Form 3160-3 (July 1992)

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FORM APPROVED OMB NO. 1004-0136 pires: February 28, 1995

UNITED STATES	SUBMIT IN TRIPLICATE* (Other instructions on reverse side)	C Exp
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NMOCO

State of New Mexico

En y, Minerals & Natural Resources Department Revised February

Instructions on back

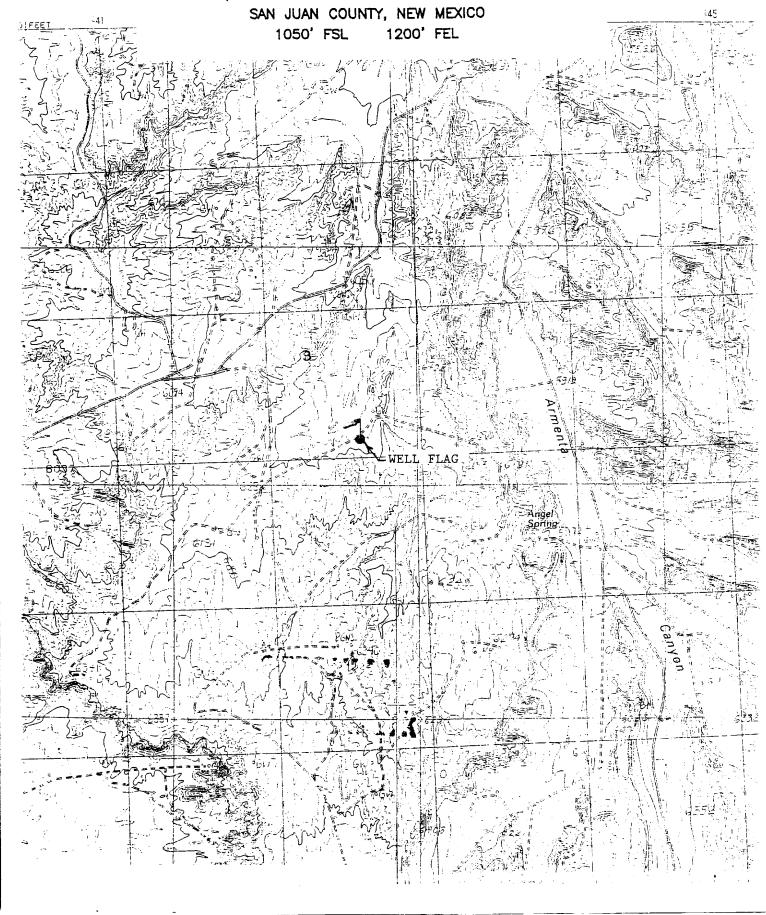
Supposite to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies DISTRICT : P.O. Box 1980, Hobbs, N.M. 88241-1980 DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719 MAY 2 1 2001 DISTRICT III 1000 Rio Brozos Rd., Axtec, N.M. 87410 P.O. Box 2088 Santa Fe, NM 87504-2088 AMENDED REPORT DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number ² Pool Code BASIN 71599 DA KOTA 0-045-30763 Well Number ⁸ Property Name 1E 27766 MARTIN "C" FEDERAL * Elevation *Operator Name 6086' CROSS TIMBERS OPERATING CO. 167067 ¹⁰ Surface Location East/West line County Feet from the North/South line Feet from the Lot Idn UL or lot no. Section Township Range SAN JUAN **EAST** SOUTH 1200' 1050' 27-N 10-W Р 3 Location If Different From Surface ¹¹ Bottom Hole East/West line County Feet from the North/South line Township Lot idn Feet from the Range Section UL or lot no. 14 Consolidation Code 16 Order No. 12 Dedicated Acres 3 Joint or Infill I 321,28 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 16 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief LOT 1 LOT LOT 3 LOT 4 0 Stanature JEFFREY DILOOM DIV ENGINEER DRILLING DIST. 3 Date FD 3 1/2" BC SURVEYOR CERTIFICATION G.L.O. 1913 18 certify that the-well-location shown on this plat ₹ S S , 00-13-(|2639.60' 270 LAT: 36'35'59" N. LONG: 107'52'41 W. 1200 120 14827 3 1/2" BC FD 3 1/2" BC N 89-44-41 2641.30'(R) Certificate Number &LO. 1913 G.L.O. 1913

CROSS TIMBERS OPERATING COMPANY MARTÍN "C" FEDERAL #1E

SE/4 SEC. 3, T-27-N, R-10-W, N.M.P.M.,



CROSS TIMBERS OPERATING COMPANY

"Martin "C" Federal #1E" **APD Data** July 30, 2001

Location: Sec 3, T27N R10W

County: San Juan

State: New Mexico

GREATEST PROJECTED TD: 6,925'

OBJECTIVE: Basin Dakota Est KB ELEV: 6,098' (12' AGL)

APPROX GR ELEV: 6,086

1. MUD PROGRAM:

INTERVAL	0' to 350'	350' to 4,500'	4,500' to TD
HOLE SIZE	12-1/4"	7-7/8"	7-7/8"
MUD TYPE	FW/Spud Mud	FW/Polymer	PolyPlus
WEIGHT	8.6-9.0	8.4-8.8	8.6-9.0
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC	NC	8-10

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

CASING PROGRAM:

Surface Casing:

8-5/8" casing to be set at ± 350 ' in 8.8 ppg mud

	<u> </u>						110					
		·			Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-350'	350'	24#	J-55	STC	1370	2950	244	8.097	7.972	7.32	7.95	29.39

Production Casing:

4-1/2" casing to be set at TD in 9.0 ppg mud.

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ſ	_					Coll	Burst						
١						Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
1	Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
ſ	0'-TD	6,925'	10.5#	J-55	STC	4010	4790	132	4.052	3.875	1.66	1.33	2.44

3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 4-1/2" 8rnd female thread on bottom, 8-5/8" 8rnd thread on top.

4. <u>CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):</u>

A. Surface:

8-5/8", 24#, J-55, STC casing to be set at \pm 350'. CIVC via \times

245 sx of Class "B" cement containing 2% CaCl₂, ¼ pps celloflake, mixed at 15.6 ppg, 1.18 ft³/sk, & 5.20 gal wtr/sk.

Total slurry volume is 289 ft³, 100% excess of calculated annular volume to 350'.

B. Production: 4-1/2", 10.5#, J-55, STC casing to be set at $\pm 6,925$ '.

515 sx of Lite-Crete cement (proprietary blend) containing ¼ pps celloflake mixed at 9.5 ppg, 2.52 ft³/sk, 11.50 gal wtr/sx followed by 200 sx 50/50 class "G" with poz, 6 % gel, 1/4#/sx cellofalke, 0.2% dispersant & 0.2% fluid loss additive mixed at 13.0 ppg, 1.42 cuft/sx, 9.85 gal/sx.

Total estimated slurry volume for the 4-1/2" production casing is 1,575 ft³ (no excess).

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 30%. It will be attempted to circulate cement to the surface.

5. LOGGING PROGRAM:

- A. Mud Logger: The mud logger will come on at 3,500' and will remain on the hole until TD. The mud will be logged in 10' intervals.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD to 5,000'.

