

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

RECEIVED
(On front of this form or on reverse side)

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

MAY 31 2000

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

1,880' FNL & 2,150' FWL, Sec 2, T31N, R14W
At proposed prod. zone

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

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

490'

16. NO. OF ACRES IN LEASE

4,200

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

596'

19. PROPOSED DEPTH

2,625'

20. ROTARY OR CABLE TOOLS

Rotary

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

5,995' GL

22. APPROX. DATE WORK WILL START*

July 2000

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
3 7/8"	2-7/8", J-55	6.5	2,625'	30 sx Class "H" cement

It is proposed to deepen the subject well by approximately 135' to 2,625', abandon the Dakota perforations and complete the Morrison formation. A 3-7/8" hole will be drilled to 2,625' and a 2-7/8" liner will be set from approximately 2,150' to TD.

Current producing zone: Ute Dome Dakota (2,274' - 2,359')

Proposed producing zone: Ute Dome Morrison (interval to be determined by logs)

All work to be done within the boundaries of the existing road and well location pad. No new surface will be disturbed.

SEE ATTACHED
CONDITIONS OF APPROVAL

See attached drilling 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 Thomas DeLong (Prod Engineer)

DATE 5/25/2000

(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:

APPROVED BY

/s/ JOHN L. PECOR

TITLE

ACTING

DATE

*See Instructions On Reverse Side

MINERALS STAFF CHIEF

JUL 6 2000

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
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-102
Revised October 18, 199
Instructions on bac
Submit to Appropriate District O
State Lease - 4 Copie
Fee Lease - 3 Copie

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-29410	² Pool Code 97039	³ Pool Name Wildcat Ute Dome Mar 1996
⁴ Property Code 22645	⁵ Property Name Ute Indians A	⁶ Well Number 22
⁷ OGRID No. 167067	⁸ Operator Name Cross Timbers Operating Company	⁹ Elevation 5995' GL

¹⁰ Surface Location

UL or lot no. F	Section 2	Township 31N	Range 14W	Lot. Idn	Feet from the 1,880	North/South Line N	Feet from the 2,150	East/West line W	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
¹² Dedicated Acres 160	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

	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p></p> <p>Signature Thomas DeLong Printed Name Production Engineer Title 7/17/2000 Date</p>
	<p>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.</p> <p>7/5/1996 Date of Survey</p> <p>Signature and Seal of Professional Surveyer: originally signed by Gary D. Vann</p> <p>7016 Certificate Number</p>

CROSS TIMBERS OPERATING COMPANY

Ute Indians A #22

Drilling Program

May 25, 2000

Location: 2,150' FWL & 1,880' FNL, Sec 2, T31N, R14W

County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,625'
GR ELEV: 5,995'

OBJECTIVE: Morrison
KB ELEV: 6,005' (10' AGL)

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

The top of the Morrison was penetrated in the original wellbore at 2,372'. The entire new hole (2,490' to 2,625') will be in the Morrison formation.

2. ESTIMATED DEPTHS OF WATER, OIL AND GAS FORMATIONS:

The only formation to be drilled is the Morrison. It will be isolated with a 2-7/8" cemented liner. All other formations are isolated with 4-1/2" casing string set at 2,474' and cemented back to surface. The current Dakota perforations (2,274'-2,357') will be isolated and abandoned with the running and cementing of the 2-7/8" liner.

3. PRESSURE CONTROL EQUIPMENT:

See attached diagram. BOP equipment will be tested prior to drilling. Pipe rams will be tested daily and blind rams on each trip.

4. SUPPLEMENTAL INFORMATION TO DRILLING AND CASING PROGRAMS:

Casing Program: (2-7/8" liner from 2,150' to 2,625')

TIH w/2-7/8" guide shoe, 1 joint 2-7/8", 6.5#, J-55, EUE, 8rd tubing, 2-7/8" Omega latch down baffle, ±15 joints 2-7/8", 6.5#, J-55, EUE, 8rd tubing (448'), left hand safety joint (Baker Product # 441-01) & ±67 joints 2-7/8", 6.5#, J-55, EUE, 8rd tubing. Install 1 – 2-7/8" centralizers on joints 1, 5, 10, & 15. Set 2-7/8", 6.5#, J-55, EUE tubing @ 2,625' KB. Cement tubing w/10 barrels Mud Clean II followed by 30 sacks Class "H" cement w/2% CaCl₂ & 0.4% FL-52. WOC 30 minutes. Release safety joint. Circulate cement to surface. TOH & LD 2-7/8" tubing. WOC 12 hrs.

5. MUD PROGRAM:

The new hole (2,490'-2,625') will be drilled with an air-foam mixture. At TD the hole will be circulated with water prior to running open hole logs. Polymer sweeps will be pumped if needed for hole cleaning.

6. ANTICIPATED TESTING, LOGGING AND CORING:

No drill stem tests, mud logging or cores are planned. It is planned to run a High Resolution Induction, Spectral Density and a Dual Spaced Neutron open hole logs from TD to bottom of the 4-1/2" casing (2,475').

7. **ANTICIPATED BOTTOM HOLE PRESSURES AND POTENTIAL HAZARDS:**

The Morrison formation is not expected to be over pressured. No hazards, including Hydrogen Sulfide, are anticipated during the deepening operation.

8. **OTHER INFORMATION:**

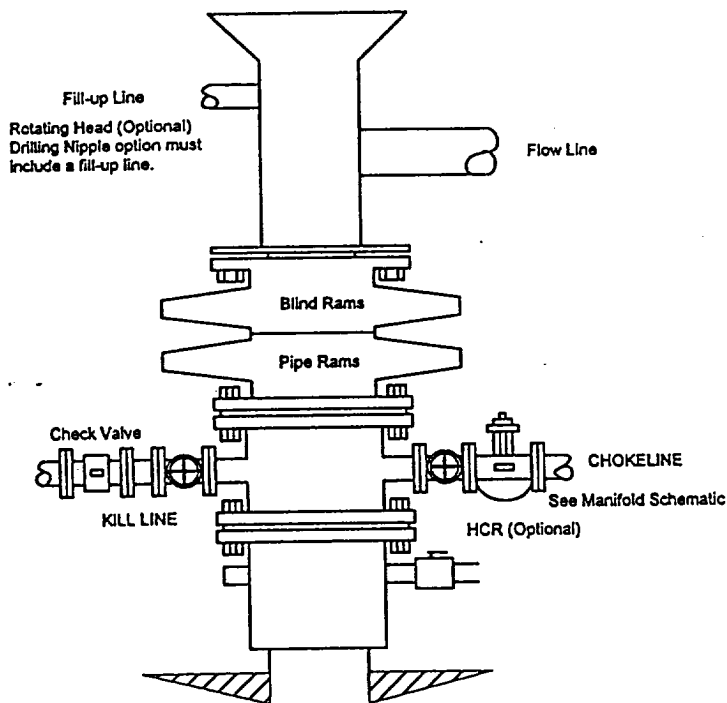
9. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
Tom DeLong	Operations Engineer	505-324-1090	505-564-3240
Jim Baker	Production Foreman	505-632-5200	
Randy Hosey	Project Geologist	817-885-2398	
Barry Voigt	Reservoir Engineer	817-870-8462	817-540-2092
Larry Babcock	Materials Coordinator	505-632-5200	505-564-5410 pager

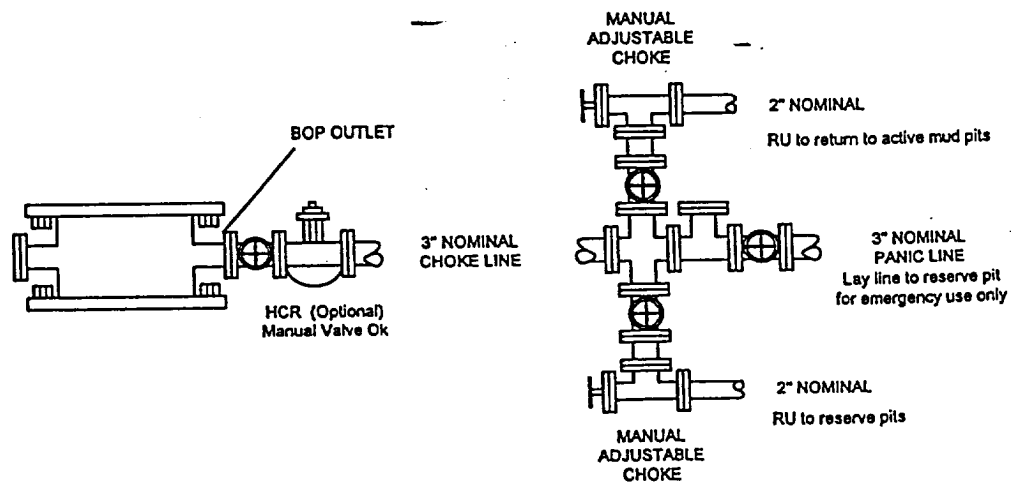
10. **SPECIAL INSTRUCTIONS:**

- A. Drilling reports should be faxed to the Farmington office (505) 564-6700 by 8:00 a.m. daily. Reports should be filled out on the CTOC Drilling Report form, and the Casing/Cementing Detail Forms provided.
- B. Check BOP blind rams each trip and pipe rams each day. Strap out of hole for logging.
- C. A trash trailer will be provided on 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 drilling operations, the contents of the trash trailer will be disposed of into a commercial sanitary landfill.
- D. The small working pit should be lined with a 12 mil plastic liner in order to contain the drill cuttings and drilling fluids.

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



UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-604-62
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Mountain Utes
2. NAME OF OPERATOR Amoco Production Company Attention: Patty Haefele		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. P.O. Box 800, Denver, Colorado 80201 (303) 830-4988		8. FARM OR LEASE NAME, WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At surface 1880' FNL 2150' FWL Unit F At proposed prod. zone		9. API WELL NO.
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 30 miles from Farmington, NM		10. FIELD AND POOL, OR WILDCAT Ute Dome Dakota
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any)	16. NO. OF ACRES IN LEASE 4200	17. NO. OF ACRES ASSIGNED TO THIS WELL 160
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 2470'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR., etc.) 5995' GR		22. APPROX. DATE WORK WILL START* 09-01-96

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8.75"	7.000" J-55	20#	350'	110 cu.ft. Std. cement, circ to surface
8.25"	4.500" J-55	11.8#	2470'	310 cu.ft 50/50 std cmt, tail w/ 86 cu.ft., circ to surface

Notice of Staking submitted on 7/16/96 as the Ute Indians A #22.

Lease Description:

T31N R14W: Sec 2: all, Sec 3: E/2, Sec 10: N/ENE/4, Sec 11: NW/4NW/4

T32N R14W: Sec 25: SW/4 NE/4 & S/2 NW/4 & NW/4 NW/4 & SW/4 & W/2 SE/4

Sec 26: all, Sec 27: SE/4, Sec 34: all, Sec 35: all, Sec 36: all

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to these rights in the subject lease

Venting / Flaring approved for 30 days per NTL-4A

APPROVED FOR A PERIOD NOT TO EXCEED 1 YEAR.

SEE ATTACHED
CONDITIONS OF APPROVAL

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 Patty Haefele TITLE Staff Assistant DATE 07-24-1996

(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:
APPROVED BY [Signature] TITLE Area Manager DATE 10-10-96
SRBU PERMITTING

*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.

Cross Timbers Operating Company
Tribal Lease: 14-20-604-62
Well: Ute Indians A #22
Location: 1880' FNL & 2150' FWL
Sec. 2, T. 31 N., R. 14 W.
San Juan County, New Mexico

Conditions of Approval - Drilling Plan:

1. Stabilized Bottom hole pressures must be taken for the Morrison formation. This pressure monitoring will take place within 30 days after the onset of production after the well has cleaned up.
2. No additional zones will be commingled without UMU Tribal and BLM approval.
3. Reservoir analysis must be conducted. This plan must be approved by the and the UMU Tribe and BLM prior to implementation.
4. Well File Information: The operator will provide to the BLM **and** UMU Tribe the following information (as acquired, and as applicable) to insure complete well files are constructed for the approved well deepening:
 - a. Logs - field prints
 - b. Drill Stem tests - field data
 - c. Core analysis - field data
 - d. Logs - final prints
 - e. Drill Stem tests - final prints
 - f. Core analysis - final prints
 - g. Revised Structure and Isopach maps (if available)
 - h. Location Plat
 - i. Drilling Summary and Daily Drilling Report
 - j. Directional Survey
 - k. Geological Report
 - l. Completion Data
 - m. Production Test Data (AOF Potential, GOR, etc.)
 - n. 30 Day Production Test Record
 - o. Bottom Hole Pressure Surveys
 - p. Gas, Oil, and/or Water Analysis
 - q. State and Federal Completion Reports
 - r. Additional Government Permits, Reports, as Requested
 - s. Drilling Contract
 - t. Operating Agreement
 - u. Gas Sales Contract

- v. Plug and Abandon Reports
- w. State and Federal Monthly Production Reports
- x. Other Information Requested by the UMU Tribe or the BLM

5. Notify this office during working hours **at least 48 hours** prior to:

- a. deepening the well*
- b. running casing strings and cementing
- c. BOP tests
- d. Drill Stem testing

* at this time provide phone numbers for the rig and your field representative (mobile and office) to facilitate the scheduling of BLM Technicians to witness the above operations.

6. All BOP tests will be performed with a test plug in place. BOP will be tested to full stack working pressure and annular preventer to 50% maximum stack working pressure. All accumulators will be function tested as per Onshore Order #2. All 2M or greater systems require **adjustable** chokes as per Onshore Order #2.

7. If a BLM Inspector is not present during the initial BOP test, please provide chart record.

8. Submit copies of all logs to the BLM office in both paper and in Log ASCII Standard (LAS) format.

9. If any operations are to start over the weekend, notify this office by noon Friday. If any problems arise after hours or on weekends, call BLM personnel using the home phone numbers listed on the following 'INFORMATIONAL NOTICE - APD's'.