

HEAD / SAN JUAN

DEC - 9 2002

**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

XTO Energy Inc.

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

660' FNL & 2100' FEL Sec 31, T27N, R08W

At proposed prod. zone

660' FNL & 1,915' FEL Sec 31, T27N, R08W

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

Approx 24 air 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) 660'

16. NO. OF ACRES IN LEASE

+3,200

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 MV

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

855'

19. PROPOSED DEPTH

4,775' MD

20. ROTARY OR CABLE TOOLS

0'-4,775' w/Rotary Tools

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

6,090' Ground Level

22. APPROX. DATE WORK WILL START*

Summer 2002

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#	220'	150 sx Type III
7-7/8"	4-1/2", J-55	10.5#	4,775'	575 sx Premium Lite cement

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

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

XTO Energy Inc. plans to drill the above mentioned well as described in the enclosed Surface Use Program.

Please note that this application also includes the El Paso pipeline plat for ROW.

APD / ROW

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposals to deepen, give data on present productive zone and proposed new productive zone. If proposals to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. If blowout preventer program, if any.

24.

SIGNED

TITLE Drilling EngineerDATE 5/23/02

(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 _____

TITLE _____

DATE _____

*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.

NMOC

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 Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Department of Minerals & Natural Resources

OIL CONSERVATION DIVISION

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

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31115	² Pool Code 72319	³ Pool Name BLANCO MESA UERDE
⁴ Property Code 28096	⁵ Property Name BOLACK C	⁶ Well Number 9B
⁷ GRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6090'

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
B	31	27-N	8-W		660	NORTH	2100	EAST	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
B	31	27-N	8-W		660	NORTH	1915	EAST	SAN JUAN
¹² Dedicated Acres 320 E/2		¹³ Joint or Infill I		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

<div>16</div> <div>LOT 1</div> <div>LOT 2</div> <div>LOT 3</div> <div>LOT 4</div>	<div>QTR. CORNER FD 2 1/2" BC GLO 1955</div> <div>DEC 2002 RECEIVED OIL CONS. DIV. DIST. 3</div> <div>QTR. CORNER FD 2 1/2" BC GLO 1955</div>		<div>17</div> <div>OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div>Signature JEFFREY W PATTON</div> <div>Printed Name DRILLING ENGINEER</div> <div>Title 5-23-02</div> <div>Date</div>	
	<div>QTR. CORNER FD 2 1/2" BC GLO 1955</div> <div>QTR. CORNER FD 2 1/2" BC GLO 1955</div>		<div>18</div> <div>SURVEYOR CERTIFICATION</div> <div>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.</div> <div>Date of Survey 8-7-02</div> <div>Signature and Seal of Registered Professional Surveyor ROY A. RUSH</div> <div>Certificate Number 8894</div>	
	<div>QTR. CORNER FD 2 1/2" BC GLO 1955</div> <div>QTR. CORNER FD 2 1/2" BC GLO 1955</div>		<div>QTR. CORNER FD 2 1/2" BC GLO 1955</div> <div>QTR. CORNER FD 2 1/2" BC GLO 1955</div>	
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XTO ENERGY INC

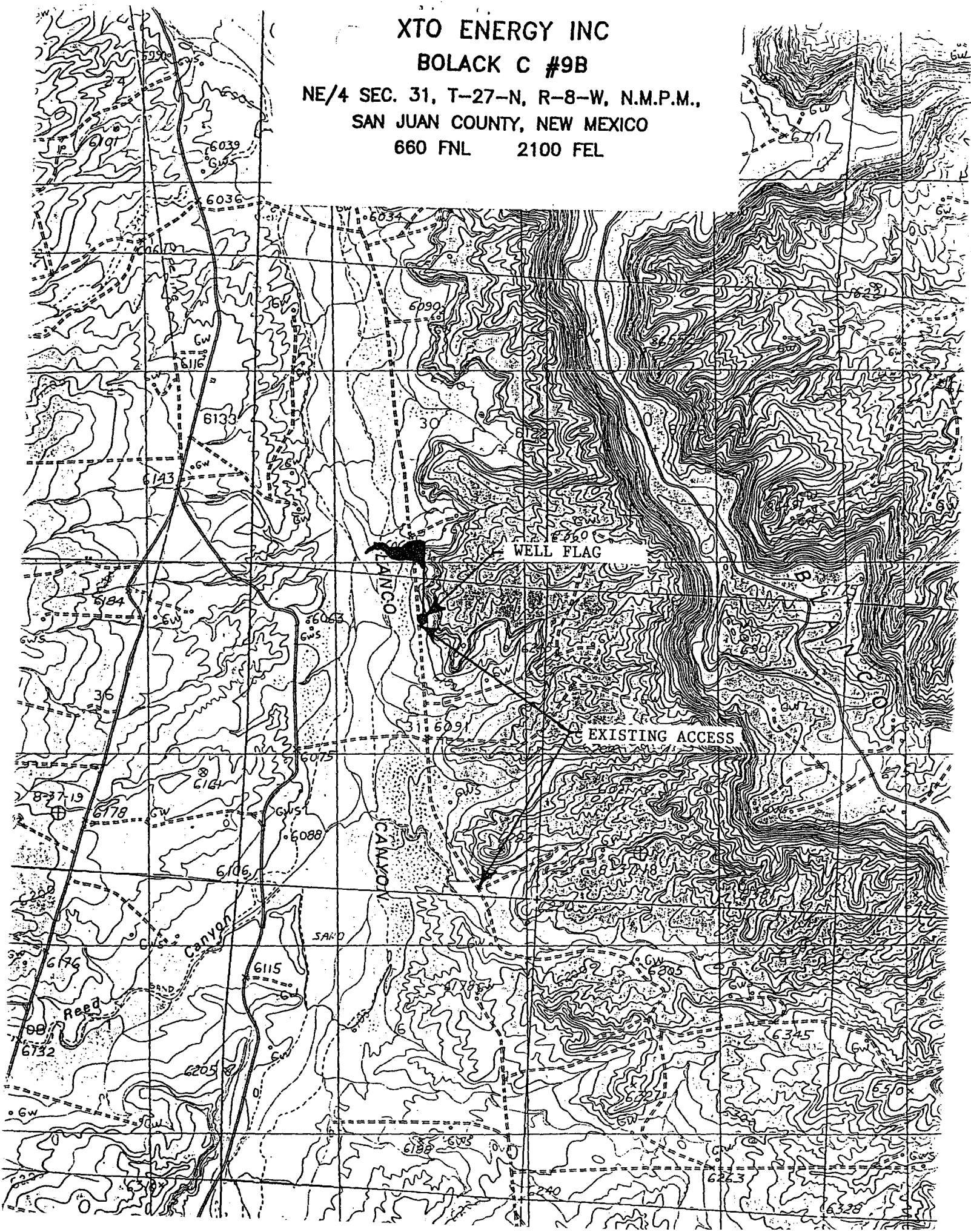
BOLACK C #9B

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

SAN JUAN COUNTY, NEW MEXICO

660 FNL

2100 FEL



XTO ENERGY INC.

Bolack "C" #9B

APD Data

May 24, 2002

Location: Surface: 660' FNL & 2,100' FEL, Sec 31, T27N, R08W County: San Juan State: New Mexico
Approx Bottomhole: 660' FNL & 1,915' FEL

PROJECTED TOTAL DEPTH: ±4,775' (MD)
GR ELEV: 6,090'

OBJECTIVE: Mesaverde
Est KB ELEV: 6,102' (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 ± 220' 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'-220'	220'	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	4,775'	10.5#	J-55	STC	4010	4790	132	4.052	3.875	1.66	1.33	2.44

3. WELLHEAD:

- 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.
- 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 $\pm 365'$.

Lead: 150 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 211 ft^3 , $\pm 116\%$ excess of calculated annular volume to 220'.

B. Production: 4-1/2", 10.5#, J-55, STC casing to be set at $\pm 4,775'$ (MD).

Lead: 425 sx of Type III w/3% extender, 1/4#/sx celloflake & 2% Phenoseal (LCM) mixed at 11.4 ppg, 2.89 cuft/sx & 17.4 gals/sx water.

Tail: 150 sx Premium Lite HS (65%/35%/6%) w/2% KCl, 1/4#/sx cello, 0.35% dispersant, 0.25% fluidloss additive & 5 #/sx gilsonite mixed @ 12.5 ppg, 2.01 cuft/sx & 10.7 gals/sx water.

Total estimated slurry volume (including 40% excess) for the 4-1/2" production casing is 1,528 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%.

5. DIRECTIONAL DRILLING PROGRAM

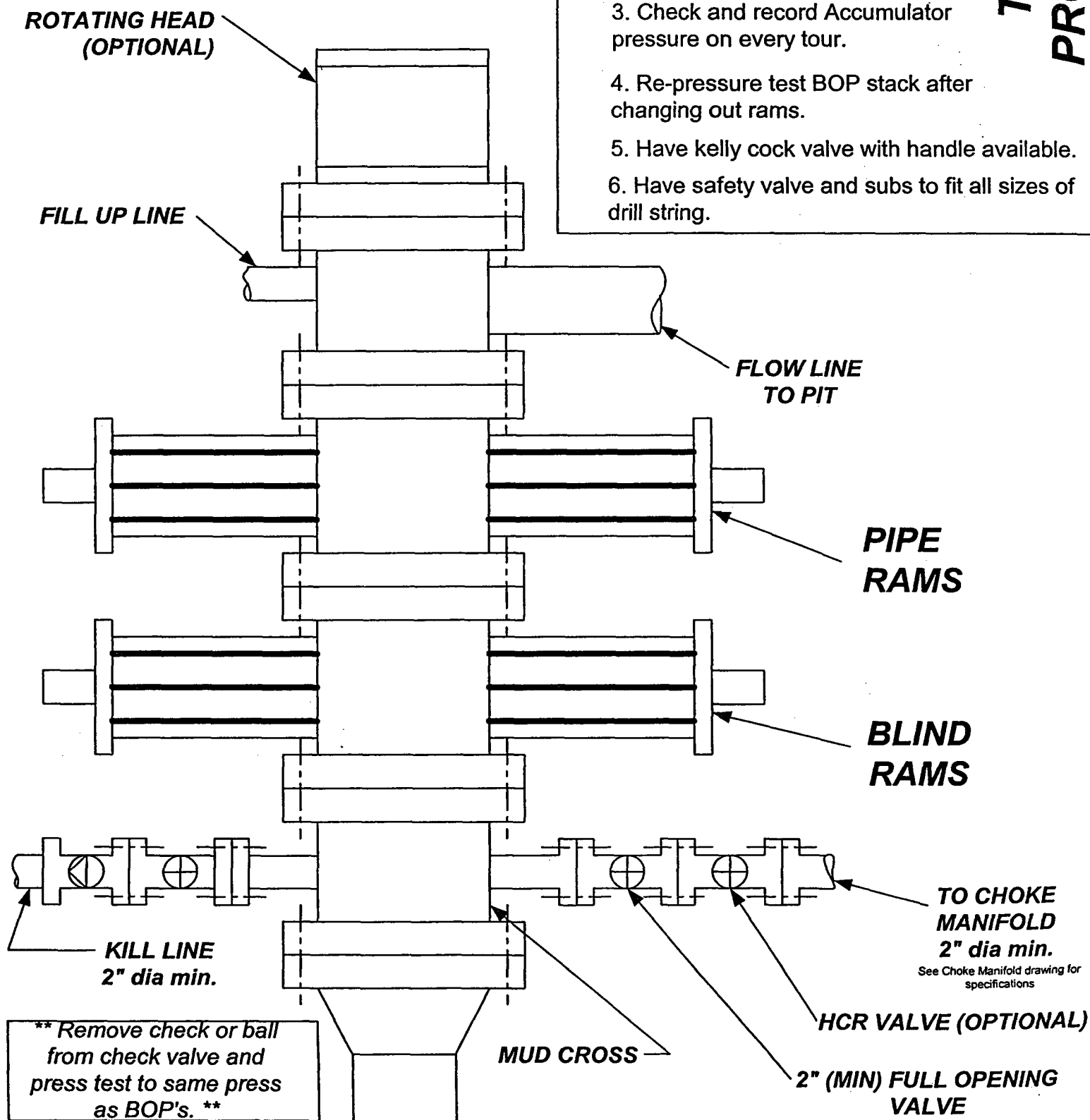
The well will be drilled from a surface location of 660' FNL & 2,100' FEL to a bottomhole target located of 660' FNL & 1,915' FWL in the same section (31). It is proposed that the well be drill using a "S" type of curve. The directional drilling tools will KO at 700' TVD. The wellbore will be turned towards the target over a distance of 185' (displacement) due east. At this point, the well should be back to vertical and should remain there while drilling straight down 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 4,775' MD (distance along the wellbore), 4,765' TVD (vertical distance down), 185' closure (displacement), max inclination ± 6.0 deg and 90 deg azimuth.

5. LOGGING PROGRAM:

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

B. Open Hole Logs as follows: Run Dual Induction/SFL/GR/SP fr/TD ($\pm 4,775'$) to the bottom of the surface csg. Run CNL/LDT (Lithodensity)/GR/Cal and Pe from TD to 2,775'.

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