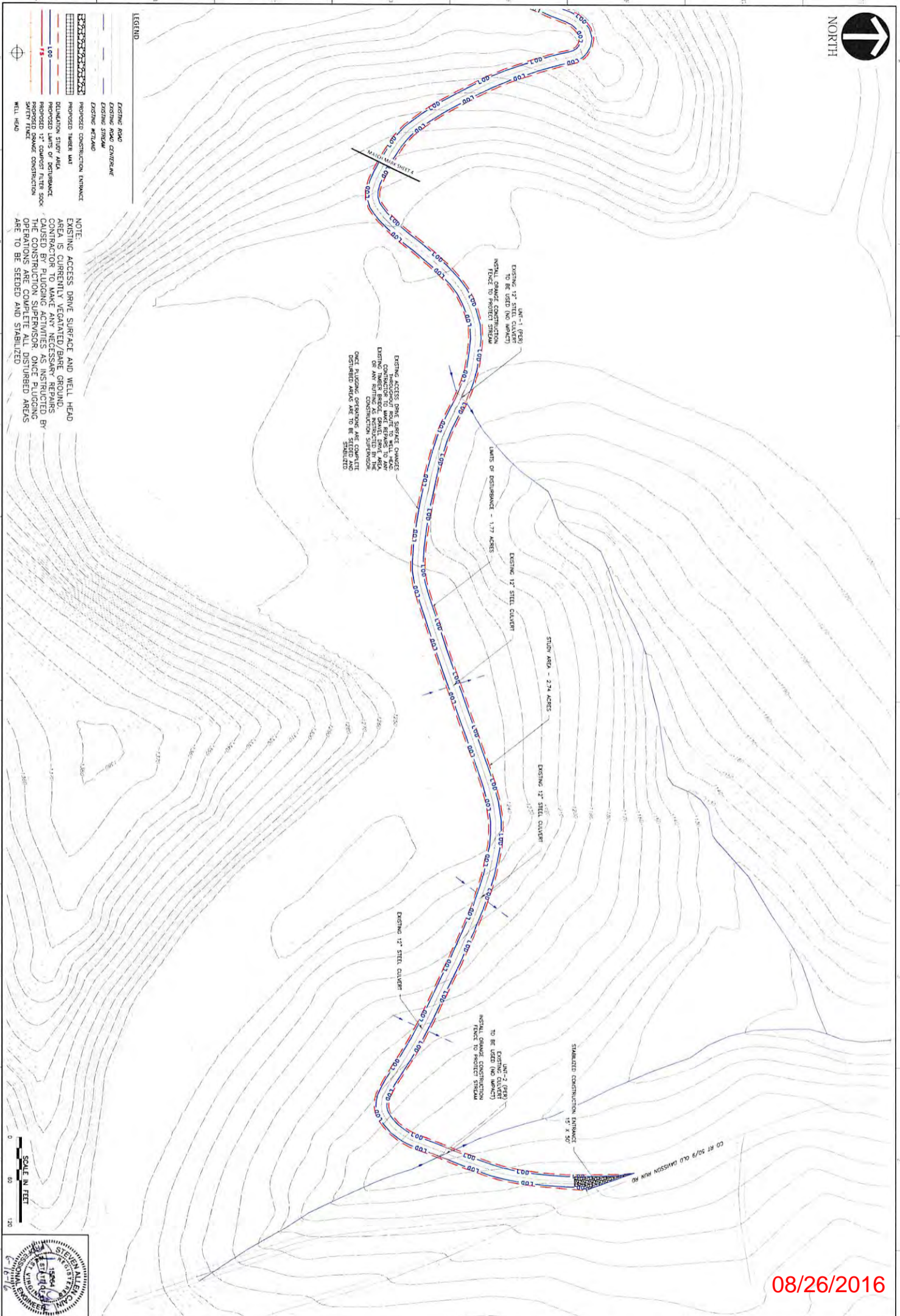


 <b>Civil &amp; Environmental Consultants, Inc.</b>	<b>XTO ENERGY, INC.</b> <b>GAWTHROP WELL PLUGGING</b> <b>CLARK DISTRICT</b> <b>HARRISON COUNTY, WV</b>
COVER SHEET	DRAWING NO: <b>1</b>
DATE: 07/14/2016 DRAWN BY: AS/SHAWA/SHAWA/PT PROJECT NO: 3301997P SHEET NO: 1 OF 5	 <b>STEVEN ALLEN CAIN</b> REGISTERED PROFESSIONAL ENGINEER STATE OF WEST VIRGINIA No. 15864 Exp. 12/31/16

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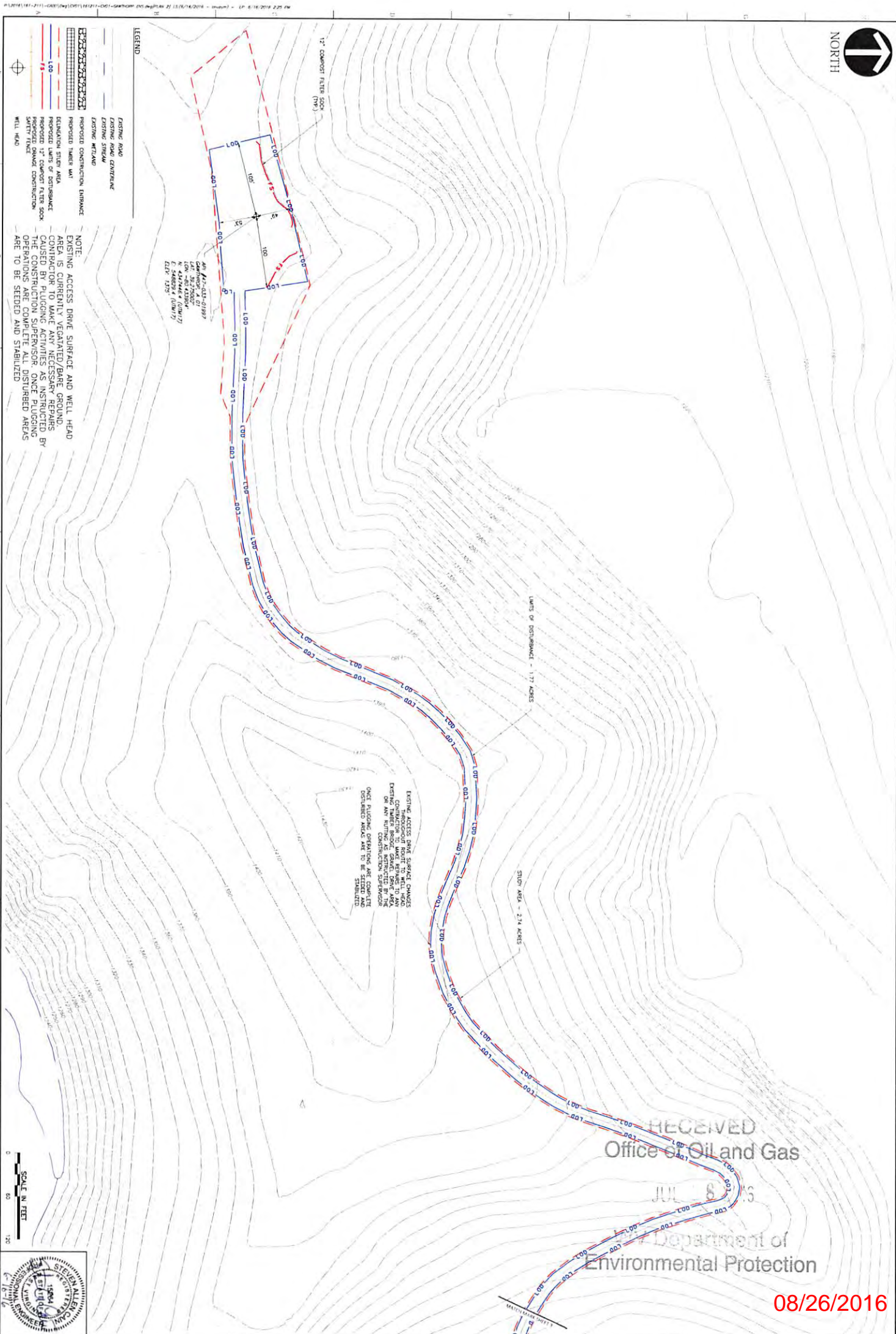
- LEGEND**
- EXISTING ROAD CENTERLINE
  - EXISTING ROAD
  - EXISTING STRIP
  - EXISTING METADAM
  - PROPOSED CONSTRUCTION ENTRANCE
  - PROPOSED TRAILER MAT
  - DELUCTION STUDY AREA
  - PROPOSED LIMITS OF DISTURBANCE
  - PROPOSED 12\"/>
  - PROPOSED 12\"/>
  - PROPOSED CONSTRUCTION SAFETY FENCE
  - WELL HEAD

**NOTE:**  
 EXISTING ACCESS DRIVE SURFACE AND WELL HEAD AREA IS CURRENTLY VEGETATED/BARE GROUND. CONTRACTOR TO MAKE ANY NECESSARY REPAIRS TO ACCESS DRIVE SURFACE AND WELL HEAD. THE CONSTRUCTION SUPERVISOR, ONCE PLUGGING OPERATIONS ARE COMPLETE ALL DISTURBED AREAS ARE TO BE SEEDED AND STABILIZED.

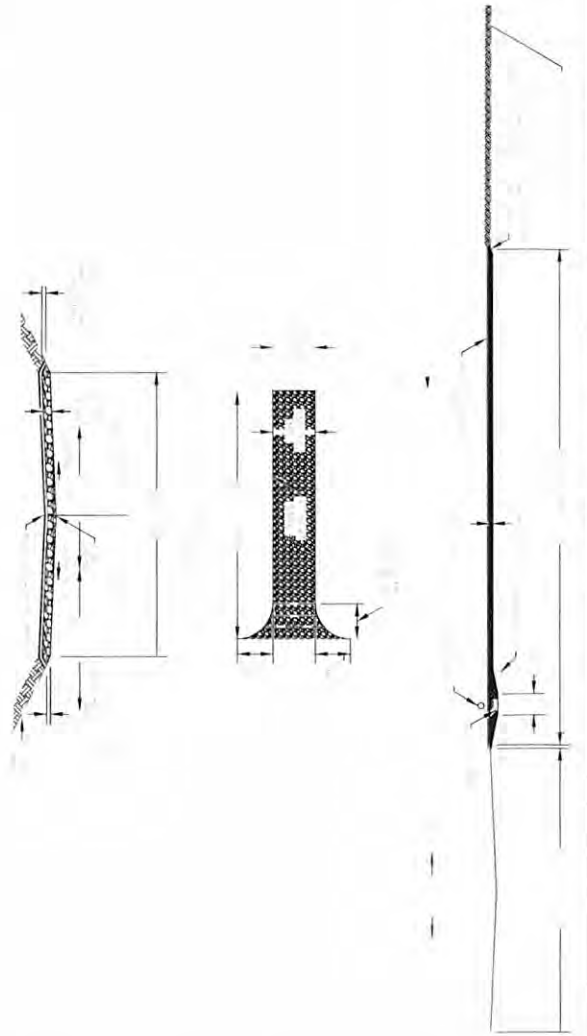


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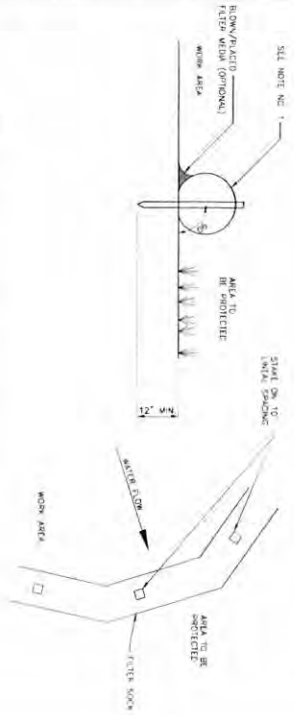
SHEET 3 OF 5	EROSION & SEDIMENT CONTROL PLAN		XTO ENERGY, INC. GAWTHROP WELL PLUGGING CLARK DISTRICT HARRISON COUNTY, WV	 <b>Civil &amp; Environmental Consultants, Inc.</b> WWW.CEC-INC.COM	REVISION RECORD	
	DATE	DESCRIPTION			NO.	DATE
DATE: JUNE 2016	DRAWN BY: CCN					
DATE: AS SHOWN	CHECKED BY: ZMI					
PROJECT NO: 161-211	SAC:					
APPROVED BY:						



<p>PROJECT: 4</p> <p>DATE: JUNE 2016</p> <p>DRAWN BY: CCM</p> <p>CHECKED BY: ZMH</p> <p>PROJECT NO: 161-211</p> <p>APPROVED BY: SAC</p>	<p><b>EROSION &amp; SEDIMENT CONTROL PLAN</b></p>	<p><b>XTO ENERGY, INC.</b>                  GAWTHROP WELL PLUGGING                  CLARK DISTRICT                  HARRISON COUNTY, WV</p>	<p><b>C.E.C.</b>                  Civil &amp; Environmental Consultants, Inc.</p> <p>www.ccec.com</p>	<p>REVISION RECORD</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION									
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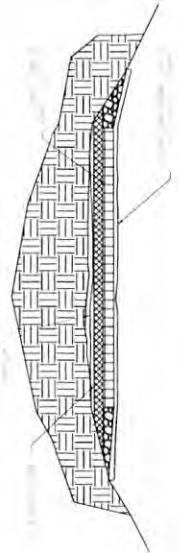
DETAIL 1  
STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE



DETAIL 2  
TEMPORARY TIMBER MAT STREAM CROSSING DETAIL  
NOT TO SCALE

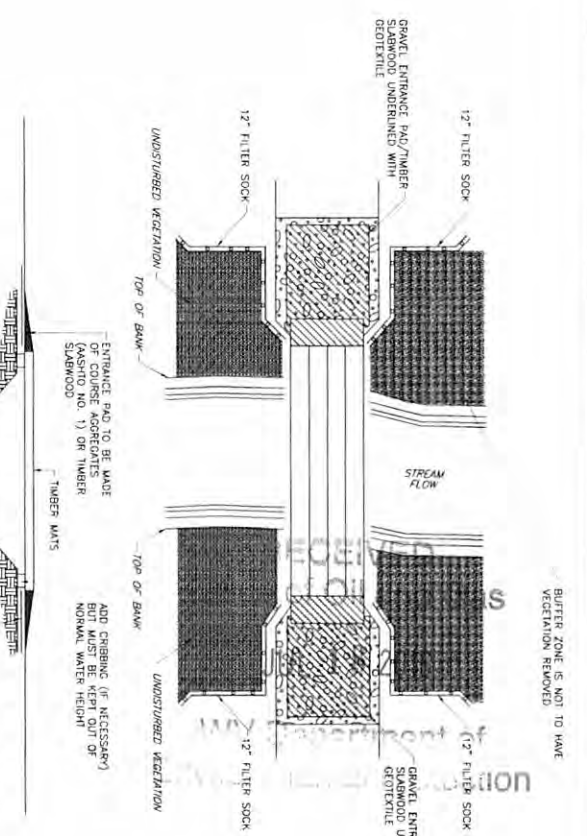
- NOTE:
- 1) COMPOST FILTER SOCK TO BE EXPOSED TO SOAK OR APPROVED EQUIVALENT FOR 24 HOURS.
  - 2) 12" 18" 24" and 36" COMPOST FILTER SOCK TO BE USED SEE PLAN SHEET FOR SIZES AND LOCATIONS.
  - 3) ACCUMULATED SEDIMENT SHALL BE REMOVED AND DEPOSITED ON NEARBY EROSION CONTROL MEASURES.
  - 4) COMPOST FILTER SOCK SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. IF THE SOCK IS FOUND TO BE SATURATED, IT SHALL BE REPLACED WITH A NEW SOCK.
  - 5) COMPOST FILTER SOCK SHALL BE INSTALLED ON THE DOWNSTREAM PERIPHERY OF THE WORK AREA.

DETAIL 3  
COMPOST FILTER SOCK  
NOT TO SCALE



DETAIL 4  
TIMBER MAT BRIDGE FOR WETLAND CROSSING  
NOT TO SCALE

- NOTE:
- 1) BRIDGE DECK SHALL BE CONSTRUCTED WITH 4" x 6" x 12' SPACED AT 12" ON CENTER.
  - 2) BRIDGE SHOULD BE STRENGTHENED AT ONE END AND ONE END TO BE STRENGTHENED AT THE OTHER END.
  - 3) BRIDGE ACCEPTABLE APPROX. ARE UNDER 1000 LB. LOADS.
  - 4) BRIDGE SHALL BE INSTALLED ON THE DOWNSTREAM PERIPHERY OF THE WORK AREA.
  - 5) ALLOW FOR ANNUAL WETLAND IMPACT DURING CONSTRUCTION AND QUICK RESTORATION TO PRE-CONSTRUCTION CONDITIONS.



- NOTES:
- 1) ONLY CLEARING EQUIPMENT AND EQUIPMENT NECESSARY FOR INSTALLATION OF EQUIPMENT OR EACH WATER BODY TO BE CLEARED. LIMIT THE CROSSING OF EACH WATER BODY TO ONE PIECE OF CLEARING EQUIPMENT.
  - 2) INSTALL 12" FILTER SOCK ACROSS THE DISTURBED AREA OF THE RIGHT-OF-WAY.
  - 3) APPLY GEO-TEXTILE UNDER ENTRANCE PADS.
  - 4) EXCESS WAD IS TO BE REMOVED FROM THE ENTRANCE PADS AND MATS DURING CONSTRUCTION.
  - 5) SECURE GEO-TEXTILE TO UNDER SIDE OF TIMBER MATS AND WARP SECURE TO SIDES TO PREVENT SEDIMENT/WAD FROM MIGRATION THROUGH MATS TO PROTECTED AREA BELOW.
  - 6) DURING FINAL CLEAN UP WHEN MATS CHANGERS, CLEAN ROCK FALL, ETC. ARE REMOVED, INSTALL FILTER FENCE ACROSS THE ENTIRE RIGHT-OF-WAY ON BOTH SIDES OF STREAM.

DETAIL 3  
COMPOST FILTER SOCK  
NOT TO SCALE



DETAIL 5  
TYPICAL CONSTRUCTION ACCESS ROAD REPAIR  
NOT TO SCALE

- NOTES:
- 1) EXISTING ACCESS ROAD IS GRASSY & VEGETATED. THE CONTRACTOR SHALL MAKE REPAIRS TO MINOR RUTTING WITHIN THE ACCESS ROAD PER THIS DETAIL OR AS INSTRUCTED BY THE CONSTRUCTION SUPERVISOR. THE ACCESS ROAD IS TO BE STABILIZED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE PROJECT. THE ACCESS ROAD SHALL BE STABILIZED AND MAINTAINED THROUGHOUT THE PROJECT. THE ACCESS ROAD SHALL BE STABILIZED AND MAINTAINED THROUGHOUT THE PROJECT.
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