

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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.  
Farmington Field Office

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. NM-103799
2. Name of Operator XTO Energy Inc.		6. If Indian, Allottee or Tribe Name N/A
3a. Address 382 CR 3100 Aztec, NM 87410	3b. Phone No. (include area code) 505-333-3100	7. If Unit or CA/Agreement, Name and/or No. N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 720' FSL & 665' FWL SEC 12M-T27N-R8W BHL: 1900' FSL & 700' FEL SEC 12I-T27N-R82		8. Well Name and No. BOLACK B #2R
		9. API Well No. 30-045-34582
		10. Field and Pool, or Exploratory Area BASIN FRUITLAND COAL
		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	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 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 recomple 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 recompletion 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 change this well from a vertically drilled well to a horizontally drilled well. XTO also proposes to change from a PC/FC well to Fruitland Coal only. Please see the attached revised C-102.

New BHL: 1900' FSL & 700' FEL

RCUD APR 15 '08

OIL CONS. DIV.

DIST. 3

NOTIFY AZTEC OCD 24 HRS. CONDITIONS OF APPROVAL  
PRIOR TO CASING & CEMENT Adhere to previously issued stipulations.

Hold C104

for Directional Survey  
and "As Drilled" plat

S. Balanco PC cancelled 4/14/08

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) LORRI D. BINGHAM		Title REGULATORY COMPLIANCE TECH
Signature <i>Lorri D. Bingham</i>		Date 4/10/08
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by <i>[Signature]</i>	Title Pet. Eng	Date 4/14/08
Office		
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		

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.

NMOCN

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name BOLACK B			6 Well Number 2R
7 GRID No.		8 Operator Name XTO ENERGY INC.			9 Elevation 6667

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	27-N	8-W		720	SOUTH	665	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	12	27-N	8-W		1900	SOUTH	700	EAST	SAN JUAN

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
--------------------	--------------------	-----------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16		PRELIMINARY B.H.L. B.H.L. FOOTAGES ARE APPROXIMATE AND PROVIDED BY XTO ENERGY INC. CLIENT		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature: <i>Lois D. Bringham</i> Date: 4/10/08 Printed Name: <b>LORRI D. BRINGHAM</b>	
SURFACE LOCATION LAT: 36.58327° N. (NAD 83) LONG: 107.64050° W. (NAD 83) LAT: 36°34'59.7" N. (NAD 27) LONG: 107°38'23.6" W. (NAD 27) FD. 3 1/4" BC. 1955 B.L.M.		BOTTOM HOLE LOCATION LAT: 36.58590° N. (NAD 83) LONG: 107.62729° W. (NAD 83) LAT: 36°35'09.2" N. (NAD 27) LONG: 107°37'35.9" W. (NAD 27) FD. 3 1/4" BC. 1955 B.L.M.		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date of Survey: APR 10 2008 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 26-08	
N 2-24-47 E 2684.80' (M) 665' 720' FD. 3 1/4" BC. 1955 B.L.M.		12 S 86-37-33 E 2598.40' (M) FD. 3 1/4" BC. 1955 B.L.M.		BHL 700' 1900' N 02-50-34 E 2754.50' (M) N 86-47-16 W 2587.50' (M) FD. 3 1/4" BC. 1955 B.L.M.	

# XTO ENERGY INC.

Bolack B #2R

APD Data

April 10, 2008

Location: 720' FSL x 665' FWL Sec 12, T27N, R8W County: San Juan State: New Mexico  
Bottomhole Location: 1900' FSL x 700' FEL Sec 12, T27N, R8W

GREATEST PROJECTED TVD: 2990'

APPROX GR ELEV: 6667'

GREATEST PROJECTED MD: 6680'

Est KB ELEV: 6679' (12' AGL)

OBJECTIVE: Fruitland Coal

## 1. MUD PROGRAM:

INTERVAL	0' to 300'	300' to 3285'	3285' to TD
HOLE SIZE	12.25"	8.75"	6.125"
MUD TYPE	FW/Spud Mud	FW/Polymer	Air/Mist
WEIGHT	8.6-9.0	8.4-8.8	NA
VISCOSITY	28-32	28-32	NA
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. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. Use Fruitland Coal produced water as make-up water for mist fluid. Pump enough fluid to dampen vibration at directional BHA. If directional control is not maintainable in air/mist environment convert to polymer mud.

## 2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at  $\pm 300'$  in a 12.25" 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'-300'	300'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	18.76	32.7	48.6

Intermediate Casing: 7" casing to be set at  $\pm 3285'$  MD, 2990' 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'-3285'	3285'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	2.28	3.04	3.75

Production Casing: 4.5" casing to be set at  $\pm 6680'$  MD, 2990' TVD in 6.125" hole filled with 8.4 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>
3225'-6680'	3455'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	3.07	3.66	3.63

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

<sup>2</sup>Burst SF is based on evacuated casing 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: WHI QDF System (or equivalent), 9-5/8" x 7", 3,000 psig WP (4,000 psig test) with 9-5/8" 8rd thread ST&C pin end on bottom and 4-1/2" slips on top.
- B. Tubing Head: WHI W2F (or equivalent), 7.063" nominal, 5,000 psig WP (5,000 psig test), 5-1/2" slip-on or weld-on.

### 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.

163 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 226 ft<sup>3</sup>, 100% excess of calculated annular volume to 300'.*

- B. Production Casing: 7", 23#/ft, J-55, ST&C casing to be set at  $\pm 3285'$  MD, 2990' TVD in 8.75" hole.

#### LEAD:

$\pm 149$  sx of Premium Lite FM or CBM Lite typically containing accelerator, LCM, dispersant, and fluid loss additives at 12.1 ppg, 2.22 ft<sup>3</sup>/sk, & 12.04 gal wtr/sk.

#### TAIL:

$\pm 233$  sx of Type III or V cement typically containing accelerator, LCM, dispersant, and fluid loss additives at 14.2 ppg, 1.48 ft<sup>3</sup>/sk, & 7.34 gal wtr/sk.

*Total estimated slurry volume for the 7" production casing is 676 ft<sup>3</sup>.*

- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 6680' MD, 2990' 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 slightly 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 Plan.

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	505-333-3199	505-320-0158
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
John Klutsch	Project Geologist	817-885-2800	--

JN

4/10/08

# **XTO Energy**

**San Juan Basin (NAD 83)**

**Bolack B #2R**

**Bolack B #2R**

**Bolack B #2R**

**Plan: Sundry'd Wellbore (4-9-8)**

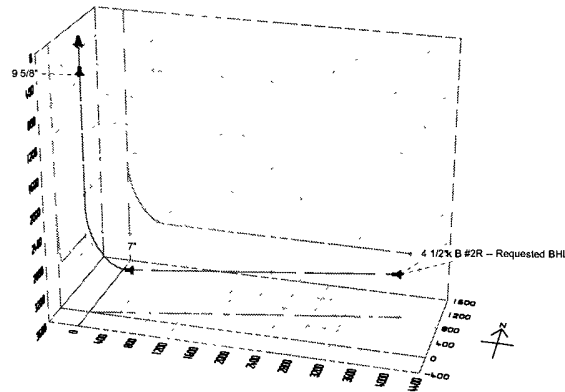
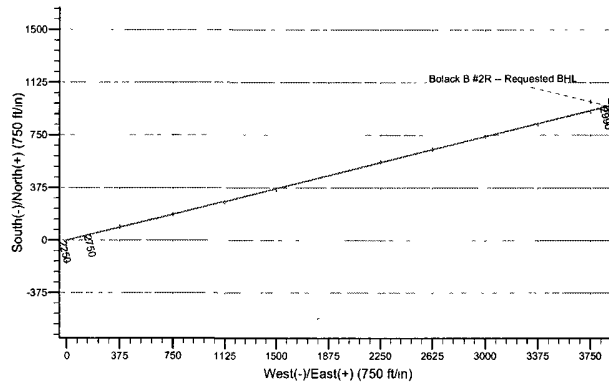
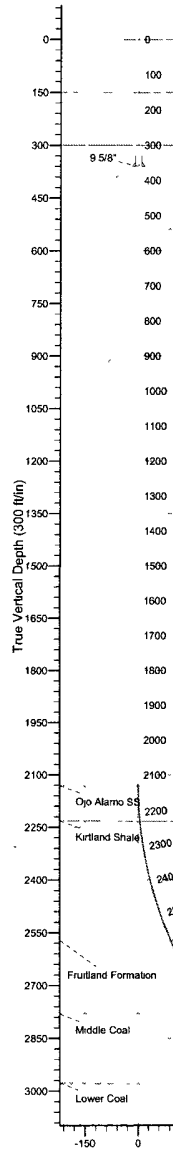
## **Standard Planning Report**

**09 April, 2008**



# SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 0	
22117.0	0 00	0 00	2117 0	0 0	0 0	0 00	0 00	0 00	0 0	
32118.0	0 05	76 13	2118 0	0 0	0 0	5 00	76 13	0 0	0 0	
42917.0	40 00	76 13	2853 6	64 3	260 3	5 00	0 00	268 1	Bolack B #2R -- Requested BHL	
52917.0	40 00	76 13	2853 6	64 3	260 3	15 00	0 02	268 1		
63250.3	90 00	76.13	2990 0	134 4	544 3	15 00	0 00	560 7	Bolack B #2R -- Requested BHL	
76684.4	90 00	76 13	2990 0	957 7	3878.3	0.00	0.00	3994 8		



Vertical Section at 76 13° (300 ft/in)

Well Name Bolack B #2R

Plan Description 5 deg/100' to 40 deg & 15 deg/100' to 90 deg

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Bolack B #2R -- Requested BHL	2990 0	957 7	3878.3	36° 35' 9 240 N	107° 37' 38 244 W	Rectangle (Sides L30 0 W30.0)

Project San Juan Basin (NAD 83)  
 Site Bolack B #2R  
 Well Bolack B #2R  
 Wellbore Bolack B #2R  
 Sundry'd Wellbore (4-9-8)

## FORMATION TOP DETAILS

TVDPathMDPath	Formation
2132 0 2132 0	Ojo Alamo SS
2233 0 2233 2	Kirtland Shale
2571 0 2583 8	Fruitland Formation
2781 0 2825.2	Middle Coal
2989 4 3228 6	Lower Coal

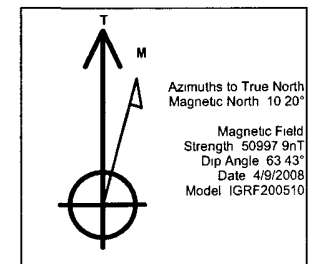
## CASING DETAILS

TVD	MD	Name	Size
360 0	360 0	9 5/8"	9-5/8
2990 0	3285.0	7"	7
2990 0	6680 0	4 1/2"	4-1/2

## PROJECT DETAILS. San Juan Basin (NAD 83)

Geodetic System US State Plane 1983  
 Datum North American Datum 1983  
 Ellipsoid GRS 1980  
 Zone New Mexico Western Zone

System Datum Mean Sea Level



Bolack B #2R -- Requested BHL

4 1/2"