



**west virginia** department of environmental protection

Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

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

September 08, 2014

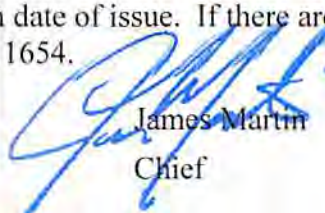
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3301689, issued to XTO ENERGY, INC., 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 all 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 1-AE-11  
Farm Name: COFFMAN, JOHN M.  
**API Well Number: 47-3301689**  
**Permit Type: Plugging**  
Date Issued: 09/08/2014

## 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.

1) Date 5/20, 2014  
2) Operator's  
Well No. Coffman 1-AE-11  
3) API Well No. 47-033 - 0766

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  / Liquid injection  / Waste disposal  /  
(If "Gas, Production  or Underground storage  ) Deep  / Shallow

5) Location: Elevation 1430' Watershed Tenmile Creek  
District Eagle County Harrison Quadrangle Wallace 7.5'

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:  
Run in well & check TD, POOH and run 2" tubing to TD, estimated at 5050', then circulate 6% gel back to surface and pump cement plug up to 4825', perfs are at 4995' - 4982'. pull tubing up to 4500' and wait on cement to set and RIH with small tools and tag TOC. Pull tubing up to 3875' & pump cement up 3875' perfs are 3807' - 3775'. pull tubing up to 3525' & pump cement up to 3350' perfs are 3469' - 3443'. pull tubing up to 2500' and pump cement to 2600'. pull tubing out of well and run a CBL to find free casing, shoot apart and pump a 100' cement plug at cut, cut estimated at 2200'. pull casing up to 1800' and pump cement up to 1700', pull casing up to 1470' and pump cement up to 1300' elevation at 1401', bottom of 8 5/8" at 1369', pull casing to 575' and pump cement up to 475', coal at 510- 515', pull casing up to 200' and cement to surface. Install monument.  
Cement - 5050' - 4825' = 225' in 4 1/2" Cement - 2600' - 2500' = 100' in 4 1/2" Cement - 1470' - 1300' = 170' in 7 7/8"  
Cement - 3875' - 3675' = 200' in 4 1/2" Cement-2200'-2100'= 100' at cut-7 7/8" Cement - 575' - 475' = 100' in 8 5/8"  
Cement - 3525'-3350' = 175' in 4 1/2" Cement- 1800' - 1700' = 100' in 7 7/8" Cement - 200' - 0' = 200' in 8 5/8"

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Work order approved by Inspector Sam D. Ward Date 5/22/2014

09/12/2014

3301689P

OG-10  
Rev. - 9-71



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 5

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

Quadrangle WALLACE

Permit No. HAR-1689

47-033

Company Appalachian Energy, Inc. d/b/a LDR  
Address 728 Washington Rd., Pgh. PA 15228  
Farm John M Coffman #1 Acres 240  
Location (waters) Bennett Run  
Well No. A-E-11 Elev. 1401'  
District Eagle County Harrison  
The surface of tract is owned in fee by \_\_\_\_\_  
Blanche P. Shaffer  
Address Rt. 1, Box 101 D2, Lumberport, WVA  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling Commenced September 16, 1978  
Drilling Completed September 23, 1978  
Initial open flow 84 cu. ft. -- bbls.  
Final production 650 cu. ft. per day -- bbls.  
Well open 72 hrs. before test 1900# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10" 11 3/4"	30'	30'	
9 5/8			
8 5/8	1369'	1369'	340 1578' etc
7			
5 1/2			
4 1/2	4110'	4110'	400 > 2000'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Stimulation Record

Interval Perforated:	From	To	Amt. Fluid	Amt. Sand
	4982	4995	562 BBLs.	45,000#
DATE: 10-4-78	3775	3807	647 BBLs.	53,000#
	3443	3469	542 BBLs.	45,000#

Coal was encountered at 510 Feet \_\_\_\_\_ Inches  
Fresh water 400 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet  
Producing Sand Speechley, Balltown, Benson Depth 3454' - 3797' - 4983'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	11		
Coal			11	25		
Shale			25	30		
Sand			40	150		
Sandy Shale			150	250		
Sand			250	300		
Sandy Shale			300	315		
Sand			315	410		
Sandy Shale			410	440		
Sand			440	510		
Coal			510	515		
Sandy Shale			515	1030		
Sand			1030	1080		
Sandy Shale			1080	1105		
Sand			1105	1130		
Sandy Shale			1130	1210		
Sand			1210	1240		
Sandy Shale			1240	1355		
Sand			1355	1565		
Sandy Shale			1565	1795		
Little Lime			1795	1810		
Big Lime			1810	1930		

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Environmental Protection

F.W. @ 400'

F.W. @ 1400'

09/12/2014

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	Remarks
Sand			1930	2040		
Sandy Shale			2040	2145		
Sand			2145	2180		
Sandy Shale			2180	2520		
Sand			2520	2555		
Sandy Shale			2555	2650		
Sand			2650	2760		
Sand & Shale			2760	3415		
Sand			3415	3455		
Sandy Shale			3455	3785		
Sand			3785	3830		
Sandy Shale			3830	4240		
Sand			4240	4300		
Sandy Shale			4300	4915		Show of Gas @ 4325'
Sand			4915	4940		
Shale			4940	4984		
Sandy Shale			4984	5053		
Drillers' T. D.				5053		

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Date Jan 15 1974  
APPROVED Donald R. Youngblood owner  
By President  
(Title)

WW-4A  
Revised 6-07

1) Date: 5/20/14  
2) Operator's Well Number  
Coffman 1-AE-11

3) API Well No.: 47 - 033 - 01689

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

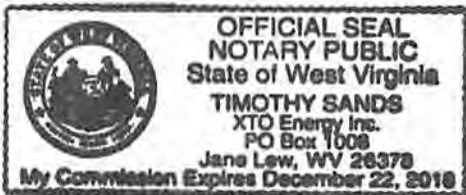
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>George C. Swiger &amp; George R. Swiger</u> ✓	Name _____
Address <u>HC 61 Box 29</u>	Address _____
<u>Littleton, WV 26581</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Guy Corporation</u> ✓
_____	Address <u>92 16th St.</u>
_____	<u>Wheeling, WV 26003</u>
(c) Name _____	Name <u>Virginia Tetrick Estate</u> ✓
Address _____	Address <u>92 16th St.</u>
_____	<u>Wheeling, WV 26003</u>
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>	_____

**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: Production Superintendent  
 Address PO Box 1008  
Jane Lew, WV 26378  
 Telephone 304-884-6000

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Office of Oil and Gas

Subscribed and sworn before me this 20<sup>th</sup> day of May 2014  
[Signature] Notary Public  
 My Commission Expires 12/22/18  
 WV Department of Environmental Protection

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).

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Guy Corporation  
92 16th St.  
Wheeling, WV 26003

✓  
Plugging App  
Coffman  
1-AE-11  
Coffman 2

for Instructions

3301689A

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Total Postage & Fees	\$	



George C. Swiger  
George R. Swiger  
HC 61 Box 29  
Littleton, WV 26581

Plugging App ✓  
Coffman  
1-AE-11

for Instructions

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Total Postage & Fees	\$	



Virginia Tetrick Estate  
92 16th St.  
Wheeling, WV 26003

Plugging App ✓  
Coffman  
1-AE-11  
Coffman 2

for Instruction

3301689A  
CK 118!  
100.00

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name XTO Energy Inc. OP Code 494487940

Watershed Tenmile Creek Quadrangle Wallace 7.5'

Elevation 1430' County Harrison District Eagle

Description of anticipated Pit Waste: Fluids from plugging operations.

Will a synthetic liner be used in the pit? Yes 20 MI.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- 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))

SDW  
5/22/2014

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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) Gary Beall  
Company Official Title Production Superintendent

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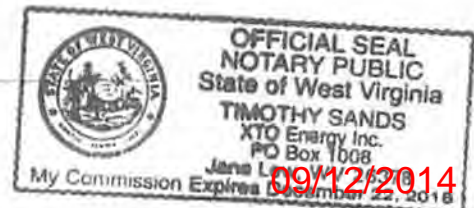
WV Department of  
Environmental Protection

Subscribed and sworn before me this 20<sup>th</sup> day of May 2014, 2014

[Signature]

Notary Public

My commission expires 12/22/18

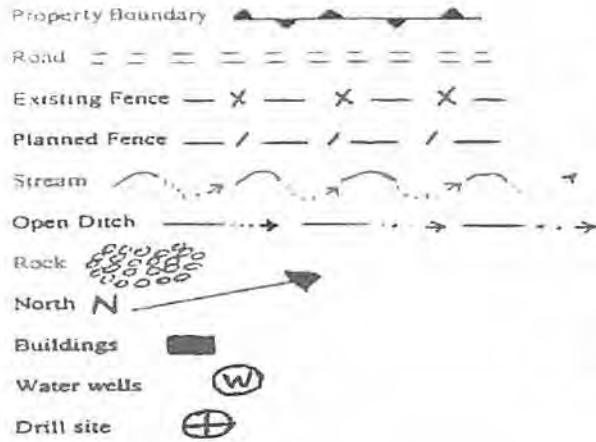


09/12/2014

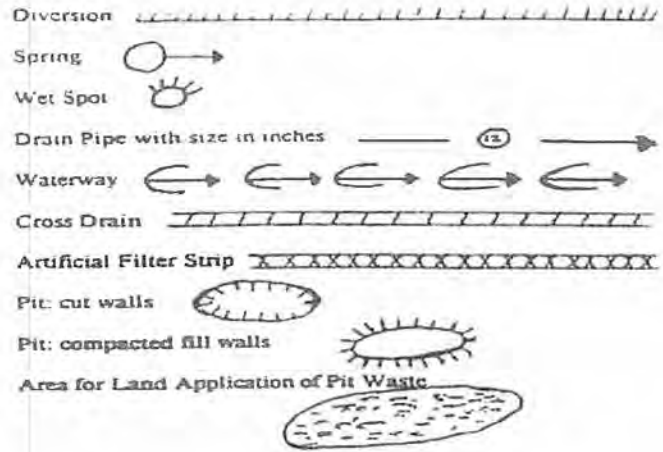


Form WW-9

Operator's Well No. Coffman 1-AE-11



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 3.59+/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (10-20-20 or equivalent) 1000 lbs/acre (500 lbs minimum)

Mulch 3 Tons/acre

Seed Mixtures

Seed Type	Area I		Seed Type	Area II	
		lbs/acre			lbs/acre
Kentucky Bluegrass		20			
Redtop		3			
Birdsfoot Trefoil		10			

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

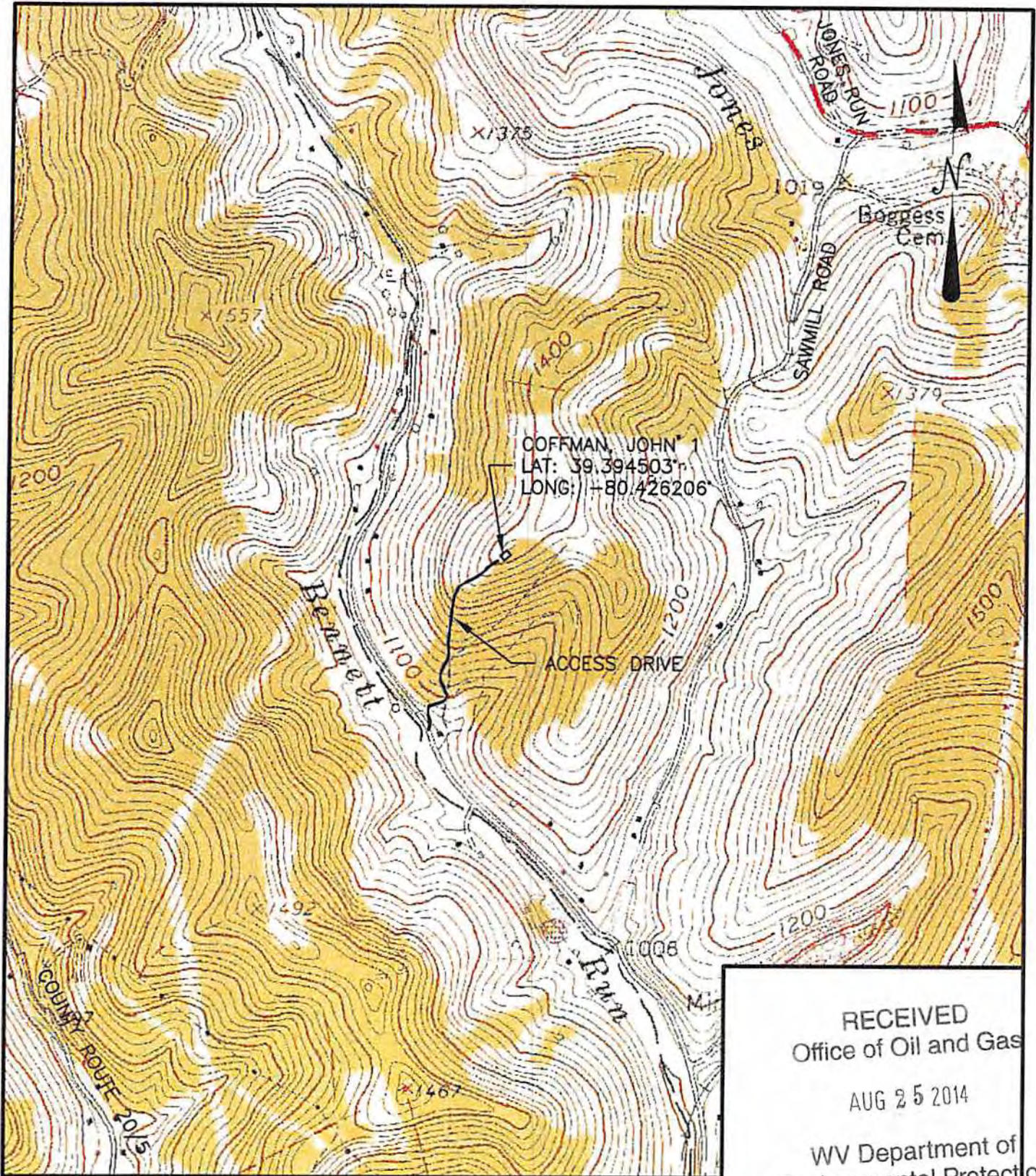
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. Worrell II

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

Title: \_\_\_\_\_ Date: 5/22/2014

Field Reviewed? ( ) Yes ( X ) No



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WV Department of  
Environmental Protection

SCALE:  1:1000	DESIGNED BY: JMH	REVISION BY: _____	DATE: _____	DESCRIPTION: _____
	REVIEWED BY: MMV	REVISION BY: _____	DATE: _____	DESCRIPTION: _____
	DRAWN BY: JMH	REVISION BY: _____	DATE: _____	DESCRIPTION: _____
	DATE: 5/06/14	REVISION BY: _____	DATE: _____	DESCRIPTION: _____
	PROJ. NO.:	REVISION BY: _____	DATE: _____	DESCRIPTION: _____
DRAWING NO.:	REVISION BY: _____	DATE: _____	DESCRIPTION: _____	

DRAWING NO.  
  
SHEET NO.  
1

**COFFMAN, JOHN 1**  
prepared for  
**XTO ENERGY, INC.**  
situated  
**BENNETTS RUN, HARRISON COUNTY, WEST VIRGINIA**  
USGS MAP - WALLACE QUADRANGLE

**MKA Morris Knowles**  
 & Associates, Inc.  
Remedial Engineers and Soil Scientists  
413 Adams Drive  
Delmar, PA 19840  
Telephone (757) 488-1822  
Fax (757) 488-8000

09/12/2014

WW-7  
8-30-06



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

API: 47-033-01689 WELL NO.: 301382 (John M. Coffman I AE-11)

FARM NAME: John M. Coffman

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Harrison 33 DISTRICT: Eagle 4

QUADRANGLE: Wallace 7.5' 655

SURFACE OWNER: George C. Swiger & George R. Swiger

ROYALTY OWNER: Waco Oil and Gas, et al.

UTM GPS NORTHING: 4360715

UTM GPS EASTING: 549407 GPS ELEVATION: 436 m (1430 ft)

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.

*Stacy Olson*  
Signature  
1/23/14  
Date

PS # 2180  
Title