RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR

DEC 172007

FORM APPROVED

OMB No. 1004-0137 Expires March 31, 2007

BUREAU OF LAND MANAGEMENT Bureau of Land Management Farmington Field Office 6. If Indian, Allotee or Tribe Name

NOO-C-14-20-3603

5. Lease Serial No.

APPLICATION FOR PERMIT TO	NAVAJO ALLOTMENT 7. If Unit or CA Agreement, Name and No.					
la. Type of work:		eement, Name and No. m - 75916 - 0/4				
lb. Type of Well: ☐Oil Well ☐Other ☐Other	Sin	ngle Zone 🚺 Multip	ole Zone	8. Lease Name and CANYON 3 E	Well No.	
2. Name of Operator XTO ENERGY INC.				9. API Well No. 30-045- 34	542	
3a. Address 382 ROAD 3100 AZTEC, NM 87410		(include area code) 33-3159		10. Field and Pool, or Exploratory BASIN MANC. & BAS. DK.		
4. Location of Well (Report location clearly and in accordance with a At surface 660' FSL & 1780' FEL At proposed prod. zone SAME	my State requirem	ents.*)		11. Sec., T. R. M. or E	Blk. and Survey or Area MPM	
Distance in miles and direction from nearest town or post office* 18 AIR MILES SOUTH OF BLOOMFIELD				12. County or Parish SAN JUAN	13. State NM	
5. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of a			g Unit dedicated to this £2 COS: SEA & DAKO	70 A 64	
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 637'				BIA Bond No. on file NATIONWIDE 104312789		
1. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,328' GL	22. Approximate date work will start* 02/01/2008		23. Estimated duration 4 WEEKS			
	24. Attac					
he following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1, shall be a	ttached to th	is form:		
. Well plat certified by a registered surveyor. 2. A Drilling Plan.		4. Bond to cover the Item 20 above).	ne operation	ns unless covered by an	existing bond on file (see	
S. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	Operator certific Such other site authorized office	specific info	ormation and/or plans as	s may be required by the	
5. Signature		(Printed/Typed) BRIAN WOOD			Date 12/14/2007	
CONSULTANT	PHONI	E: (505) 466-8120	FAX	K: (505) 466-9682		
approved by (Signature)	Name	(Printed/Typed)			Date 10/28/6	
itle AFN	Office	FFO				
Application approval does not wairant or certify that the applicant hol- onduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equit	able title to those right	ts in the sub	ject lease which would e	entitle the applicant to	

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.

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

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

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". 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

NOV 0 7 2008



This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4 DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

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

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

2621.0' (M)

FD. 2 1/2" BC. 1932 G.L.O.

State of New Mexico Revised October 12, 2005

Submit to Appropriate District Office

SE SADING THE

Certificate Number

OIL CONSERVATION DIVISION DEC 172007

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

State Lease - 4 Copies Fee Lease - 3 Copies

Form C-102

DISTRICT IV 1220 South St. F	rancis Dr. Sa	onla Fe, NM 87	7505						nd Manage n Field Off		AMEN	DED REPORT
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1780'

FD. 2 1/2" BC. 1923 G.L.O.

.099

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

UL or lot no.

State of New Mexico
Energy, Minerals & Natural Resources Department Submit to Appropriate District Office

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

DEC 172007

Form C-102

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 1220 South St. Froncis Dr., Sonto Fe, NM 87505

Section

Township

Range

Lot Idn

Bureau of Land Management WELL LOCATION AND ACREAGE DEDICATION PLAT

Feet from the

☐ AMENDED REPORT

County

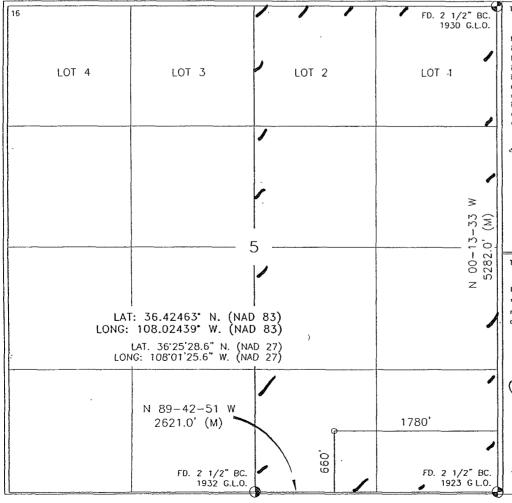
30-045-	34542	71599	BASIN DAKOTA Pool Name	
Property Code			⁵ Property Name	⁶ Well Number
н		•	CANYON	*3E
OGRID No.			*Operator Name	⁹ Elevation
167067 ^S	380	_ XTO	D ENERGY INC.	6328

5 25-N 660 SOUTH 0 11-W 1780 **EAST** SAN JUAN "Bottom Hole Location If Different From Surface Lot Idn Feet from the UL or lot no. North/South line Feet from the Section Township East/West line County Properties 220.64 13 Joint or Infill 15 Order No. 14 Consolidation Code

North/South line

Feet from the

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



OPERATOR CERTIFICATION

Fost/West line

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

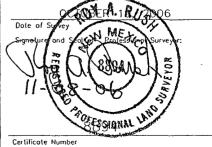
> 12-14-07 Dote

Signoture BRIAN WOOD

(505) 466-8120

SURVEYOR CERTIFICATION

t 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.



Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	0'	12'	+6,328'
Fruitland	1,283'	1,295'	+5,045'
Pictured Cliffs	1,318'	1,330'	+5,010'
Cliff House	2,088'	2,100'	+4,240'
Menefee Shale	2,778'	2,790'	+3,550'
Mancos Shale	3,963'	3,975'	+2,365'
Gallup Sandstone	4,803'	4,815'	+1,525'
Sanostee	5,288'	5,290'	+1,040'
Greenhorn	5,668'	5,680'	+660'
Graneros	5,708'	5,720'	+620'
Dakota	5,808'	5,820'	+520'
Total Depth (TD)*	6,000'	6,012'	+328'

2. NOTABLE ZONES

Gas & Oil Zones	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
Mancos	Fruitland	
Gallup		
Dakota		

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 $\approx 1,000$ 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 will be $\approx 2,400$ psi. BOP and mud system will control pressure.

4. CASING & CEMENT

Hole Size	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connections	Setting Depth
12-1/4"	8-5/8"	24	J-55	New	ST&C	360'
7-7/8"	5-1/2"	15.5	J-55	New	ST&C	6,000'

Surface casing will be cemented to the surface with ≈ 375 cubic feet (≈ 270 sacks) Type V cement + 1/4 pound per sack cello-flake + 2% CaCl₂. Yield = 1.39 cubic feet per sack. Weight = 14.5 pounds per gallon. Excess: >100%.



Centralizers will be set on the bottom two joints of the surface casing and every fourth joint to the surface.

Production casing will be cemented to the surface with $\approx 50\%$ excess as follows. DV tool will be set @ $\approx 4,250$ '.

First stage lead will consist of \approx 281 cubic feet (\approx 140 sacks) of Type III (or its equivalent) + 2% CaCl₂ + 1/4 pound per sack cello flake + 0.2% dispersant + 0.5% fluid loss control + 2% LCM additives mixed at 12.5 pounds per gallon and 2.01 cubic feet per sack.

First stage tail will consist of \approx 207 cubic feet (\approx 140 sacks) Type III (or its equivalent) + 5% bonding additive + 1/4 pound per sack cello flake + 0.3% dispersant + 0.2% fluid loss control + 2% LCM additives mixed at 14.2 pounds per gallon and 1.48 cubic feet per sack.

Second stage lead will consist of ≈ 975 cubic feet (≈ 375 sacks) Type III (or its equivalent) + 1/4 pound per sack cello flake + 8% gel + 2% LCM mixed at 11.9 pounds per gallon and 2.6 cubic feet per sack.

Second stage tail will consist of ≈139 cubic feet (≈100 sacks) Type III Neat mixed at 14.5 pounds per gallon and 1.39 cubic feet per sack.

Centralizers will be set on the bottom two joints, every second joint to $\approx 5,000$ ', and every fourth joint from $\approx 2,000$ ' to the surface.

5. MUD PROGRAM

<u>RANGE</u>	MUD TYPE	WEIGHT	VISCOSITY	WATER LOSS	<u>ADDITIVES</u>
0' - 360'	Fresh-Spud	8.6-9.0	28-32	NC	Gel, lime
360' - 2,500)' Fresh-Poly	8.4-8.8	28-32	NC	Gel, lime sweeps
2,500' - TD	Fresh Water	8.6-9.2	45-60	8-10 cc	Gel, soda ash, LCM



6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. Mud logger will arrive at $\approx 3,000$ ' and collect samples every ≈ 10 ' from there to TD. These open hole logs will be run:

Array Induction/SFL/GR/SP from TD to ≈360' Neutron/Lithodensity/Pe/GR/Cal from TD to ≈3,000'

7. DOWN HOLE CONDITIONS

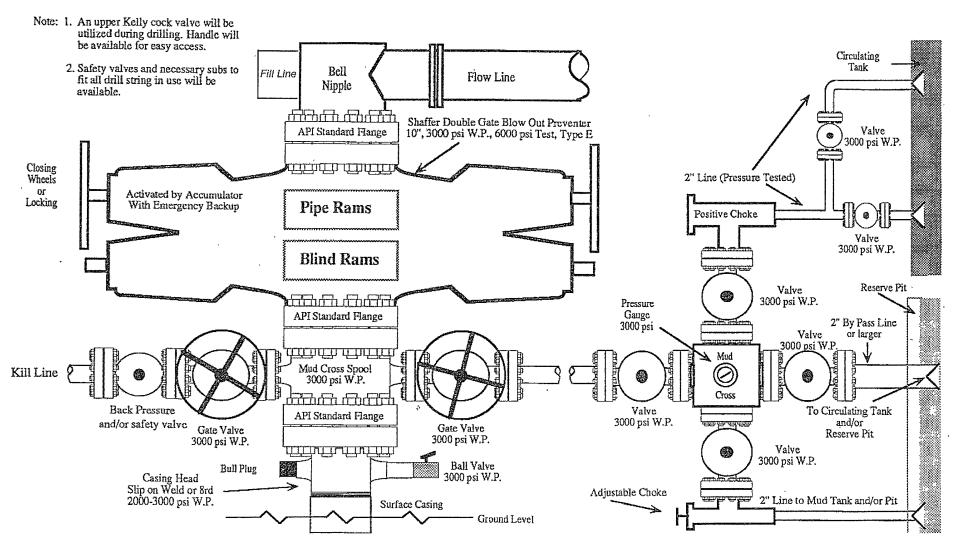
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≈2,400 psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take about four weeks to drill and complete the well.



2,000 PSI BOP SYSTEM



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 drawing to meet minimum requirements per standard.