· Form 3160-3 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE* (Other instructions on reverse side) FORM APPROVED

OMB	NO. 1004-0136
Expires:	February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO. SF - 077952 BUREAU OF LAND MANAGEMENT

ADDI	CATION FOR SE	DAUT TO D	ייים	OD DECREY		6. IF INDIAN, ALLOTTEE C	R TRIBE NAM	IE .	
APPLI 1a. TYPE OF WORK	CATION FOR PE	KINII IOD	MILL	OK DEEPEN		7. UNIT AGREEMENT NAM	иЕ		
DRI	ILL X	DEEPEN [İ		227	/Z 8	
b. TYPE OF WELL	GAS X			SINGLE X MULTIPE	ELLI	8. FARM OR LEASE NAME			
	WELL OTHER			ZONE ZONE	<u>" []</u>	JC Gordon "E"		¥ 2	
XTO Energy Inc.						9. API WELL NO.			
B. ADDRESS AND TELEPHONE	E NO.			1678	9%	30045	3/63	3s ⁻	
	ve., Bldg. K. Ste 1					10. FIELD AND POOL, OR	WILDCAT		
. LOCATION OF WELL (Repo At surface	rt location clearly and in accor	dance with any State	require	ments) SEP 200	رنے ان مو	Basin Fruitla	na Coai		
	FWL in Sec 23, T2	?7N, "R10W		1 A. 200	13				
At proposed prod. zone same as above						Sec 23, T27N			
	DIRECTION FROM NEAREST TOV	VN OR POST OFFICE*				12. COUNTY OR PARISH	13. STATE		
	heast of the Bloomi	field, NM Pos		N. C.		San Juan	NM		
 DISTANCE FROM PROPOSI LOCATION TO NEAREST PROPERTY OR LEASE LINE (Also to nearest drlg. unit 	· • • • • • • • • • • • • • • • • • • •			of acres in lease		ACRES ASSIGNED WELL \$20 W/>			
DISTANCE FROM PROPOSI	ED LOCATION*			POSED DEPTH	20. ROTARY	OR CABLE TOOLS			
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS	SLEASE, FT. 15'		2,5	500'	0-2,	500' with Rotary			
1. ELEVATIONS (Show when						22. APPROX. DATE WO	RK WILL STAR	æ. T*	
5,508' Ungraded G	round Level	·				Summer 2003			
3.	F	ROPOSED CASING	ANDO	EMENTING PROGRAM					
SIZE OF HOLF	GRADE, SIZE OF CASING	WEIGHT PER FOO		SETTING DEPTH		QUANTITY OF CE			
8-3/4"	7", J-55	20.0#/ft		+-200'		x Type III or Cl B cement			
6-1/4"	4-1/2", J-55	10.5#/ft	<u>; </u>	+-2,500'	195 sx	sx Premium Lite cement			
Surface Use P Note: Due to This action is subject to procedural review pursuant to and appeal pursuant to subject to procedural review pursuant to subject to compliance NENERAL REQUIREMENTS.	HORIZED ARE WITH ATTACHED BE PROPOSED PROGRAM: Critinent data on subsurface logar	cilling Progr ocated on exi	sting	dataon presentproductivezore e vertical depths. Give blowor	eline RO	w is required.	Proposalis to	o drill or	
SIGNED (This space for Federal of	700,		TLE Dr	rilling Engineer		DATE 4/16/	03		
,p === -51	1			2512 26. tr					
PERMIT NO.		**		APPROVAL DATE					
Application approval does CONDITIONS OF APPRO	not warrant or certify that the appl VAL, IF ANY:	licant holds legal or equ	itable titl	e to those rights in the subject leas	e which would	l entitle the applicant to cond	uct operations (thereon.	
	/ David J. Mankie					SEP -	- 4 2003	;	
APPROVED BY ———		*See Instruct		n Reverse Side		DATE -			

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

State of New Mexico gy, Minerals & Natural Resources Department

Form C-102 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

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

AMENDED REPORT

1000 Rio Brazos Rd., Azlec, N.M. 87410 DISTRICT N

PO Box 2088, Santa Fe	, NM 87	504-2088				•			L] Amen	DED REFORT	
		٧	VELL L	OCATIO	N AND AC	CREAGE DEDI	CATIO	N PL	TA_			
3604	5-2	3/635	5	Pool Code	9	C	45110	ool Name FRU!		COA	<u>/</u>	
Property Code	,				⁵ Property 1	Name					Il Number	
1010	6				J.C. GORD						2	
7 OGRID No.	,	*Operator Name *Elevation										
167067	TW TOBT											
				,	¹⁰ Surface				- 1 Au	- None	10	
1	ction 23	Township 27-N	Range 10W	Lot Idn.	Feet from the 455	North/South line NORTH	Feet from		East/We WE		SAN JUAN	
	11 Bottom Hole Location If Different From Surface											
UL or lot no. Se	ction	Township	Range	Lot Idn	Feet from the	North/South line	Feet from	m the ²	East/We	st line	County	
12 Dedicated Acres	W	/ 19.3	olnt or Infill	<u> </u>	¹⁴ Consolidation C	Code	19 Order 1	No.	L			
3Z <i>D</i>		Z	\mathcal{I}									
NO ALLOWAB	LE WI					ION UNTIL ALL				EEN CO	NSOLIDATED	
16		OR A N			UNIT HAS B	EEN APPROVED		HE DIV	VISION			
SEC. CORNER FD 2 1/4 BC 1913 GLO		150	S 89. 5	-40-25 E 279'	-	SEC. CORN FD 2 1/4	BC 17				RTIFICATION	
	3:	12, 4	\	7		1913 GLO	l he trus	reby certify and comp	y that the infoliate to the b	ormation cont est of my kno	ained herein is owledge and belief	
1635'		V	1005'				Į	-				
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OTR. CORNER FD 2 1/4" BC 1913 GLO				1			1 18		URVEYO	R CER	TIFICATION	
1913 GEO	λ			es monte s		1500000 V D	t he	ereby cert	ify that the	well location	shown on this plat	
						A COLOR	or :	under my	rom neid no supervision, e best of m	and that th	I surveys made by me ne same is true and	
\ \			`			_	}	V	TIDBE	24118		
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				- (31:h Wd 9		3	REGISTA	1482		\$ 10,500 \$ 10,500	
		\				DEA	-	1 / 32	POFFSS		1	
/					Number 1975		-c	erlificate		827		

XTO ENERGY INC.

DRILLING PROCEDURE

JC Gordon "E" #2 **Basin Fruitland Coal** April 16, 2003

Location: 455' FNL & 1,635' FWL, Sec 23, T27N, R10W

County: San Juan

State: New Mexico

PROJECTED TOTAL DEPTH: 2,500'

OBJECTIVE: Fruitland Coal

GR ELEV: 6,508'

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 ± 2.500' 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	2,500'	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 Class B or Type III cement (or equivelent) containing \(\frac{1}{2} \) pps celloflake, 2\(\frac{1}{2} \) CaCl₂ (mixed at 15.6 - 14.6 ppg, 1.18 - 1.39 ft³/sk, 5.2 - 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 $\pm 2,500$ '.

<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.

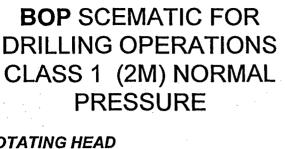
5. **DRILLING HAZARDS:**

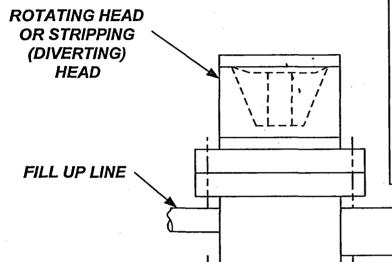
- H₂S or other Poisonous Gases: No formations known to contain H₂S or any other poisonous gases will be penetrated with this wellbore.
- Abnormal Pressures: No overpressured zones are known to exist or are anticipated to be encountered during the drilling of this well.
- Lost Circulation: Seepage and/or 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.





SCREW ON

FILL-UP /

KİLL LINE

2" dia min.

Remove check or ball from check valve and

press test to same press

DRILLING FLANGE

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.

FLOW LINE TO PIT

Fig. 92 (typical)

CASINGHEAD

(SCREW-IN)

CASING COLLAR

- 5. Have kelly cock valve with handle available.
- 6. Have safety valve and subs to fit all sizes of drill string.

PIPE

TO

specifications