la. Type of Work:

1b. Type of Well: Name of Operator

UNITED STATES

FORM APPROVED OMB No. 1004-0136

		TIN	TTEL OTATEO			Expires November 30, 2000		
		DEPARTME	ITED STATES NT OF THE INTE LAND MANAGEN	VIEUNI	RECEIVED	1		
	APPLICATI	ON FOR P	ERMIT TO DRIL	L OR REENTER	173 -5 M e	6. If Indian, Allottee or Tribe Name		
Type of Work:	drill		☐ REENTER		Fur Diglon, N	7 If Unit or CA Agreement Name and No.		
Type of Well:	Oil Well	Gas Well	Other	Single Zone	Multiple Zone	8. Lease Name and Well No. Schwerdtfeger 21 #2		
Name of Operator XTO Energy Inc.						9. API Well No. 30-045- 32277		
Address 2700 Farmington Ave., Bldg K-1 3b. Phone No. (include area code) Farmington, NM 87401 (505) 324-1090						10. Field and Pool, or Exploratory Basin Fruitland Coal		
Location of Well (Report location clearly and in accordance with any State requirements.*)						11. Sec., T., R., M., or Blk. and Survey or Area		
At surface 1385' FNL & 765' FWL						E21-27n-11w NMPM		

Distance in miles and direction from nearest town or post office* 12 air miles S of Bloomfield, New Mexico

17. Spacing Unit dedicated to this well

12. County or Parish

San Juan

13. State NM

location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

At proposed prod. zone Same

765'

2.081.12

16. No. of Acres in lease

19. Proposed Depth

W2 (320 acres)

20. BLM/BIA Bond No. on file

 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Elevations (Show whether DF, KDB, RT, GL, etc.)

6,277' ungraded

Distance from proposed*

2.045

2,100'

BLM nation wide: 57 91 73

22. Approximate date work will start* **Upon Approval**

23. Estimated duration 2 weeks

24. Attachments

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

- 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).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

Comments

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

Name (Printed/Typed)

Name (Printed/Typed)



cc: BLM (& OCD)	NAPI,	Patton,	Tribe
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25. Signature Title

Brian Wood

4-4-04

Phone: 505 466-8120

FAX: 505 466-9682

Approved by (Signature, Title

Office

Date

Application approval does not warrant or certify the 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.

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

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

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

AND T-POST

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

Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

STRICT IV					Santa Fe,	, NM	87505] AMEN	DED REPORT		
20 South St. Fro	encis Dr., Sa			CATION	N AND	ACF	REAGE DEDI	CATION P	LAT				
¹API	Number			² Pool Code				³Pool Nan					
30-045-32277 71629							BASIN FRUITLAND COAL						
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70GRID No. 167067					XTO EN				6277'				
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from ti		North/South line	Feet from the	East/We:	st line	County		
		<u> </u>		<u> </u>	<u> </u>								
² Dedicated Acre	3		¹³ Joint or II	nfill	¹⁴ Consolidati	ion Cod	ie	¹⁵ Order No.					
320	n												
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		OR A N	NON-STA	ANDARD	UNIT HAS	S BE	EN APPROVE	BY THE E	DIVISION				
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XTO ENERGY INC. LAT. = 36°33'51" N. 1385' FNL 765' FWL SCHWERDTFEGER 21 No. 2, SECTION 21, T27N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M. GROUND ELEVATION: 6277', DATE: NOVEMBER 25, 2003 LONG. = 108'00'54" **NAD 27** B (5) A 6 0.2 C 0.8 @ F 3.0 2.1 Slopes Reserve Pit 12 10' DEEP 8' DEEP 5 20 15' 4 LAYDOWN N 02'30' E **(1)** ີດ Wellhead to Back Wellhead to Front F 3.5 C 1.7 90' REAR C 0.0 75 • 8 C 5.2 NEW ACCESS 3 C 1.1 90' (0 to 6%) | B' F 2.0 140' X 180' C, 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: ELEV. A-A' DATE: 12/4/03 6290 6280 6270 <u>ک</u> ک 6260 <u>چ</u> C/L ELEV. B-B' REVISION: RESTAKE 6290 6280

6260

ELEV. C-C'

6290

6280

6270

6260

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.

6270

Surveying and Oil Field Services
0. Box 15068 Farmington, NM 87401
(505) 326-1772 Fox (505) 326-60

Phone (

Daggett Enterprises, Inc.

XTO Energy Inc.
Schwerdtfeger 21 #2
1385' FNL & 765' FWL
Sec. 21, T. 27 N., R. 11 W.
San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Sub Sea Elevati
Nacimiento Fm	000'	5'	+6,277'
Ojo Alamo Ss	867'	872'	+5,410'
Kirtland Shale	927'	932'	+5,350'
Fruitland Coal	1,672'	1,677'	+4,605'
Pictured Cliffs Ss	1,887'	1,898'	+4,390'
Lewis Shale	2,087'	2,092'	+4,190'
Total Depth (TD)*	2,100'	2,105'	+4,177'

^{*} all elevations reflect the ungraded ground level of 6,277'

2. NOTABLE ZONES

Gas & Oil Zones	Water Zones	Coal Zone
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
	Fruitland	

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 system to be used is not yet known. A typical 2,000 psi stack, manifold, and testing procedures are on Page 3.



XTO Energy Inc.
Schwerdtfeger 21 #2
1385' FNL & 765' FWL
Sec. 21, T. 27 N., R. 11 W.
San Juan County, New Mexico

4. CASING & CEMENT

Hole Size	<u>O. D.</u>	Weight (lb/ft)	<u>Grad</u>	<u>e</u>	<u>Age</u>	Connection	<u>GL Setting De</u>
8-3/4"	7"	20	K-55	New	S T	Г&С	160'
6-1/4"	4-1/2"	10.5	K-55	New	S T	Г & С	2,100'

Surface casing will be cemented to the surface with ≈ 50 cubic feet (≈ 43 sacks) Class B + 1/4 lb/sk cello-flake + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume: \geq 100% excess. A guide shoe and insert float will be used. W. O. C. =12 hours. Surface casing will be tested to 1,500 psi for 30 minutes.

Production casing will be cemented to the surface. Total cement: >437 cubic feet. Volumes are calculated at >100% excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. W. O. C. = 12 hours. Test to 2,000 psi.

Lead cement will be ≈ 185 sacks Class B light cement (65% cement/35% Poz with 6% gel) with 5 #/sack gilsonite + 1/4 #/sack Flocele. Yield = 1.99 cu ft/sk. Weight = 12.4 #/gal.

Tail cement will be ≈ 50 sacks 50/50 Class B Poz with 2% gel + 1/4#/sack Flocele + 0.5% Halad-9. Yield = 1.38 cubic feet/sack. Weight = 13.5 #/gallon.

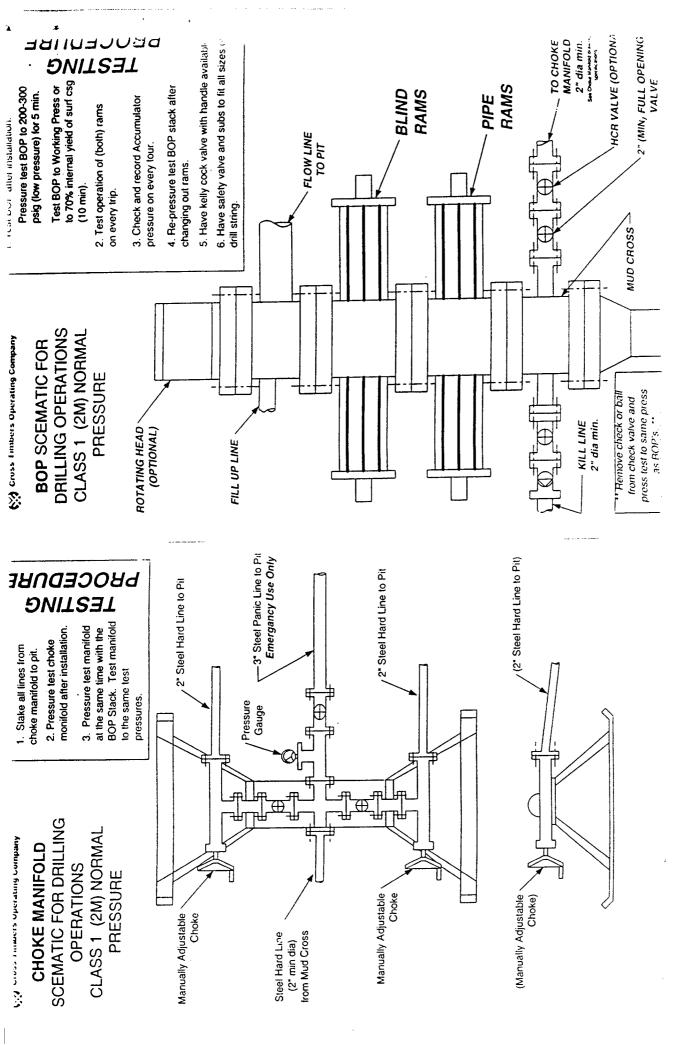
Cement equipment will include a guide shoe, float collar, and 10 centralizers.

5. MUD PROGRAM

<u>Range</u>	<u>Mud Type</u>	<u>Weight</u>
0' - 160'	Fresh-Spud	8.4
160' - TD	LSND	8.6

Lost circulation and absorption material will be on location.





XTO Energy Inc.
Schwerdtfeger 21 #2
1385' FNL & 765' FWL
Sec. 21, T. 27 N., R. 11 W.
San Juan County, New Mexico

6. CORING, TESTING, & LOGGING

No cores or drill stem tests are planned. Open hole logs will include GR, Neutron-Density, and Induction. The Neutron Density will be run from TD to 500'. The other logs will be run from TD to the base of the surface casing.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be ≈ 200 psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take about 1 week to drill and about 1 week to complete the well.

