

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

COPY

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT-" for such proposals.

SUBMIT IN TRIPLICATE

5. LEASE DESIGNATION AND SERIAL NO.  
NM-019414

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. IF UNIT OR CA, AGREEMENT DESIGNATION

1. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ OTHER ☐

8. WELL NAME AND NO.

Federal Gas Com 1 #2

2. NAME OF OPERATOR

Cross Timbers Operating Company. (Loren W. Fothergill)

9. API WELL NO.

30-045-29816

3. ADDRESS AND TELEPHONE NO.

2700 Farmington Avenue, Bldg. K, Ste 1, Farmington, NM 87401-505-599-1090

10. FIELD AND POOL, OR EXPLORATORY AREA

Basin Fruitland Coal

4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description)

1000' FNL - 2320' FEL, Sec. 20, T32N-R12W B

11. COUNTY OR PARISH, STATE

San Juan County, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other: \_\_\_\_\_
- ☒ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached Revised Drilling Program. In summary the casing sizes have changed from 8 3/4" & and 4-1/2" to 9-5/8 and 7". Please refer to the attachment for further details.

14. I hereby certify that the foregoing is true and correct

SIGNED

*Debra Sittner*

TITLE Debra Sittner, As Agent for Cross Timbers DATE May 5, 1999

(This space for Federal or State office use)

APPROVED BY

*Jim Jacob*

TITLE Acting Team Lead DATE MAY 18 1999

Conditions of approval, if any:

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.

\* See Instruction on Reverse Side

NMOCD

**CROSS TIMBERS OPERATING COMPANY**  
**DRILLING PROCEDURE**  
**Federal Gas Com 1 #2**  
**May 4, 1999**

Location: 1000' FNL & 2320' FEL, Sec 20, T32N, R12W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,250' OBJECTIVE: Fruitland Coal GL ELEV: 5,928'

**1. MUD PROGRAM:**

INTERVAL	0' to 125'	125' to 2,100'	2,100' to TD
HOLE SIZE	12-1/4"	8-3/4"	8-3/4"
MUD TYPE	FW/Native	FW/Polymer	LSND
WEIGHT, ppg	8.6-9.0	8.8-9.1	8.8-9.1
VISCOSITY, scc/qt	28-35	28-32	30-38
WATER LOSS, cc	NC	NC	12-15

Remarks: Use fibrous materials as needed to control seepage and problematic lost circulation. Mix and pump polymer sweeps as needed for hole cleaning. Lowering the water loss and/or adding a hole stabilizing material can control sloughing problems.

**2. CASING PROGRAM:**

A. Surface Casing: 9-5/8" casing to be set at + 125' in 8.8 ppg mud.

Interval	Length	Weight	Grade	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt. Str (M-lbs)	Drift (in)	SF Coll	SF Burst	SF Tension
0'-125'	125'	32.3#	H-40	STC	1,370	2,300	241	8.845	9.99	20.5	59.7

Makeup torque for 9-5/8" 32.3#, H-40, STC casing: Optimum - 2,540 ft-lbs (Min - 1,910 ft-lbs, Max - 3,180 ft-lbs).

B. Production Casing: 7" casing to be set at ± 2,250' in 9.0 ppg mud.

Interval	Length	Weight	Grade	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt. Str (M-lbs)	Drift (in)	SF Coll	SF Burst	SF Tension
0'-TD	2,250'	20.0#	J-55	STC	2,270	3,740	234	6.331	2.16	1.66	5.20

Makeup torque for 7", 20.0#, J-55, STC casing: Optimum - 2,340 ft-lbs (Min - 1,760 ft-lbs, Max - 2,930 ft-lbs).

3. WELLHEAD:

Casinghead , Larkin Fig - 92 (or equivalent) 2,000 psig WP (4,000 psig test), 9-5/8" 8rd pin on bottom & 11-3/4" API Modified 8rd thread on top.

Tubinghead Larkin Fig 612 (or equivalent) 2,000 psig WP (4,000 psig test), 7" 8rd bottom thread and 8-5/8" 8rd API Modified top body thread, 6.456" minimum bore.

4. CEMENT PROGRAM:

A. Surface: 9-5/8", 32.30#, H-40, STC casing at 125'.

Lead: 65 sx of Class "B" cement w/ 2% CaCl<sub>2</sub> & 1/4 pps Celloflake (15.6 ppg, 1.18 cu.ft./sx). This is 100% excess of the calculated annular volume.

B. Production 7", 20.0#, J-55, STC casing at 2,250'

Lead: 185 sx of 35:65 Poz "B" cement w/ 6% Gel, 5 pps Gilsonite, & 1/4 pps Celloflake (12.9 ppg, 1.85 cu.ft./sx).

Tail: 150 sx of Class "B" cement w/ 5 pps Gilsonite, & 1/4 pps Celloflake (14.8 ppg, 1.33 cu.ft./sx). Use open hole caliper log plus 25% for actual cement volumes.

5. DRILLING HAZARDS:

H<sub>2</sub>S or other Poisonous Gases - Not known to exist in this area.

Abnormal Pressures - No overpressured zones are known to exist in this area. The anticipated maximum pressure in the Fruitland Coal formation is 200 psig.

Lost Circulation - The Fruitland Coal formation can be underpressured in the area and can be controlled with conventional lost circulation materials added to the mud system while drilling the well. This is not known to be a significant problem to drilling in this area.

6. LOGGING PROGRAM:

Open Hole Logging Company to be determined by Geologist.

Array Induction/GR/Cal From TD to bottom of surface casing.

CNL/LDT/GR/Cal/Pe From TD to 900'.

Run Porosity at high resolution speed up to 1,600'.

7. **FORMATION TOPS:**

Formation	Subsea Depth	Well Depth
Farmington Ss	+4,900'	1034'
Lower Kirtland Shale	+4,620'	1,314'
Fruitland Formation	+4,320'	1,614'
Fruitland Ss	+4,218'	1,716'
Upper Coal	+4,086'	1,848'
Middle Coal	+3,996'	1,938'
Lower Coal	+3,887'	2,047'
Pictured Cliffs Ss	+3,850'	2,084'
TD	+3,684'	2,250'

8. **COMPANY PERSONNEL:**

Geology	Gary Burch	Fl. Worth, TX	(817) 882-7273 (Office)
			(817) 572-4431 (Home)
Drilling Supervisor	Boogie Armes	Levelland, TX	(806) 894-8073 (Home)
			(915) 556-7403 (Cellular)
Drilling Manager	Bobby Smith	Midland, TX	(915) 682-8873 (Office)
			(915) 689-8839 (Home)

9. **SPECIAL INSTRUCTIONS:**

- A. Daily drilling reports should be called in to the Midland office at (915) 682-8873 or faxed to (915) 687-0862 by 8:00 a.m. Reports should be based upon the CTOC Daily Drilling Report form, as well as the Casing and Cementing Detail Form provided by CTOC.
- B. Deviation:  
Surface Hole: Maximum of 1° and not more than 1° change per 100'.  
Production hole: Maximum of 4° and not more than 1° change per 100'.  
**Note: Maximum distance between surveys is 500'.**
- C. Drill out below surface casing after WOC 12 hours. Drill cement and float equipment with minimum weight and RPM until drill collars are below bottom of surface casing. Keep location clean and water usage to a minimum.

- D. Check BOP blind rams each trip and pipe rams each day. Strap drill pipe on last bit trip prior to reaching TD.
- E. A trash trailer will be provided on each location. Keep trash picked up and the location as clean as possible. All drilling line, oil filters, etc. should be hauled away at the Drilling Contractor's expense. At the conclusion of the drilling operations, the contents of the trash trailer will be disposed of into a commercial sanitary landfill.
- F. The reserve pits, if used, will be lined with a 12 mil plastic liner in order to contain the drill cuttings and drilling fluids. At the conclusion of the drilling operations, if necessary, the free water in the reserve pits can be hauled away to a commercial disposal well and then the contents of the reserve pit will be buried in place and the pit covered with the original topsoil as much as possible.

B.L. Smith f  
5/4/99