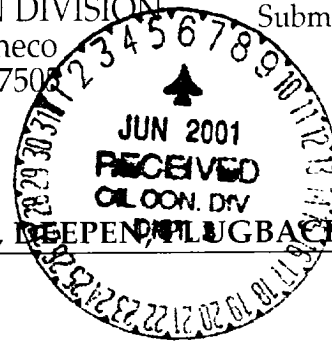


District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised October 18, 1999
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies



AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

¹ Operator name and Address Cross Timbers Operating Company 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401		² OGRID Number 167067
⁴ Property Code 38116	⁵ Property Name Hartman	³ API Number 30-0 45-30686
		⁶ Well No. #1R

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	28	29N	11W		1,210'	North	660'	West	San Juan

⁸ Proposed 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
⁹ Proposed Pool 1 Fletcher K+2 PC Aztec Pictured Cliffs					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 5,402'
¹⁶ Multiple No	¹⁷ Proposed Depth 1,800'	¹⁸ Formation Pictured Cliffs	¹⁹ Contractor Stewart Bros. Drlg	²⁰ Spud Date Before 7/01

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
8-3/4"	7"	20#, J-55, STC	200'	100	Surface
6-1/4"	4-1/2"	10.5#, J-55, STC	1,800'	200	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Surface Casing Cement Program. Approx 100 sx class "B" cmt w/2% CaCl₂ & 1/4#/sx celloflake (15.6 ppg, 1.18 cu ft). Circ cmt to surface.

Production Casing Cement Program. Approx 200 sx Premium Lite HS (65% cmt, 35% poz, 6% gel, 10#/sx CSE) cmt or equivalent w/2% CaCl₂ & 1/4#/sx celloflake (12.5 ppg, 2.07 cu ft). Exact cmt volume will be calculated from open hole caliper log plus 30%.

See enclosed diagram for BOP program.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>Jeffrey W Patton</i> 6/4/01		Approved by: <i>[Signature]</i>	
Printed name: Jeffrey W Patton 6/4/01		Title: DEPUTY OIL & GAS INSPECTOR, DIST. 8	
Title: Drilling Engineer		Approval Date: JUN - 6 2001 Expiration Date: JUN - 6 2002	

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
ge. Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

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

APR 18 2001

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-30686	² Pool Code 77200 71280	³ Pool Name Fulcher Kutz ATTEC FULTON CLIFFS
⁴ Property Code 28116	⁵ Property Name HARTMAN	⁶ Well Number 1R
⁷ GRID No. 167067	⁸ Operator Name CROSS TIMBERS OPERATING CO.	⁹ Elevation 5402'

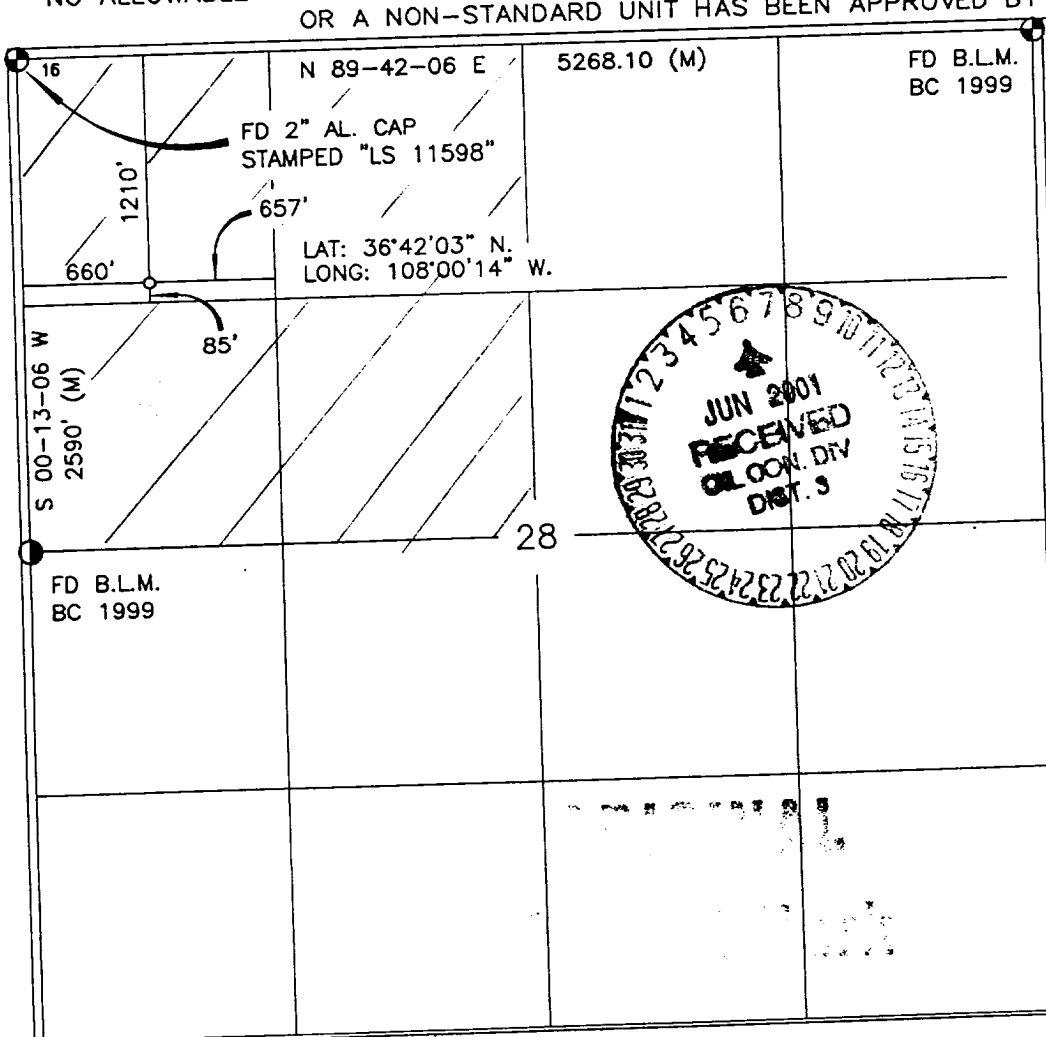
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	29-N	11-W		1210'	NORTH	660'	WEST	SAN JUAN

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
¹² Dedicated Acres 160.00 NW 1/4			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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



17 17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature: J. P. Patton
Printed Name: JERRY D. PATTON
Title: DRILLING ENGINEER
Date: 6-4-01

18 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.

Date of Survey: 4-16-01
Signature and Seal of Professional Surveyor: [Signature]
Certificate Number: 8894

CRCO'S TIMBERS OPERATING COMPANY
HARTMAN #1R
NW/4 SEC. 28, T-29-N, R-11-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
1210' FNL 660' FWL





Cross Timbers Operating Company

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

ROTATING HEAD
(OPTIONAL)

FILL UP LINE

FLOW LINE
TO PIT

BLIND
RAMS

PIPE
RAMS

KILL LINE
2" dia min.

TO CHOKE
MANIFOLD
2" dia min.

See Choke Manifold drawing for
specifications

HCR VALVE (OPTIONAL)

2" (MIN) FULL OPENING
VALVE

MUD CROSS

** Remove check or ball
from check valve and
press test to same press
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.

TESTING
PROCEDURE



Cross Timbers Operating Company

CHOKE MANIFOLD SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE

1. Stake all lines from choke manifold to pit.
2. Pressure test choke manifold after installation.
3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

TESTING PROCEDURE

