## **UNITED STATES**

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 - 047039(b)								
ADDI	6. IF INDIAN, ALLOTTEE OR TRIBE NAME								
ia. TYPE OF WORK	ICATION FOR P	ERMIT TO	DRILL	OR DEEPEN		7 IDET ACRES OF THE STATE OF TH			
b. TYPE OF WELL	RILL X	DEEPEN		<b></b>		7. UNIT AGREEMENT NAME			
WELL	GAS X OTHER	<del></del>		SINGLE X MUL ZONE ZON	TIPLE	8. FARM OR LEASE NAME, WELL NO.  J. F. Day "B" #1R			
cross Timbers Ope	onating Company					U. I. Day B #IR			
ADDRESS AND TELEPHON			<del></del>	<del></del>	·	9. API WELL NO.			
700 Farmington A	30-045-30734								
LOCATION OF WELL (Rep. At surface	10. FIELD AND POOL, OR WILDCAT Fulcher Kutz Pictured Cli								
	FWL Section 17, T2	ON DION II	- AI	·					
At proposed prod. zone	1 WL 36CC1011 17, 12	ON, KIUW, Ur	IT N			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
ame						Sec. 128, T28N, R10W			
DISTANCE IN MILES AND	DIRECTION FROM NEAREST TO	WN OR POST OFFICE	E*			12. COUNTY OR PARISH 13. STATE			
DISTANCE FROM PROPOS	hed Surface Use Pro	gram.			<del></del>	San Juan NM			
LOCATION TO NEAREST PROPERTY OR LEASE LINE	r er			OF ACRES IN LEASE	17. NO. OF TO THIS	ACRES ASSIGNED WELL			
(Also to nearest drlg. un DISTANCE FROM PROPOS	it line, if any) 660		160			SW/4 160 acres			
TO NEAREST WELL, DRILL	LING, COMPLETED.		1	POSED DEPTH	20. ROTARY	OTARY OR CABLE TOOLS			
OR APPLIED FOR, ON THE ELEVATIONS (Show whe		<del></del>	2,3	00, —	Rota	<del></del>			
.981' GL	anci Di ,Ni, Giv, etc.)					22. APPROX. DATE WORK WILL START*			
,301 42		<del></del>	<del>-</del>			Fall 2001			
	1	PROPOSED CASIN	G AND C	EMENTING PROGRAM					
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FO	OT	SETTING DEPTH		OUANTITY OF CEMENT			
8-3/4"	7", J-55	20#	200'		75 sx				
6-1/4"	4-1/2", J-55 s subject to translate:	10.5#		2,300'~	230 sx				
65 :i	Operating Co. (now	w known as X ce use progra	TO Ener	AUG 2001	ill the ab	pove mentioned well as			
O)				DIST. 3	🍠 "GENERAL	CHESTIANCE WITH ATTACHED TREQUIREMENTS"			
en directionally, give per	E PROPOSED PROGRAM: tinent data on subsurface loca	if proposalis to dee tions and measured	and true	ation presentación de blowd	one and propose out preventer p	ednew productivezone. If proposalis to drill or orgam, if any.			
SIGNED	W Caller	7	ne Jef	f Patton, Drilli	ing Engine	er 07/17/01			
(This space for Federal or PERMIT NO.	i quate office use)								
				APPROVAL DATE——					
CONDITIONS OF APPROV	not warrant or certify that the appli 'AL, IF ANY:	cant holds legal or equ	itable title to	those rights in the subject lea	ise which would e	entitle the applicant to conduct operations thereon.			
APPROVED BY	b/Joe Haude					AUG 2			

- DATE -

TITLE .

/a/ Joe Hewitt

DISTRICT 1 P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico rgy, Minerals & Natural Resources Departme

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

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

FD 3 1/2" BC G.LO. 1913

DISTRICT III

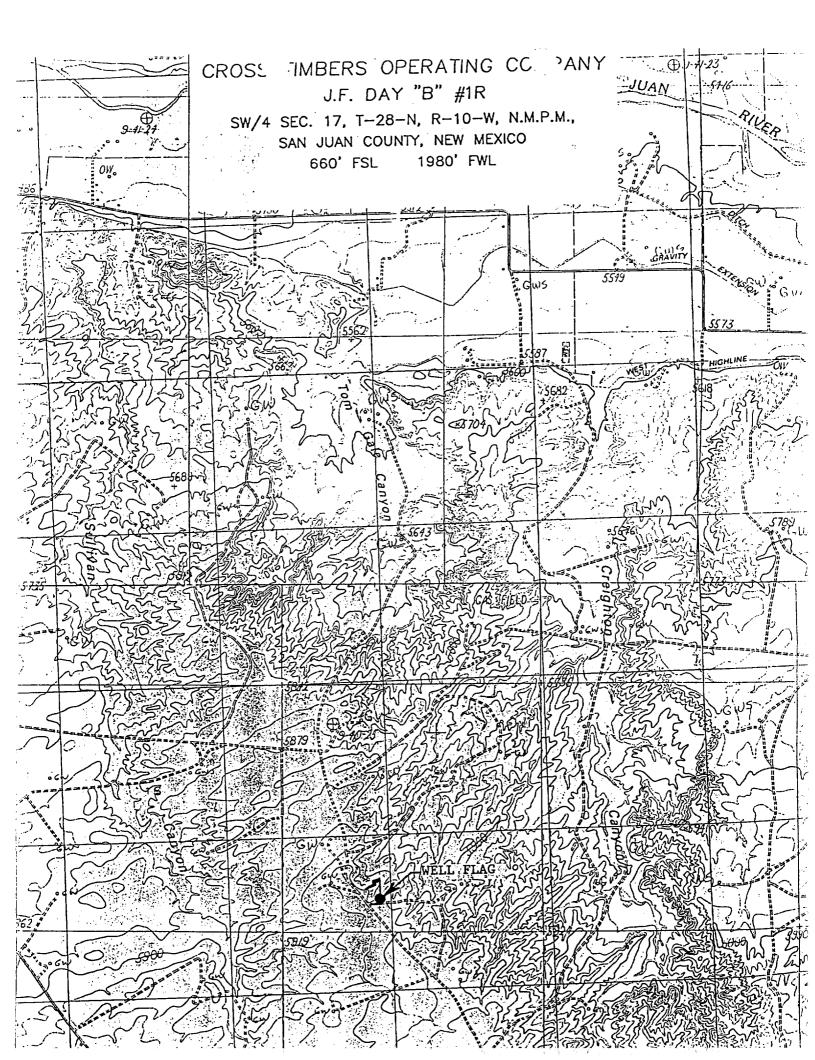
P.O. Box 2088 Santa Fe, NM 87504—2088

OIL CONSERVATION DIVISION

☐ AMENDED REPORT

DISTRICT IV

O Box 2088, Sant	0 FE, NM 0	/307-2000 W	ELL L	OCATION	AND AC	REAGE DEDI	CATION PL	.AT		····
21-01/5	Number 2 A	221		Pool Code	2	FULCHE	Pool Name		D CLIF	75
Property Co	$\frac{1}{de}$	104		11110	<sup>5</sup> Property N			1	* We	II Number
3514	0				J.F. DAY	<b>"</b> B"				1R
OGRID No.				<sup>9</sup> Elevation						
16706	57			CROS	PERATING CO.				5981'	
						Location	T= 1.2 N.	1 F Av	-1 ff	T Compton
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line SOUTH	Feet from the	East/Wes		SAN JUAN
N	17	28-N	10-W		660'	<u> </u>	J	1		
				om Hole	LOCGION Feet from the	If Different Fr	Feet from the	East/We	st line	County
UL or lot no.	Section	Township	Range	Lot Idn	reat from the	Hardly Seeds Inte				
12 Dedicated Acres	<u>.  </u> S	13 3	oint or Infill	<u>.l</u>	<sup>14</sup> Consolidation C	ode	15 Order No.			
160	5W									
100	NABLE!	MAIL DE	SSIGNE	HT OT O	IS COMPLET	ON UNTIL ALL	INTERESTS	HAVE B	EEN C	ONSOLIDATE
NO ALLOV	WADLE	OR A	NON-ST	ANDARD	UNIT HAS E	BEEN APPROVE	D BY THE D	IVISION		
16							17	OPERA1	TOR CE	RTIFICATION
FD 3 1/2" BC G.L.O. 1913							I hereby certi	fy that the ini	formation con	tained herein is
1							true and com	plete to the b	est of my kn	owledge and belief
		<u> </u>								
00										
3			···					,	()///X	forther .
a -	-				783		Signature		JW/	-aniori_
5277.40' (R)				1 1			i -	FFZEY W	) POTTO	ν ·
7.40	···				Y AUG 200	4	Printed N		- A. A. A.	3
527	<u></u> 2			-	Acc 200	=	Title	ILL ING	ENGINE	· Ł Ł
1.00 1.00 1.00										
		1		1/	ه کاکا <b>ا</b> ت		18 S	SHOVEY	UD UE	RTIFICATION
m /				,	and the second s	1.9				on shown on this pic
00-00-52		1 /	/	/	W222	المتعارضة المتعارضة	was plotted	from field n	otes of actu	oj surveys mode by i
1					, ––		or under m correct to	the best of	mv belie	the same is true on
z							1 1	-31-		Y A. RUS
	,	X /		/ .			Date of 1	Survey	2 NE	##EFE
		<del>                                     </del>	659	9'			Signature	and Seal of	Profession	a surelion
			1/1	663'				) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ンだ	الآل الأثاث
V /		<i>Y</i> .	1				N 1/	Survey and Seal of	(E)	1894 S
		1_/	<u> </u>					M PT	KON:	the this
	1980'		LAT: 3	6°39'25" N. 107°55'16" Y	<b>у</b> .			\\ \ \ \ \ \ \ \ \	894	
FD 3 1/2" B	c	1/	. <u> </u>	/ FD :	3 1/2" BC		Certifical	te Number	UJ-T	
GIO 1913	5 89-	55-46 E		/ ] G.L.C	). <b>1913</b>					



#### **CROSS TIMBERS OPERATING COMPANY**

# DRILLING PROCEDURE JF Day "B" #1R Fulcher Kutz Pictured Cliffs July 17, 2001

Location: 660' FSL & 1980' FWL, Sec 17, T28N, R10W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,300' OBJECTIVE: Pictured Cliffs GR ELEV: 5,981'

#### 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.

					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  $\pm 2,300$ ' in 8.8 ppg mud.

					Coll	Burst		į				
		Wt			Rating	Rating	Jt Str	ID	DD	SF	SF	SF
Interval	Le3gth	(ppf)	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Tension
0'-TD	2,300'	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. <u>CEMENT PROGRAM:</u>

A. Surface: 7", 20#, J-55, STC casing at  $\pm$  200'.

Lead: 75 sx Type III cement 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 105.5 ft<sup>3</sup>, 250% excess of calculated annular volume required to circulate cement to surface.

B. Production: 4-1/2", 10.5#, J-55, STC casing at  $\pm 2,300$ '.

Lead: 230 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 476 ft<sup>3</sup>, 100% excess of calculated annular volume required to circulate cment 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:**

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.



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

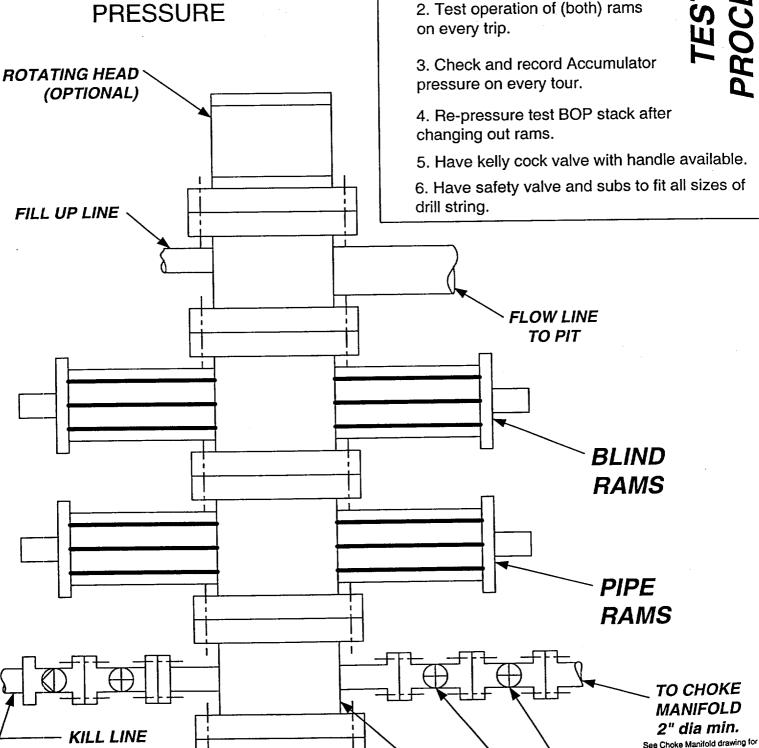
2" dia min.

Remove check or ball

from check valve and

press test to same press

as BOP's \*\*



**MUD CROSS** 

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

to 70% internal yield of surf csg

HCR VALVE (OPTIONAL

2" (MIN) FULL OPENING

VALVE