Form_•3160-3 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0136 Expires January 31, 2004

/s.	Marian. HELD	EIVER	Lease Serial No.			
APPLICATION FOR PERMIT TO DRII	LL OR REENTER		SF - 078019			
1a. Type of Work DRILL REEN	NTER STATES		. If Indian, Allotee or Tribe Name			
1b. Type of Well Oil Well Gas Well Other	Single Zone Multiple 2	LUILC	. Unit or CA Agreement Name and No.			
2. Name of Operator	14000 P		Lease Name and Well No.			
XTO Energy Inc.	3b. Phone No. (include area	n anda)	EH Pipkin #35			
3a Address 2700 Farmington Ave., Bldg. K. Ste 1 Farmington	on, NM	(code)	API Well No. 30045 32030			
4. Location of Well (Report location clearly and in accordance with any At surface 1420' FNL x 1245' FWL in Sec 12, T27.		Prield and Pool, or Exploratory Basin Fruitland Coal Sec., T., R., M., or Blk. and Survey or A				
At proposed prod. zone			Sec. 12, T27N, R11W			
14. Distance in miles and direction from nearest town or post office*		12	County or Parish 13.State			
15 miles Southeast of the Bloom	mfield, NM post office	s	an Juan NM			
5. Distance from proposed* location to nearest	16. No. of Acres in lease	17.Spac	ing Unit dedicated to this well			
property or lease line, ft. 1,214 ' (Also to nearest drg. unit line, if any)	+-2560.96		320 acres N/2			
 Distance from proposed location* to nearest well, drilling, completed, 	19. Proposed Depth	20.BLM	1/BIA Bond No. on file			
applied for, on this lease, ft. 75	2,000'					
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will	start*	23. Estimated duration			
5,964' Ungraded Ground Level	Winter 2004		2 weeks			
	24. Attachments	1 1 1 1 6				
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover the operator 20 above). 5. Operator certification	erations unles	s covered by an existing bond on file (see			
25. Signuature AM Pattern	Name (Printed/Typed)	···	Date			
Title / Pawer	Jeffrey W. Patton		11/25/03			
Drilling Engineer						
Approved by (Signautre)	Name (Printed/Typed) Office /s/ David J. M&	nkiewicz	Dat#AN 2 3 2004			
Title	Office St. 100					
Application approval does not warrant or certify that the applicant holds 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						

*(Instructions on Reverse)

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

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



DISTRICT | P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerais & Natural Resources Department

Revised February 21, 1994 Instructions on back

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

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719 DISTRICT III 1000 Rio Brazos Rd., Axiec, N.M. 87410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

□ AMENDED REPORT

Form C-102

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

Za Car	Number	7030		*Peol Code 7/62°	,	n /	*Pool Name		CON					
Property Co	TLAND	COAL • Well Number												
2285		35												
OGRID No.		Elevation 5964												
TO TOO T														
(10) on takens	l e	1	Range	Let Idn	10 Surface	Location North/South line	Feet from the	East/West II	ne County					
UL or let no. E	Section 12	Township 27—N	1245	WEST	SAN JUAN									
	11 Bottom Hole Location If Different From Surface													
UL or let no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West II	ine County					
12 Dedicated Acres	<u> </u>	101	oint or Infili		¹⁴ Consolidation C	ode	¹⁵ Order No.							
370	$\supset -\frac{I}{2}$	U/2												
NO ALLOW		VILL BE	ASSIGNE	TO TH	I IS COMPLETI	ON UNTIL ALL	INTERESTS	HAVE BEE	N CONSOLIDATED					
						EEN APPROVED								
SEC. CORNER (R) 2 1/2" BC (GQ 1913			N 89	"34"\3" E		CALC'B COP	17 17	OPERATOR	CERTIFICATION					
GDO 1913			528	6.1' (M)		WITNESS. COR	1579 Y hereby certif	y that the informa	tion contained herein is					
	7420			.] `		FD 3 1/2" GLO 1: S 80-00-1 0FST. 1:	913 7 E		· · · · · · · · · · · · · · · · · · ·					
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7														
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1245'		/					1	(14) Patton						
		LAT: 3	6'35'35"	N. (NAD	83)		Signature		, , -0.00					
)	LONG:1	Ø7 ⁻ 57 ⁻ 36	' W. (NAD	83)		Printed No	TEFLEY LA me	PATIONS					
>	\ [\ \	TWO	DRILLING ENGINEER						
88				1			\	11 - 25	0-03					
267.9' (M)				Z 	· · · · · · · · · · · · · · · · · · ·	1	Date 1B S	IDVENOR	CERTIFICATION					
s 00'04 5267.9'		67476773	م ^م ر				i		CERTIFICATION location shown on this plat					
		A		\$1607	600.750 m² n∞		was platted f	rom field notes o	of actual surveys made by me					
/	(1 ₉)	ar arag		100		F - * ₁	correct to the	best of the be	94/NSO					
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SEC. CORNER	THAIL	Jenny 1						1482	77					
SEC. CORNER FD 2 1/2" BC GLO 1913	4-4/ 11.	N/III					Certificate (tumber	-					

XTO ENERGY INC.

DRILLING PROCEDURE

EH Pipkin #35 Basin Fruitland Coal November 25, 2003

Location: 1,420' FNL & 1,245' FWL, Sec 12, T27N, R11W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,000' OBJECTIVE: Fruitland Coal GR ELEV: 5,964'

1. MUD PROGRAM:

INTERVAL	0'-200'	200'-TD
HOLE SIZE	8-3/4"	6-1/4"
MUD TYPE	FW/Native	FW/Polymer
MUD WEIGHT, ppg	8.6-9.0	8.6-9.1
VISCOSITY, sec/qt	28-32	28-33
WATER LOSS, cc	NC	NC

Remarks: Drill the surface hole with fresh water. Run and cement 7" surface casing, circulating cement to surface. NU and test BOP equipment, then drill out with fresh water. Use polymer sweeps as needed for hole cleaning. At TD, sweep the hole prior to TOH to log.

2. <u>CASING PROGRAM:</u>

Surface Casing: 7" casing to be set at ± 200 ' in 8.8 ppg mud.

					Coll	Burst				•		
		Wt			Rating	Rating	Jt Str	ID	DD	SF	SF	SF
Interval	Length	(ppf)	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Tension
0'-200'	200'	20#	J-55	STC	2,270	3,740	234	6.456	6.331	9.99	4.59	58.5

Optimum makeup torque for 7" 20#, J-55, STC casing is 2,340 ft-lbs (Min - 1,760 ft-lbs, Max - 2,930 ft-lbs).

Production Casing: 4-1/2" casing to be set at $\pm 2,000$ ' in 8.8 ppg mud.

					Coll	Burst						
		Wt			Rating	Rating	Jt Str	ID	DD	SF	SF	SF
Interval	Length	(ppf)	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Tension
0'-TD	2,000'	10.5#	J-55	STC	4,010	4,790	132	4.052	3.927	3.57	3.33	5.24

Optimum makeup torque for 4-1/2", 10.5#, J-55, casing is 1,320 ft-lbs (Min - 990 ft-lbs, Max - 1,650 ft-lbs).

Capacity of 7", 20# casing is: 0.04048 bbl/ft Capacity of 4-1/2", 10.5# casing is: 0.01595 bbl/ft

3. WELLHEAD:

Casinghead: Larkin Fig 92 (or equivalent) 2,000 psig WP (4,000 psig test) with 7", 8rd pin on

bottom and 8-5/8" API Modified 8rd thread on top.

Tubinghead: Larkin Model 612 (or equivalent) 2,000 psig WP (4,000 psig test) with 4-1/2", 8rd

bottom thread and 8-5/8" 8rd API Modified top body thread, 4.090" minimum bore.

MIBIT E

4. **CEMENT PROGRAM:**

A. Surface: 7", 20#, J-55, STC casing at \pm 200'.

Lead: 75 sx Type III cement (or equivelent) containing ¼ pps celloflake, 2% CaCl₂ (mixed at 14.6 ppg, 1.39 ft³/sk, 6.67 gal wtr/sk).

Total slurry volume is 104.25 ft³, 250% excess of calculated annular volume required to circulate cement to surface.

B. Production: 4-1/2", 10.5#, J-55, STC casing at $\pm 2,000$ '.

<u>Lead:</u> 125* sx of Type III cement containing 8% gel, 1/4 pps Celloflake & 2% Phenoseal (mixed at 11.4 ppg, 3.03 ft³/sk, 18.51 gal wtr/sk).

Tail: 75 sx Type III cement containing 1% CaCl2, 1/4 pps Celloflake & 2% Phenoseal (mixed at 14.5 ppg, 1.41 ft3/sk, 6.72 gal wtr/sx).

Total estimated slurry volume is 477 $\rm ft^3$, $\pm 100\%$ excess of calculated annular volume required to circulate cement to surface.

* Actual cement volumes will be determined using log caliper volume plus 40% excess.

5. **DRILLING HAZARDS:**

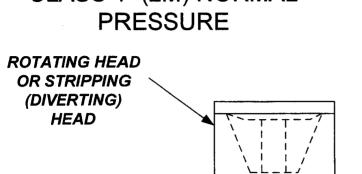
- H₂S or other Poisonous Gases: No formations known to contain H₂S or any other poisonous gases will be penetrated with this wellbore.
- Abnormal Pressures: No overpressured zones are known to exist or are anticipated to be encountered during the drilling of this well.
- Lost Circulation: Seepage and/or lost circulation may be encountered below surface casing and can be controlled with conventional lost circulation materials added to the mud system.

6. **LOGGING PROGRAM:**

Array Induction/DFL/GR/SP/Cal DSN/Spectral Density/GR/Cal/Pe

TD to bottom of surf csg. TD to bottom of surf csg.

BOP SCEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL **PRESSURE**



1. Test BOP after installation:

Pressure test BOP to 200-300 psig (low pressure) for 5 min.

Test BOP to Working Press or to 70% internal yield of surf csg (10 min).

- 2. Test operation of (both) rams on every trip.
- 3. Check and record Accumulator pressure on every tour.
- 4. Re-pressure test BOP stack after changing out rams.
- 5. Have kelly cock valve with handle available.
- 6. Have safety valve and subs to fit all sizes of

