



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

November 23, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3304158, 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: 3-E-231
Farm Name: MORRIS, WILL E. - HEIRS
API Well Number: 47-3304158
Permit Type: Plugging
Date Issued: 11/23/2015

Promoting a healthy environment.

11/27/2015

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.

3304158P

CK# 7782703
\$1000

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. 3E-231
3) API Well No. 47-033 - 04158

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 ____/ ShallowX
- 5) Location: Elevation 1088' Watershed West Fork
District Tenmile 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:
 Pull the tubing out of well and RIH with tools and check TD at 4850'. POOH with tools, run tubing back in to 4850' and circulate 6% gel back to surface, then pump cement from 4850' up to 4600', perfs at 4764 - 4750', then pull tubing up to 4500' and reverse circulation up tubing to flush, then wait for cement to set up and RIH down tubing and tag cement at 4600', if ok pull tubing up to 3715' and pump cement up to 3525', perfs at 3655 - 3626', pull tubing up to 3478' and pump cement up to 3150', perfs at 3428' - 3287', pull tubing up to 2100' and pump cement up to 1900', pull tubing up to 1160' and pump cement up to 1000', elevation at 1104', pull tubing out and run wireline in, CBL shows cement top at 760', cut casing and pump cement from 750' up to 600', pull casing up to 250' and pump cement to surface. Install monument.

Cement - 4850 - 4600' = 250' in 4.5" Cement - 1160' - 1000' = 160' in 4.5"
 Cement - 3715' - 3525' = 190' in 4.5" Cement - 750' - 600' = 150' in 8 5/8"
 Cement - 3478' - 3150' = 328' in 4.5" Cement - 250 - Surface = 250 in 8 5/8"
 Cement - 2100 - 1900' = 200' in 4.5"

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

Work order approved by inspector Sam O'Ward # Date 10/23/2015

11/27/2015
Received
Office of Oil & Gas
NOV 06 2015

WR-35

09-Jan-97
API # 47- 33-04158

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

RECEIVED
WV Division of Environmental Protection
MAY 19 1997

Well Operator's Report of Well Work

Farm name: MORRIS, WILL E. HEIRS Operator Well No.: 3-E

LOCATION: Elevation: 1,104.00 Quadrangle: WOLF SUMMIT

District: TENMILE County: HARRISON
Latitude: 14925 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 950 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: EXCEL ENERGY, INC
P. O. BOX 1020
BRIDGEPORT, WV 26330-1020

Agent: HARRY L. BARNETT

Inspector: TIM BENNETT
Permit Issued: 01/13/97
Well work Commenced: 03/11/97
Well work Completed: 03/18/97
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 5099'
Fresh water depths (ft) _____
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	1107'	1107'	285 sks
4 1/2"	4865'	4865'	780 sks

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

OPEN FLOW DATA

Benson, Balltown
Producing formation and Speechley Pay zone depth (ft) 3428-4764
Gas: Initial open flow 110 MCF/d Oil: Initial open flow ---- Bbl/d
Final open flow 500 MCF/d Final open flow ---- Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 1350 psig (surface pressure) after 48 Hours

Second producing formation ----- Pay zone depth (ft) -----
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 pressure) after ---- Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Received
Office of Oil & Gas
NOV 06 2015

For: EXCEL ENERGY, INC
By: H.L. Barnett H.L. Barnett
Date: May 13, 1997

11/27/2015

FORM WR-35

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

STAGE I Benson 4750'-4764' (20 holes) Foam Frac using 250 bbls H₂O, 633,000 SCF N₂, 5,000# 80/100 sand, 60,000# 20/40 sand and 500 gal HCL.

STAGE II Balltown 3626'-3655' (17 holes) Foam Frac using 170 bbl H₂O, 354,000 SCF N₂, 5,000# 80/100 sand, 30,000# 20/40 sand and 750 gal HCL.

STAGE III Speechley 3287'-3428' (20 holes) Foam Frac using 175 bbl H₂O, 314,000 SCF N₂, 5,000# 80/100 sand, 30,000# 20/40 sand and 750 gal HCL.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal oil and gas
Fill			0	14	
Sand & Shale			14	20	
Sand			20	148	1/4" stream of water @ 50'
Coal & Shale			148	154	
Sand & Shale (R R)			154	524	
Sand			524	553	
RR & Shale			553	591	
Sand & Shale			591	752	
Sand			752	800	
RR & Shale			800	835	
Sand & Shale			835	1780	1/4" stream of water @ 1280'
Lime			1780	1852	1/2" stream of water @ 1337'
Sand & Shale (R.R.)			1852	1945	Gas Check @ 1894' - No Show
Sand			1945	1998	
Sand & Shale			1998	2308	
Gantz			2308	2327	
Sand & Shale			2327	2418	
Fifty Foot Sand			2418	2454	
Sand & Shale			2454	2499	
Thirty Foot Sand			2499	2529	
Sand & Shale			2529	2550	Gas Check @ 2542' - No Show
Sand & Shale			2550	2651	
Fourth Sand			2651	2664	
Sand & Shale			2664	2798	
Bayard			2798	2802	
Sand & Shale			2802	2816	
Bayard			2816	2820	
Sand & Shale			2820	3287	Gas Check @ 3801' - No Show
Speechley			3287	3428	
Sand & Shale			3428	3626	
Balltown			3626	3655	
Sand & Shale			3655	4750	
Benson			4750	4764	
Sand & Shale			4764	5099	T.D.

11/27/2015

Received
Office of Oil & Gas

NOV 06 2015

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
3E-231

3) API Well No.: 47 - 033 - 04158

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>Robert & Lily Freedlander, Joel & Linda Hostetter</u>	Name _____
Address <u>441 Meadow Rd</u>	Address _____
<u>Newville, PA 17241</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Little Buck Coal Company</u>
	Address <u>57 Lincoln Rd.</u>
	<u>Pine Grove, PA 17963</u>
(c) Name _____	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>	

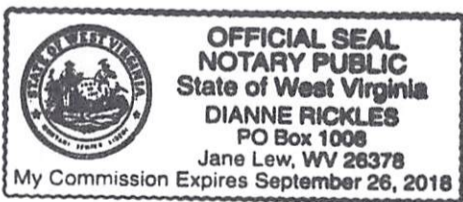
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 23 day of October 2015
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.

Received 11/27/2015
Office of Oil & Gas
NOV 06 2015

3304158P

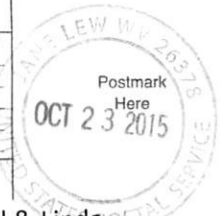
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$



Postage \$

Robert & Lily Freedlander, Joel & Linda Hostetter
c/o Joel Hostetter
441 Meadow Rd.
Newville, PA 17241

3-E-231
Plugging Permit Application

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Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$



Postage \$

Little Buck Coal Company
57 Lincoln Rd.
Pine Grove, PA 17963

3E-231
Plugging Permit App.

Received 11/27/2015
Office of Oil & Gas
NOV 06 2015

CP# 7782703 3304158P
100.00

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 033 - 04158
Operator's Well No. 3-E-231

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 West Fork Quadrangle Wolf Summit

Elevation 1088' County Harrison District Tenmile

Description of anticipated Pit Waste: Fluids from plugging operations.

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

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
10/23/2015

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 *Tim Sands*

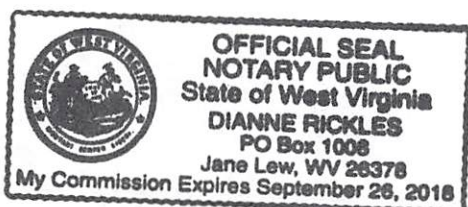
Company Official (Typed Name) Tim Sands

Company Official Title Regulatory Compliance Technician

Subscribed and sworn before me this 23 day of October, 20 15

Dianne Rickles Notary Public

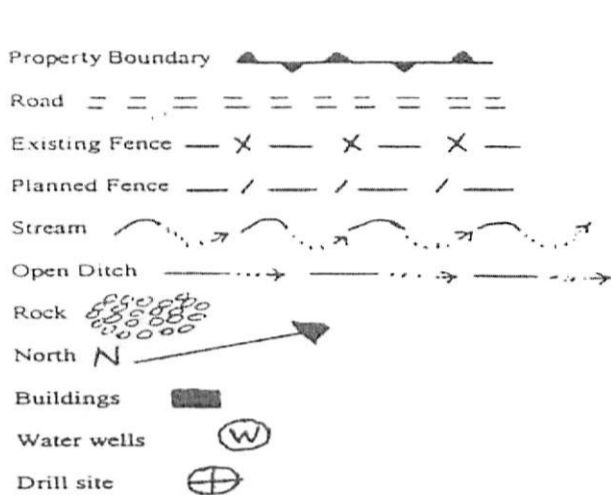
My commission expires September 26, 2018



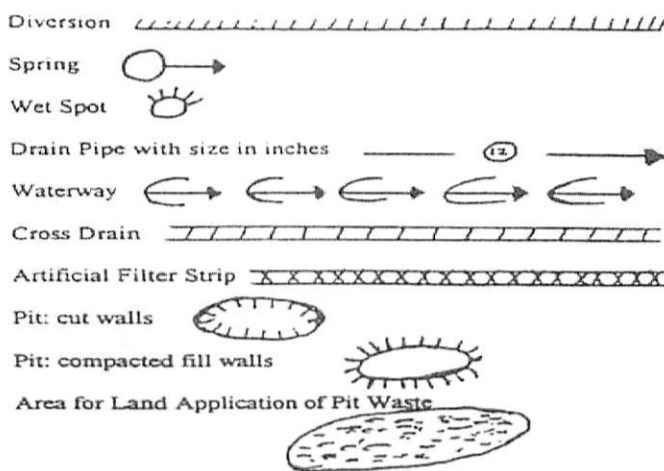
Received
Office of Oil & Gas
NOV 06 2015
11/27/2015

Form WW-9

Operator's Well No. 3E-231



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 0.4 +/- 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

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	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: [Signature]

Comments: _____

Title: OOG Inspector Date: 10/23/2015

Field Reviewed? () Yes (X) No

Received 11/27/2015
Office of Oil & Gas
NOV 06 2015

PROJECT DESCRIPTION

TRC-COUNTY ENGINEERING, LLC (TRC), ON BEHALF OF TRC ENERGY, INC. (TRC), HAS PREPARED THE SEDIMENT CONTROL PLAN FOR THE MORRIS E-231 WELLS... THE PROJECT IS LOCATED APPROXIMATELY 6.5 MILES WESTWEST OF LUMBERTON IN THE TOWN OF LUMBERTON, WASHINGTON COUNTY, WEST VIRGINIA...

TRC ENERGY, INC. (TRC) WILL CONDUCT PROJECT ACTIVITIES THAT INVOLVE THE ACQUISITION AND MAINTENANCE OF THE MORRIS E-231 WELLS... THE WELL-HEAD, STORAGE AND PRODUCTION TANKS WILL BE SITED ON THE SITE AND THE SEDIMENT CONTROL PLAN WILL BE SITED WITH THE TANKS... THE SITE WILL BE RECLAIMED AND GRADED TO BE CONSISTENT WITH THE GENERAL CONTOUR OF THE ADJACENT SURROUNDING LAND...

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Table with 2 columns: DISCONTINUATION, DATE. Row 1: 1, -

COVER IN THE AREAS THAT WILL ACQUADITATE PREVENT EROSION

SEEDING PREPARATION - TO CONTROL EROSION ON BARE SOIL SURFACES, GRASS SEEDS WILL BE APPLIED TO GRASSLAND AND CROPPED SEEDING PREPARATION IS ESSENTIAL... THE SOIL SURFACE MUST BE COVERED BY PLANTING, MOWING, MASHING, OR OTHER ACCEPTABLE MEANS (SEE SURFACE EROSION PREVENTION SECTION)...

SEEDING - SEED SHALL BE SPREAD WITH A BROADCAST SEEDER... SEED SHALL BE PLANTED IN ROWS THAT HAVE A CENTER ROW DEEPER OTHER ROWS AND ROWS THAT HAVE A CENTER ROW DEEPER OTHER ROWS... SEED SHALL BE PLANTED IN ROWS THAT HAVE A CENTER ROW DEEPER OTHER ROWS...

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TRC-COUNTY ENGINEERING, LLC

TRC-COUNTY ENGINEERING, LLC
401 E. HARRISON STREET
MORRIS, WV 26041
TEL: 304-724-6500
WWW.TRC-COUNTYENGINEERING.COM

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401 E. HARRISON STREET
MORRIS, WV 26041
TEL: 304-724-6500
WWW.TRC-COUNTYENGINEERING.COM

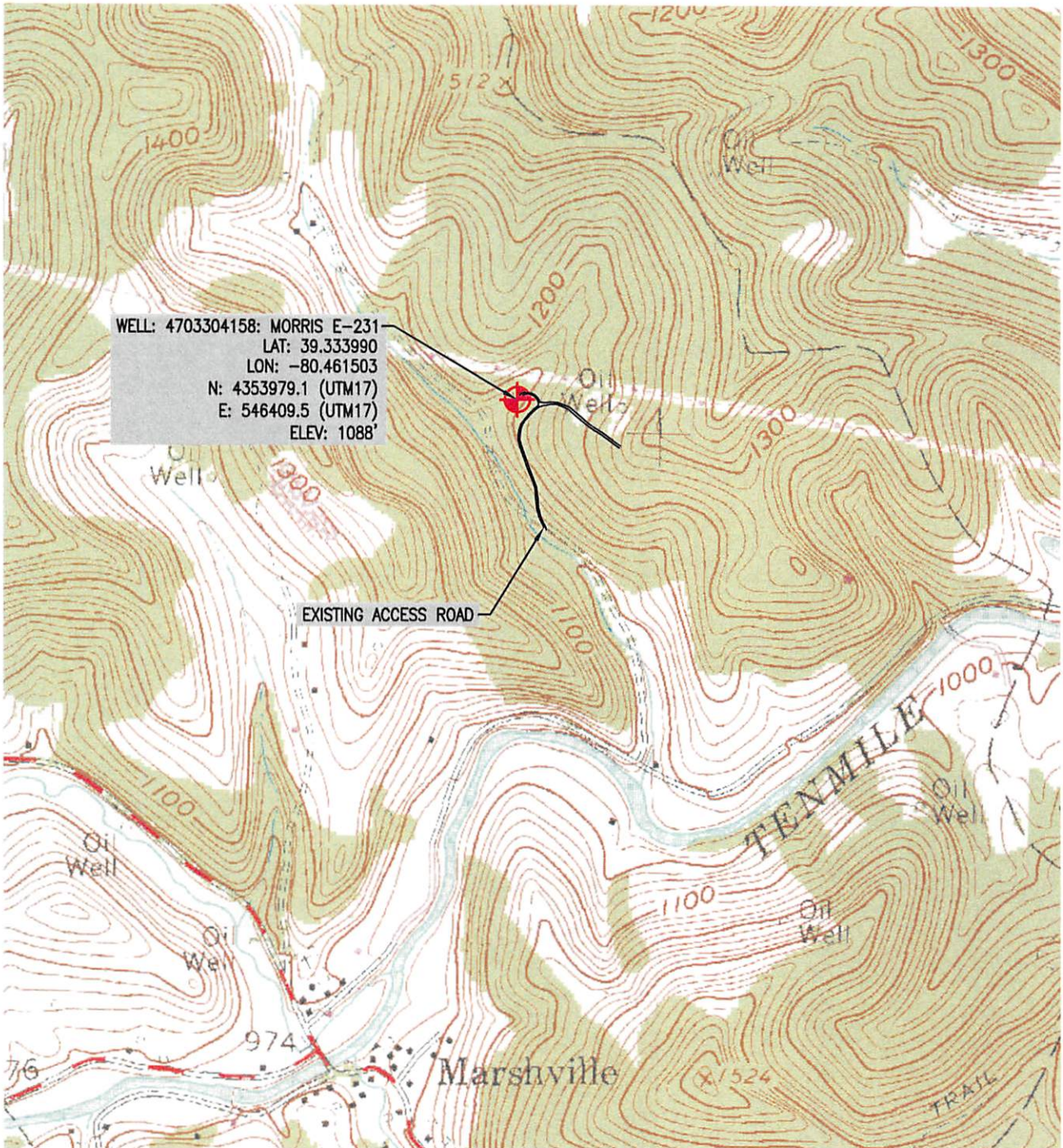
TRC-COUNTY ENGINEERING, LLC
401 E. HARRISON STREET
MORRIS, WV 26041
TEL: 304-724-6500
WWW.TRC-COUNTYENGINEERING.COM

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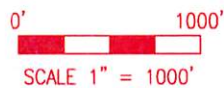
TRC-COUNTY ENGINEERING, LLC
401 E. HARRISON STREET
MORRIS, WV 26041
TEL: 304-724-6500
WWW.TRC-COUNTYENGINEERING.COM



MAP REFERENCE: U.S.G.S. WALLACE, WV



810 HOUSTON STREET
FORT WORTH, TX 76102



Voice: (724) 635-0210



Excellence-Every project. Every day.

TRI-COUNTY ENGINEERING, LLC

An ENERCON Company
 319 Paintersville Road
 Hunker, PA 15639
 www.tricountyeng.com

Fax: (724) 635-0676

LOCATION MAP	
MORRIS E-231 WELL PLUG	
DRAWN BY: BMK DATE: 7/13/15 SCALE: AS NOTED	TENMILE DISTRICT, HARRISON COUNTY, WEST VIRGINIA SHEET: 1 OF 1 FILE NO. OG61-03

11/27/2015
 Received
 Office of Oil & Gas
 NOV 06 2015

I

11/23/15

Operator: XTO ENERGY, INC.

API: 3304158

WELL No: 3-E-231

Reviewed by: g. m. m. Date: 11/23/15

15 Day End of Comment: 11/11/15

* AGREED ORDER

CHECKLIST FOR FILING A PERMIT

Plugging

Ck# 7782703
\$100⁰⁰

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee /Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (~~\$0.00 if no pit~~)

3309158 P



WVDEP
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

Re: Application to Plug and Abandon
3E-231
Tenmile District
Harrison County, WV

To Whom It May Concern:

In accordance with Article 22-6-23 of the West Virginia State Code regarding oil and gas operations, please find the attached application for the plugging and abandonment of the subject well. Notices of our intention to plug this wellbore have been sent to the surface owner, coal owners with declarations recorded, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records. If you have any questions or need additional information, please feel free to contact me at 304-884-6000.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Sands'.

Tim Sands
PO Box 1008
Jane Lew, WV 26378

Received
Office of Oil & Gas
NOV 06 2015

11/27/2015