



west virginia department of environmental protection

Office of Oil and Gas
601 57th 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 - 2

XTO ENERGY, INC.
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for 1-34
47-033-02193-00-00

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: 1-34
Farm Name: HARBERT, MARIE S.
U.S. WELL NUMBER: 47-033-02193-00-00
Vertical / Plugging - 2
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.

CONDITIONS

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. 1-34
3) API Well No. 47-033 - 02193

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 1201' Watershed 0502000205 Tenmile Creek
District Sardis County Harrison Quadrangle Wallace

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:
See attached

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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JUL 18 2016
Date 7/14/2016 Department of
Environmental Protection

08/26/2016

3302193 A

47-033-02193

Plugging Procedure

	Pull 2" Tubing and packer out, packer at 3720', tubing at 4932'.
	TD 4.5" at 5150' - Run 2" tubing to 5145', circulate 6% to surface.
	6% gel - 5145' - Surface
10.5# Casing	Cement - 5145' - 4900' = 245' = 4 bbl = 20 sks
	Perfs - 5052' - 5023'
	Gel - 4900' - 4000'
	Cement - 4000' - 3700' = 300' = 5 bbl = 24 sks
	Perfs - 3896 - 3940'
	Pull 2" tubing out, RIH to CBL, Est. TOC at 3400'
	Cut 4.5" - 3400' - gel to Surface
	Cement - 3400' - 3200' = 200' x 0.0767 = 15.3 bbl = 73 sks
	Gel - 3200' - 2160'
	Cement - 2160' - 1900' = 260' x 0.0767 = 20 bbl = 96 sks
	Gel - 1900' - 1620'
S. Water 1560' Gas - 1450'	Cement - 1620' - 1400' = 220' x 0.0767 = 17 bbl = 81 sks
	Gel - 1400' - 1285'
Bottom of 8 5/8" - 1229'	Cement - 1285' - 1150' = 135' = 50 sks
	Gel - 1150' - 200' 750'
	Cement - 750' - Surface = 200' x 0.0641 = 13 bbl = 62 sks
	8 5/8" casing - cemented to Surface ?
	Install Well Monument
	Total Sacks Cement - 406
	Bentonite - 2000 lbs

SDW
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OG-10
Rev. - 9-71



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Wallace 7 1/2
Permit No. 47-033-2193

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

Company Doran & Associates, Inc.
Address 728 Washington Rd., Pgh. PA 15228
Farm Marie S. Harbert Acres 59.8
Location (waters) Little Rock Camp Run
Well No. K-L-274 Elev. 1201'
District Sardis County Harrison
The surface of tract is owned in fee by Christine S. Alleva, et al, c/o Frank Olive
Address 5039 N. Hampton Dr. Fort Myers, FL 33907
Mineral rights are owned by Marie Harbert, 33907
Agent Address Rt. 1, Lumberport, WV 26386
Drilling Commenced 10-9-79
Drilling Completed 10-18-79
Initial open flow _____ cu. ft. _____ bbls.
Final production 525 M cu. ft. per day 1 bbls.
Well open 4 hrs. before test 1600 RP.

Casing and Tubing	Used in Drilling	Left in Well
Size 20-16		
Cond. XXXX 11 3/4	31'	31'
9 5/8		
8 5/8	1229'	1229'
7		
5 1/2		
4 1/2		
3	5151'	5151'
2		
Liners Used		

Cement fill up
Cu. ft. (Sks.)

240 sks.
cts?

188 sks.

Well treatment details:
Date: 11-12-79 Attach copy of cementing record. Stimulation Record:
Interval Perforated: From: 5023 To: 3014 Amt Fluid: 528 BBLs Amt sand: 40,000#
3896 3922 619 BBLs 50,000#

Coal was encountered at 130, 270, 390, 645, 685 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Speechley Stray, Speechley, Balltown Depth 3404, 3550, 3910

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	31		
Sand			31	130		
Coal			130	136		
Sandy Shale			136	155	F.W. @ 145'	
Sand			155	270	F.W. @ 255'	
Coal			270	272		
Sand			272	370		
Sandy Shale			370	390		
Coal			390	393		
Sandy Shale			393	405		
Sand			405	645		
Coal			645	648		
Sand			648	685		
Coal			685	691		
Sandy Shale			691	820		
Sandy Shale-Red Rock			820	1075		
Sand			1075	1135		
Sandy Shale			1135	1155		
Sand			1155	1249		
Sandy Shale			1249	1290		
Sand			1290	1390		
Sandy Shale			1390	1550	Gas @ 1450'	
Sand			1550	1590	S. W. @ 1560'	

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* Indicates Electric Log tops in the remarks section.

(over)

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Formation	Color	Hard or Soft	Top Feet ²⁰	Bottom Feet	Oil, Gas or Water	* Remarks
Sandy Shale			1590	1720		
Sand			1720	1785		
Sandy Shale			1785	1795		
Sand			1795	2000		
Little Lime			2000	2010		
Big Lime			2010	2100		
Shale			2100	2265		
Sand			2265	2295		
Sandy Shale			2295	2365		
Sand			2365	2500		
Sandy Shale			2500	2680		
Sand			2680	2795		
Sandy Shale			2795	5105		Show of gas @ 5040'
Sand			5105	5120		
Sandy Shale			5120	5274		
Driller's T.D.				5274		
Speechley Stray			3404	3446		
Speechley			3550	3658		
Benson			5040	5054		
Logger's T.D.				5257		

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Environmental Protection

Date Jan 4 1980

WW-4A
Revised 6-07

1) Date: July 12, 2016
2) Operator's Well Number
1-34

3) API Well No.: 47 - 033 - 02193

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

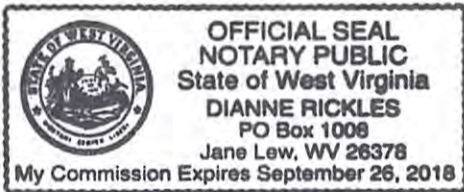
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>John Napier</u>	Name _____
Address <u>PO Box 383</u>	Address _____
<u>Lumberport, WV 26386</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidation Coal Company</u>
	Address <u>c/o Leatherwood, Inc.</u>
	<u>CNX Center</u>
(c) Name _____	Name <u>1000 Consol Energy Drive</u>
Address _____	Address <u>Canonsburg, PA 15317</u>
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name <u>American Mountaineer Energy, Inc. (Attn: Jason D. Witt)</u>
<u>Buckhannon, WV 26201</u>	Address <u>46226 National Rd.</u>
Telephone <u>304-389-7583</u>	<u>St. Clairsville, OH 43902</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.

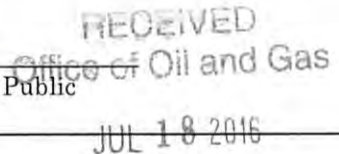
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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.



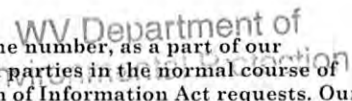
Well Operator XTO Energy Inc.
 By: [Signature]
 Its: Regulatory Compliance Technician
 Address PO Box 1008
Jane Lew, WV 26378
 Telephone 304-884-6000

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.



08/26/2016

WW-9
(5/16)

API Number 47 - 033 - 02193
Operator's Well No. 1-34

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) 0502000205 Tenmile Creek Quadrangle Wallace

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 ml. NA - TS 8/25/16

Proposed Disposal Method For Treated Pit Wastes: ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE HAULING OFF SITE. GWM 8/25/16

- 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))

Will closed loop system be used? If so, describe: NA SDW 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 12th 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. 1-34

Proposed Revegetation Treatment: Acres Disturbed .47 +/- 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
Annual Ryegrass	40	Tall Fescue	2
		Serecia Lespedeza	25
		Ladino Clover	30

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. Edwards

Comments: _____

Title: OOG Inspector Date: 7/14/16

Field Reviewed? () Yes (X) No

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WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 033 - 02193
Operator's Well No. 1-34

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

Operator Name: XTO Energy Inc.
Watershed (HUC 10): 0502000205 Quad: Wallace
Farm Name: Harbert, Marie S.

- 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 - 02193
Operator's Well No. 1-34

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: 7/12/16

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Environmental Protection

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HARBERT 214 WELL PLUGGING PROJECT EROSION AND SEDIMENT CONTROL PLAN XTO ENERGY, INC.

PROJECT OWNER/CLIENT

XTO ENERGY, INC.
PO BOX 1008
JANE LEW WV 26378
PH (304) 884-6036
CONTACT TIM SANDS

WVREG

DISTRICT FOUR
PH (204) 862-1500
CONTACT RAY DURS - DISTRICT ENGINEER

CONSULTANT

CIVIL & ENVIRONMENTAL
CONSULTANTS, INC.
600 MARKETPLACE AVE - SUITE 200
BRIDGEPORT, WV 26330
PH (304) 933-3110
CONTACT STEVEN A. CAIN, P.E.

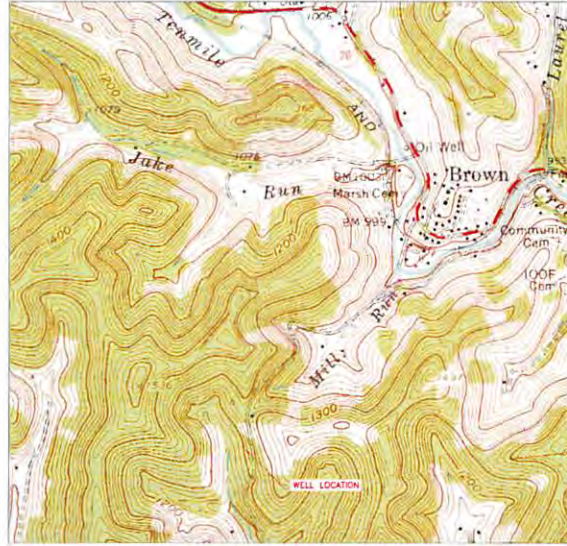
SPIRILUTION

WEST VIRGINIA DEPARTMENT OF
ENVIRONMENTAL PROTECTION (WVDEP)
PH (908) 862-6074

NATIONAL RESPONSE CENTER
PH (960) 424-8802

LOCAL EMERGENCY SERVICES		
	NAME	PHONE NUMBER
AMBULANCE		911
HOSPITAL EMERGENCY ROOM	UNITED HOSPITAL CENTER	(804) 342-1000
FIRE DEPARTMENT	BRIDGEPORT FIRE DEPARTMENT	(304) 984-7121
POLICE DEPARTMENT		911
DENSO ENVIRONMENTAL	WEST VIRGINIA TOXIC CENTER	(908) 244-1222

(LOCATION OF WELL)



SHEET INDEX	
SHEET 1 OF 4	COVER SHEET
SHEET 2 OF 4	EROSION AND SEDIMENT CONTROL PLAN DETAILS
SHEET 3 OF 4	EROSION AND SEDIMENT CONTROL PLAN
SHEET 4 OF 4	EROSION AND SEDIMENT CONTROL PLAN DETAILS

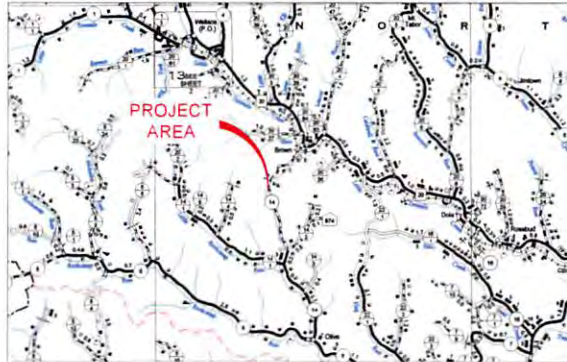
PLAN REPRODUCTION WARNING:
THE PLANS HAVE BEEN CREATED ON ANSIPDF XPL SHEETS. PURCHASE PLANS AT FULL GRAPHIC SCALE.
THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.
--WARNING-- INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.



ESTIMATED QUANTITIES					
	EST. QTY	UNITS	BID QTY	UNIT PRICE	TOTAL COST
STANDARD CONSTRUCTION ENTRANCE	750	SP			
UNDER MAT BARRIER	1	EA			
PERMANENT SEEDING	2,274	SY			
12" COMPOST FILTER SOCK	177	LF			
GRASS CONSTRUCTION FENCE	N/A	LF			

* SEE DIMENSIONS ON PLAN DRAWINGS

LOCATION MAP
WALLACE USGS 7.5' QUAD
SCALE IN FEET
0 1000 2000
1 INCH = 1000 FEET



VICINITY MAP
HARRISON COUNTY ROAD MAPS
SCALE IN FEET
0 1 MILE 2 MILE
1 INCH = 1 MILE



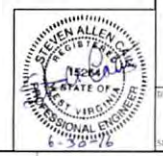
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 7/14/16 JUL 18 2016

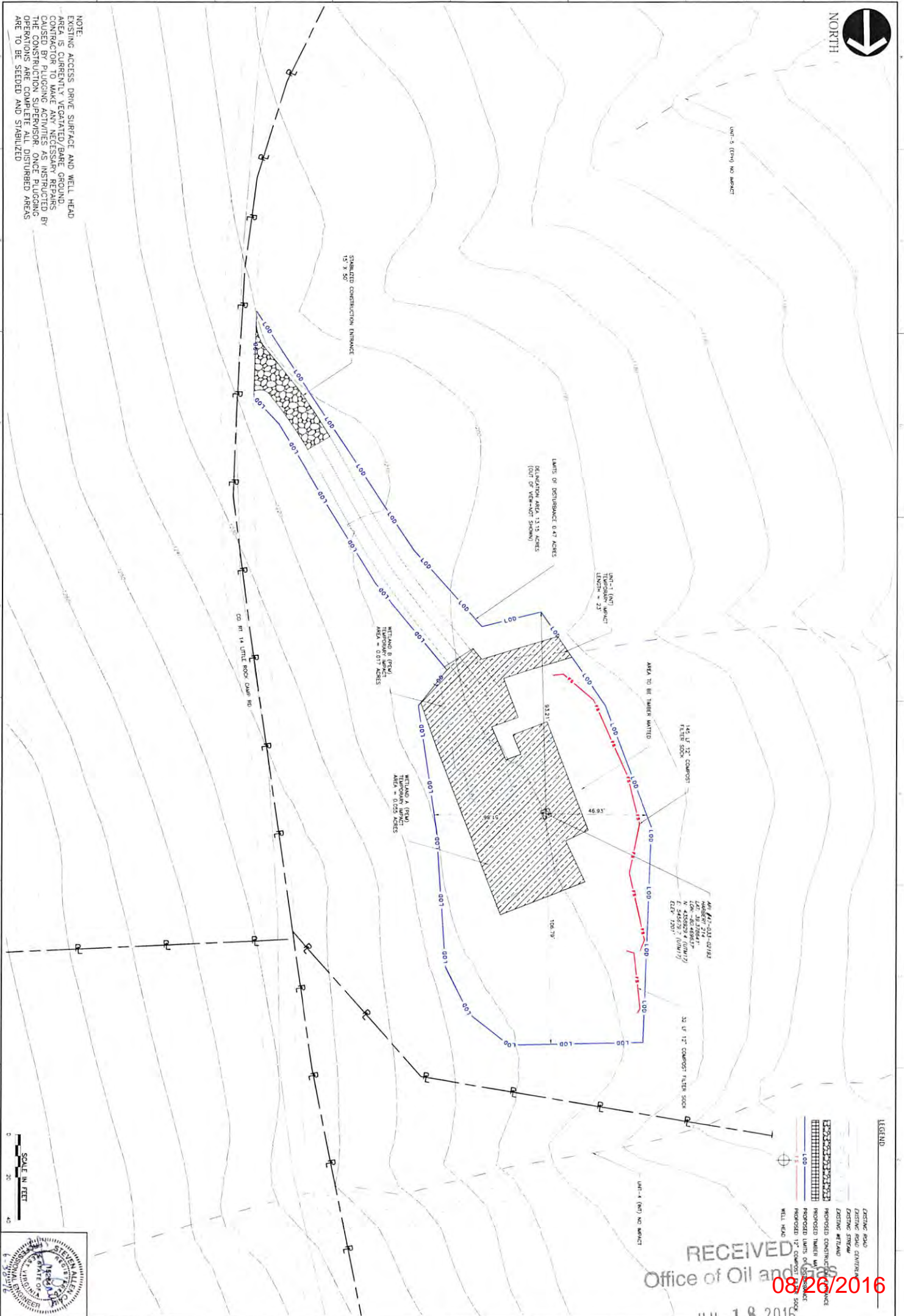
WV Department of Environmental Protection
C&E
 Civil & Environmental Consultants, Inc.
 WWW.C&E.CONSULTANTS.COM

XTO ENERGY, INC.
 HARBERT 214
 WELL PLUGGING PROJECT
 SARDIS DISTRICT
 HARRISON COUNTY, WV

COVER SHEET
 DATE: JUNE 2016 DRAWN BY: CCN
 CHECKED BY: ASH/SHAW PROJECT NO: 151114
 APPROVED BY: SAC

DRAWING NO: **1**
 SHEET: 1 OF 4





NOTE:
EXISTING ACCESS DRIVE SURFACE AND WELL HEAD AREAS IS CURRENTLY REGRADED/BARE GROUND. ANY DAMAGE TO EXISTING ACCESS DRIVE CAUSED BY PLUGGING ACTIVITIES AS INSTRUCTED BY THE CONSTRUCTION SUPERVISOR, ONCE PLUGGING OPERATIONS ARE COMPLETE ALL DISTURBED AREAS ARE TO BE SEEDED AND STABILIZED



LEGEND

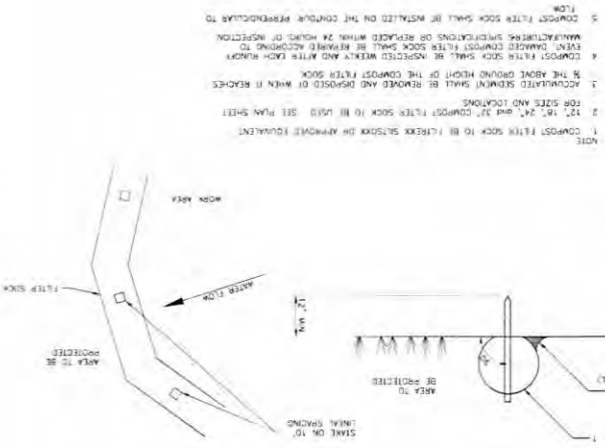
- EXISTING ROAD
- EXISTING ROAD CENTERLINE
- EXISTING STREAM
- EXISTING WETLAND
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED 12' COMPOST FILTER SOCK
- WELL HEAD

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08/26/2016
JUL 18 2016

EROSION & SEDIMENT CONTROL PLAN		XTO ENERGY, INC. HERBERT 214 WELL PLUGGING PROJECT SARDIS DISTRICT HARRISON COUNTY, WV	 Civil & Environmental Consultants, Inc.	REVISION RECORD	
DATE	DRAWN BY			DATE	DESCRIPTION
JUNE 2016	ZMD				
PROJECT NO.	151-114				
APPROVED BY	SAC				

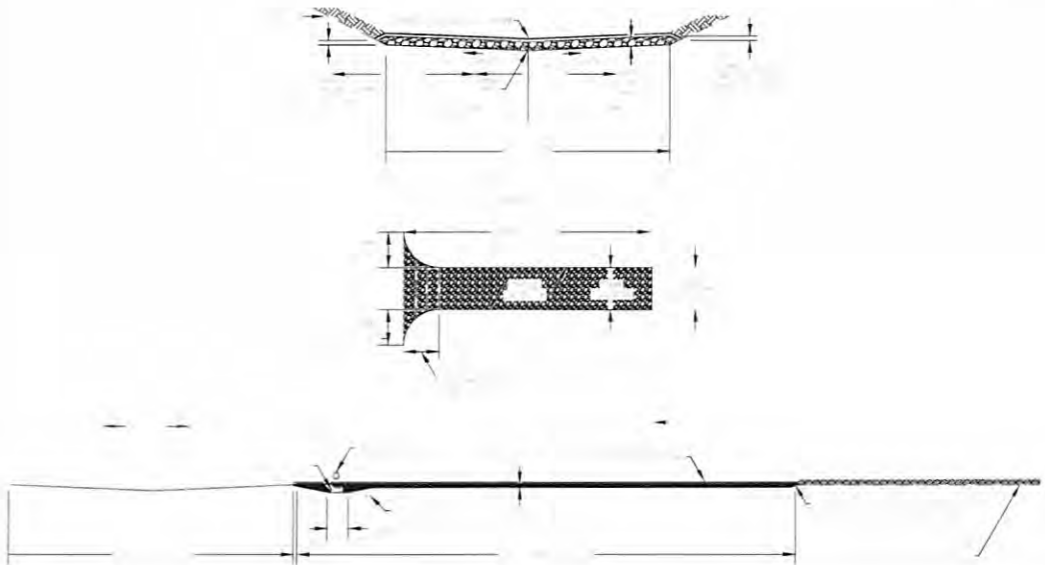
3302193P

DETAIL 3
COMPOST FILTER SOCK
NOT TO SCALE

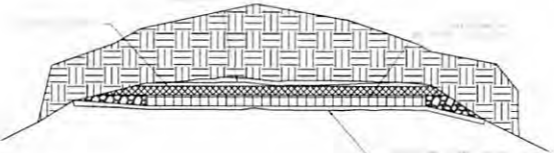


- NOTE:
1. COMPOST FILTER SOCK TO BE CHECKED SIZES OR APPROXIMATE EQUIVALENT FOR SIZE AND LOCATION.
 2. 12", 18", 24", and 36" COMPOST FILTER SOCK (8) BE USED. SEE PLAN SHEET.
 3. ACCUMULATED SEDIMENT SHOULD BE REMOVED AND DISPOSED OF WHEN IT REACHES THE ABOVE GROUND HEIGHT OF THE COMPOST FILTER SOCK.
 4. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. DAMAGED COMPOST FILTER SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 5. COMPOST FILTER SOCK SHALL BE INSTALLED ON THE CONTOUR PERPENDICULAR TO FLOW.

DETAIL 1
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

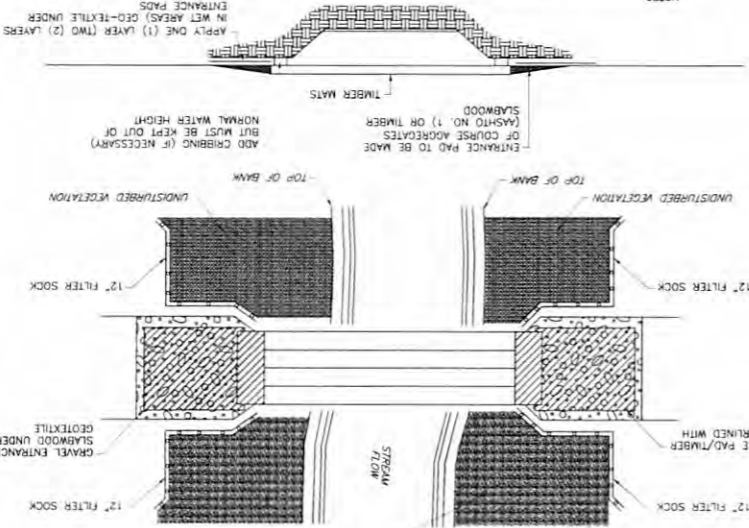


DETAIL 4
TIMBER MAT BRIDGE FOR WETLAND CROSSING
NOT TO SCALE



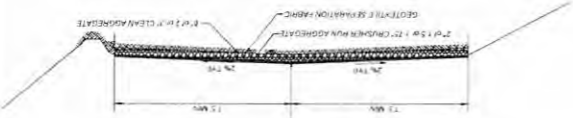
- NOTE:
1. REMOVE MAT FROM BRIDGE DECK AND PLACE IN SPILL AREA.
 2. BRIDGES SHOULD BE SECURELY ANCHORED AT ONLY ONE END USING STEEL CABLE OR CHAIN, ANCHORED AT ONLY ONE END WILL PREVENT CHANNEL OBSTRUCTION IN THE EVENT THAT LOGGERS REMOVED FROM THE BRIDGE ACCESS. BRIDGES SHALL BE SECURELY ANCHORED TO PREVENT THE BRIDGE FROM FLOATING DOWNSTREAM AND POSSIBLY CAUSING AND OTHER OBSTRUCTION TO THE FLOW.
 3. ALLOW FOR MANUAL WETLAND IMPACT DURING CONSTRUCTION AND QUICK RESTORATION TO PRE-CONSTRUCTION CONDITIONS.

DETAIL 2
TEMPORARY TIMBER MAT STREAM CROSSING DETAIL
NOT TO SCALE



- NOTES:
1. ONLY CLEANING EQUIPMENT AND EQUIPMENT NECESSARY FOR INSTALLATION OF EQUIPMENT BRIDGES MAY CROSS WATER BODIES PRIOR TO BRIDGE INSTALLATION. LIMIT THE CROSSING OF EACH WATER BODY TO ONE PER PIECE OF CLEANING EQUIPMENT.
 2. INSTALL 12" FILTER SOCK ACROSS THE DISTURBED AREA OF THE HIGH - OR - WAY.
 3. APPLY GEO - TEXTILE UNDER ENTRANCE PADS.
 4. EXCESS MUD IS TO BE REMOVED FROM THE ENTRANCE PADS AND MATS DURING CONSTRUCTION.
 5. SECURE GEO-TEXTILE TO UNDER SIDE OF TIMBER MATS AND WEAP/SECURE TO SIDES TO PREVENT SEDIMENT/MUD FROM MIGRATION THROUGH MATS TO PROTECTED AREA.
 6. DURING FINAL CLEAN UP WHEN MATS, CURBERT, CLEAN ROCK FILL, ETC. ARE REMOVED, INSTALL FILTER FENCE ACROSS THE ENTIRE RIGHT - OF - WAY ON BOTH SIDES OF STREAM.

DETAIL 5
TYPICAL CONSTRUCTION ACCESS ROAD REPAIR
NOT TO SCALE



NOTES:

EXISTING ACCESS DRIVE IS CURRENTLY VEGETATED. THE CONTRACTOR SHALL MAKE REPAIRS ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN NOTES.

WORK IS COMPLETE, ANY DISTURBED AREAS MUST BE SEEDED AND STABILIZED IN THROUGHOUT CONSTRUCTION AS DIRECTED BY THE CONSTRUCTION SUPERVISOR. ONCE THE CONSTRUCTION SUPERVISOR, THE ACCESS ROAD IS TO BE STABILIZED AND MAINTAINED BY THE CONTRACTOR.



EROSION & SEDIMENT CONTROL PLAN DETAILS

NO.	DATE	BY	DESCRIPTION
1	08/20/2018	M.H.	ISSUED FOR PERMIT
2	09/10/2018	M.H.	REVISED FOR COMMENTS
3	09/10/2018	M.H.	REVISED FOR COMMENTS
4	09/10/2018	M.H.	REVISED FOR COMMENTS
5	09/10/2018	M.H.	REVISED FOR COMMENTS
6	09/10/2018	M.H.	REVISED FOR COMMENTS
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50	09/10/2018	M.H.	REVISED FOR COMMENTS

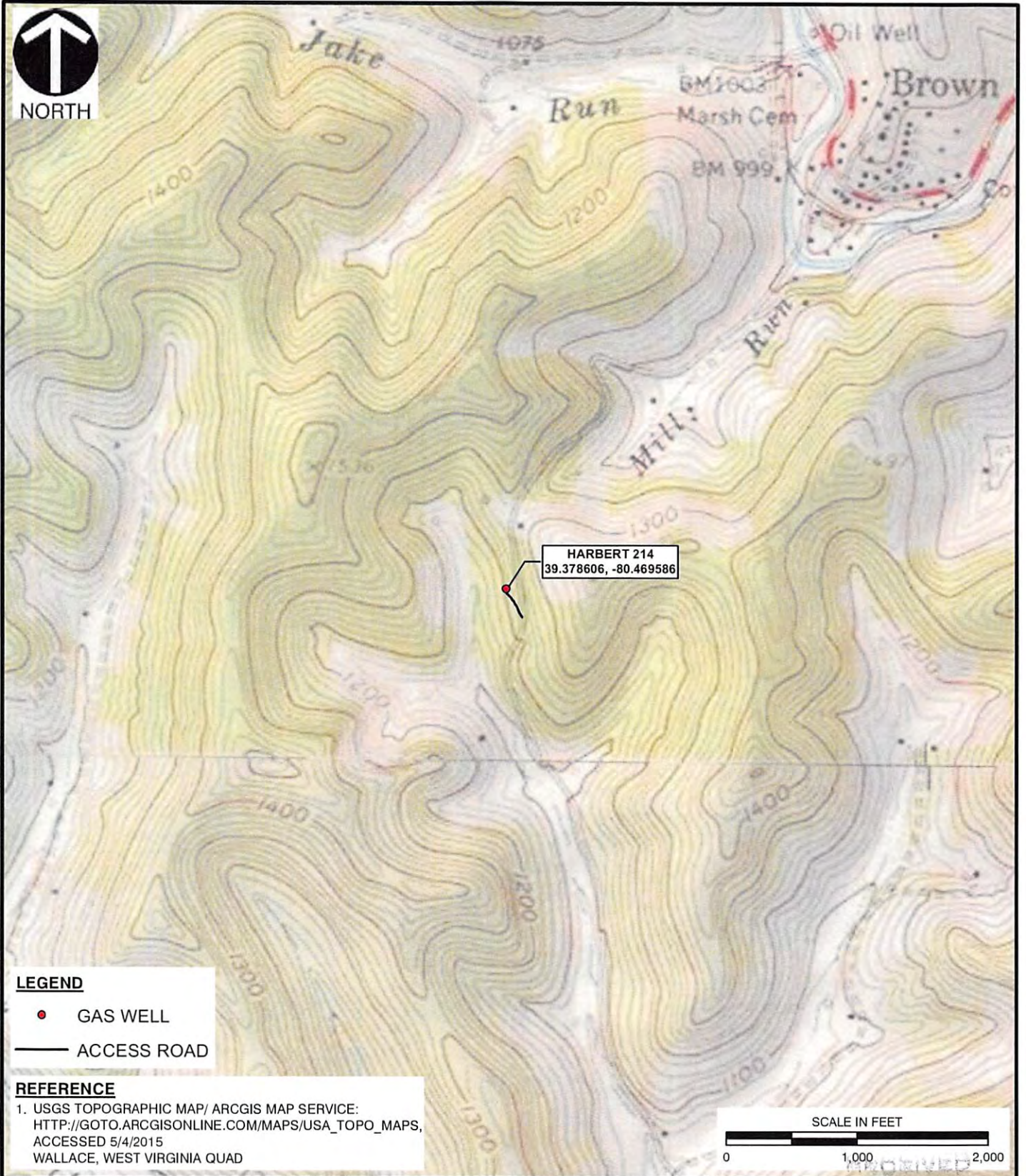
XIO ENERGY, INC.
HARRBERT 214
WELL PLUGGING PROJECT
SARDIS DISTRICT
HARRISON COUNTY, WV

Civil & Environmental Consultants, Inc.



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VEGETATION REMOVED
BUFFER ZONE IS NOT TO HAVE

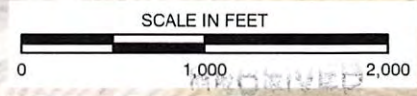


LEGEND

- GAS WELL
- ACCESS ROAD

REFERENCE

1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA_TOPO_MAPS](http://gto.arcgis.com/maps/usa_topo_maps),
 ACCESSED 5/4/2015
 WALLACE, WEST VIRGINIA QUAD



I:\Srv-bridgeport\p:\2015\151-114-GIS\Maps\Task_0003\151114_0003_FIG1_SITE.mxd 5/4/2015 8:11 AM (gkuckuck)

CEC

Civil & Environmental Consultants, Inc.
 99 Cambridge Place - Bridgeport, WV 26330-2820
 Ph: 304-933-3119 • Toll: 855-488-9539 • Fax: 304-933-3327
www.cecinc.com

XTO ENERGY, INC. of Oil and Gas
 SECTION 404 COMPLIANCE REVIEW
 HARBERT 214 SHALLOW GAS WELL
 HARRISON COUNTY, WEST VIRGINIA

USGS SITE LOCATION MAP
 WV Department of Environmental Protection

DRAWN BY: GSK	CHECKED BY: JDK	APPROVED BY: * Hand signature on file JHW*	FIGURE NO: 1
DATE: 05/04/2015	SCALE: 1" = 1,000'	PROJECT NO: 151-114.0003	08/26/2016

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-02193 WELL NO.: 1-34

FARM NAME: Marie S. Harbert

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Harrison DISTRICT: Sardis - 07

QUADRANGLE: Wallace - 655

SURFACE OWNER: John Napier

ROYALTY OWNER: Unknown

UTM GPS NORTHING: 4358929.4

UTM GPS EASTING: 545679.7 GPS ELEVATION: 366 m (1201')

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 X; Post Processed Differential X
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.

Joseph K. Keady
Signature

Project Manager
Title

July 7, 2016
Date

RECEIVED
Office of Oil and Gas
JUL 18 2016
WV Department of Environmental Protection

08/26/2016