Form 3160-3 (July 1992)	DEPARTMENT BUREAU OF	LAND MANA	NTERI GEME		JBMIT IN TRIPLI (Other instruction) Prise and		FORM APPE OMB NO. 1 Dires L SE DES NO ION A S - G L 9 6. IF IDL ALL TITE O	004-0136 ary 8, 199 St IAL			
1a. TYPE OF WORK	CATION FOR PE	PEN	H	144							
b. TYPE OF WELL OIL	GAS X ^ OTHER	Е 🔲	8 FARMOR LEASE NAME, LC Kelly	8. FARM OR LEASE NAME, WELL NO. LC Kelly #8							
Cross Timbers Ope		 Farmington	n, NM 87		3456 JUN 200	00	9. APLWELL NO. 30 045 - 30665 10. FIELD AND POOL, OR WILDCAT				
4. LOCATION OF WELL (Repo At surface 1,460' FNL & At proposed prod. zone	VELAW	Basin Fruitland Coal  11. SEC., T., R., M., OR BLK.  AND SURVEY OR AREA  Sec 3. T30N. R12W									
Approx 7 miles no	DIRECTION FROM NEAREST TO Ortheast of the Flor		Post Of		रहेरा राज्य	NO OF	12. COUNTY OR PARISH San Juan ACRES ASSIGNED	13. STATE NM			
15. DISTANCE FROM PROPOS. LOCATION TO NEAREST PROPERTY OR LEASE LINI (Also to nearest drig. uni 18. DISTANCE FROM PROPOS	E, FT. It line, if any) 1,005' ED LOCATION'		16. NO. OF 318.6	5	THE UCUL	TO THIS	318.65 YOR CABLE TOOLS				
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THE 21. ELEVATIONS (Show whe 5,845' Ground Lev	ther DF,RT, GR, etc.)		2,475	<u>'</u> –		Rota	ary Tools  22. APPROX. DATE WORK WILL START  July 2001				
23.		PROPOSED CASIN	G AND CEM	ENTING:	PROGRAM						
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO		SETTING DEPTH			QUANTITY OF CEN	MENT			
8-3/4"	7", J-55	20.0#					75 sx Type III cmt, circ to surfact 235 sx Premium Lite cmt.				
6-1/4"	4-1/2", J-55	10.5#									
Program.	s plans to drill th		ioned we				1	Use ن ب			
procedura and appea	review pursuant to 4.  Bursuant to 43 CFR  BE PROPOSED PROGRAM: ertinent data on subsurface loc	3 CFA 3165.3 3165.4.	epen,give da	#6 EM	OT TU COM RAL REQUIR	LIAGOE W EME <mark>NTS"</mark>	DEMONTAL HTM				
deepen directionally, give p	ertinent data on subsurface loc	ations and measure	and true ve	егисат пер	ns. Give blowou	at preventer	program, ir any.				
SIGNED	( W Patto	ח	mue Dri	lling E	ngineer		<u>5/4/0</u>	1			
(This space for Federal	or State office use)			APPROVAL DATE							
Application approval doe CONDITIONS OF APPRO	es not warrant or certify that the ap	plicant holds legal or e				se which woul	d entitle the applicant to cond	uct operations thereon.			
APPROVED BY —	/s/ Lee Otteni	-	ITLE ———	leverse Si	de		— DATE —				
Title 18 U.S.C. Sec fictitious or fraudu	ction 1001, makes it a crime tlent statements or represer	for any personk	nowinglyar	ıd willful	lyto make to a	ny departn	nentor agency of the Un	itedStates any false			

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

# State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

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

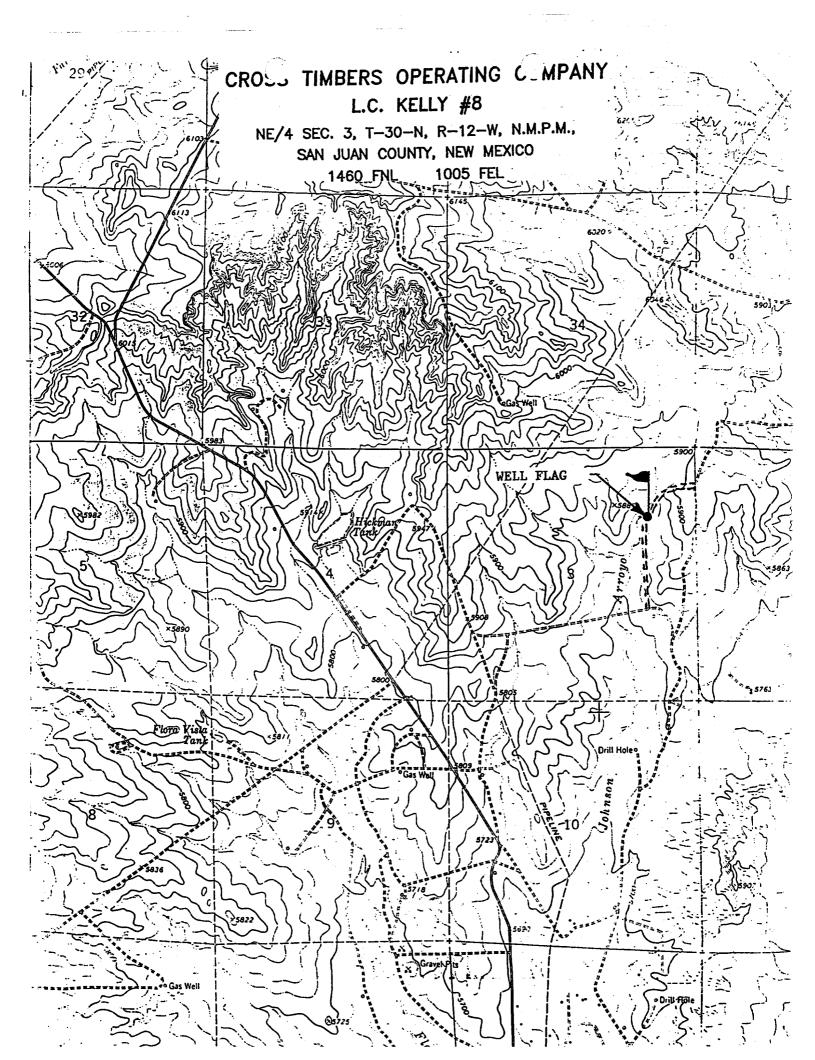
Submit to Appropriate District Office OIL CONSERVATION DIVISION MAY -8 11 3:41 State Lease - 4 Copies Fee Lease - 3 Copies

Certificate Nu

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

P.O. Box 2088 Santa Fe. NM 87504-2088

RICT IV Box 2088, Sant	ta Fe, NM 8	7504-2088			inta te, NM 8/		OATION DI		IDED REPORT
		<u> </u>			N AND AC	REAGE DEDI	Pool Name	_A1	
1API	Number - 306	(5		Pool Code 71629		Ē		ITLHUD CO	AL
<sup>4</sup> Property Co		3			Property N	* w	* Well Number 8		
ADD 7 OGRID No	10		·		<sup>6</sup> Operator N				Elevation
1670	1		•	CROS	S TIMBERS OF			584	5'
	<sup>10</sup> Surface Location								County
or let no. H	Section 3	Township 30—N	Range 12-W	Lot Idn	Feet from the 1460	North/South line NORTH	1005	East/West line EAST	SAN JUAN
		<u> </u>	11 Botto	m Hole		lf Different F		e .	County
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	Horth/South line	Feet from the	East/West line	County
Dedicated Acre	<b>1</b>	- u.	loint or infili	L	"Consolidation C	ode	15 Order No.		
318.6	5 /	2							201101101
NO ALLO	WABLE \	WILL BE	ASSIGNE	D TO TH	IS COMPLET	ION UNTIL AL	L INTERESTS D BY THE D	INISION HAVE BEEN	CONSULIDA
I CHICAGO	The state of the s	272	TR. CORNER 1/2" BLM BC. 195		2642.32° [. = 36-50-40 N 3.= 108-04-49 W	W SEC. CO FD. 3 1/2" E BC. 316' 1005'	I hereby certification of the state of the s	FARY W P.  Name  PRILLING ENC	attorn  attorn
		E2 22 V.					I hereby or was plotted or under recorrect to	ertify that the well local from field notes of acmy supervision of the the best of my safeti	tion shown on this bud surveys made b



# **CROSS TIMBERS OPERATING COMPANY**

# DRILLING PROCEDURE

Bolack "C" #17 Basin Fruitland Coal May 4, 2001

Location: 1460' FNL & 1005' FEL, Sec 3, T30N, R12W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,475' OBJECTIVE: Fruitland Coal GR ELEV: 5,845'

#### 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. CASING PROGRAM:

Surface Casing: 7" casing to be set at  $\pm 200$ ' in 8.8 ppg mud.

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ſ						Coll	Burst						i
l			Wt			Rating	Rating	Jt Str	ID	DD	SF	SF	SF
١	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
- 1	0 -200	200	2017	J-22		2,270	5,7.10						

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  $\pm 2,475$ ' in 8.8 ppg mud.

	TIOGUCIIC	ni Casing.	- T	/ L - UUU	<u>5 to ot</u>			FFB					
ſ						Coll	Burst						
۱			Wt			Rating	Rating	Jt Str	ID	DD	SF	SF	SF
١	Interval	Length	(ppf)	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Tension
Į	HILCI VAI	Lengui				``	1	122	1050	2.007	2.57	2 22	5.24
	0'-TD	2,475'	10.5#	J-55	STC	4,010	4,790	132	4.052	3.927	3.57	3.33	3.24

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% CaCl<sub>2</sub> (mixed at 14.6 ppg, 1.39 ft<sup>3</sup>/sk, 6.67 gal wtr/sk).

Total slurry volume is 104.25 ft<sup>3</sup>, 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  $\pm 2,475$ '.

Lead: 235\* sx of 35:65 Poz/Type III cement containing 10 PPS CSE, 2% CaCl2, ¼ PPS Celloflake, 0.65% bwoc FL-62, 6% gel (mixed at 12.5 ppg, 2.07 ft³/sk, 10.95 gal wtr/sk).

Total estimated slurry volume is 455 ft<sup>3</sup>, 100% excess of calculated annular volume required to circulate cement to surface.

\* Actual cement volumes will be determined using log caliper volume plus 30% excess.

#### 5. DRILLING HAZARDS:

- H<sub>2</sub>S or other Poisonous Gases: No formations known to contain H<sub>2</sub>S 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 1600' & 1000' to 700'

No mud logger to be used on this well.

