

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires March 31, 2007

## 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.

2006 JUL 20 AM 4 27

SUBMIT IN TRIPLICATE - Other instructions on reverse side

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

XTO Energy Inc.

## 3a. Address

2700 Farmington Ave., Bldg. K, Ste 1 Farmington,

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

990' FSL &amp; 860' FWL SEC 22M-T28N-R4W

## 3b. Phone No. (include area code)

505-324-1090

7. If Unit or CA/Agreement, Name and/or No.  
RECEIVED

070 FARMINGTON NM

## 8. Well Name and No.

VALENCIA CANYON

## UNIT #47

## 9. API Well No.

30-039-29504

## 10. Field and Pool, or Exploratory Area

BLANCO MESAVERDE

## 11. County or Parish, State

SAN JUAN

NM

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

## TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Acidize☒ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other ALTER HOLE &

CASING

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.)

Events during the drilling of the Valencia Canyon Unit (VCU) #45B and VCU #45C have resulted in a re-evaluation of the casing program for this well. XTO now proposes the 7" casing as a contingency measure only in the event similar hole problems are realized as seen in the VCU #45C. If similar problems are not encountered as seen in the VCU #45C (ie. drilling parallels the VCU #45B) the planned 7" intermediate seat may be omitted. This would maintain the 8-3/4" hole size to TD @ 6750', so that the larger 5-1/2" production string can be used for completion. This is preferred to the smaller 4-1/2" production casing that would have to be run & cemented should 7" intermediate pipe be necessary. To facilitate either of the well program designs as well bore conditions dictate, a 9-5/8" OD surface pipe will be set. Please see attached.

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

LORRI D. BINGHAM

## Title

REGULATORY COMPLIANCE TECH

Date 7/19/06

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

## Approved by

## Title

## Date

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

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

NMUCD

# PRIMARY WELL DESIGN

## XTO ENERGY INC.

Valencia Canyon #47

APD Data

July 18, 2006

Location: 990' FSL x 860' FWL Sec 22, T28N, R4W

County: Rio Arriba

State: New Mexico

GREATEST PROJECTED TD: 6750'

OBJECTIVE: Blanco Mesaverde

APPROX GR ELEV: 7277'

Est KB ELEV: 7289' (12' AGL)

### 1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 2500'	2500' to 6750
HOLE SIZE	12.25"	7.875"	7.875"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND / Gel Chemical
WEIGHT	8.6-9.0	8.4-8.8	8.6- 9.20
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC	NC	8-10

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

### 2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at  $\pm 360'$  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	SF Burst	SF Ten
0'-360'	360'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	11.7	20.4	30.40

Production Casing: 5.5" casing to be set at TD ( $\pm 6750'$ ) in 8-3/4" 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	SF Burst	SF Ten
0'-6750'	6750'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.25	1.49	1.93

### 3. WELLHEAD:

- A. Casing Head: Larkin Fig W92 (or equivalent), 10" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP (10,000 psig test), 7" slip-on, weld-on 7-1/16" flanged top.

**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  $\pm 360'$  in 12-1/4" hole.

165 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft<sup>3</sup>/sk, & 6.70 gal wtr/sk.

*Total slurry volume is 230 ft<sup>3</sup>, 100% excess of calculated annular volume to 360'.*

B. Production: 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at  $\pm 6750'$  in 8.75" hole. DV Tool set @  $\pm 4000'$

1<sup>st</sup> Stage

LEAD:

$\pm 250$  sx of Premium Lite HS (Type III/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 12.5 ppg, 2.01 ft<sup>3</sup>/sk, 10.55 gal wtr/sx.

TAIL:

130 sx Type III or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx.

2<sup>nd</sup> Stage

LEAD:

$\pm 475$  sx of Type III or equivalent cement with 8% gel & LCM mixed at 11.9 ppg, 2.54 ft<sup>3</sup>/sk, 15.00 gal wtr/sx.

TAIL:

130 sx Type III neat mixed at 14.5 ppg, 1.39 cuft/sx, 6.3 gal/sx.

*Total estimated slurry volume for the 5-1/2" production casing is 2287 ft<sup>3</sup>.*

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

**5. LOGGING PROGRAM:**

A. Mud Logger: The mud logger will come on at 2,900' and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (6750') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (6750') to 3,000'.

6. **FORMATION TOPS:**

Est. KB Elevation: 7289'

<b><u>FORMATION</u></b>	<b><u>Sub-Sea</u></b>	<b><u>MD</u></b>
Ojo Alamo SS	3798	3,491
Kirtland Shale	3534	3,755
Farmington SS		
Fruitland Formation	3485	3,804
Lower Fruitland Coal		
Pictured Cliffs SS	3071	4,218
Lewis Shale	2791	4,498
Chacra SS**	2087	5,202
Cliffhouse SS*	1335	5,954
Menefee**	1208	6,081
Point Lookout SS*	899	6,390
Mancos Shale	578	6,711
<b>TD</b>	<b>539</b>	<b>6,750</b>

\* *Primary Objective*    \*\* *Secondary Objective*

\*\*\*\* Maximum anticipated BHP should be <2,000 psig ( <0.30 psi/ft) \*\*\*\*

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
John Egelston	Drilling Engineer	505-564-6734	505-330-6902
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
Reed Meek	Project Geologist	817-885-2800	817-427-2475

BHM  
7/18/06

# WELL DESIGN with CONTINGENCY XTO ENERGY INC.

Valencia Canyon #47

APD Data

July 18, 2006

**Location:** 990' FSL x 860' FWL Sec 22, T28N, R4W

**County:** Rio Arriba

**State:** New Mexico

**GREATEST PROJECTED TD:** 6750'

**OBJECTIVE:** Blanco Mesaverde

**APPROX GR ELEV:** 7277'

**Est KB ELEV:** 7289' (12' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 4600'	4600' to 6750
HOLE SIZE	12.25"	8.75"	8.75" / 6.25"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND / Gel Chemical
WEIGHT	8.6-9.0	8.4-8.8	8.6- 9.20
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC	NC	8-10

Remarks: Use fibrous materials as needed to control seepage/lost circulation. Pump high viscosity sweeps as needed (hole cleaning). Raise viscosity at TD-logging. Reduce viscosity after logging for cementing purposes.

## 2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at  $\pm$  360' 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	SF Burst	SF Ten
0'-360'	360'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	11.70	20.40	30.40

Intermediate Casing (Contingency): 7" casing to be set at  $\pm$  4600' in a 8-3/4" 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	SF Burst	SF Ten
0'-4600'	4600'	20.0#	J-55	ST&C	2270	3740	234	6.456	6.331	1.03	1.76	2.54

Production Casing: 4.5" casing to be set at TD ( $\pm$ 6750') in 6-1/4" 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	SF Burst	SF Ten
0'-6750	6750'	10.5#	J-55	ST&C	4010	4790	132	4.052	3.927	1.24	1.48	1.86

## 3. WELLHEAD:

- A. Casing Head: Larkin Fig W92 (or equivalent), 10" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP (10,000 psig test), 7" slip-on, weld-on, 7-1/16" flanged top.

**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  $\pm 360'$  in 12-1/4" hole.

165 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft<sup>3</sup>/sk, & 6.70 gal wtr/sk.

*Total slurry volume is 229 ft<sup>3</sup>, 100% excess of calculated annular volume to 360'.*

B. Intermediate (Contingency): 7", 20.0#, J-55, STC casing to be set at  $\pm 4,600'$ .

Lead: 405 sx of Class "B" or equivalent cement containing 2% D-79 (extender), 1/4 pps D-29 (celloflake) and 2% S-1 (CaCl<sub>2</sub>) mixed at 11.4 ppg, 2.87 ft<sup>3</sup>/sk, 17.63 gal wtr/sx.

Tail: 100 sx of Class "B" or equivalent cement containing 2% D-79 (extender), 1/4 pps D-29 (celloflake) and 2% S-1 (CaCl<sub>2</sub>) mixed at 13.5 ppg, 1.71 ft<sup>3</sup>/sk, 8.93 gal wtr/sx.

*Total slurry volume is 1,333 ft<sup>3</sup>, circulated to surface.*

C: Production (Contingency): 4-1/2", 10.5#, J-55, STC casing to be set at  $\pm 6,750'$  in 6.25" hole.

Lead: 50 sx of Class "B" cement containing 2% D-79 (extender), 1/4 pps D-29 (celloflake) and 2% S-1 (CaCl<sub>2</sub>) mixed at 11.4 ppg, 2.87 ft<sup>3</sup>/sk, 17.63 gal wtr/sx.

Tail: 150 sx of Class "B" cement containing 2% D-79 (extender), 1/4 pps D-29 (celloflake) and 2% S-1 (CaCl<sub>2</sub>) mixed at 13.5 ppg, 1.71 ft<sup>3</sup>/sk, 8.93 gal wtr/sx..

*Total estimated slurry volume for the 4-1/2" production casing is 400 ft<sup>3</sup> for 2,750' of fill. Est. TOC should be @ 4,000'.*

*Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 40%. .*

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**5. LOGGING PROGRAM:**

A. Mud Logger: The mud logger will come on at 2,900' and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (6750') to the bottom of the intermediate csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (6750') to 4,600'.

6. **FORMATION TOPS:**

Est. KB Elevation: 7289'

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