

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010**NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.****SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>NMSF-080382A</b>
2. Name of Operator <b>XTO ENERGY INC.</b>		6. If Indian, Allottee or Tribe Name <b>NAVAJO SURFACE</b>
3a. Address <b>382 CR 3100 AZTEC, NM 87410</b>	3b. Phone No. (include area code) <b>505-333-3630</b>	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>990' FNL &amp; 990' FEL NENE Sec.8 (A) -T27N-R11W N.M.P.M.</b>		8. Well Name and No. <b>SCHWERTFEGER #7</b>
		9. API Well No. <b>30-045-06746</b>
		10. Field and Pool, or Exploratory Area <b>W. KUTZ PICTURED CLIFFS</b>
		11. County or Parish, State <b>SAN JUAN NM</b>

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

**XTO Energy Inc. intends to plug and abandon this well per the attached procedure and will be using a Closed Loop System. Please see also the attached current and proposed wellbore diagrams.**

OIL CONS. DIV.

DIST. 3

Notify NMOCD 24 hrs  
prior to beginning  
operationsBLM'S APPROVAL OR ACCEPTANCE OF THIS  
ACTION DOES NOT RELIEVE THE LESSEE AND  
OPERATOR FROM OBTAINING ANY OTHER  
AUTHORIZATION REQUIRED FOR OPERATIONS  
ON FEDERAL AND INDIAN LANDSSEE ATTACHED FOR  
CONDITIONS OF APPROVALH<sub>2</sub>S POTENTIAL EXIST

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>SHERRY J. MORROW</b>	Title <b>REGULATORY ANALYST</b>
Signature <i>Sherry J. Morrow</i>	Date <b>8/18/2014</b>

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <b>Troy Salvors</b>	Title <b>Petroleum Eng.</b>	Date <b>8/26/2014</b>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office <b>FFO</b>	

**Schwerdtfeger #7  
Sec 08, T 27 N, R 11 W  
San Juan County, New Mexico  
8/12/2014**

**Plug and Abandon Procedure**

**AFE Number:** 1406373

**Spud Date:** 6/15/1951

**Surface Casing:** 9-5/8", 40#, H-40 csg @ 105'. Cmt'd w/75 sx. Circ cmt to surf.

**Production Casing:** Initial: 5-1/2", 14#, J-55 csg @ 1,901'. Cmt'd w/150 sx. Unknown if circ to surf.

**Production Casing:** Secondary: 4", 10.46#, J-55 csg @ 2,119'. Cmt'd w/100 sx. Circ 10 bbl cmt to surf.  
*Capacity: .01174 bbls/ft or .493 gal/ft*

**Production Tubing:** 2-3/8" string

**Rod String:** 3/4" string

**Pump:** 1-1/4" rod insert pump

**Perforations:** Open Hole Pictured Cliffs: 1,901' – 2,020'  
Perforated Pictured Cliffs: 1,920' – 1,954'

**PBTD:** 2,080'

**Recent Production:** INA since 8/12/2014. 33 mcfpd, 3 bwpd.

*\*Notify NMOCD & BLM 24 hours prior to beginning plugging operations\**

1. Check for COA's and approved NOI before beginning operations.
2. Test rig anchors.
3. Set flowback tank.
4. MIRU completion rig. Review JSA.
5. Kill well.
6. TOH & LD rods & pump.
7. ND WH. NU & FT BOP.
8. TOH & LD tubing.
9. TIH 3-1/4" bit to 1,920' on 2-3/8" workstring. TOH.

10. TIH 4" CR and set @  $\pm 1,910'$ . PT tubing. Sting out of CR and circulate hole clean.
11. PT casing and CR to 550 psig. If casing does not test, contact engineer.
12. MIRU cement truck. Review JSA.
13. **Perforation Isolation & Casing Shoe Plug (1,910' – 1,851')**: Pump 7 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield) down tubing and spot a balanced plug from 1,910' – 1,851' (volume calculated with 50' excess).
- See CoA**
14. **Fruitland Coal Top Plug (1,436' – 1,336')**: Pump 9 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield) down tubing and spot a balanced plug from 1,436' – 1,336' (volume calculated with 50' excess).
15. **Kirtland & Ojo Alamo Top Plug (913' – 726')**: Pump 14 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield) down tubing and spot a balanced plug from 913' – 726' (volume calculated with 50' excess).
16. **Casing Shoe & Surface Plug (155' – Surface)**: Pump 12 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield) down tubing and spot a balanced plug from 155' – Surface' (volume calculated with 50' excess).
17. TOH & LD tubing.
18. RDMO cement truck.
19. WOC 4 hours.
20. Cut off WH. Fill in casing as needed with cement. Install above ground P&A marker.
21. Cut off anchors and reclaim location.

## Checklist

### Regulatory:

1. NOI to P&A on form C-103 & 3160-5
2. Submit a post-work sundry on form C-103 & 3160-5 which details the P&A work and location work within 30 days of completing all required restoration work.

### Equipment:

1. 1 flowback tank
2. 1,950' 2-3/8" workstring
3. 4" cement retainer
4. 3-1/4" bit
5. 42 sx Class "B" cement
6. 1 above ground marker

### Services:

1. Completion rig
2. Cement truck



## XTO - Wellbore Diagram

Current

Well Name: Schwerdtfeger 07

API/UVI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
30045067460000	990.0	FEL	990.0	FNL	T27N-R11W-S08	Kutz W Pictured Cliffs	San Juan	New Mexico
Well Configuration Type	XTO ID B	Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	PBTD (All) (ftKB)	Total Depth (ftKB)	Method Of Production
Vertical	78488	6,156.00	6,149.00	7.00	6/15/1951	Original Hole - 2080.0	2,175.0	Beam

Well Config: Vertical - Original Hole, 7/2/2014 10:21:33 AM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zones		Top (ftKB)	Btm (ftKB)			
					Pictured Cliffs	1,920.0	1,954.0				
		Casing Strings									
		Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
		Surface	9 5/8	40.00	H-40		105.0				
		Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
		Production	5 1/2	14.00	J-55		1,901.0				
		Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)				
		Production	4	10.46	J-55		2,119.0				
		Cement									
		Description	Type	String							
		Surface Casing Cement	casing	Surface, 105.0ftKB							
		Comment									
		Cmt'd csg w/75 sx Neat Cmt. Circ cmt to surf.									
		Description	Type	String							
		Production Casing Cement	casing	Production, 1,901.0ftKB							
		Comment									
		Cmt'd w/150 sx Neat Cmt.									
		Description	Type	String							
		Production Casing Cement	casing	Production, 2,119.0ftKB							
		Comment									
		Cmt (10.5 ppg, yield 4.06), 38.3 bbls (100 sxs) Premium Cmt (12.5 ppg, yield 2.11). Bmp plg @ 1,730 psig. 10 bbls cmt to surf.									
		Perforations									
		Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone		
		6/11/1951	1,901.0	2,020.0	1.0				Pictured Cliffs		
		6/18/2004	1,920.0	1,954.0	1.0				Pictured Cliffs		
		Tubing Strings									
		Tubing Description	Run Date	Set Depth (ftKB)							
		Tubing - Production	10/30/2013	1,979.1							
		Tubing Components									
		Item Description	Jts	Model	OD (in)	Wt (lbs/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
		Tubing	46	T&C Upset	2 3/8	4.70	J-55		1,373.25	7.0	1,380.3
		Tubing	18	T&C Upset	2 3/8	4.70	J-55		583.11	1,380.3	1,963.4
		Pump Seating Nipple	1		2 3/8				0.75	1,963.4	1,964.1
		OPMA	1		2 3/8	4.70	J-55		15.00	1,964.1	1,979.1
		Rods									
		Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)						
		Rod String	10/31/2013	1,972.00	1,972.0						
		Rod Components									
		Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)		
		Polished Rod	1		1 1/4		16.00	0.0	16.0		
		Rod Sub	1		3/4 D		2.00	16.0	18.0		
Rod Sub	1		3/4 D		4.00	18.0	22.0				
Rod Sub	1		3/4 D		6.00	22.0	28.0				
Rod Sub	1		3/4 D		8.00	28.0	36.0				
Sucker Rod	61	WCN-78	3/4 D		1,525.00	36.0	1,561.0				
Sucker Rod w/Molded Guides	10		3/4 D		250.00	1,561.0	1,811.0				
Sucker Rod w/Molded Guides	5		7/8 D		125.00	1,811.0	1,936.0				
Shear Tool - 21K	1		7/8		0.70	1,936.0	1,936.7				
Sucker Rod w/Molded Guides	1		7/8 D		25.00	1,936.7	1,961.7				
Lift Sub	1		1		1.00	1,961.7	1,962.7				
Spiral Rod Guide	1		3/4		0.30	1,962.7	1,963.0				
Rod Insert Pump	1		1 1/4		8.00	1,963.0	1,971.0				
Strainer Nipple	1		1		1.00	1,971.0	1,972.0				

Top (MD):1,920,  
Des:Pictured Cliffs

Fish, 2,387,  
1,980-2,020

PBTD,  
2,080

TD, 2,175

Top (MD):1,920,  
Des:Pictured CliffsFish, 2.387,  
1,980-2,020PBTD,  
2,080

TD, 2,175

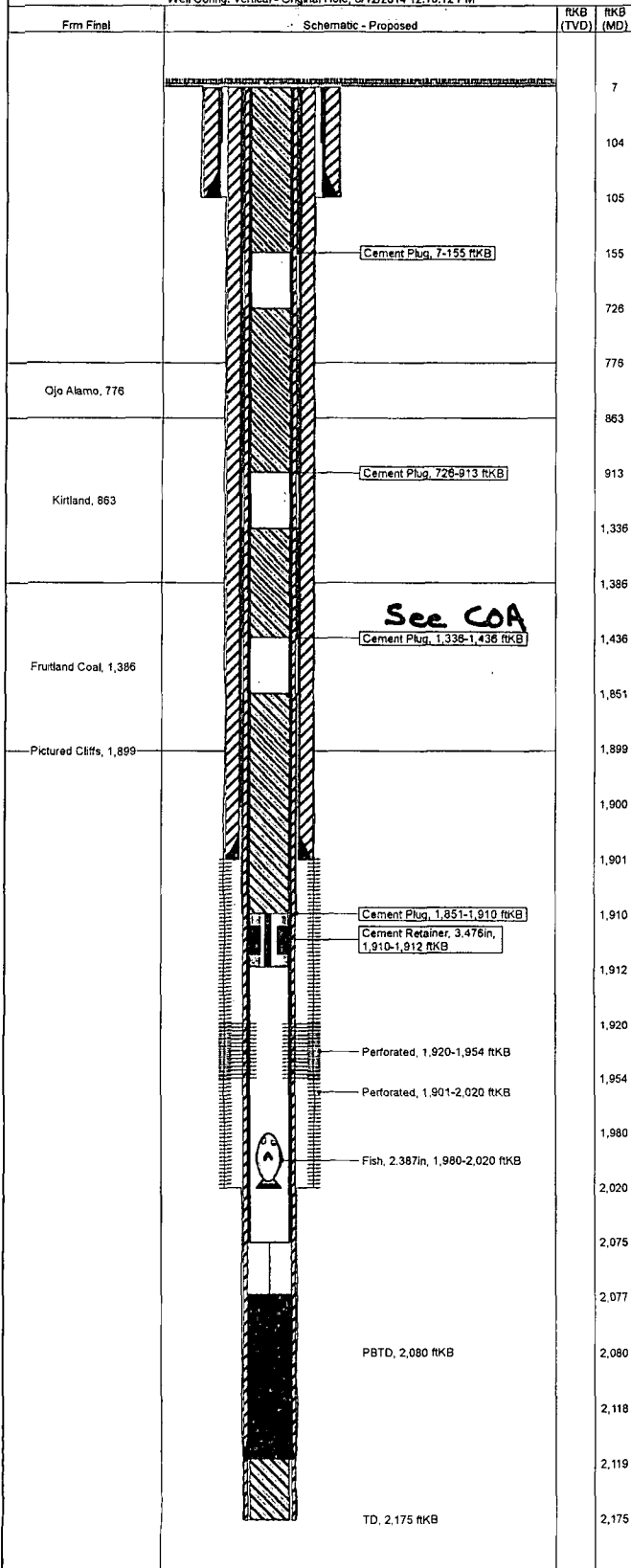


# XTO - Proposed P&A Wellbore Diagram

Well Name: **Schwerdtfeger 07**

API/UWI 30045067460000	E/W Dist (ft) 990.0	E/W Ref FEL	N/S Dist (ft) 990.0	N/S Ref FNL	Location T27N-R11W-S08	Field Name Kutz W Pictured Cliffs	County San Juan	State/Province New Mexico
Well Configuration Type Vertical	XTO ID B 78488	Orig KB Elev (ft) 6,156.00	Gr Elev (ft) 6,149.00	KB-Grd (ft) 7.00	Spud Date 6/15/1951	PBTD (All) (ftKB) Original Hole - 2080.0	Total Depth (ftKB) 2,175.0	Method Of Production Beam

Well Config: Vertical - Original Hole, 8/12/2014 12:13:12 PM



Zones						
Zone		Top (ftKB)		Btm (ftKB)		
Pictured Cliffs		1,920.0		1,954.0		
Casing Strings						
Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)	
Surface	9 5/8	40.00	H-40		105.0	
Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)	
Production	5 1/2	14.00	J-55		1,901.0	
Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftKB)	
Production	4	10.46	J-55		2,119.0	
Cement						
Description	Type		String			
Surface Casing Cement	casing		Surface, 105.0ftKB			
Comment						
Cmt'd csg w/75 sx Neat Cmt. Circ cmt to surf.						
Description	Type		String			
Production Casing Cement	casing		Production, 1,901.0ftKB			
Comment						
Cmt'd w/150 sx Neat Cmt.						
Description	Type		String			
Production Casing Cement	casing		Production, 2,119.0ftKB			
Comment						
Cmt (10.5 ppg, yield 4.06), 38.3 bbls (100 sxs) Premium Cmt (12.5 ppg, yield 2.11). Bmp plg @ 1,730 psig. 10 bbls cmt to surf.						
Description	Type		String			
Cement Plug	plug		Production, 1,901.0ftKB			
Comment						
Plug 1: Pump 7 sx from 1,910' - 1,851'						
Description	Type		String			
Cement Plug	plug		Production, 1,901.0ftKB			
Comment						
Plug 2: Pump 9 sx fr/1,436' - 1,336'						
Description	Type		String			
Cement Plug	plug		Production, 1,901.0ftKB			
Comment						
Plug 3: Pump 14 sx fr/913' - 726'						
Description	Type		String			
Cement Plug	plug		Production, 1,901.0ftKB			
Comment						
Plug 4: Pump 12 sx fr/155' - surface						
Other In Hole						
Description			OD (in)	Top (ftKB)		
Cement Retainer			3.476	1,910.0		
Fish			2.387	1,980.0		
Perforations						
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Zone
6/1/1951	1,901.0	2,020.0	1.0			Pictured Cliffs
6/18/2004	1,920.0	1,954.0	1.0	0.270		Pictured Cliffs

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Schwerdtfeger #7

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) Set the Fruitland Coal top plug (1630-1530) ft. to cover the Fruitland top.

Note: H<sub>2</sub>S has not been reported in section 8; however, low concentrations of H<sub>2</sub>S (8 ppm GSV) have been reported in the NE/NW of section 5-27N-11W.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.