Form 3160-3 (July 1992)

CONDITIONS OF APPROVAL, IF ANY

APPROVED BY

Jel Dewid J. Mankiewicz

UNITED STATES

SUBMIT IN TRIPLICATE* (Other instructions on FORM APPROVED

OMB	NO.	1004	013	6
Expires:	Feb	ruary	28,	1995

MAR 19 2003

DATE

reverse side) DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. SF - 081239 **BUREAU OF LAND MANAGEMENT** 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL X DEEPEN L b. TYPE OF WELL OIL GAS X SINGLE X MULTIPLE 8. FARM OR LEASE NAME, WELL NO WELL OTHER LC Kelly 2. NAME OF OPERATOR XTO Energy Inc 9. API WELL NO. 3. ADDRESS AND TELEPHONE NO. 30045 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface Basin Fruitland Coal 1575' FNL & 1370' FWL in Sec 4. T30N. R12W 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA At proposed prod. zone <u>same</u> as above **R12W** T30N 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. COUNTY OR PARISH 13. STATE 9 air miles northwest of the Flora Vista Post Office San Juan NM 15. DISTANCE FROM PROPOSED 17 NO. OF ACRES ASSIGNED 42 16. NO OF ACRES IN LEASE . LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drlg, unit line, if any) 1250 18. DISTANCE FROM PROPOSED LOCATION 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH-TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2.350 0-2,350' with Rotary Tools 21. ELEVATIONS (Show whether DF,RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 5,876' Ungraded Ground Level Winter 2003 23 PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE OUANTITY OF CEMENT ADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH 8-3/4" 7", J-55 20.0#/ft +-200' 75 sx Type III or Cl B cement 6-1/4" 4-1/2", J-55 195 sx Premium Lite cement 10.5#/ft +-2.350' XTO ENERGY INC. Request approval to drill the above mentioned well as described in the enclosed Surface Use Plan and proposed Drilling Program. Note: Due to this well being located on existing location, No pipeline ROW is required. 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 This action is subject.

This action is subject to 43 CFR 3165.4

procedural review pursuant to 43 CFR 3165.4 24. TITLE Drilling Engineer DATE 2/18/03 SIGNED (This space for Federal or State office use) APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

- TITLE

*See Instructions On Reverse Side

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

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

DISTRICT IV

OIL CONSERVATION DIVISION

2040 South Pacheco

REC'D / SAN JUAN Fee Lease - 3 Copies 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office

Certificate Number

2040 South Pacher	co, Santa F	e, NM 87505					DE	EC 132	2002 🗀 1	AMEND	ED REPORT		
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XTO ENERGY INC.

DRILLING PROCEDURE LC KELLY #15 Basin Fruitland Coal February 18, 2003

Location: 1,575' FNL & 1,370' FWL, Sec 4, T30N, R12W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,350' OBJECTIVE: Fruitland Coal GR ELEV: 5,876'

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 \pm 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 $\pm 2,350$ ' in 8.8 ppg mud.

					Coll	Burst						
ļ		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	2,350'	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. <u>WELLHEAD:</u>

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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. <u>CEMENT PROGRAM:</u>

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 $\pm 2,350$ '.

<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: 70 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.



1. Test BOP after installation:

(10 min).

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

Test BOP to Working Press or

specifications

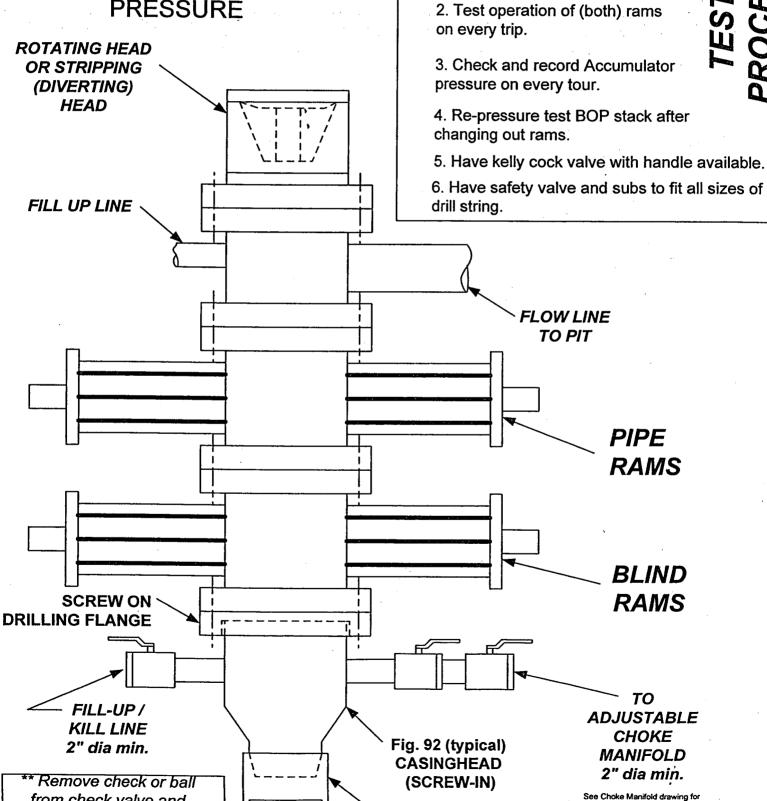
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BOP SCEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL **PRESSURE**

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as ROP's **



CASING COLLAR

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