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.: NM - 03380

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: 29105

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.: Florance "D" #13C

2. NAME OF OPERATOR: XTO Energy Inc.

9. API WELL NO.: 30-045-31097

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: 2,360' FNL & 1,923' FWL in Sec 20, T27N, R08W
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 20, T27N, R08W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 24 air miles from the Blanco NM Post Office

12. COUNTY OR PARISH: San Juan

13. STATE: NM

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
628'	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**
1,200'	5,550'	Rotary rig to TD

21. ELEVATIONS (Show whether DF,RT, GR, etc.): 6,769' 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	24.0#/ft	320	200 sx Type III Cement
7-7/8"	4-1/2", J-55	10.5#/ft	5,550'	750 sx Lite Weight Cement

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

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

XTO Energy Inc. proposes to drill the above mentioned well as defined by the attached Surface Use Program and Drilling Proposal.

Please include pipeline ROW with this action.

070 FARMINGTON NM 27 MAY 2 PM 4:06

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 J W Patton TITLE Drilling Engineer DATE 4/24/02

(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:

SEP - 3

APPROVED BY /s/ Charlie Beecham TITLE _____ DATE _____

*See Instructions On Reverse Side

NMOCD

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
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
30-045-31097	72319	BLANCO MESAVERDE

4 Property Code	5 Property Name	6 Well Number
29105	FLORANCE D	13C

7 OGRID No.	8 Operator Name	9 Elevation
167067	XTO ENERGY INC.	6769'

10 Surface Location

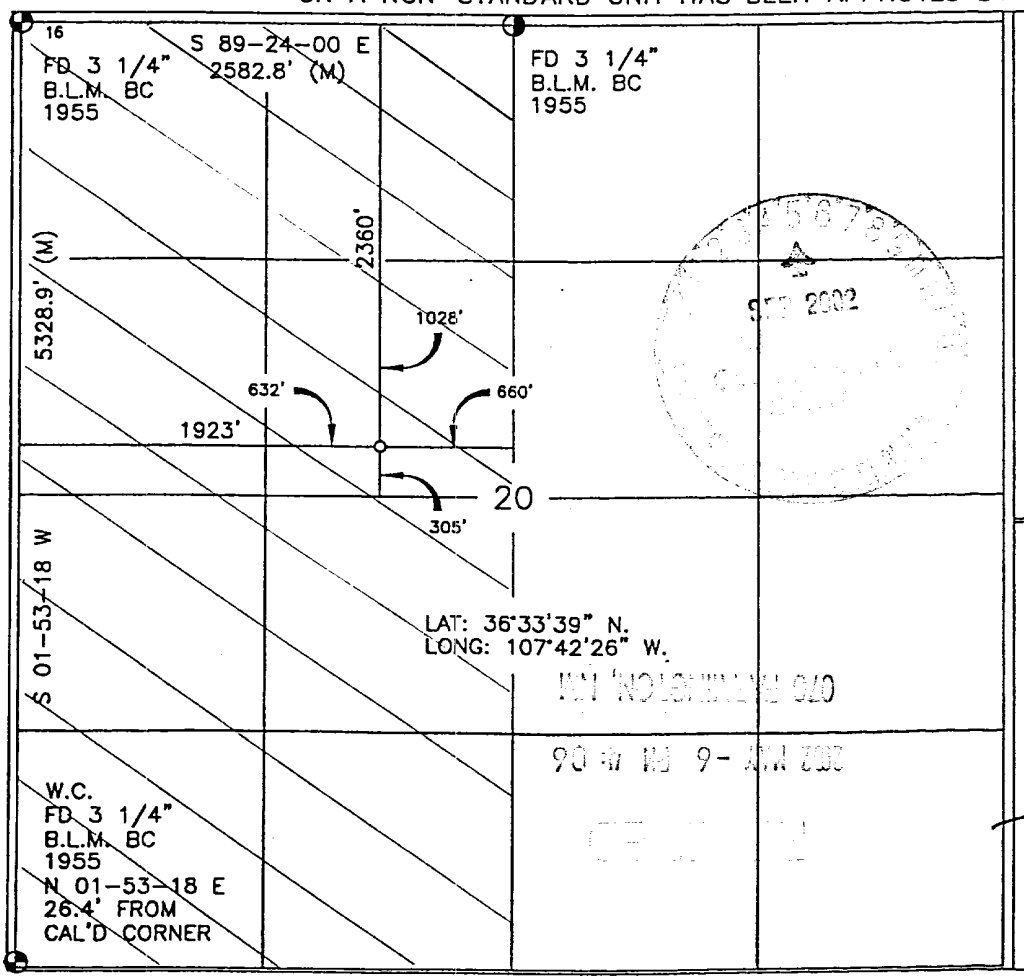
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	20	27-N	8-W		2360'	NORTH	1923'	WEST	SAN JUAN

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

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: 5-3-02

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: SEPTEMBER 10, 2001

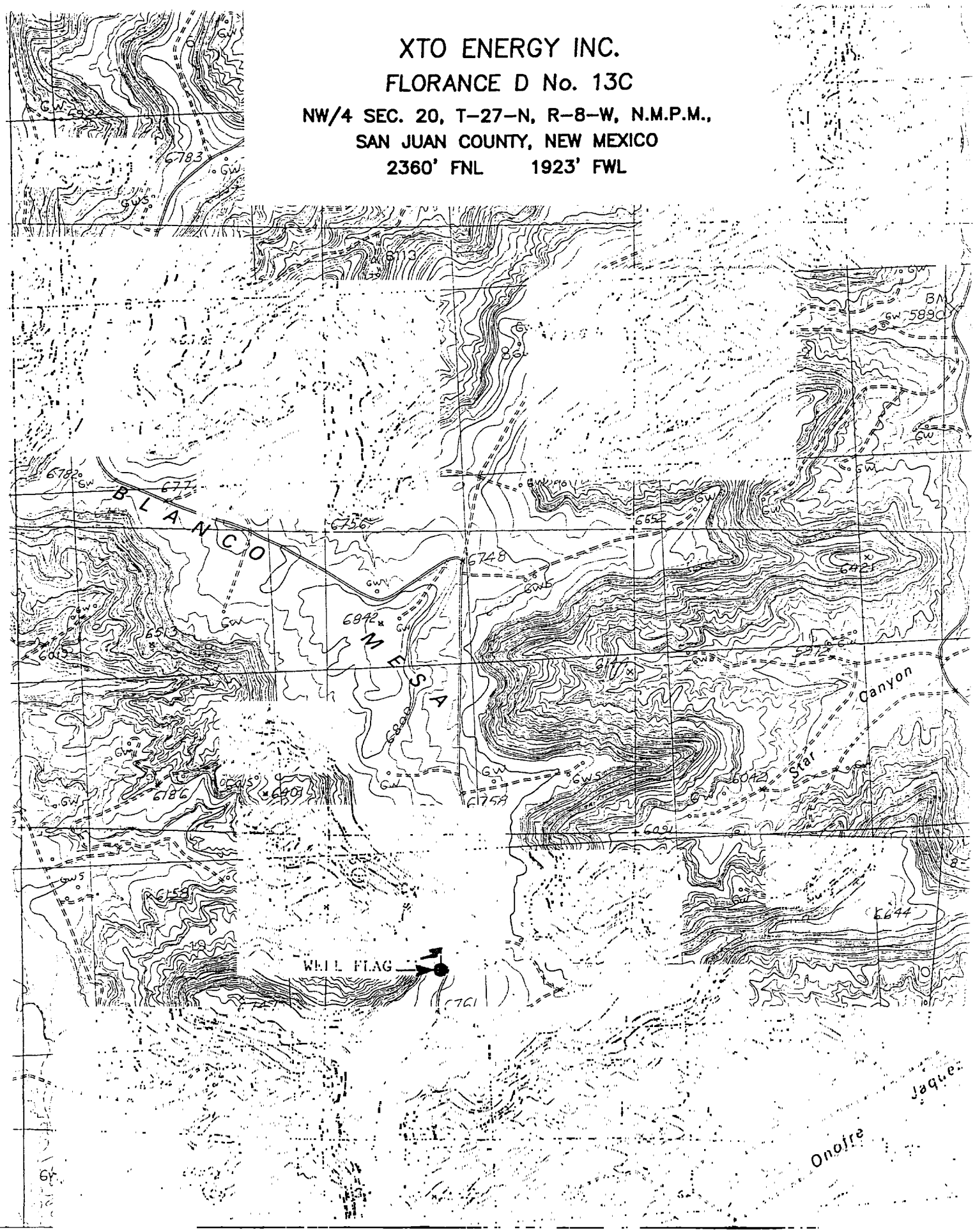
Signature and Seal of Professional Surveyor: NEW MEXICO 14827 REGISTERED PROFESSIONAL SURVEYOR

Certificate Number: 14827

XTO ENERGY INC.

FLORANCE D No. 13C

NW/4 SEC. 20, T-27-N, R-8-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
2360' FNL 1923' FWL



XTO ENERGY INC.

Florance "D" #13C
APD Data
May 3, 2002

Location: 2,360' FNL & 1,923' FWL, Sec 20, T27N, R08W **County**: San Juan **State**: New Mexico

PROJECTED TOTAL DEPTH: ±5,550' OBJECTIVE: Mesaverde
GR ELEV: 6,769' Est KB ELEV: 6,781' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 270'	270' 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 ± 320' 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'-320'	320'	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	5,550'	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 ± 320'.

Lead: 200 sx of "Type III" cement containing 3% $CaCl_2$, ¼ pps celloflake, mixed at 14.5 ppg, 1.39 ft^3/sk, & 6.50 gal wtr/sk.

Total slurry volume is 278 ft^3, ±100% excess of calculated annular volume to 320'.

B. Production: 4-1/2", 10.5#, J-55, STC casing to be set at ±5,550'.

Lead: 600 sx of Premium Lite FM (65/35/6) cement containing 2% KCl, ¼ pps celloflake, 2-4% Phenoseal mixed at 11.9 ppg, 2.39 ft^3/sk, 15.60 gal wtr/sx.

Tail: 150 sx of Premiun Lite HS (65/35/6) cement containing 2% KCl, 7#/sx CSE, ¼ pps celloflake, 0.5% Fluid loss, 0.2% Dispersant mixed at 12.5 ppg, 2.01 ft^3/sk, 10.71 gal wtr/sx..

Total estimated slurry volume (including 40% excess) for the 4-1/2" production casing is 1,735 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%. It will be attempted to circ cement to surface.

5. LOGGING PROGRAM:

A. Mud Logger: There are no plans to use a mud logger at this time.

B. Open Hole Logs as follows: Run Dual Induction/SFL/GR/SP fr/TD (±5,550') to the bottom of the surface csg. Run CNL/LDT (Lithodensity)/GR/Cal and Pe from TD to 3,550'.

6. FORMATION TOPS:

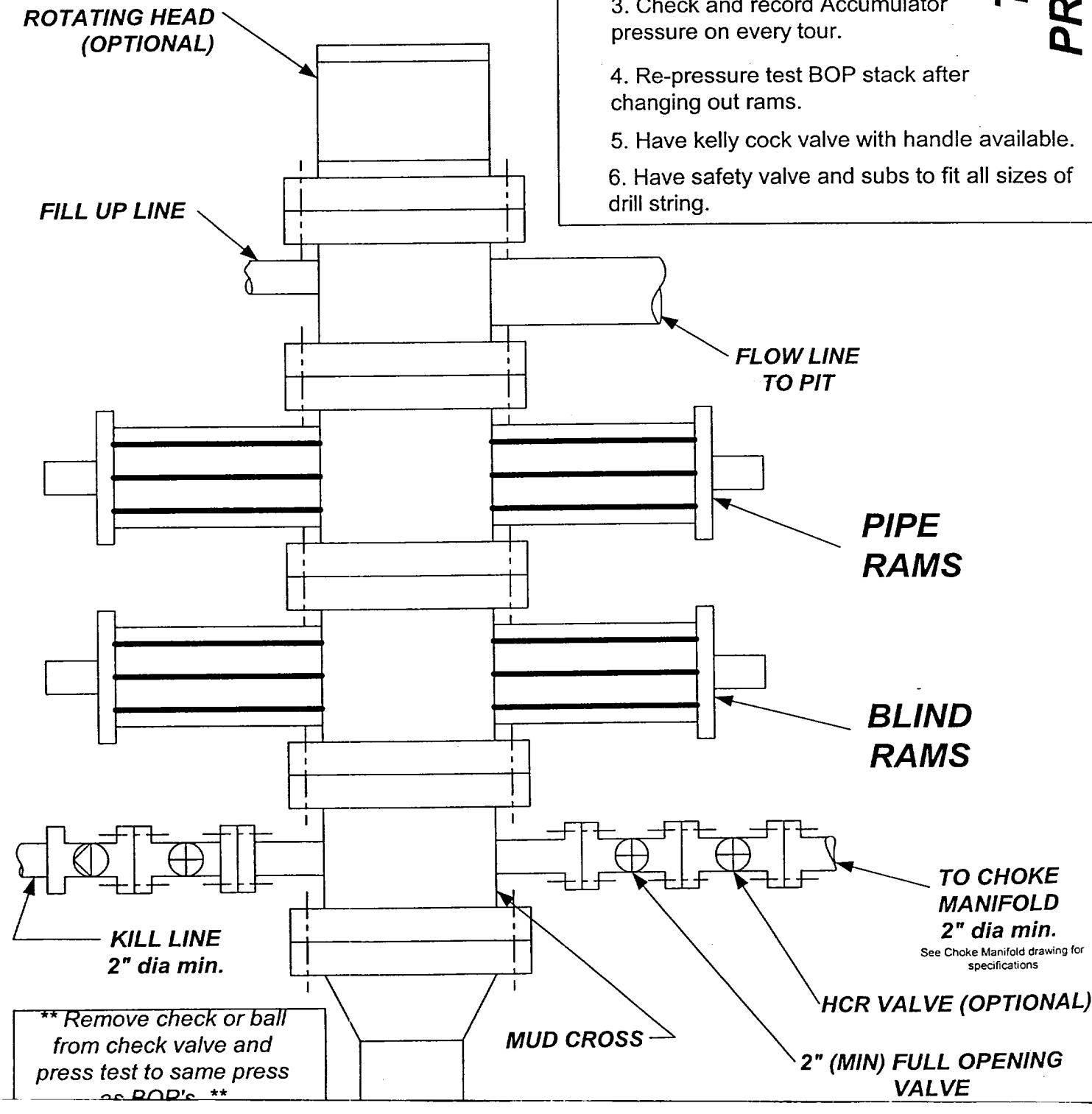
Formation	Subsea Depth	Well Depth
Ojo Alamo SS	+4854'	1930'
Kirtland Shale	+4699'	2085'
Fruitland Formation	+4225'	2559'
Lower Fruitland Coal	+4028'	2756'
Pictured Cliffs SS	+3961'	2823'
Lewis Shale	+3836'	2948'
Chacra	+3050'	3735'
Cliffhouse SS	+2383'	4401'
Menefee*	+2279'	4505'
Point Lookout SS*	+1683'	5101'
Mancos Shale	+1351'	5433'
Projected TD	+1234'	5550'

* Target Reservoir. Maximum anticipated reservoir pressure will be ±1,550 psig.

BOP SCHEMATIC 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. **