Form 3160-3 (July 1992)

APPROVED BY

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 - 081239						
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
APPL	ICATION FOR PE	RMIT TO DRILL	OR DEEPEN	·			
1a. TYPE OF WORK DR b. TYPE OF WELL	BILL X	DEEPEN			7. UNIT AGREEMENT NAME 2 Z G C		
OIL WELL 2. NAME OF OPERATOR	GAS X OTHER		SINGLE X MULTIF	PLE	8. FARM OR LEASE NAME, WELL NO. #13		
XTO Energy Inc.			. ,		9. API WELL NO.		
3. ADDRESS AND TELEPHON 2700 Farmington A	eno. Ave., Bldg. K. Ste 1	l Farmington. NM	87401 (27 22 22 2		3004531409 10. FIELD AND POOL, OR WILDCAT		
	ort location clearly and in accor				Basin Fruitland Coal		
1685' FSL & 965' At proposed prod. zone	FEL in Sec 3, T30	ON, R12W	MAR 2003		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 3. T30N. R12W		
same as above 14. DISTANCE IN MILES AND	DIRECTION FROM NEAREST TO	WN OR POST OFFICE*	<u>s</u>		L Sec 3, T30N, R12W 12. COUNTY OR PARISH 13. STATE		
	west of the Flora		V	<u> </u>	San Juan NM		
15. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LIN	E ET		OF ACRES IN LEASE	17. NO. OF TO THIS			
(Also to nearest drlg. un 18. DISTANCE FROM PROPOS	it line, if any) 965		2,410.24 PROSED DERTH / 9 52	20 POTAP	318.65 K/A Y OR CABLE TOOLS		
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THI	LING, COMPLETED,	i	375'	l l	,375' with Rotary Tools		
21. ELEVATIONS (Show whe				<u>, , , , , , , , , , , , , , , , , , , </u>	22. APPROX. DATE WORK WILL START*		
5,814' Ungraded G	Ground Level				Winter 2003		
23.	I	PROPOSED CASING AND	CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		OLIANTITY OF CEMENT		
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	10.5#/ft	ft +-2,375'		x Premium Lite cement		
Surface Use F Note: Due to DRILLING OPERATIONS AU SUBJECT TO COMPLIANCE GENERAL REQUIREMENTS This action is subject to tec procedural review pursuant and appeal pursuant to 43 in IN ABOVE SPACE DESCRII	Plan and proposed Di this well being lo THORIZED ARE WITH ATTACHED The call and tho 43 CFR 3165.3 CFR 3165.4	rilling Program. ocated on existing	g location, No pip	eline RO	sednew productivezone. If proposalis to drill or		
24. SIGNED —	Autati	mile Di	rilling Engineer		_{DATE} 2/18/03		
(This space for Federal	or State office use)		<u>-</u>				
PERMIT NO.			APPROVAL DATE				
CONDITIONS OF APPRO			e to those rights in the subject lea:	se which would	MAR 1 9 2003		

- DATE -

- TTTLE -

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

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

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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

AMENDED REPORT

DISTRICT IV 2040 South Pachec	o, Santa Fe	, NM 87505				•					
			ELL LO	CATIO	N AND ACI	REAGE DEDIC	CATION PL	AT			
'API	Number	• / 0	-	² Pool Code			³ Pool Name		7 7 7 4		
150-04	5-3	1409		7167	9		ADINO FRU	11 <u>217020 C</u>	DHL Vell Number		
Property Co		•			Property No				13		
	20	,			L. C. KEI			Devation			
OGRID No.	i i			,	XTO ENERGY			5814'			
1670	ا مار		<u> </u>	,	ATO ENERG	1 110.					
					¹⁰ Surface		<u></u>				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the 965	East/West line EAST	SAN JUAN		
	3	30-N	12-W	<u> </u>	1685	SOUTH		1 2551	0,41 00,41		
			¹¹ Bott	om Hole		f Different Fro		Carl Attack Bas			
UL or let no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
2 Dedicated Acres	<u> </u>	<u> </u>	13 Joint or 1	<u></u>	¹⁴ Consolidation Co	nde	15 Order No.	<u> </u>			
		Ē/	1		Consolication						
318.		/Z	_	<u> </u>			<u> </u>				
NO ALLOV	WABLE \	MLL BE A	ASSIGNE	D TO TH	IS COMPLETI	ON UNTIL ALL	INTERESTS	HAVE BEEN (CONSOLIDATE		
		OR A N	NON-ST	ANDARD	UNIT HAS B	EEN APPROVE	D BY THE D	IVISION			
16	·						17	OPERATOR (CERTIFICATIO		
						\	I hereby	I hereby certify that the information contained herein			
				\		LOT 5	is true of belief	nd complete to the best	of my knowledge and		
LOT 8	.	LOT	7		LOT 6	1019					
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				2018	232000		\sim				
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LOT 9		LOT	10	2 100 G	LOT IIL	LOT 12	Printed	Name			
						QTR. CO		DRITTING	ENGINEER		
				VO R	Con Contract	BLM 1	~~11	Z-18.	O.3		
	·			3	A-A		Date				
1						1 1.	18	SURVEYOR C	ERTIFICATION		
						E LOT 13	I hereby c	ertify that the well location field notes of act	on shown on this plat		
LOT	16	LO	T 15		LOT 14	201/13	me or und	er my supervision, and th	nat the same is true		
			LAT:	36°50'19" : 108°04'	N. (NAD 83)	965'	and correc	t to the best of my bell	of.		
METON, MM	O EVEKI	<u>7</u> 0	LUNG	: 108'04	48" W.	331'		12 310 4-30	147		
						Ä	≥ ∑ Date of	7. Ex	to		
9 MII: 3	1 EB 1	ωz				` <u></u>	Signatu Signatu	1 1 7	1 1		
					\	685.	2665,66°	層 (1482	7) [5]		
	17]]]	Lo	OT 18		LOT 19	roj 50	2665,6		T) Kac		
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QTR. CORNER FD 3 1/4" BC BLM 1975

N 89-55-21 W

2592,34' (M)

SEC. CORNER FD 3 1/4" BC BLM 1975

Certificate Number

XTO ENERGY INC.

DRILLING PROCEDURE LC KELLY #13 Basin Fruitland Coal February 18, 2003

Location: 1,685' FSL & 965' FEL, Sec 3, T30N, R12W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,375' OBJECTIVE: Fruitland Coal GR ELEV: 5,814'

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.

		ĺ			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 ± 2.375 ' 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	2,375'	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 $\pm 2,375$ '.

<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 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.

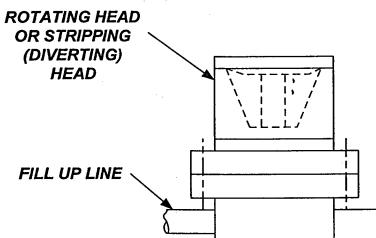
6. **LOGGING PROGRAM:**

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

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

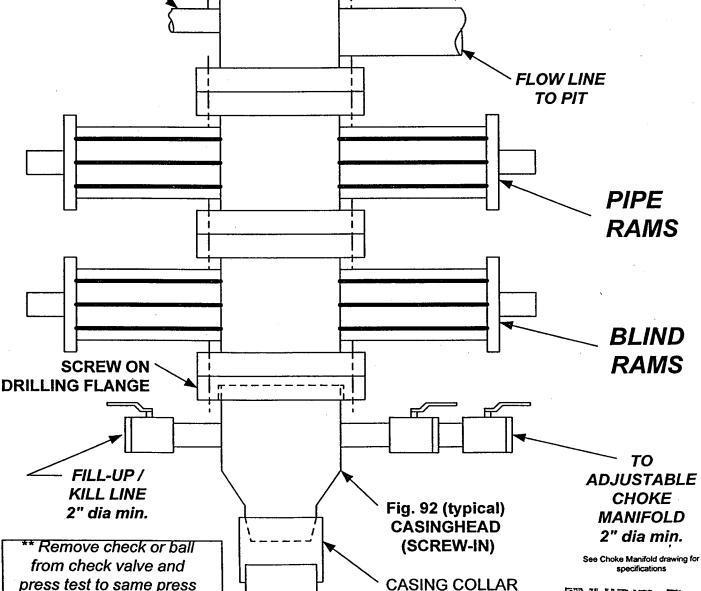


BOP SCEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE



as BOP's. **

- 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 drill string.



(LOOKING UP)