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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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, August 7, 2018  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

XTO ENERGY, INC.  
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for JACKSON S-8  
47-033-02013-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: JACKSON S-8  
Farm Name: ROGERS, EDWARD  
U.S. WELL NUMBER: 47-033-02013-00-00  
Vertical Plugging  
Date Issued: 8/7/2018

## 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.

33-02013A

WW-4B  
Rev. 2/01

1) Date 7/3, 20 18  
2) Operator's  
Well No. Jackson S-8  
3) API Well No. 47-033 - 02013

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 1538' 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 9) Plugging Contractor  
Name Sam Ward Name \_\_\_\_\_  
Address PO Box 2327 Address \_\_\_\_\_  
Buckhannon, WV 26201

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

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

Work order approved by inspector [Signature] Date 7/31/2018

08/10/2018

47-033-02013  
Plugging Procedure

Rogers, Edward  
Jackson S-8

Run in hole with tools and check TD at 5030'.  
 Pull out of hole and run tubing down to 5030' and circulate 6% gel back to surface, then pump cement from 5020' up to 4920', no perfs here, pull tubing up to 4620' and pump cement up to 4400', perfs at 4564' to 4560'.  
 Pull tubing up to 4090' and reverse out of tubing, then wait for cement to set up.  
 RIH down tubing and tag cement at 4400', if ok, break circulation and pump cement from 4090' up to 3900'. Perfs at 4009' to 4032'.  
 Pull tubing up 3100' and pump cement up to 2550', perfs at 3034' - 2676'.  
 Pull tubing up to 2230' and pump cement up to 2000'.  
 Pull tubing out and run W/L in to CBL, top est. at 1750'. Cut casing and break circulation with 6% gel, pull casing out and run tubing back in to cut and pump cement from 1750' up to 1650'. Pull tubing up to 1600' and pump cement up to 1440'. Elevation at 1538'.  
 Pull tubing up to 1320' and pump cement up to 1200', bottom of 8 5/8" at 1262'.  
 Pull tubing out and run CBL in 8 5/8", T.O.C. estimated at 850', cut and pull casing. Run tubing back to cut and pump cement from 850' up to 750', pull tubing up to 275' and pump cement to surface.  
 Install Well Monument

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- Cement 5030' - 4920'
- Cement 4620' - 4400'
- Cement 4090' - 3900'
- Cement 3100' - 2550'
- Cement 2230' - 2000'
- Cement 1750' - 1650'
- Cement 1600' - 1440'
- Cement 1320' - 1200'
- Cement 850' - 750'
- Cement 275' - 0'

*SJew  
 7/3/2018*



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

APR 17 1979  
OIL & GAS  
DEPT. OF MINES

WELL RECORD 7

Quadrangle Wallace

Permit No. 47-033-2013

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 Mary Jackson - Rogers Acres 155  
Location (waters) Caldwell Run  
Well No. 2 K-L-231 Elev. 1501  
District Sardis County Harrison  
The surface of tract is owned in fee by Mary Elizabeth Jackson  
Address 2634 Prairie, Evanston, IL 60201  
Mineral rights are owned by same as above  
Address \_\_\_\_\_  
Drilling Commenced 8/20/79  
Drilling Completed 8/27/79  
Initial open flow 84 Mcu. ft. \_\_\_\_\_ bbls.  
Final production 544 Mcu. ft. per day \_\_\_\_\_ bbls.  
Well open 4 hrs. before test 1325 #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"	30'	30'	
9 5/8			
8 5/8	1262'	1262'	88 Sks.
7			
5 1/2			
4 1/2	5032'	5032'	285 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Stimulation Record:

Date:	Interval Perforated:	From:	To:	Amt Fluid:	Amt Sand:
9/13/79		4009	4032	650 BBLs.	50,000 #
9/13/79		4560	4564	509 BBLs.	40,000 #

Coal was encountered at 48, 250, 765 Feet \_\_\_\_\_ Inches  
Fresh water 215 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Bradford, Balltown Depth 4560, 4009

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	10		
Sand			10	48		
Coal			48	50		
Sand			50	145		
Shale			145	170		
Sand			170	200		
Shale			200	250		
Coal			250	255		
Shale & Red Rock			255	575		
Sand			575	651		
Shale			651	765		
Coal			765	768		
Sand & Shale			768	805		
Sand			805	865		
Shale & Red Rock			865	1115		
Sand & Shale			1115	1456		
Shale & Sand			1456	1815		
Shale & Red Rock			1815	1965		
Big Lime & Injun			1965	2135		
Shale			2135	2250		
Red Rock			2250	2285		
Sand & Shale			2285	2875		
Sand			2875	2975		

F. W. @ 215'

Water @ 1770'

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08/10/2018

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	(Oil Gas or Water)	Remarks
Shale & Sand			2975	4600		
Shale			4600	4990		Show @ 4800'
and			4990	5020		
and & Shale			5020	5144		
Miller's T.D.				5144		
Big Injun			2056	2192		
Thin Sand			2934	2958		
Upper Speechley			3524	3258		
Speechley			3668	3720		
Milltown			4016	4058		
Bradford			4550	4580		
Logger's T.D.				5090		

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08/10/2018

Date: Nov. 27 1979  
 APPROVED BY: Donald R. Langhlin Owner  
 By: Vice President  
 (Title)



IV-35  
(Rev 8-81)

Date February 11th, 1986  
Operator's  
Well No. Jackson S-8  
Farm Jackson  
API No. 47 - 033 - 2013

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State of West Virginia  
Department of Mines  
Oil and Gas Division

WV Department of  
Environmental Protection

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1501' Watershed Caldwell Run  
District: Sardis County Harrison Quadrangle Wallace

COMPANY Sheldon and Sheldon, Inc.  
ADDRESS 901 W. Main St. Suite 201, Bldgprt, WV  
DESIGNATED AGENT David J. Sheldon  
ADDRESS 118 Westwood Ave. Bldgpt. WV.  
SURFACE OWNER Edward Rogers  
ADDRESS 2124 Ohara Dr., Charlotte, NC  
MINERAL RIGHTS OWNER Edward Rogers  
ADDRESS 2124 Ohara Dr. Charlotte, NC  
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey  
ADDRESS Rt. 2 Box 232-D, Jane Lew, WV  
PERMIT ISSUED October 28th, 1985  
DRILLING COMMENCED N/A  
DRILLING COMPLETED N/A  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION \_\_\_\_\_ Depth \_\_\_\_\_ feet  
Depth of completed well \_\_\_\_\_ feet Rotary \_\_\_\_\_ / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Big Injun Pay zone depth 2110 - 2170 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 130 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 215 psig (surface measurement) after 72 hours shut in

08/10/2018

(Continue on reverse side)

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

Perforation Notch 2125 and 2162

Frace Using 730 hbls water, 60,000# 20-40 Sand, 2,000# Rock Salt  
500 Gals Acid, and 87,000. scf N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
THIS INFORMATION IS SHOWN ON ORIGINAL WELL REPORT.					

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(Attach separate sheets as necessary)

Sheldon and Sheldon, Inc.  
Well Operator  
By: [Signature] 08/10/2018  
Date: February 11th, 1986

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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WW-4A  
Revised 6-07

1) Date: 7/3/18  
2) Operator's Well Number  
Jackson S-8

3) API Well No.: 47 - 033 - 02013

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

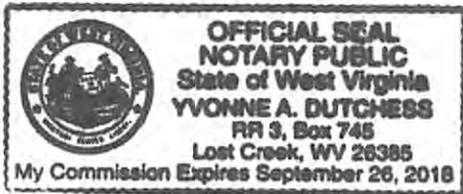
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Elizabeth Jackson Groninger &amp; Hunter Jackson Jr.</u>	Name <u>N/A</u>
Address <u>1711 Park Ave.</u>	Address _____
<u>Richmond, VA 23220</u>	_____
(b) Name <u>Edward Rogers</u>	(b) Coal Owner(s) with Declaration
Address <u>PO Box 7161</u>	Name <u>N/A</u>
<u>Charlotte, NC 28241</u>	Address _____
_____	_____
(c) Name <u>Wayne Piggot Jr.</u>	Name _____
Address <u>1826 Caldwell Run Rd.</u>	Address _____
<u>Lumberport, WV 26389</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: Regulatory Coordinator  
 Address PO Box 1008  
Jane Lew, WV 26378  
 Telephone 304-884-6000

Subscribed and sworn before me this 5<sup>th</sup> day of July 2018  
Yvonne A. Dutchess Notary Public  
 My Commission Expires September 26, 2018

Oil and Gas Privacy Notice

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

08/10/2018

WW-9  
(5/16)

API Number 47 - 033 - 02013  
Operator's Well No. Jackson 5-8

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

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

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

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))

*SDCO  
7/3/2018*

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

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

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

Additives to be used in drilling medium? NA

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

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

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

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

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

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

Company Official Signature Tim Sands

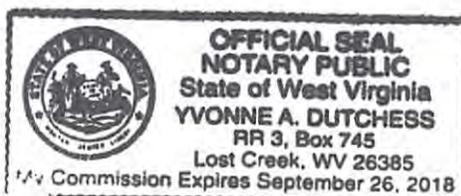
Company Official (Typed Name) Tim Sands

Company Official Title Regulatory Coordinator

Subscribed and sworn before me this 5<sup>th</sup> day of July, 20 18

Yvonne A. Dutches Notary Public

My commission expires September 26, 2018



08/10/2018

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Form WW-9

Operator's Well No. Jackson 5-8

Proposed Revegetation Treatment: Acres Disturbed 1.97 +/- Prevegetation pH \_\_\_\_\_

Lime 2 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-10

Fertilizer amount 1000 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass	30	Kentucky Bluegrass	30
Redtop	5	Redtop	5
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15

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: [Signature]

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

Title: OOG Inspector Date: 7/31/2018

Field Reviewed? ( ) Yes ( X ) No

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WW-9- GPP  
Rev. 5/16

Page 1 of 2  
API Number 47 - 033 - 02013  
Operator's Well No. Jackson 5-8

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 Tenmile Creek Quad: Wallace  
Farm Name: Rogers, Edward

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 2 of 2  
API Number 47 - 033 - 02013  
Operator's Well No. Jackson 5-8

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.

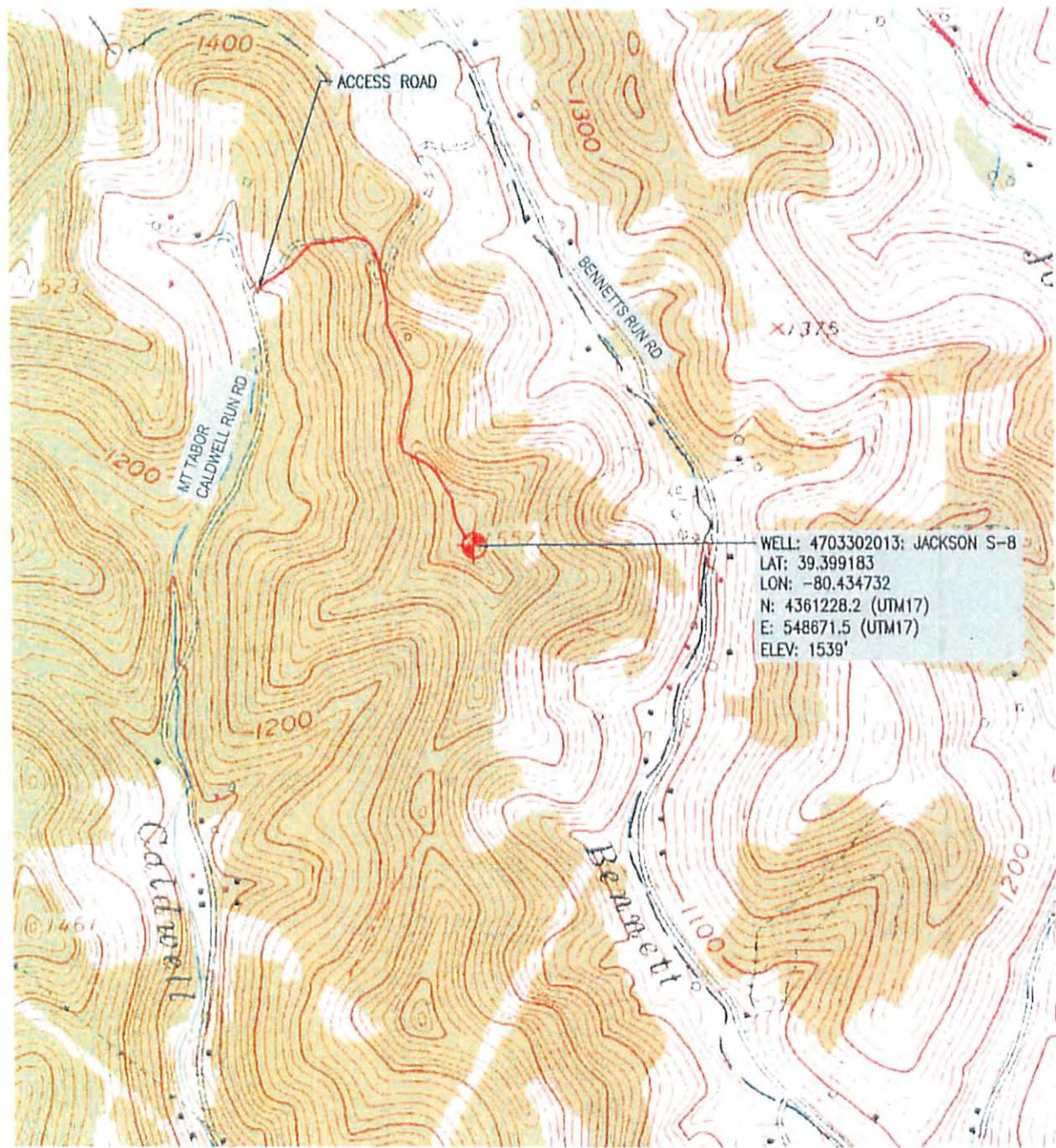
NA

Signature: *Tim Smith*

Date: 6/28/18

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JUL 20 2018  
WV Department of  
Environmental Protection  
08/10/2018

SDW  
7/15/2015



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



810 HOUSTON STREET  
 FORT WORTH, TX 76102

0' 1000'  
 SCALE 1" = 1000'

TRI-COUNTY ENGINEERING, LLC

An ENERCON Company

319 Paintersville Road  
 Hurkett, PA 15635  
 www.tricountyeng.com

Voice: (724) 635-0210

Fax: (724) 635-0676



Excellence-Every project. Every day.

LOCATION MAP

JACKSON S-8 WELL PLUG

DRAWN BY:  
 MRC  
 DATE:  
 7/6/2015  
 SCALE:  
 AS NOTED

SARDIS DISTRICT,  
 HARRISON COUNTY, WEST VIRGINIA  
 SHEET:  
 1 OF 1  
 FILE NO:  
 OG61-08

Received  
 Office of Oil & Gas  
 08/10/2018

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JUL 20 2015

JUL 20 2018

WV Department of  
 Environmental Protection

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JUL 20 2018

WV Department of  
Environmental Protection

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-02013 WELL NO.: Jackson S-8

FARM NAME: Rodgers, Edward

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Harrison DISTRICT: Sardis

QUADRANGLE: Wallace

SURFACE OWNER: Elizabeth Jackson Groninger, Hunter Jackson, Jr., & Edward Rodgers

ROYALTY OWNER: See attached list

UTM GPS NORTHING: 4361228.2

UTM GPS EASTING: 548671.5 GPS ELEVATION: 469 meters (1538')

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

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.

2. Accuracy to Datum – 3.05 meters

3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

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

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

Project Manager

July 6, 2015

Signature

Title

Date

Received  
Office of Oil and Gas 08/10/2018

JUL 20 2015