

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 20 2008

FORM 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.*

**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  
**382 CR 3100 AZTEC, NM 87410**

3b. Phone No. (include area code)  
**505-333-3100**

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

**SHL: 1575 FSL x 1800 FEL Sec 10, T26N, R11W  
BHL: 700 FSL x 700 FWL Sec 10, T26N, R11W**

5. Lease Serial No

**NMNM03153**

6. Indian, Allottee or Tribe Name

**N/A**

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

**N/A**

8. Well Name and No.

**OH RANDEL #155**

9. API Well No.

**30-045-32949**

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"/> Recombine	<input checked="" type="checkbox"/> Other <b>DRILL AS</b>
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>HORIZONTAL FC</b>
	<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 must 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 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.)

After further evaluation, XTO would like to drill this well as a horizontal fruitland coal. Please see attached revised C102, drilling program and horizontal plan for your approval.

RCVD AUG 27 '08

OIL CONS. DIV.

DIST. 3



**H<sub>2</sub>S POTENTIAL EXIST**

**CONDITIONS OF APPROVAL**  
Adhere to previously issued stipulations.

**NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT**

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

**Kyla Vaughan**

Title **Regulatory Compliance**

Signature

*Kyla Vaughan*

Date

**08/20/2008**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by **Troy L. Salvors**

Title **PE**

Date **8-26-2008**

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

**FFO**

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)

Hold C104

for Directional Survey  
and "As Drilled" plat

**NMOCD**

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**HOLD C104 FOR Change in Status to  
OH Randel #11 & #15**

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**

<sup>1</sup> API Number 30-045-32949	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name BASIN FRUITLAND COAL
<sup>4</sup> Property Code 22857	<sup>5</sup> Property Name O H RANDEL	<sup>6</sup> Well Number 15S
<sup>7</sup> GRID No. 5380	<sup>8</sup> Operator Name XTO ENERGY INC.	<sup>9</sup> Elevation 6367

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	10	26-N	11-W		1575	SOUTH	1800	EAST	SAN JUAN

<sup>11</sup> 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
M	10	26-N	11-W		700	SOUTH	700	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres S/2 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

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<p><b>PRELIMINARY B.H.L.</b> B.H.L. FOOTAGES ARE APPROXIMATE AND PROVIDED BY XTO ENERGY INC. CLIENT</p>	<p><b>SURFACE LOCATION</b> LAT: 36.49960° N. (NAD 83) LONG: 107.98833° W. (NAD 83) LAT: 36°29'58.5" N. (NAD 27) LONG: 107°59'15.8" W. (NAD 27)</p>	<p>QTR. CORNER FD. 2 1/2" BC. U.S.G.L.O. 1930</p>
<p><b>BOTTOM HOLE LOCATION</b> LAT: 36.49697° N. (NAD 83) LONG: 107.99781° W. (NAD 83) LAT: 36°29'49.1" N. (NAD 27) LONG: 107°59'49.9" W. (NAD 27)</p>	<p>10</p>	<p>QTR. CORNER FD. 2 1/2" BC. U.S.G.L.O. 1930</p>
<p>700'</p>	<p>1575'</p>	<p>SEC. CORNER FD. 2 1/2" BC. U.S.G.L.O. 1930</p>

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.

*Kyla Vaughan*  
Signature  
Kyla Vaughan 6/24/06  
Printed Name Date

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.

June 27, 2006  
Date of Survey  
ROY A. RUSH  
Signature and Seal of Registered Surveyor:  
NEW MEXICO  
08893  
REGISTERED PROFESSIONAL LAND SURVEYOR  
Certificate Number

# XTO ENERGY INC.

OH Randel #15 S

APD Data

August 20, 2008

Location: 1575' FSL x 1800' FEL Sec 10, T26N, R11W County: San Juan  
Bottomhole Location: 700' FSL x 700' FWL Sec 10, T26N, R11W

State: New Mexico

GREATEST PROJECTED TVD: 1732'

APPROX GR ELEV: 6367'

GREATEST PROJECTED MD: 4378'

Est KB ELEV: 6379' (12' AGL)

OBJECTIVE: Fruitland Coal

## 1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 1992'	1992' 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  $\pm 225'$  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'-225'	225'	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  $\pm 1992'$  MD, 1732' 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'-1992	1992'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	3.95	5.26	6.20

Production Casing: 4.5" casing to be set at  $\pm 4378'$  MD, 1707' 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>
1932'-4378'	2446'	10.5#	J-55	ST&C	4010	4790	132	4.052	3.927	5.38	6.42	5.14

<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" 8rnd 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  $\pm 225'$  in 12-1/4" hole.

140 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 177 ft<sup>3</sup>, 100% excess of calculated annular volume to 225'. ✓*

- ~~Int.~~  
B. Production Casing: 7", 23#/ft, J-55, ST&C casing to be set at  $\pm 1992'$  MD, 1732' TVD in 8.75" hole.

#### LEAD:

$\pm 115$  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:

$\pm 100$  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 380 ft<sup>3</sup>. ✓*

- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 4378' MD, 1707' 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	505-333-3177	505-320-6543
John Klutsch	Project Geologist	817-885-2800	--

JDN  
8/20/08



**Weatherford<sup>®</sup>**

## **Drilling Services**

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## **Proposal**

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**OH RANDEL #15S**

**SAN JUAN COUNTY, NEW MEXICO**

**WELL FILE: PLAN 1**

**JULY 2, 2008**

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**Weatherford International, Ltd.**

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+1.432.561.8895 Fax  
[www.weatherford.com](http://www.weatherford.com)



# OH RANDEL #15S SAN JUAN CO., NEW MEXICO



## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	858 98	0 00	0 00	858 98	0 00	0 00	0 00	0 00	0 00	
3	1658 98	40 00	251 04	1595 56	-87 11	-253 55	5 00	251 04	268 09	
4	1992 31	90 00	251 04	1732 00	-182 19	-530 28	15 00	-0 01	560 70	
5	1996 32	90 60	251 04	1731 98	-183 49	-534 06	15 00	0 05	564 71	
6	4378 20	90 60	251 04	1707 00	-957 49	-2786 54	0 00	0 00	2946 46	PBHL

## TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	1707 00	-957 49	-2786 54	36°29'49.090N	107°59'52.120W	Point

## WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#15S	0 00	0 00	2001201 18	2677541 70	36°29'58.560N	107°59'17.990W	N/A

## FIELD DETAILS

San Juan, NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983

Ellipsoid: GRS 1980

Zone: New Mexico, Western Zone

Magnetic Model: bggm2007

System Datum: Mean Sea Level

Local North: True North

## SITE DETAILS

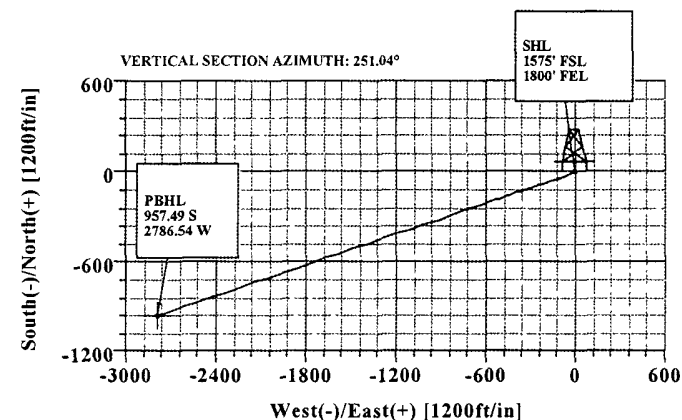
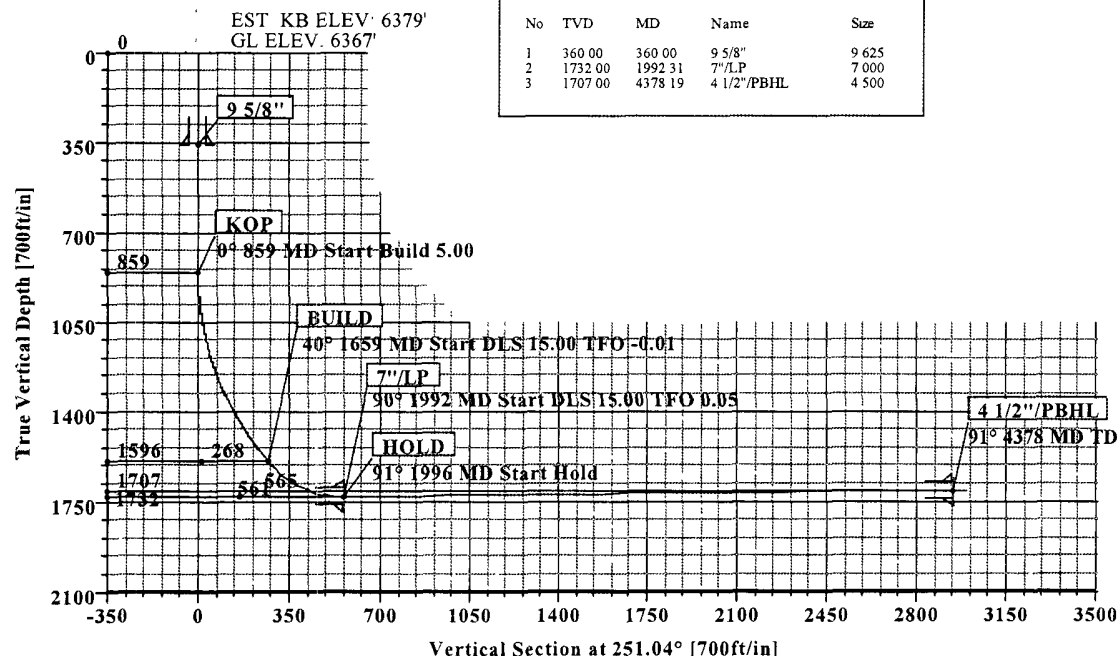
OH Randel #15S  
1575' FSL & 1800' FEL, Sec. 10, T26N, R11W

Site Centre Latitude: 36°29'58.560N  
Longitude: 107°59'17.990W

Ground Level: 6367.00  
Positional Uncertainty: 0.00  
Convergence: -0.09

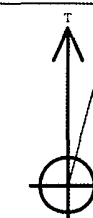
## CASING DETAILS

No	TVD	MD	Name	Size
1	360 00	360 00	9 5/8"	9 625
2	1732 00	1992 31	7"/LP	7 000
3	1707 00	4378 19	4 1/2"/PBHL	4 500



## FORMATION TOP DETAILS

No	TVDPath	MDPath	Formation
1	686 00	686 00	Ojo Alamo SS
2	780 00	780 00	Kirtland Shale
3	1180 00	1184 35	Fruitland Formation
4	1502 00	1541 67	Middle Fruitland Coal
5	1729 00	1944 38	Lower Fruitland Coal



Azimuths to True North  
Magnetic North 10 38°

Magnetic Field  
Strength: 50903uT  
Dip Angle: 63 29°  
Date: 6/30/2008  
Model: bggm2007

Total Correction to True North 10 38°

Plan Plan #1 (#15S/1)

Created By: Lindsey Maddux

Date: 7/23/2008