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Form 3160-5  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB 22 2013

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY 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.*

Pattington Field (C) U.S. Bureau of Land Management

5. Lease Serial No.  
NOO-C-14-20-3597  
6. If Indian, Allottee or Tribe Name  
Navajo Allotment

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		7. If Unit of CA/Agreement, Name and/or No. CA NMNM-112704
2. Name of Operator XTO Energy Inc.		8. Well Name and No. Canyon #19H
3a. Address 382 Road 3100 Aztec, NM 87410	3b. Phone No. (include area code) 505-333-3100	9. API Well No. 30-045-35387
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1736' FSL & 417' FEL (I) Sec. 2, T25N, R11W (SHL) and 2180' FSL & 1950' FEL (J) Sec. 3, T25N, R11W (BHL)		10. Field and Pool or Exploratory Area Basin Mancos
		11. Country or Parish, State San Juan County, New Mexico

12. CHECK THE 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 <u>change drilling prog</u>
	<input checked="" type="checkbox"/> Change Plans	<input 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 recomplete 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

XTO Energy Inc. plans to change the setting depth of the liner top from 5637'-11614' to 5350'-11614' and change the intermediate cement program from a 2-stage to single-stage. The revised Drilling Program is attached.

RCVD FEB 28 '13  
OIL CONS. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) CHERYLENE CHARLEY		Title SR. PERMITTING TECH
Signature <i>Cherylene Charley</i>		Date 02/19/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>William Tambekou</i>	Title <i>Petroleum Engineer</i>	Date <i>02/26/2013</i>
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 <i>FFD</i>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCDFY

# XTO ENERGY INC.

Canyon #19H

APD Data

February 19, 2013

**Location:** 1736' FSL x 417' FEL Sec 2, T25N, R11W      **County:** San Juan      **State:** New Mexico  
**Bottomhole Location:** 2180' FSL x 1950' FEL Sec 3, T25N, R11W

GREATEST PROJECTED TVD: 5144'

APPROX GR ELEV: 6389'

GREATEST PROJECTED MD: 11614'

Est. KB ELEV: 6401' (22' AGL)

OBJECTIVE: Gallup Horizontal

## 1. MUD PROGRAM:

INTERVAL	0' to 500'	500' to 5697'	5697' to TD
HOLE SIZE	12.25"	8.75"	6.125"
MUD TYPE	FW/Spud Mud	FW/Polymer/LSND	Oil Based Mud/Invert
WEIGHT	8.6-9.0	8.4-9.2	11-13.5
VISCOSITY	28-32	28-36	28-36
WATER LOSS	NC	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning.

## 2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at ± 500' in a 12-1/4" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll <sup>1</sup>	SF Burst <sup>2</sup>	SF Ten <sup>3</sup>
0'-500'	500'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	8.44	14.7	21.9

Intermediate Casing: 7" casing to be set at ±5697' MD, 5144' TVD in 8.75" hole filled with 9.20 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll <sup>1</sup>	SF Burst <sup>2</sup>	SF Ten <sup>3</sup>
0'-5697'	5697'	26 #	J-55	ST&C	4320	4980	334	6.276	6.151	1.76	2.02	2.25

Production Casing: 4.5" casing to be set at ±11614' MD, 5054' TVD in 6.125" hole filled with 13.5 ppg mud. (Mud may be weighted up to 13.5 ppg for hole stability reasons. Anticipated Reservoir pressure ~ 7.5 ppg)

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll <sup>1</sup>	SF Burst <sup>2</sup>	SF Ten <sup>3</sup>
5350'-11614'	6264'	11.6#	N-80	LT&C	6350	7780	223	4.00	3.875	1.79	2.19	3.07

<sup>1</sup>Collapse SF is based on evacuated casing and hydrostatic at TVD.

<sup>2</sup>Burst SF is based on evacuated annulus and hydrostatic at TVD.

<sup>3</sup>Tensile SF is based on hanging air weight of casing in a vertical hole at measured depth.

### 3. WELLHEAD:

- A. Casing Head: C-22 profile (or equivalent), 9-5/8 slip on weld on x<sup>1</sup>11", 5000# with 11" x 7-1/16" 5000# C-22 casing hanger.
- B. Tubing Head: TCM (or equivalent), 11" 5000# x 7-1/16" 5000#, TC-1A 7-1/16" x 2-3/8 tubing Hanger

### 4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):

- A. Surface: 9.625", 36.0#, J-55, ST&C casing to be set at ± 500' in 12-1/4" hole.

± 268 sx of Type V cement (or equivalent) typically containing accelerator and LCM, mixed at 15.8 ppg, 1.17 ft<sup>3</sup>/sk, & 5.01 gal wtr/sk.

*Total slurry volume is 313 ft<sup>3</sup>, 100% excess of calculated annular volume to 500'.*

- B. Intermediate Casing: 7", 26#/ft, J-55, ST&C casing to be set at ±5697' MD, 5144' TVD in 8.75" hole.

#### LEAD:

± 346 sx of Type V (or equivalent) typically containing accelerator, LCM, dispersant, and fluid loss additives at 12.3 ppg, 2.36 ft<sup>3</sup>/sk, & 12.95 gal wtr/sk.

#### TAIL:

± 200 sx of Type V or Class G cement typically containing accelerator, LCM, dispersant, and fluid loss additives at 13.5 ppg, 1.81 ft<sup>3</sup>/sk, & 8.85 gal wtr/sk.

*Total estimated slurry volume for the 7" production casing is 1177 ft<sup>3</sup>.*

- C. Production Liner: 4.5", 11.6#/ft, N-80, LT&C casing is to be set at 11614' MD, 5054' TVD in 6.125" hole.

The production liner will be set using an uncemented liner hanger. The liner may be tied back to surface during the completion of the well.

**Note:** *The slurry design may change based upon actual conditions. Final cement volumes will be determined from the caliper logs (if available) plus 40%. It will be attempted to circulate cement to the surface.*

### 5. LOGGING PROGRAM:

- A. Mud Logger: A geologic consultant or unmanned mud logging unit will begin logging the well once the surface shoe is drilled out and remain on the well to TD.
- B. Open Hole Logs as follows: Gamma Ray from Surface shoe to TD.

**6. FORMATION TOPS:**

See attached Directional Program.

\*\*\*\* Maximum anticipated BHP should be <2,000 psig (<0.38psi/ft) \*\*\*\*

**7. COMPANY PERSONNEL:**

Name	Title	Office Phone	Cellular Phone
Ross Lubbers	Drilling Manager	303-397-3721	405-659-8563
Justin Niederhofer	Drilling Engineer	303-397-3719	505-320-0158
Bobby Jackson	Drilling Superintendent	303-397-3720	505-486-4706
Reed Meek	Project Geologist	817-885-2800	--

JDN  
2/19/13