

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Cross Timbers Operating Company

3. ADDRESS AND TELEPHONE NO.

2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

1,390' FNL & 775' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

This well is located approx 24 southeast of the Bloomfield NM post office

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 775'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT. 95'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED

TO THIS WELL

W/320

19. PROPOSED DEPTH

6600'-

20. ROTARY OR CABLE TOOLS

0-6600' Rotary Tools

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5996'- Ground Level

22. APPROX. DATE WORK WILL START*

Oct. 2000

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24 #/ft	+350'	+ 245 sx c1 B cmt
7-7/8"	4-1/2" J-55	10.5 #/ft	+6600'-	+ 780 sx cmt

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.

OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

Cross Timbers plans to drill the above mentioned well as described in the enclosed Surface Use Program.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE Drilling Engineer

DATE 8/25/00

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

/s/ Jim Lovato

NMOC

OCT 30 2000

APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1992
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30045-30353	*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 22628	*Property Name P.O. PIPKEN	*Well Number 4R
*OGRID No. 167067	*Operator Name CROSS TIMBERS OPERATING COMPANY	*Elevation 5996'

¹⁰ Surface Location

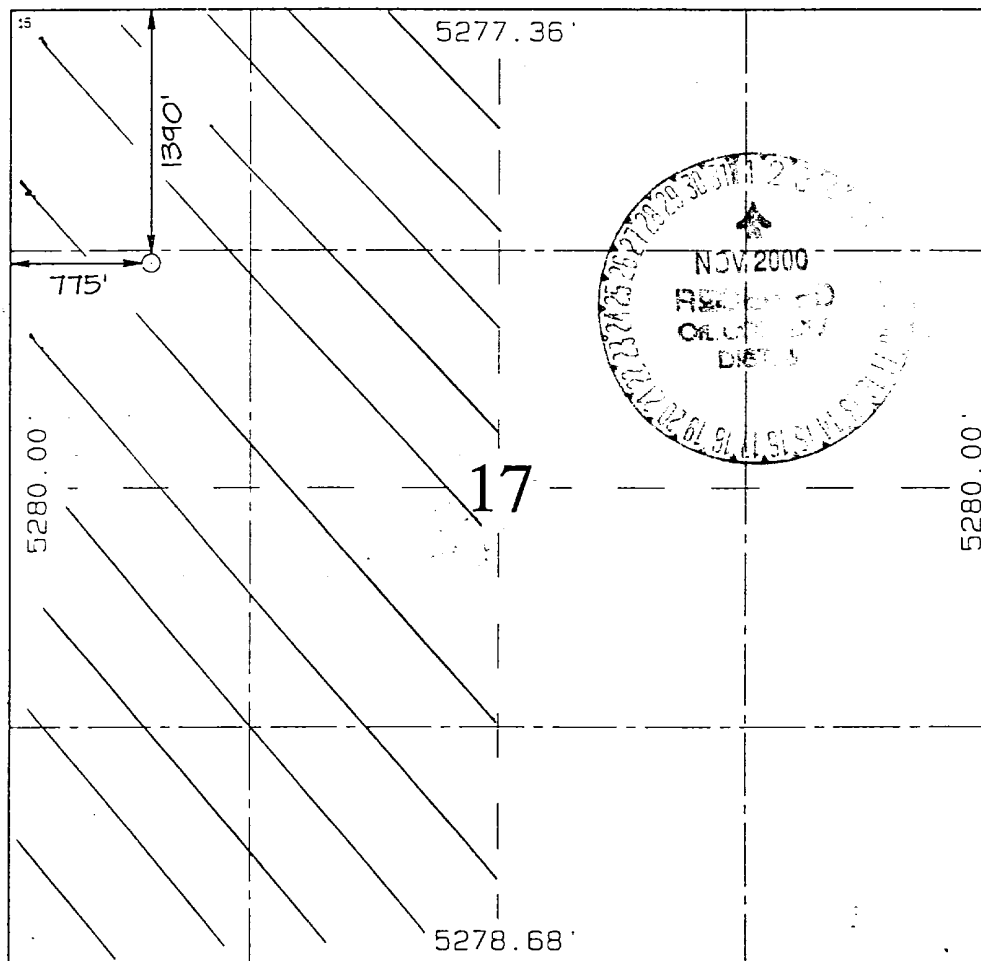
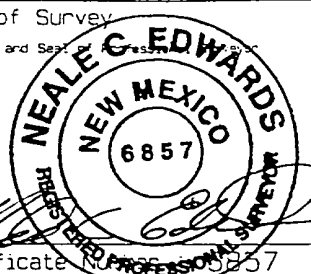
UL or lot no. E	Section 17	Township 27N	Range 10W	Lot Idn	Feet from the 1390	North/South line NORTH	Feet from the 775	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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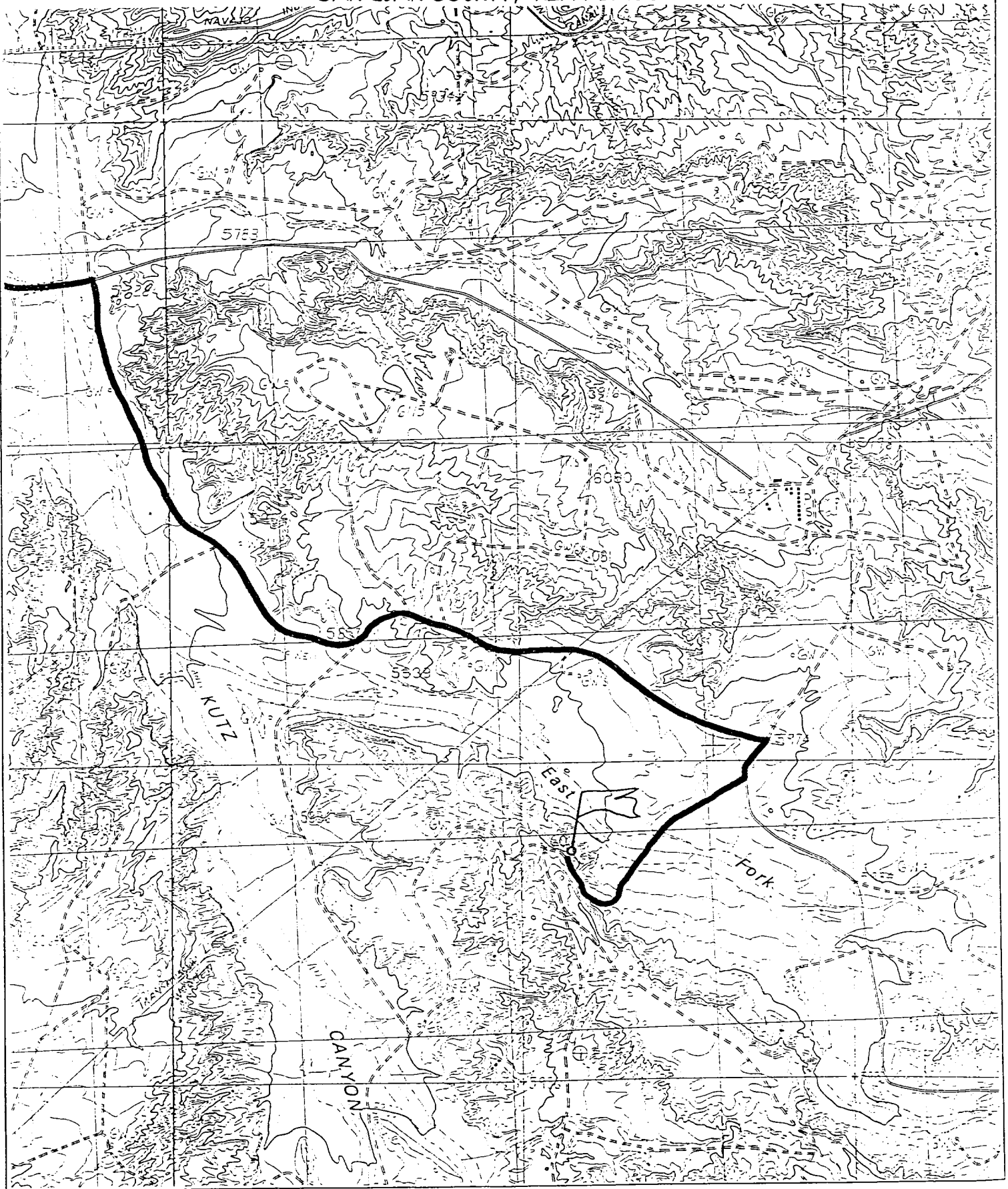
¹² Dedicated Acres w/2 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <i>Jeff Patton</i> Printed Name Jeff Patton Production Engineer Title Date 8/10/00
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. AUGUST 4, 2000 Date of Survey Signature and Seal  Certificate No. 6857

CROSS TIMBERS OPERATING COMPANY P.O. PIPKEN #4R

1390' FNL & 775' FWL, SECTION 17, T27N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO



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

A. Surface: 8-5/8", 24#, J-55, STC casing to be set at $\pm 350'$.

Lead: 245 sx of Class "B" cement containing 2% CaCl_2 , 1/4 pps celloflake, mixed at 15.6 ppg, 1.18 ft^3/sk , & 5.20 gal wtr/sk.

Total slurry volume is 289 ft^3 , 100% excess of calculated annular volume to 350'.

B. Production: 4-1/2", 10.5#, J-55, STC casing to be set at $\pm 7,025'$. DV Tool set @ $\pm 4,500'$.

1st Stage

Lead: 270 sx of Premium Lite HS (65% Type III, 355 poz & 6% gel), 1/4 pps celloflake, 10#/sx CSE, 6.25#/sx gilsonite and 1.3% FL-52/CD-32 mixed at 12.3 ppg, 2.14 ft^3/sk , 10.80 gal wtr/sx.

2nd Stage

Lead: 415 sx of Premium Lite HS (65% Type III, 355 poz & 6% gel), 1/4 pps celloflake, 10#/sx CSE, 6.25#/sx gilsonite and 1.3% FL-52/CD-32 mixed at 12.3 ppg, 2.14 ft^3/sk , 10.80 gal wtr/sx.

Tail: 100 sx of Type III cement containing 2% CaCl_2 & 1/4 pps D-29 (celloflake) mixed at 14.6 ppg, 1.39 ft^3/sk , 6.67 gal wtr/sx..

Total estimated slurry volume for the 4-1/2" production casing is 1,605 ft^3 (no excess).

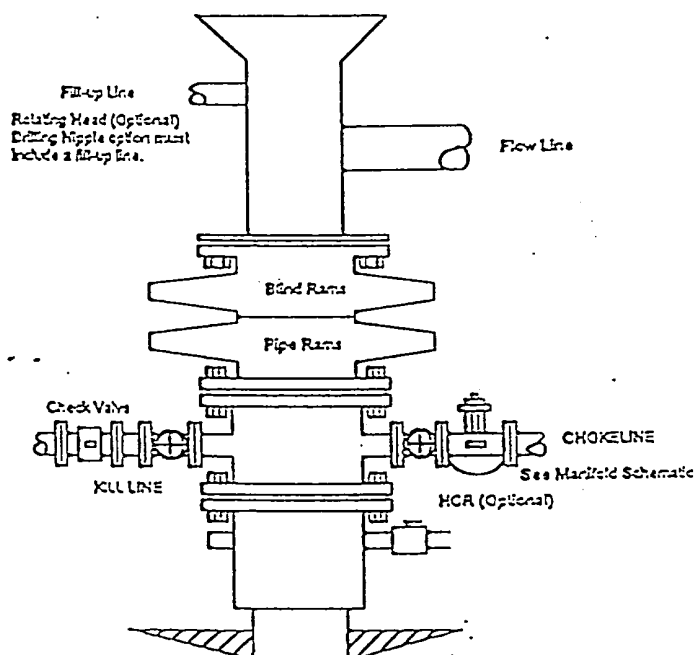
Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 40%. It will be attempted to circ cement to the DV Tool and to the surface.

5. LOGGING PROGRAM:

A. Mud Logger: There are no plans to use a mud logger at this time.

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'. Formation Micro Imager (FMI) will be run on most wells from TD to $\pm 6,000'$.

BOPE SCHEMATIC FOR DRILLING OPERATIONS
CLASS 1 - NORMAL PRESSURE
CROSS TIMBERS OPERATING COMPANY STANDARD



CHOKE MANIFOLD SCHEMATIC FOR DRILLING OPERATIONS
2M SERVICE
CROSS TIMBERS OPERATING COMPANY STANDARD

