Form 3160-3 (July 1992)

UNITED STATES

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-9136

Expires: February 28, 1995

		SF - 077384									
		6. IPINDIAN, A POTTEE OR TRIBE NAME									
	APPLI	CATION FOR PE	RMIT TO D	RILL	OR DEEPEN		. i. il. r. i.				
	1a. TYPE OF WORK	ILL X	DEEPEN [070) Farmir	7. UNIT AGREEMENT NAM 19101, NW	z360			
	OIL OIL	GAS X OTHER	E 🗍	8. FARM OR LEASE NAME, MN Galt "B"	WELL NO. #3						
/	2. NAME OF OPERATOR				• •		,	,, •			
,	XTO Energy Inc.				ATT ATT		9. API WELL NO.				
	3. ADDRESS AND TELEPHONE				- 135144		30 045 3/69/ 10. FIELD AND POOL, OR WILDCAT				
	2700 Farmington A	ve., Bldg. K. Ste 1	L Farmington	n, NM	87,401 🗸 🔼	<u> </u>					
	LOCATION OF WELL (Repo At surface		Basin Fruitland Coal								
	1370' FNL & 1975' At proposed prod. zone		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA								
	same as above				100	white I	Sec 6, T27N,	R10W			
		DIRECTION FROM NEAREST TO			Con Line	33	12. COUNTY OR PARISH	13. STATE			
	12 dir miles sout	h of the Bloomfield	a, NM Post U		- K.S.		San Juan	NM			
(LOCATION TO NEAREST			16. NO	OF ACRES IN LEASE	17. NO. OF A	OF ACRES ASSIGNED IS WELL				
7	PROPERTY OR LEASE LINE (Also to nearest drlg. uni	E, FT. It line, if any) 751'	_	+-:	1780.71		331.42 W/2				
1	18. DISTANCE FROM PROPOSI	ED LOCATION*		19. PRC	POSED DEPTH	20. ROTARY	ARY OR CABLE TOOLS				
	TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS	ING, COMPLETED, S LEASE, FT. 1700'		1.8	375 <i>'</i>	0-1.8	,875' with Rotary Tools				
	21. ELEVATIONS (Show whe	·	22. APPROX. DATE WORK WILL START*								
	5,777' Ungraded G		Summer 2003								
	23. PROPOSED CASING AND CEMENTING PROGRAM										
	SIZE OF HOLE		OUANTITY OF CEM	FNT							
	8-3/4"	7", J-55	20.0#/f	t	+-200'	75 sx	Type III or Cl B cement				
	6-1/4"	4-1/2", J-55	10.5#/f		+-1,875'		Premium Lite ce				
			1								

XTO ENERGY INC. Request approval to drill the above mentioned well as described in the enclosed Surface Use Plan and proposed Drilling Program.

Note: A Williams pipeline is included in this APD for ROW.

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

This action is subject to technical and

APN/RAM

- DATE -

procedural review pursuant to 43 CFH 3165.8 and appeal pursuant to 43 CFR 3165.4		
ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposalis epen directionally, give pertinent data on subsurface locations and me	to deepen, give dataon present productive zone and propasured and true vertical depths. Give blowout preventer	dnew productivezone. If proposalis to drill or
SIGNED Whatton	TITLE Drilling Engineer	DATE 5/7/03
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
Application approval does not warrant or certify that the applicant holds leg	al or equitable title to those rights in the subject lease which wou	d entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:		
And David J. Mankiewicz		JUN - 3 2003

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any personknowing with the first of the United States any false, fictitious or fraudulent statements or representations as to any matter within its furisdiction.

DISTRICT 1 P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised Februar, 21, 1994 Instructions on back It to Appropriate District Office

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

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

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

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

☐ AMENDED REPORT

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

70 501 2000, 5011		\	WELL LO	OCATIO	N AND AC	REAGE DEDI	CATION I	PLAT		
30 API	Number	31681	1 ~ 1	Pool Code	4	30510	Pool No		$C \cap C$. 1
Property Co	7 0 (21001		Ua-	⁵ Property N		+101+1	<u> </u>	• Wa	Il Number
93/01	0				M.N. GAL					3
OGRID No	.				*Operator N				•,	Elevation
16706	Y INC.				5777					
				•	¹⁰ Surface	Location				·
UL or lot no.	Section 6	Township 27—N	Range 10-W	Lot Idn	Feet from the 1370	North/South line NORTH	Feet from the 1975	East/W	est line EST	County SAN JUAN
			11 Botto	m Hole	Location I	f Different Fro	m Surface	.		
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12 Dedicated Acres	<u> </u>	13,	Joint or Infili		¹⁴ Consolidation Co	ode	¹⁸ Order No.			
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6			NON-STA	NDARD	UNIT HAS BI	EEN APPROVED	BA THE I	DIVISION		*
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			LOT 3							
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Cartificate Number

XTO ENERGY INC.

DRILLING PROCEDURE MN GALT "B" #3 Basin Fruitland Coal May 7, 2003

Location: 1,370' FNL & 1,975' FWL, Sec 6, T27N, R10W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 1,875' OBJECTIVE: Fruitland Coal GR ELEV: 5,777'

1. MUD PROGRAM:

INTERVAL	0'-200'	200'-TD
HOLE SIZE	8-3/4"	6-1/47
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. CASING PROGRAM:

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 $\pm 1,875$ ' in 8.8 ppg mud.

			_		Coll	Burst						
1		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	1,875'	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.

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. <u>Production:</u> 4-1/2", 10.5#, J-55, STC casing at $\pm 1,875$ '.

<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. <u>DRILLING HAZARDS</u>:

- 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.



7. **FORMATION TOPS:**

Formation	Subsea Depth	Well Depth	
Ojo Alamo SS	+5,162'	620'	
Kirtland Shale	+5,058'	724'	
Famington SS	+4,919'	863'	
Fruitland Fm	+4,390'	1,392'	
Lower Fruitland Coal	+4,123'	1,659'	
Pictured Cliffs SS	+4,107'	1,675'	
Lewis Shale	+3,960'	1,822'	
T.D.	+3,907'	±1,875'	

Note: These depths, indicated above, are approximate. Actual depths of the formation tops will be determined from the well logs.

Maximum anticipated bottomhole pressure encountered during drilling should not exceed 0.35-0.43 psi/ft.

8. <u>COMPANY PERSONNEL:</u>

Name	Title	Office Phone	Home Phone
Dennis Elrod	Drilling Foreman	505-324-1090 505-486-6460 cellular	505-326-2024
Jeff Patton	Drilling Engineer	.505-324-1090 505-330-2957 cellular	505-632-7882
Randy Hosey	Project Geologist	817-885-2398	817-427-2475
Robin Tracy	Reservoir Engineer	817-885-2422	

9. **SPECIAL INSTRUCTIONS:**

A. Daily drilling reports should be called in to the San Juan District office at (505) 324-1090 or faxed to (505) 564-6700 by 8:00 a.m.

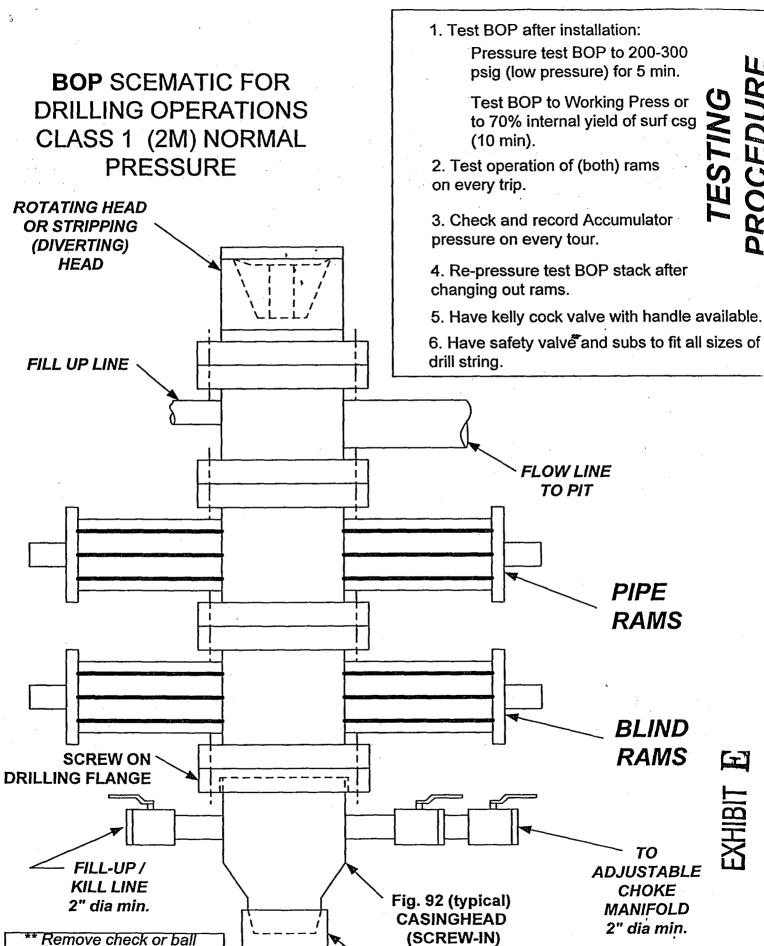
B. Deviation:

Surface Hole: Maximum of 1° and not more than 1° change per 100'. Production Hole: Maximum of 4° and not more than 1° change per 100'.

Note: Maximum distance between surveys is 500'.

- C. NU & Pressure Test BOP, choke manifold & surface casing to 250/800 psig for 30 minutes. Report the pressure test on the IADC form as required.
- D. Drill out below surface casing after WOC 12 hours. Drill cement and float equipment with minimum weight and RPM until drill collars are below the bottom of the surface casing. Keep location clean and water usage to a minimum.
- E. Check BOP blind rams each trip and pipe rams each day. Strap the pipe on the last bit trip prior to reaching TD, or on the TOH to log.

specifications



CASING COLLAR

from check valve and

press test to same press