Form 3160-3 (April 2004)			OMB No	APPROVED . 1004-0137 larch 31, 2007
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	INTERIOR 2004 UEC	6 F	5. Lease Serial No. NMSF-080382	ator 51, 2007
APPLICATION FOR PERMIT TO	r	RECEIV	[6] If Indian, Allotee	or Tribe Name
la. Type of work:  DRILL  REENTE			7 If Unit or CA Agree	ement, Name and No.
lb. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other	✓ Single Zone Multip	ole Zone	8. Lease Name and V FRONTIER A	Vell No. ZTEC A 1 E 3031
2. Name of Operator XTO ENERGY INC 16706			9. API Well Na 30-045- 37	.731
3a. Address 2700 FARMINGTON AVE., BLDG. K-1 FARMINGTON, NM 87401	3b. Phone No. (include area code) (505) 324-1090		10. Field and Pool, or E BASIN DAKO	
4. Location of Well (Report location clearly and in accordance with an At surface 1550 FSL & 890 FWL  At proposed prod. zone SAME	sy State reguirements.*)		11. Sec., T. R. M. or B	
14. Distance in miles and direction from nearest town or post office* 9 AIR MILES SOUTHWEST OF BLOOMFIELD			12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  890'	16. No. of acres in lease 480	1	g Unit dedicated to this w	vell
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  385' (XTO's 8-2)	19. Proposed Depth <b>6,950'</b>	1	BIA Bond No. on file NATIONWIDE 57 9:	1 73
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,140' GL	22. Approximate date work will sta 07/01/2005	rt*	23. Estimated duration 6 WEEKS	
	24. Attachments			
<ol> <li>The following, completed in accordance with the requirements of Onshorm.</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	4. Bond to cover to Item 20 above).  Lands, the 5. Operator certific	he operation cation specific info		existing bond on file (see
25. Signature	Name (Printed/Typed) BRIAN WOOD			Date 11/30/2004
Title	PHONE: (505) 466-8120	FAX	X: (505) 466-9682	
Approved by (Signature)	Name (Printed/Typed)			Date 12 15 05
Title Acolone AAM	Office			
Application approval doe not warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	ls legal or equitable title to those righ	ts in the sub	oject lease which would er	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and v to any matter within its jurisdiction.	villfully to n	nake to any department or	agency of the United

\*(Instructions on page 2)



NMOCD

DISTRICT 1 1625 N. Fench Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Revised June 10, 2003 Instructions on back Submit to Appropriate District Office

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

1000 Rio Brozos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87504-2088

State Lease — 4 Copies Fee Lease — 3 Copies

Form C-102

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

☐ AMENDED REPORT

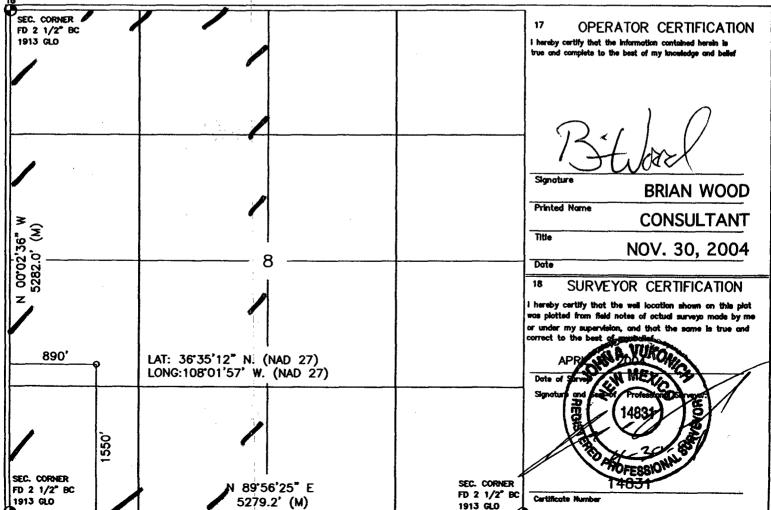
# WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code

30-040-3213	1   71599	BASIN DAKOTA	
<sup>4</sup> Property Code	•t	Property Name	* Well Number
30319	• FRONT	TIER AZTEC A "	1E /
OGRID No.	•(	Operator Name	<sup>®</sup> Elevation
167067 🖈	• XTO	ENERGY INC.	6140
	10 -		

Surface Location

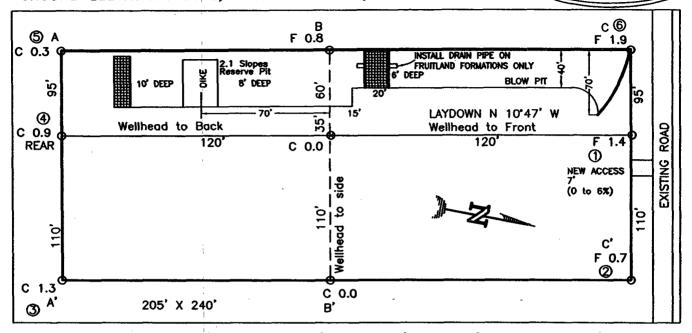
L L	8	27-N	11-W	Lot for	1550	SOUTH .	890	. WEST	SAN JUAN
			<sup>11</sup> Botte	om Hole	Location II	Different From	m Surface		
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>32</sup> Dedicated Acres		<b>"</b> ,	Joint or Infill	<u> </u>	<sup>14</sup> Consolidation Co	ode	<sup>16</sup> Order No.		<u>l</u>
320					ر ا				

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



XTO ENERGY INC.
FRONTIER AZTEC A No. 1E, 1550 FSL 890 FWL
SECTION 8, T27N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M.
GROUND ELEVATION: 6140. DATE: APRIL 7, 2004

LAT: 36°35'12" N. LONG:108°01'57" W. NAD 27

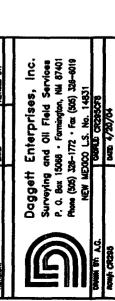


RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE: C/L ELEV. A-A' 6150 6140 6130 6120 C/L ELEV. B-B' 6150 6140 6130 6120 ELEV. C-C' C/L 6150 6140 6130

NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

6120



XTO Energy Inc.
Frontier Aztec A 1 E
1550' FSL & 890' FWL
Sec. 8, T. 27 N., R. 11 W.
San Juan County, New Mexico

## **Drilling Program**

## 1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	<u>Elevatio</u>
Nacimiento Fm	000'	12'	+6,140'
Ojo Alamo Sandstone	695'	707'	+5,445'
Kirtland Shale	840'	852'	+5,300'
Fruitland Coal	1,650'	1,662'	+4,490'
Pictured Cliffs Ss	1,850'	1,862'	+4,290'
Chacra Sandstone	2,780'	2,792'	+3,360'
Pt. Lookout Sandstone	4,235'	4,247'	+1,905'
Mancos Shale	4,595'	4,607'	+1,545'
Gallup Sandstone	5,465'	5,477'	+675'
Huerfano	5,815'	5,827'	+325'
Greenhorn Limestone	6,300'	6,312'	-160'
Graneros Shale	6,355'	6,367'	-215'
Dakota Sandstone	6,460'	6,472'	-320'
Morrison	6,660'	6,672'	-520'
Total Depth (TD)*	6,950'	6,962'	-810'

## 2. NOTABLE ZONES

Gas & Oil Zones	Water Zones	Coal Zones
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
Point Lookout	Fruitland	
Gallup		
Dakota		



XTO Energy Inc.
Frontier Aztec A 1 E
1550' FSL & 890' FWL
Sec. 8, T. 27 N., R. 1 W.
San Juan County, New Mexico

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.

#### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) An 8-5/8" x 11" 2,000 pound double ram BOP system with a choke manifold and mud cross will be tested to 200 psi and then to 1,000 psi. Upper and lower Kelly cocks with valve handle and subs to fit all drill string connections which are in use will be available on the rig floor.

#### Tests will be run when:

- 1) installed
- 2) anytime a pressure seal is broken (test only affected equipment)
- 3) at least every 30 days
- 4) blind & pipe rams will be activated each trip, but no more than daily

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested before drilling surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated daily to ensure good mechanical working order and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs. Maximum expected bottom hole pressure is \$2,800 psi. BOP and mud system will control pressure.

#### 4. CASING & CEMENT

<u> Hole Size</u>	<u> O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	<b>Connections</b>	Setting Depth
12-1/4"	8-5/8"	24	J-55	New	8 rd, S T & C	325'
7-7/8"	5-1/2"	15.5	K-55	New	8 rd, L T & C	6,950'



XTO Energy Inc.
Frontier Aztec A 1 E
1550' FSL & 890' FWL
Sec. 8, T. 27 N., R. 11 W.
San Juan County, New Mexico

Surface casing will be cemented to surface with  $\approx$ 270 cubic feet ( $\approx$ 230 sacks) Class B Neat + 1/4 pound per sack cello-flake + 2% CaCl<sub>2</sub>. Yield = 1.27 cubic feet per sack. Weight = 15.2 pounds per gallon.

Conventional centralizers will be set on the bottom two joints and every fourth joint to surface.

Production casing hole will be cemented to surface as follows. DV @ ≈4,000'.

First stage Lead will be cemented to  $\approx$ 4,000' with  $\approx$ 640 cubic feet ( $\approx$ 464 sacks) 50:50 Poz + 5 pounds per sack gilsonite + 2% gel + 1/4 pounds per sack cello-flake, dispersant, and FLA. Yield = 1.38 cubic feet per sack. Weight = 13.5 pounds per gallon. Excess = 25%.

Second stage Lead will be cemented to surface with  $\approx 1,095$  cubic feet ( $\approx 380$  sacks) Class B or H + 10 pounds per sack gilsonite + 4% gel + 1/2 pounds per sack cello-flake + 3% Econolite. Yield = 2.88 cubic feet per sack. Weight = 11.4 pounds per gallon. Excess = 50%

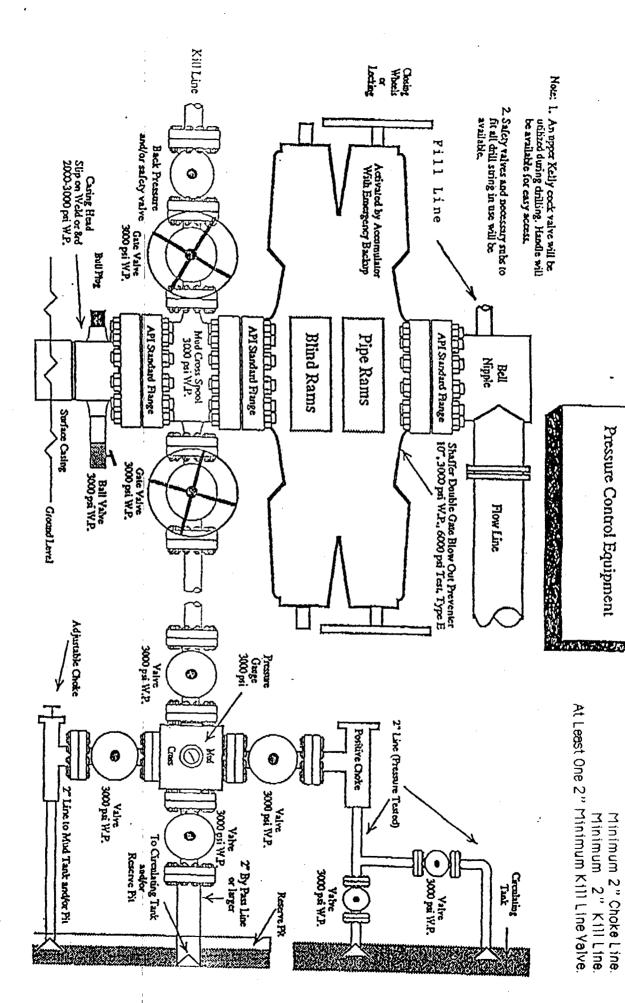
Second stage Tail will be cemented to  $\approx 3,600$ ' with  $\approx 95$  cubic feet ( $\approx 76$  sacks) Class B or H Neat + 1/4 pounds per sack cello-flake + 2% CaCl2. Yield = 1.26 cubic feet per sack. Weight = 15.2 pounds per gallon. Excess = 10%.

Conventional centralizers will be set on the bottom two joints, every second joint to  $\approx$ 6,000' and every fourth joint from  $\approx$ 2,000' to surface.

#### 5. MUD PROGRAM

<u>RANGE</u>	MUD TYPE	<b>WEIGHT</b>	<b>VISCOSITY</b>	<b>WATER LOSS</b>	<b>ADDITIVES</b>
0' - 350'	Fresh-Spud	8.5-8.8	30	NC	Gel, lime
350' - 4,000'	Fresh Water	8.5-8.8	28	NC	Gel, lime sweeps
4,000' - TD	Fresh Water	8.5-8.8	35	10 cc	Gel. soda ash. LCM





orawing to meet minimum requirements per standard. Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the

Minimum 2" Kill Line Minimum 2" Choke Line