

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

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

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

167067

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

1,610' FNL & 1,910' FEL

At proposed prod. zone

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

Approx 17 miles south of the Blanco, NM Post Office

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 1,610'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

835'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED

TO THIS WELL

320

E12

19. PROPOSED DEPTH

2,175' -

20. ROTARY OR CABLE TOOLS

Rotary Tools

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

6,082' GL

22. APPROX. DATE WORK WILL START*

July 2001

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7", J-55	20.0#	200'	75 sx Type III cmt, circ to surface
6-1/4"	4-1/2", J-55	10.5#	2,175' -	220 sx Premium Lite cmt. - circ.

This application is subject to 43 CFR 3160.3
procedures review pursuant to 43 CFR 3160.3
and appeal pursuant to 43 CFR 3160.4.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 10/1/01 BY 60322 UCBAW/MLK

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

W. P. Patton

TITLE

Drilling Engineer

DATE

3/28/01

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

6/8/01

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/ Lee Ottani

TITLE

*See Instructions On Reverse Side

DATE

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 the jurisdiction.

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

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

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-1C
Revised February 21, 1994

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

REC'D / SAN JUAN

DEC 14 2000

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-30627	² Pool Code	³ Pool Name
⁴ Property Code 28096	⁵ Property Name BOLACK C	⁶ Well Number 18
⁷ DGRD No. 167067	⁸ Operator Name CROSS TIMBERS OPERATING CO.	⁹ Elevation 6082'

¹⁰ Surface Location

UL or lot no. G	Section 31	Township 27-N	Range 8-W	Lot Idn	Feet from the 1610'	North/South line NORTH	Feet from the 1910'	East/West line EAST	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	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	FD 3 1/2" BC B.L.M. 1955	N 87-11-21 W 2576.26' (M)	FD 3 1/2" BC B.L.M. 1955	17	OPERATOR CERTIFICATION	
LOT 1					I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
		1610'			Signature <u>Jeffrey W. Patton</u>	
LOT 2					Printed Name <u>JEFFREY W. PATTON</u>	
		LAT: 36°32.0' N. LONG: 107°43.2' W.			Title <u>DRILLING ENGINEER</u>	
					Date <u>12/14/00</u>	
LOT 3					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 <u>12-14-00</u>	
					Signature and Seal of Professional Surveyor <u>[Signature]</u>	
LOT 4					8894	
					Certificate Number	

CROSS TIMBERS OPERATING COMPANY

BOLACK C #18

NE/4 SEC. 31, T-27-N, R-8-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

1610' FNL

1910' FEL



3. **WELLHEAD:**

Casinghead: Larkin Fig 92 (or equivalent) 2,000 psig WP (4,000 psig test) with 7", 8rd pin on bottom and 8-5/8" API Modified 8rd thread on top.

Tubinghead: Larkin Model 612 (or equivalent) 2,000 psig WP (4,000 psig test) with 4-1/2", 8rd bottom thread and 8-5/8" 8rd API Modified top body thread, 4.090" minimum bore.

4. **CEMENT PROGRAM:**

A. **Surface:** 7", 20#, J-55, STC casing at $\pm 200'$.

Lead: 75 sx Type III cement (or equivalent) containing 1/4 pps celloflake, 2% CaCl_2 (mixed at 14.6 ppg, 1.39 ft^3/sk , 6.67 gal wtr/sk).

Total slurry volume is 104.25 ft^3 , 250% excess of calculated annular volume required to circulate cement to surface. ✓

B. **Production:** 4-1/2", 10.5#, J-55, STC casing at $\pm 2,175'$.

Lead: 220* sx of 35:65 Poz/Type III cement containing 10 PPS CSE, 2% CaCl_2 , 1/4 PPS Celloflake, 0.65% bwoc FL-62, 6% gel (mixed at 12.5 ppg, 2.07 ft^3/sk , 10.95 gal wtr/sk).

Total estimated slurry volume is 455 ft^3 , 100% excess of calculated annular volume required to circulate cement to surface. ✓

* Actual cement volumes will be determined using log caliper volume plus 30% excess.

5. **DRILLING HAZARDS:**

- H_2S or other Poisonous Gases: No formations known to contain H_2S or any other poisonous gases will be penetrated with this wellbore.
- Abnormal Pressures: No overpressured zones are known to exist or are anticipated to be encountered during the drilling of this well.
- Lost Circulation: Seepage and/or lost circulation may be encountered below surface casing and can be controlled with conventional lost circulation materials added to the mud system.

6. **LOGGING PROGRAM:**

Array Induction/DFL/GR/SP/Cal
DSN/Spectral Density/GR/Cal/Pe

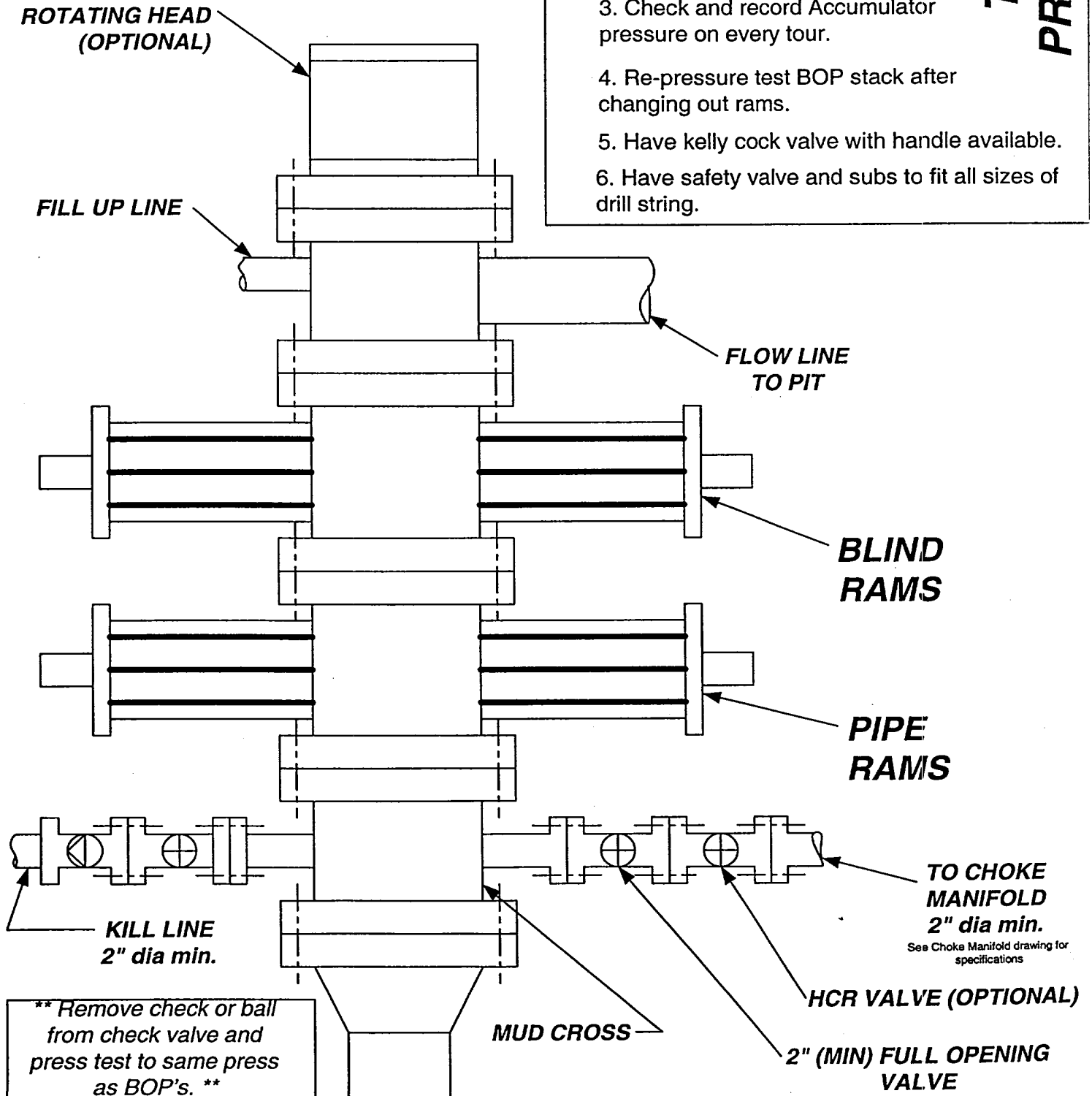
TD to bottom of surf csg.
TD to 1600' & 1000' to 700'

No mud logger to be used on this well.



Cross Timbers Operating Company

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



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