Form 3160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: SF - 078480

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: 72662

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME, WELL NO.: Dawson Federal #1B

2. NAME OF OPERATOR: Cross Timbers Operating Company

9. API WELL NO.: 30-045-30886

3. ADDRESS AND TELEPHONE NO.: 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401

10. FIELD AND POOL, OR WILDCAT: Blanco Mesaverde

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2,420' FNL & 950' FWL Sec 26, T27N, R08W
At proposed prod. zone: 1,900' FSL & 660' FWL Sec 26, T27N, R08W

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: E Sec 26, T27N, R08W

12. COUNTY OR PARISH: San Juan

13. STATE: NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx 24 miles south down Largo Canyon from 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)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
950'	320	320 W/2
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
1,050'	4,975'	0'-4,975' w/Rotary Tools

21. ELEVATIONS (Show whether DF,RT, GR, etc.): 6,019' Ground Level

22. APPROX. DATE WORK WILL START*: Nov. 2001

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#	365'	215 sx Cl "B"
7-7/8"	4-1/2", J-55	10.5#	4,975'	800 sx Premium Lite FM

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

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

HOLD C104 for directional survey

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposalis to deepen, give dataon presentproductivezone and proposednew productivezone. If proposalis 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 JW Patton TITLE Drilling Engineer DATE 10/19/01

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE 11/16/01

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/ Matthew Kade TITLE AFM DATE 11/16/01

*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.

NMOCD

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
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-045-30886	72319	BLANCO MESA VERDE

4 Property Code	5 Property Name	6 Well Number
22602	DAWSON FEDERAL	18

7 OGRID No.	8 Operator Name	9 Elevation
167067	XTO ENERGY INC.	6019'

10 Surface Location

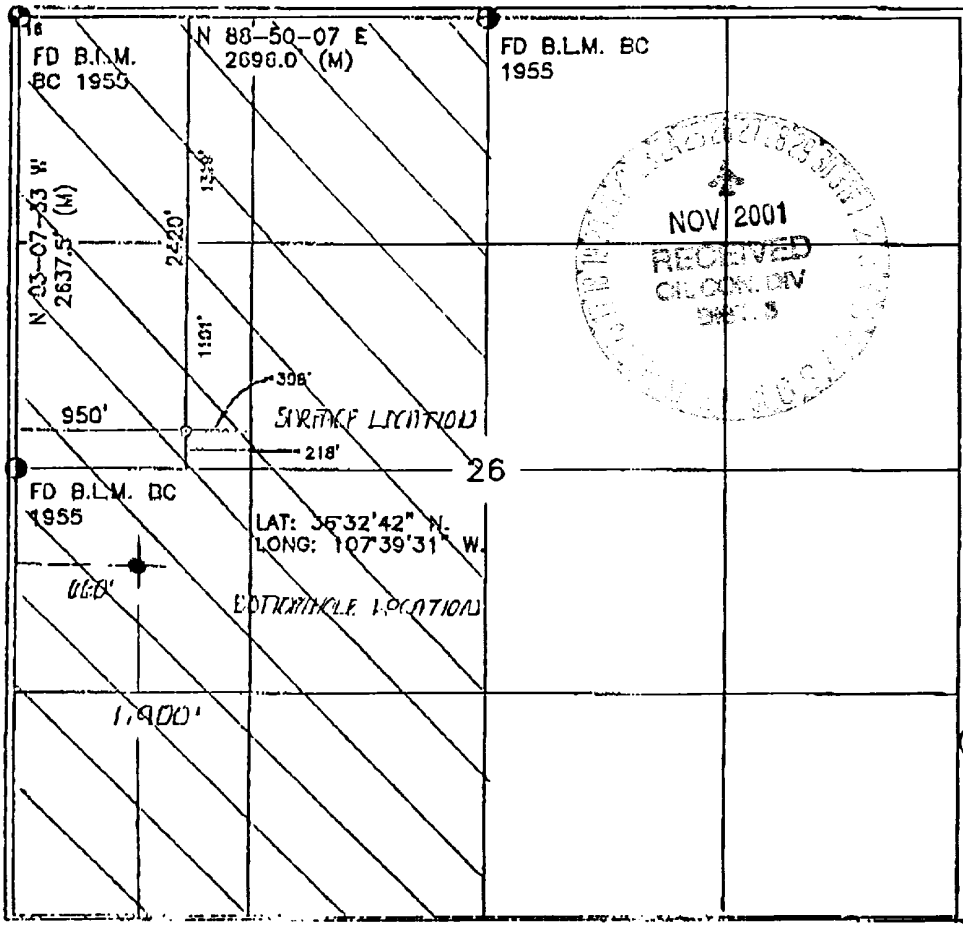
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	26	27-N	8-W		2420'	NORTH	950'	WEST	SAN JUAN

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
L	26	27-N	8-W		1700'	SOUTH	660'	WEST	SAN JUAN

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320 W/2	I		

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 OPERATOR CERTIFICATION

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

Signature: J W Patton

Printed Name: JEFFREY W PATTON

Title: DRILLING ENGINEER

Date: 10-19-01

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: 6-13

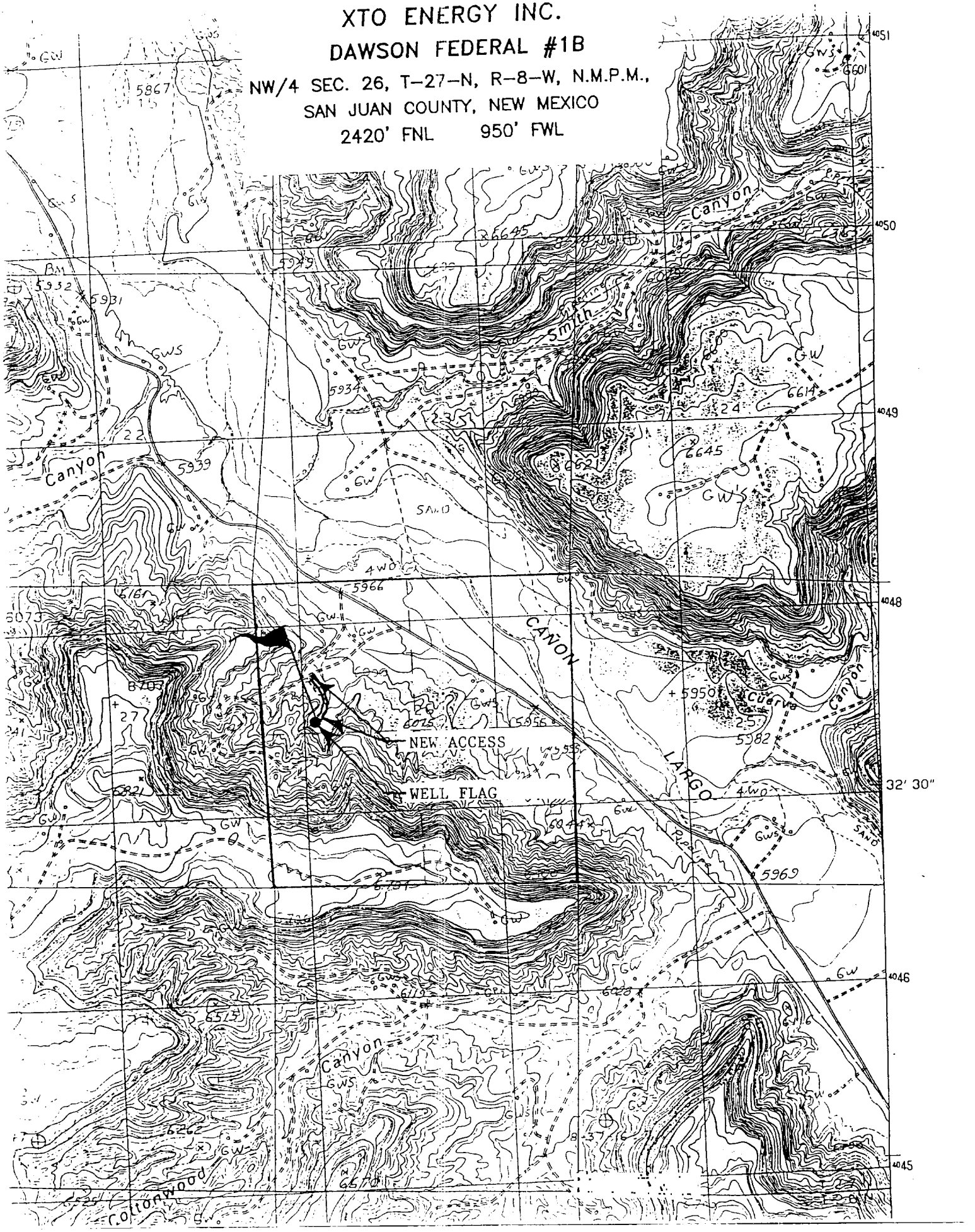
Signature and Seal of Professional Surveyor: NEW MEXICO, RUSH, 8894, REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number: 8894

XTO ENERGY INC.

DAWSON FEDERAL #1B

NW/4 SEC. 26, T-27-N, R-8-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
2420' FNL 950' FWL



XTO ENERGY INC.

DAWSON FEDERAL #1B

APD Data

October 19, 2001

Location: Surface: 2,420' FNL & 950' FWL, Sec 26, T27N, R08W **County**: San Juan **State**: New Mexico
Approx Bottomhole: 1,900' FSL & 660' FWL

PROJECTED TOTAL DEPTH: ±4,975'
GR ELEV: 6,019'

OBJECTIVE: Mesaverde
Est KB ELEV: 6,031 (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 370'	370' to 3,500'	3,500' to TD
HOLE SIZE	12-1/4"	7-7/8"	7-7/8"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND
WEIGHT	8.6-9.0	8.4-8.8	8.6-9.0
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC	NC	8-10

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pre-treat with 20% LCM @ 3,500'. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity (>85 sec) at TD for logging. Reduce viscosity after logging for cementing purposes.

2. CASING PROGRAM:

Surface Casing: 8-5/8" casing to be set at ± 365' in 8.8 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-370'	365'	24#	J-55	STC	1370	2950	244	8.097	7.972	7.32	7.95	29.39

Production Casing: 4-1/2" casing to be set at TD in 9.0 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-TD	4,975'	10.5#	J-55	STC	4010	4790	132	4.052	3.875	1.66	1.33	2.44

3. WELLHEAD:

A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 4-1/2" 8rnd female thread on bottom, 8-5/8" 8rnd thread on top.

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 ± 365'.

Lead: 215 sx of Type III cement containing 2% $CaCl_2$, ¼ pps celloflake, mixed at 14.6 ppg, 1.41 ft^3/sk, & 6.30 gal wtr/sk.

Total slurry volume is 303 ft^3, ±100% excess of calculated annular volume to 365'.

B. Production: 4-1/2", 10.5#, J-55, STC casing to be set at ±4,975'.

Lead: 800 sx of Premiun Lite FM (65%/35%/6%) with 2% KCl, 1/4#/sx celloflake, 0.35% dispersant, 0.25% fluidloss additive & 5 #/sx gilsonite mixed at 12.5 ppg, 2.00 cuft/sx & 10.7 gals/sx water.

Total estimated slurry volume (including 40% excess) for the 4-1/2" production casing is 1,600 ft^3.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 40%. If lost circulation occurs whie drilling, the cement procedure may require the use of a DV Tool located at ±3,700'. The same cement slurry will be used as stated above. Only the volume will be changed. We will attempt to circulated cement to surface.

5. DIRECTIONAL DRILLING PROGRAM

The well will be drilled from a surface location at 2,420' FNL & 950' FWL to a bottomhole target located at 1,900' FSL & 660' FWL in the same section (26). It is proposed that the well be drill using a build and hold type of curve. The directional drilling tools will KO at 700' TVD. The wellbore will be turned towards the target over a distance of 1,300. At this point, the directional drilling tools will continue on a straight line at an angle of ±15.5 deg. to the target. During the directional drilling process, the exact location of the bit will be recorded using MWD tools. The approx. TD of the well will be 4,975' MD (distance along the wellbore), 4,958' TVD (vertical distance down), 993' closure (step), 15.5 deg inclination and 197 deg azimuth.

5. LOGGING PROGRAM:

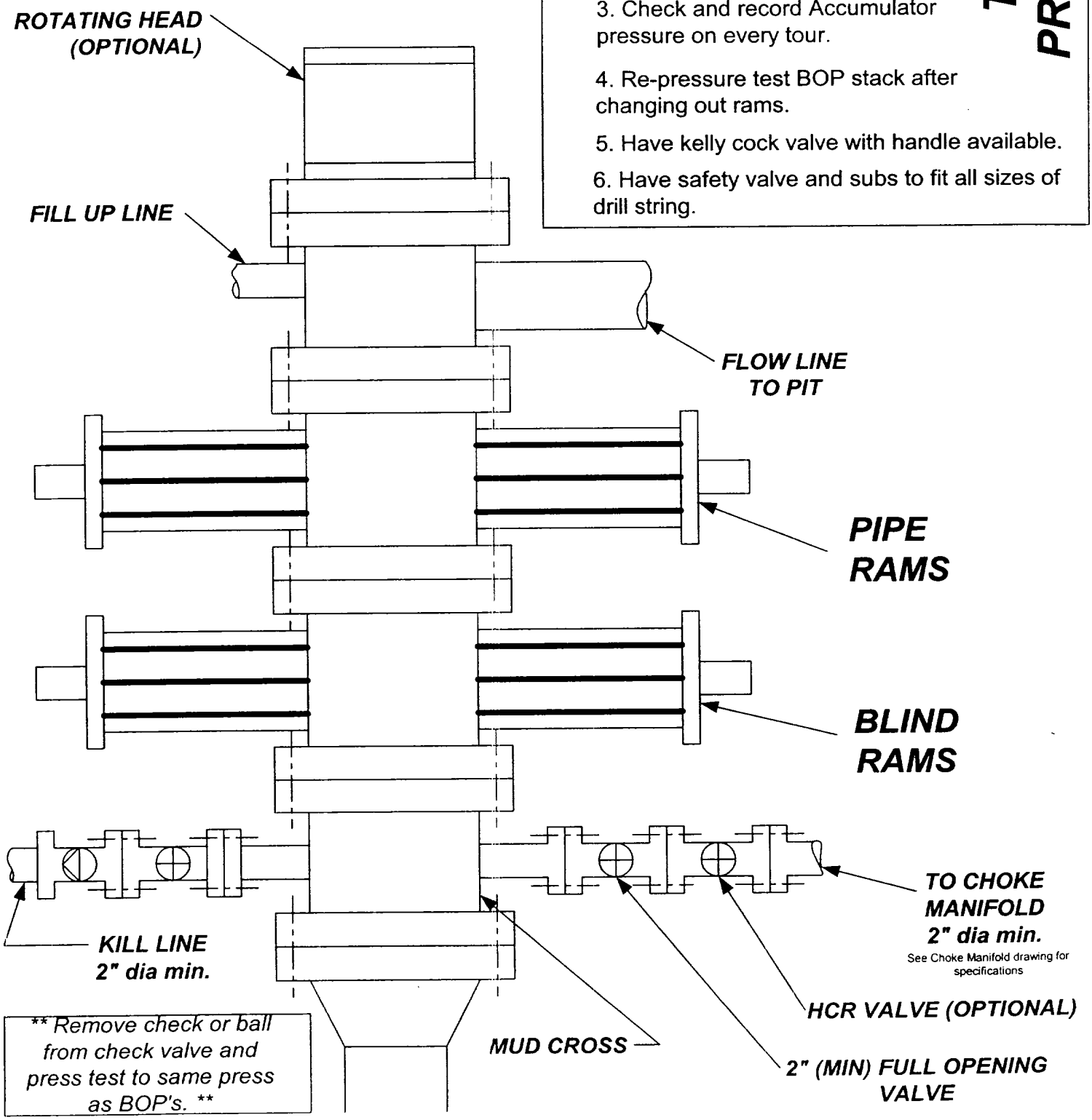
A. Mud Logger: A 2-man mud logging unit will come on the hole @ 3,500' and will remain on the hole until TD.

B. Open Hole Logs as follows: Run Dual Induction/SFL/GR/SP fr/TD (±4,975') to the bottom of the surface csg. Run CNL/LDT (Lithodensity)/GR/Cal and Pe from TD to 3,500'.

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

TESTING PROCEDURE

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.



** Remove check or ball from check valve and press test to same press as BOP's. **