Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires March 31, 2007

ILL OR REENTER Single Zone	N/A 8. Lease Name and Well No.
3b. Phone No. (include area coopy State equirements)* 1, 11W 10cmfield, NM Post Office 16. No. of Acres in lease	N/A 7. Unit or CA Agreement Name and No. N/A 8. Lease Name and Well No. GARTINER #2 9. API Well No. 30-045-30440 10. Field and Pool, or Exploratory BASIN FRUITTAND COAL 11. Sec., T., R., M., or Blk. and Survey or A 0 \$27, T26N, R11W 12. County or Parish 13. State San Juan NM
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19. Proposed Depth	20.BLM/BIA Bond No. on file
1750'	
22. Approximate date work will sta-	rt* 23.Estimated duration
summer 2005	2 weeks
4. Bond to cover the operat Item 20 above). 5. Operator certification. 6. Such other site specific in authorized officer. Name (Printed/Typed) Kyla Vaughan	tions unless covered by an existing bond on file (see information and/or plans as may be required by the Date 03/04/05
	12/38/05
Office	•
ds legal or equitable title to those rights in	the subject lease which would entitle the applicant
a crime for any person knowlingly and willfit on matter within its jurisdiction.	ully to make to any department or agency of the Uni
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1	22. Approximate date work will sta summer 2005 24. Attachments e Oil and Gas Order No. 1, shall be attache 4. Bond to cover the operated leads to the state of

DESTRICT | 1525 M. Fench Er., Hobbs, M.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

DESTRICT III 1000 Rio Brazos Rd., Astec, N.E. 87410

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

Form U-102 Revised June 10, 2003 Instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

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XTO ENERGY INC.

DRILLING PROCEDURE Gartner #2 Basin Fruitland Coal March 4, 2005

Location: 960' FNL & 770' FWL, Sec 27, T26N, R11W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 1,750' OBJECTIVE: Fruitland Coal

GR ELEV: 6,199'

1. MUD PROGRAM:

INTERVAL	0'-200'	200'-TD		
HOLE SIZE	11"	7-7/8"		
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: 8-5/8" casing to be set at ± 200 ' in 8.8 ppg mud in 11" open hole.

						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'	24#	J-55	STC	1,370	2,950	244	8.097	7.972	14.64	31.52	50.8

Optimum makeup torque for 8-5/8" 24#, J-55, STC casing is 2,440 ft-lbs (Min - 1,830 ft-lbs, Max - 3,050 ft-lbs).

Production Casing: 5-1/2" casing to be set at $\pm 1,750$ ' in 9.0 ppg mud in a 7-7/8" open hole.

					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	1,750'	15.5#	J-55	STC	4,040	4,810	222	4.950	4.825	3.52	4.19	5.84

Optimum makeup torque for 5-1/2", 15.5#, J-55, casing is 2,020 ft-lbs (Min - 1,520 ft-lbs, Max - 2,530 ft-lbs).

Capacity of 8-5/8", 24# casing is: 0.0636 bbl/ft Capacity of 5-1/2", 15.5# casing is: 0.0238 bbl/ft

3. WELLHEAD:

Casinghead: Larkin Fig 92 (or equivalent) 2,000 psig WP (4,000 psig test) with 8-5/8", 8rd pin on bottom and 10-3/4" API Modified 8rd thread on top (cap).

Tubinghead: Larkin Model 612 (or equivalent) 2,000 psig WP (4,000 psig test) with 5-1/2", 8rd bottom thread (or weld-on) and 8-5/8" 8rd API Modified top body thread, 4.090" minimum bore.

4. <u>CEMENT PROGRAM:</u>

A. Surface: 8-5/8", 24#, J-55, STC casing at \pm 200'.

Lead: 150 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> 5-1/2", 15.5#, J-55, STC casing at $\pm 1,750$ '.

<u>Lead:</u> ±200* sx of Type III cement containing 8% gel, 1/4 pps Celloflake & 2% Phenoseal (mixed at 11.9 ppg, 2.54 ft³/sk, 15.00 gal wtr/sk).

Tail: 100 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 649 ft³, ±40% 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	+5841'	933'
Kirtland Shale	+5749'	1086'
Fruitland Fm	+5386'	1512'
Lower Fruitland Coal	+4834	1377'
Pictured Cliffs SS	+4815'	1396'
Lewis Shale	+4514'	1697'
T.D.	+4461'	±1750'

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
John Klutsch	Project Geologist	817-885-2191	432-687-0615
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.

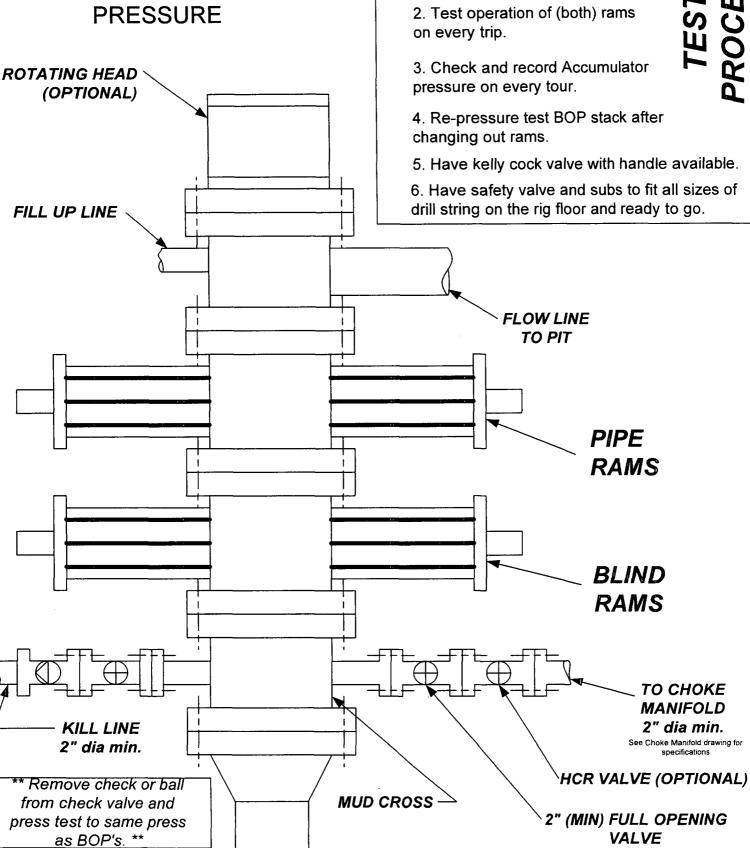
B. Deviation:

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.

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



1. Test BOP after installation:

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

Test BOP to Working Press or

to 70% internal yield of surf csg

(10 min) or which ever is less.

CHOKE MANIFOLD SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE

- 1. Stake all lines from choke manifold to pit.
- 2. Pressure test choke monifold after installation.
- 3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

TESTING PROCEDURE

