

RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 29 2009

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>NOG 05031732 1736</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>NAVAJO ALLOTMENT</b>
2. Name of Operator <b>XTO Energy Inc.</b>		7. If Unit or CA Agreement, Name and No. <b>PENDING</b>
3a. Address <b>382 CR 3100 Aztec, NM 87410</b>		8. Lease Name and Well No. <b>ARBOR #21 14</b>
3b. Phone No. (include area code) <b>505/ 333-3100</b>		9. API Well No. <b>30-045-35033</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface <b>575' FNL x 330' FWL</b> At proposed prod. zone <b>1950' FNL x 700' FEL</b>		10. Field and Pool, or Exploratory <b>BASIN FRUITLAND COAL</b>
14. Distance in miles and direction from nearest town or post office* <b>23.8 miles SE of Bloomfield P.O.</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>(D) Sec 26, T25N, R10W</b>
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any) <b>330'</b>	16. No. of acres in lease <b>160</b>	17. Spacing Unit dedicated to this well <b>FC: N/2 320</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft <b>5112'</b>	19. Proposed Depth <b>5716' MD/1665' TVD</b>	20. BLM/BIA Bond No. on file <b>BIA104312789</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6591' Ground Elevation</b>	22. Approximate date work will start* <b>01/01/2010</b>	23. Estimated duration <b>2 Weeks</b>
24. Attachments <b>This action is subject to technical and procedural review pursuant to 43 CFR 3165.3</b>		

The following completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: "GENERAL REQUIREMENTS".

1. Well plat certified by a registered surveyor
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature **Malia Villers** Name (Printed/Typed) **Malia Villers** Date **09/23/2009**

Title **Permitting Tech.**

Approved by (Signature) **[Signature]** Name (Printed/Typed) **[Signature]** Date **1/29/2010**

Title **AFM** Office **FFO**

Application approval 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.  
Conditions of approval, if any, are attached.

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

FEB 03 2010

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

NMOCD

BLM'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 LANDS

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

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

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

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

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

SEP 29 2009

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-045-35033</b>	<sup>2</sup> Pool Code <b>71629</b>	<sup>3</sup> Pool Name <b>Basin FRUITLAND COAL</b>
<sup>4</sup> Property Code <b>38005</b>	<sup>5</sup> Property Name <b>ARBOR</b>	<sup>6</sup> Well Number <b>21</b>
<sup>7</sup> OGRID No. <b>5380</b>	<sup>8</sup> Operator Name <b>XTO ENERGY, INC.</b>	<sup>9</sup> Elevation <b>6591</b>

## <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
<b>D</b>	<b>26</b>	<b>25 N</b>	<b>10 W</b>		<b>575</b>	<b>NORTH</b>	<b>330</b>	<b>WEST</b>	<b>SAN JUAN</b>

## <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
<b>H</b>	<b>26</b>	<b>25 N</b>	<b>10 W</b>		<b>1950</b>	<b>NORTH</b>	<b>700</b>	<b>EAST</b>	<b>SAN JUAN</b>

<sup>12</sup> Dedicated Acres <b>N/2, 320 AC ±</b>	<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

<p>16 N 89°57'14" E 2638.28'</p> <p>17 NAD 83 LAT: 36.377743° N LONG: 107.873910° W</p> <p>18 N 89°58'54" E 2636.80'</p> <p>19 NAD 83 LAT: 36.373976° N LONG: 107.859489° W</p> <p>SECTION 26</p>		<p><b>17 OPERATOR CERTIFICATION</b></p> <p>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.</p> <p>Signature: <u>Maria Villers</u> Date: <u>9/23/09</u></p> <p>Printed Name: <u>Maria Villers</u></p>
<p>20 S 89°57'48" W 2640.58'</p> <p>21 S 89°58'54" W 2639.89'</p> <p>22 S 0°02'08" E</p> <p>23 S 0°02'26" W</p> <p>24 S 0°02'08" E</p> <p>25 S 0°02'26" W</p> <p>26 S 0°02'08" E</p> <p>27 S 0°02'26" W</p> <p>28 S 0°02'08" E</p> <p>29 S 0°02'26" W</p> <p>30 S 0°02'08" E</p> <p>31 S 0°02'26" W</p> <p>32 S 0°02'08" E</p> <p>33 S 0°02'26" W</p> <p>34 S 0°02'08" E</p> <p>35 S 0°02'26" W</p> <p>36 S 0°02'08" E</p> <p>37 S 0°02'26" W</p> <p>38 S 0°02'08" E</p> <p>39 S 0°02'26" W</p> <p>40 S 0°02'08" E</p> <p>41 S 0°02'26" W</p> <p>42 S 0°02'08" E</p> <p>43 S 0°02'26" W</p> <p>44 S 0°02'08" E</p> <p>45 S 0°02'26" W</p> <p>46 S 0°02'08" E</p> <p>47 S 0°02'26" W</p> <p>48 S 0°02'08" E</p> <p>49 S 0°02'26" W</p> <p>50 S 0°02'08" E</p> <p>51 S 0°02'26" W</p> <p>52 S 0°02'08" E</p> <p>53 S 0°02'26" W</p> <p>54 S 0°02'08" E</p> <p>55 S 0°02'26" W</p> <p>56 S 0°02'08" E</p> <p>57 S 0°02'26" W</p> <p>58 S 0°02'08" E</p> <p>59 S 0°02'26" W</p> <p>60 S 0°02'08" E</p> <p>61 S 0°02'26" W</p> <p>62 S 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**XTO Energy, Inc.**  
Planning Report

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Arbor #21
<b>Company:</b>	XTO Energy	<b>TVD Reference:</b>	Rig KB @ 6617.0ft (Aztec 507)
<b>Project:</b>	San Juan Basin (NAD 83)	<b>MD Reference:</b>	Rig KB @ 6617.0ft (Aztec 507)
<b>Site:</b>	Arbor #21	<b>North Reference:</b>	True
<b>Well:</b>	Arbor #21	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Arbor #21		
<b>Design:</b>	Permitted wellbore		

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
5,716.4	1,665.0	4 1/2"	4-1/2	6-1/8
2,210.1	1,665.0	7"	7	8-3/4
225.0	225.0	9 5/8"	9-5/8	12-1/4

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
788.1	788.0	Ojo Alamo SS		0.00	
904.3	903.0	Kirtland Shale		0.00	
1,210.6	1,188.0	Fruitland Formation		0.00	
1,986.7	1,639.0	Lower Fruitland Coal		0.00	



**Well Name: Arbor #21**

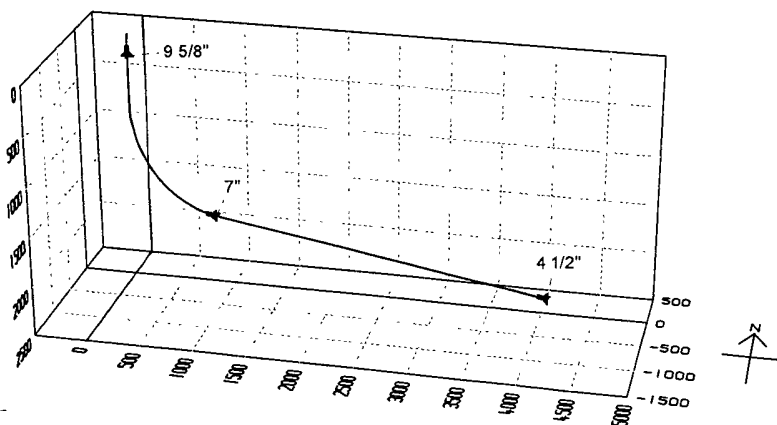
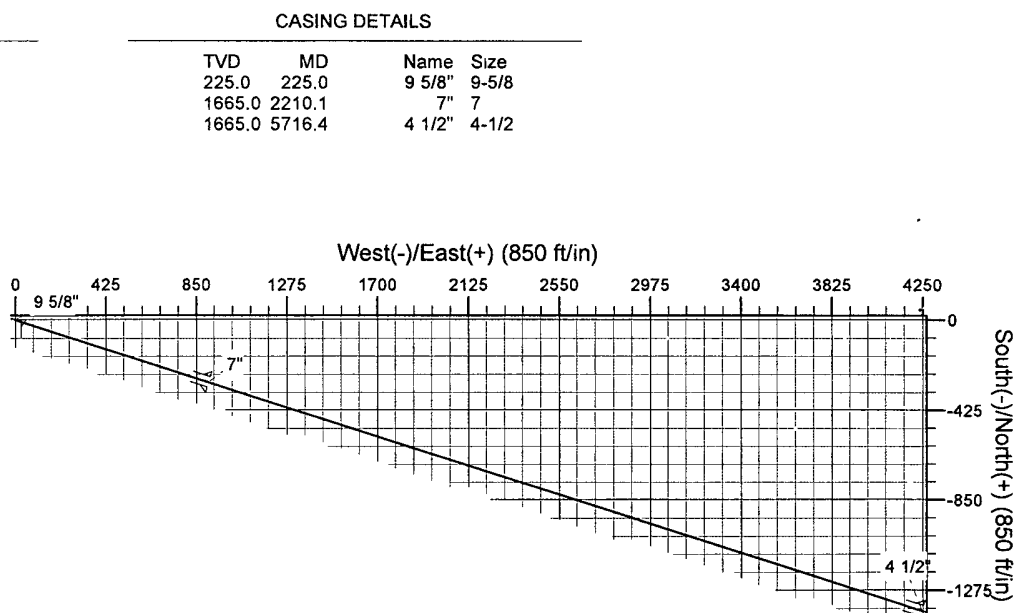
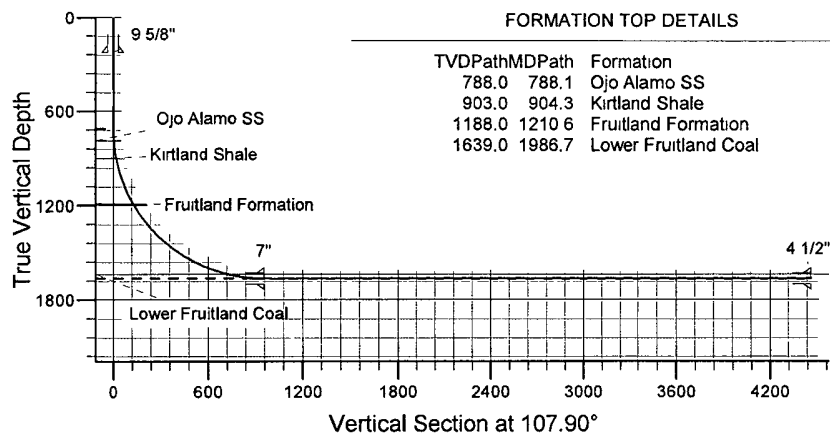
San Juan Division  
Drilling Department

Calculation Method: Minimum Curvature  
Geodetic Datum: North American Datum 1983  
Lat: 36° 22' 39.875 N  
Long: 107° 52' 26.076 W



Azimuths to True North  
Magnetic North: 10.11°

Magnetic Field  
Strength: 50726.1snT  
Dip Angle: 63.18°  
Date: 7/22/2009  
Model: IGRF200510



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	
2	710.1	0.00	0.00	710.1	0.0	0.0	0.00	0.00	0.0	
3	2210.1	90.00	107.90	1665.0	-293.5	908.7	6.00	107.90	954.9	
4	5716.4	90.00	107.90	1665.0	-1371.0	4245.3	0.00	0.00	4461.2	Proposed BHL--Arbor #21

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

JAN 28 2010

Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

Bureau of Land Management  
Palmington Field Office

5. Lease Serial No.

NOG 05031732

6. If Indian, Allottee or Tribe Name

NAVAJO ALLOTMENT

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

8. Well Name and No.

ARBOR #21

9. API Well No.

30-045- 35033

10. Field and Pool, or Exploratory Area  
BASIN FRUITLAND COAL

11. County or Parish, State

SAN JUAN

NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

## 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: 575' FNL X 330' FWL (D) SEC. 26-T25N-R10W

BHL: 1950' FNL X 700 FEL

## 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 REVISEDHORIZONTAL PLAN

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.)

Please see attached revised horizontal plan.

RCVD FEB 1 '10

OIL CONS. DIV.

DIST. 3

## 14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

MALIA VILLERS

Title PERMITTING TECH.

Signature

Malia Villers

Date

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title

AFM

Date

1/29/2010

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

NMOC

FFD

# XTO ENERGY INC.

Arbor #21

APD Data

January 27, 2010

Location: 575' FNL x 330' FWL Sec 26, T25N, R10W County: San Juan State: New Mexico  
Bottomhole Location: 1950' FNL x 700' FEL Sec 26, T25N, R10W

GREATEST PROJECTED TVD: 1665'

APPROX GR ELEV: 6591'

GREATEST PROJECTED MD: 5716'

Est KB ELEV: 6617' (12' AGL)

OBJECTIVE: Fruitland Coal

## 1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2210'	2210' 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  $\pm 2210'$  MD, 1665' 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'-2210	2210'	23.0#	J-55	ST&C	3270	4360	284	6.276	6.151	4.10	5.47	5.59

Production Casing: 4.5" casing to be set at  $\pm 5716'$  MD, 1665' 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>
2150'-5716'	3566'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	5.51	6.59	3.53

<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  $\pm 225'$  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'.*

- B. Production Casing: 7", 23#/ft, J-55, ST&C casing to be set at  $\pm 2210'$  MD, 1665' TVD in 8.75" hole.

#### LEAD:

$\pm 143$  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 465 ft<sup>3</sup>.*

- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 5716' MD, 1665' 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 Program.

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

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	505-333-3199	505-320-0158
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
John Klutsch	Project Geologist	817-885-2800	--

JDN  
1/27/10



**XTO Energy Inc.**  
Planning Report

Database: EDM 2003.21 Single User Db  
Company: XTO Energy  
Project: San Juan Basin (NAD 83)  
Site: Arbor #21  
Well: Arbor #21  
Wellbore: Arbor #21  
Design: Permitted wellbore

Local Co-ordinate Reference: Well Arbor #21  
TVD Reference: Rig KB @ 6617.0ft (Aztec 507)  
MD Reference: Rig KB @ 6617.0ft (Aztec 507)  
North Reference: True  
Survey Calculation Method: Minimum Curvature

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
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**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
788.1	788.0	Ojo Alamo SS		0.00	
904.3	903.0	Kirtland Shale		0.00	
1,210.6	1,188.0	Fruitland Formation		0.00	
1,986.7	1,639.0	Lower Fruitland Coal		0.00	

# **CHOKE MANIFOLD SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE**

1. Stake all lines from choke manifold to pit.
2. Pressure test choke manifold after installation.
3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

## **TESTING PROCEDURE**

