

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF-079232	
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator XTO Energy Inc.		7. Unit or CA Agreement Name and No. N/A	
3a. Address 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM		8. Lease Name and Well No. Bolack C #2R	
3b. Phone No. (include area code) 505-324-1090		9. API Well No. 30-045-33776	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1860' ENL x 1620' FWL in Sec 28, T27N, R8W At proposed prod. zone SAME		10. Field and Pool, or Exploratory S. Blanco Pictured Cliffs	
14. Distance in miles and direction from nearest town or post office* Approximately 20 miles Southeast of Bloomfield, NM post office		11. Sec., T., R., M., or Blk. and Survey or Area (F) Sec 28, T27N, R8W	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 1620'		12. County or Parish San Juan	
16. No. of Acres in lease 2552.22		13. State NM	
17. Spacing Unit dedicated to this well NW/4 160		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1148'	
19. Proposed Depth 2400'		20. BLM/BIA Bond No. on file UTB-000138	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6176' Ground Elevation		22. Approximate date work will start* fall 2006	
23. Estimated duration 2 weeks			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Kyla Vaughan</i>	Name (Printed/Typed) Kyla Vaughan	Date 06/01/06
Title Regulatory Compliance Tech		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) AFM	Date 7/5/06
Title PFO		

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, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

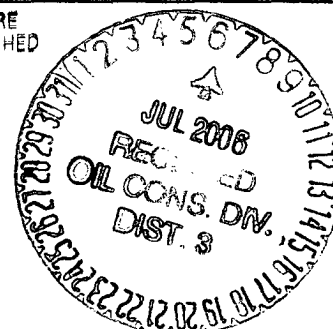
*(Instructions on page 2)

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".

APD/ROW

NMOC



DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

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

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-33776	² Pool Code 72439	³ Pool Name S. Blanco Pictured Cliffs
⁴ Property Code 28096	⁵ Property Name BOLACK C	⁶ Well Number 2R
⁷ GRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6176'

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	28	27-N	8-W		1860	NORTH	1620	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 NW/4 160			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

FD. 3 1/4" BC B.L.M. 1955		N 86-30-51 W 5007.0' (C)		CALC'D. CORNER BY DBL PROP		¹⁷ OPERATOR CERTIFICATION	
S 03-08-08 E 2670.3' (N)		LOT 2		LOT 1		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
1620'		LAT: 36°32'49.7" N. (NAD 27) LONG: 107°41'26.5" W. (NAD 27)		LOT 3		Signature Kelly K Small	
28		LOT 4				Printed Name Kelly K Small	
FD. 3 1/4" BC B.L.M. 1955						Title Regulatory Compliance Tech	
						Date 8/10/05	
						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 2005	
						Signature and Seal of Professional Surveyor	
						Certificate Number	

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
May 27, 2004

WELL API NO. 30-015-33776

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
SF-079232

7. Lease Name or Unit Agreement Name:
Bolack C

8. Well Number

#2R

9. OGRID Number

167067

10. Pool name or Wildcat

S. Blanco Pictured Cliffs

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

XTO Energy Inc.

3. Address of Operator

2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM 87401

4. Well Location

Unit Letter F 1860 feet from the North line and 1620 feet from the West line

Section 28 Township 27N Range 8W NMPM NMEM County SAN JUAN

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6176' Ground Elevation

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type DRILL Depth to Groundwater >100 Distance from nearest fresh water well >1000 Distance from nearest surface water >1000

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume 3000 bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: PIT ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

XTO Energy intends to install a pit on location for drilling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Kyla Vaughan TITLE Regulatory Compliance Tech DATE 06/01/06

Type or print name Kyla Vaughan

E-mail address: kyla_vaughan@xtoenergy.com

Telephone No. 505-564-6726

For State Use Only

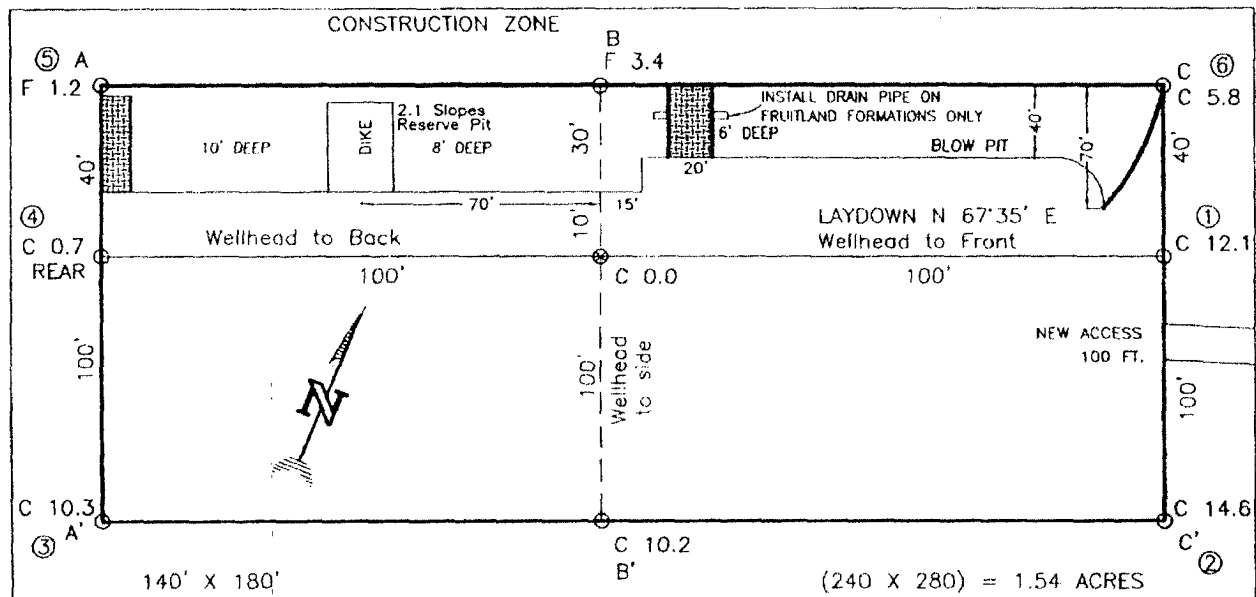
APPROVED BY [Signature] DEPUTY OIL & GAS INSPECTOR, DIST. 27 DATE JUL 06 2006

Conditions of Approval, if any:

EXHIBIT D

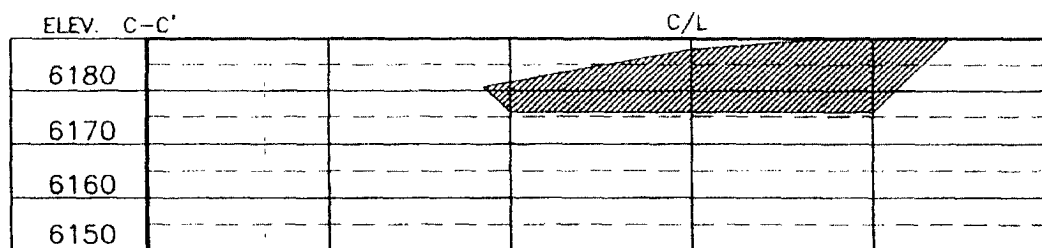
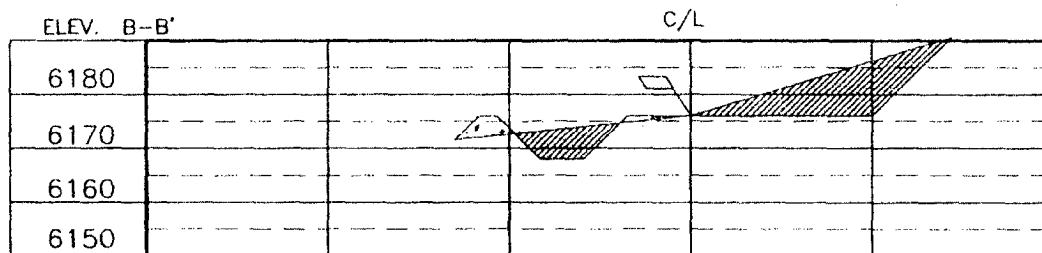
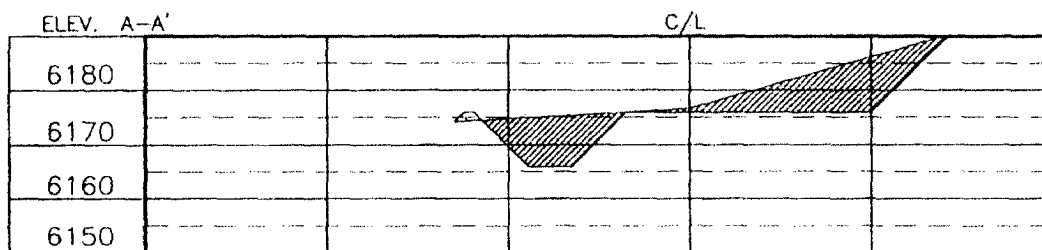
XTO ENERGY INC.
 BOLACK C No. 2R, 1860' FNL 1620' FWL
 SECTION 28, T27N, R8W, N.M.P.M., SAN JUAN COUNTY, N. M.
 GROUND ELEVATION: 6176' (6218' topo), DATE: APRIL 29, 2005

LAT. = 36°32'49.7" N.
 LONG. = 107°41'26.5" W
 NAD 27



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.


REVISION:	DATE:	REVIEW BY:
<p>Daggett Enterprises, Inc. Surveying and Oil Field Services P. O. Box 15088 • Farmington, NM 87401 Phone (505) 326-1772 • Fax (505) 326-6019 NEW MEXICO P.L.S. No. 14831 CS/FILE CR435CFB DATE: 05/20/05</p>		
		

EXHIBIT E

XTO ENERGY INC.

Bolack C #2R

APD Data

May 30, 2006

Location: 1860' FNL x 1620' FWL Sec 28, T27N, R8W County: San Juan

State: New Mexico

GREATEST PROJECTED TD: 2380'

OBJECTIVE: Blanco Pictured Cliffs

APPROX GR ELEV: 6176'

Est KB ELEV: 6188' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2380'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	FW/Polymer
WEIGHT	8.6-9.0	8.4-8.8
VISCOSITY	28-32	28-32
WATER LOSS	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

2. CASING PROGRAM:

Surface Casing: 8.625" casing to be set at $\pm 225'$ in a 12-1/4" hole filled with 9.20 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'-225'	225'	24.0#	J-55	ST&C	1370	2950	244	8.097	7.972	12.73	27.41	45.19

Production Casing: 5.5" casing to be set at TD ($\pm 2380'$) in 7-7/8" hole filled with 9.20 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'-2380	2380'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	3.55	4.22	5.48

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), 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

EXHIBIT F

4. **CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):**

A. Surface: 8.625", 24.0#, J-55, ST&C casing to be set at $\pm 225'$ in 12-1/4" hole.

134 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft³/sk, & 6.70 gal wtr/sk.

Total slurry volume is 186 ft³, 100% excess of calculated annular volume to 225'.

B. Production: 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at $\pm 2380'$ in 7.875" hole.

LEAD:

± 211 sx of Premium Lite HS (Type III/Poz/Gel) with 2% salt, 1/4 pps cello, 0.2% dispersant, 0.5% fluid loss & 2% LCM mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

100 sx Type III with 5% bonding additive, 1/4 pps cello, 2% LCM, 0.3% dispersant & 0.2% fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx.

Total estimated slurry volume for the 5-1/2" production casing is 583 ft³.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 40%. It will be attempted to circulate cement to the surface.

5. **LOGGING PROGRAM:**

A. Mud Logger: The mud logger will come on at 2,900' and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole-Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (2380') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (2380') to 3,000'.

6. **FORMATION TOPS:**

Est. KB Elevation: 6188'

<u>FORMATION</u>	<u>Sub-Sea Elev.</u>	<u>WELL DEPTH</u>
Ojo Alamo SS	4828	1,360
Kirtland Shale	4661	1,527
Farmington SS		
Fruitland Formation	4409	1,779
Lower Fruitland Coal	4002	2,186
Pictured Cliffs SS*	3953	2,235
Lewis Shale	3831	2,357
Total Depth	3808	2,380

* Primary Objective

** Secondary Objective

**** Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) ****

EXHIBIT F

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 10 min.

Test BOP to Working Press or
to 70% internal yield of surf csg
(10 min) or which ever is less.

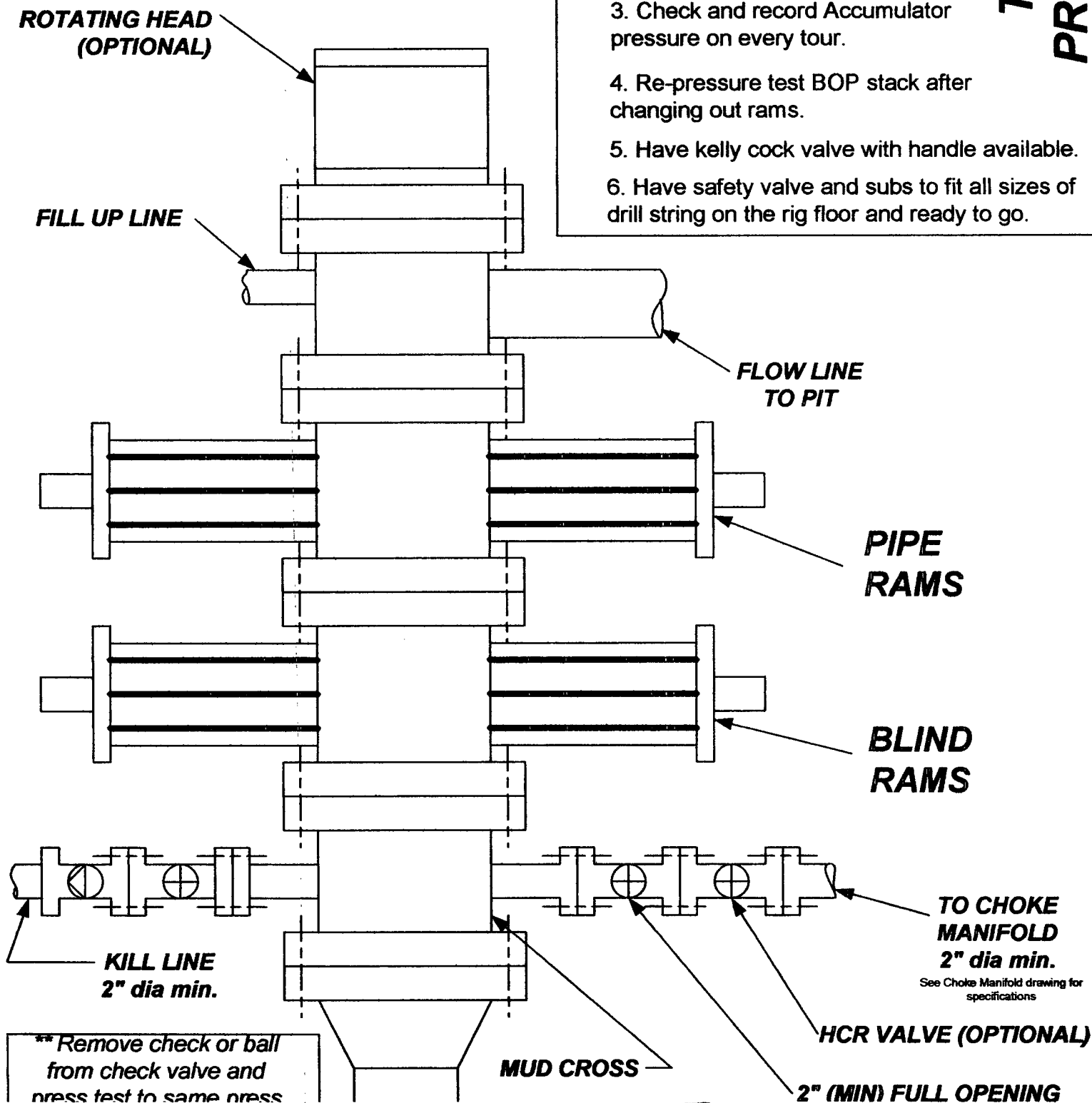
2. Test operation of (both) rams on every trip.

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 on the rig floor and ready to go.



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

1. Stake all lines from choke manifold to pit.
2. Pressure test choke manifold after installation.
3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

TESTING PROCEDURE

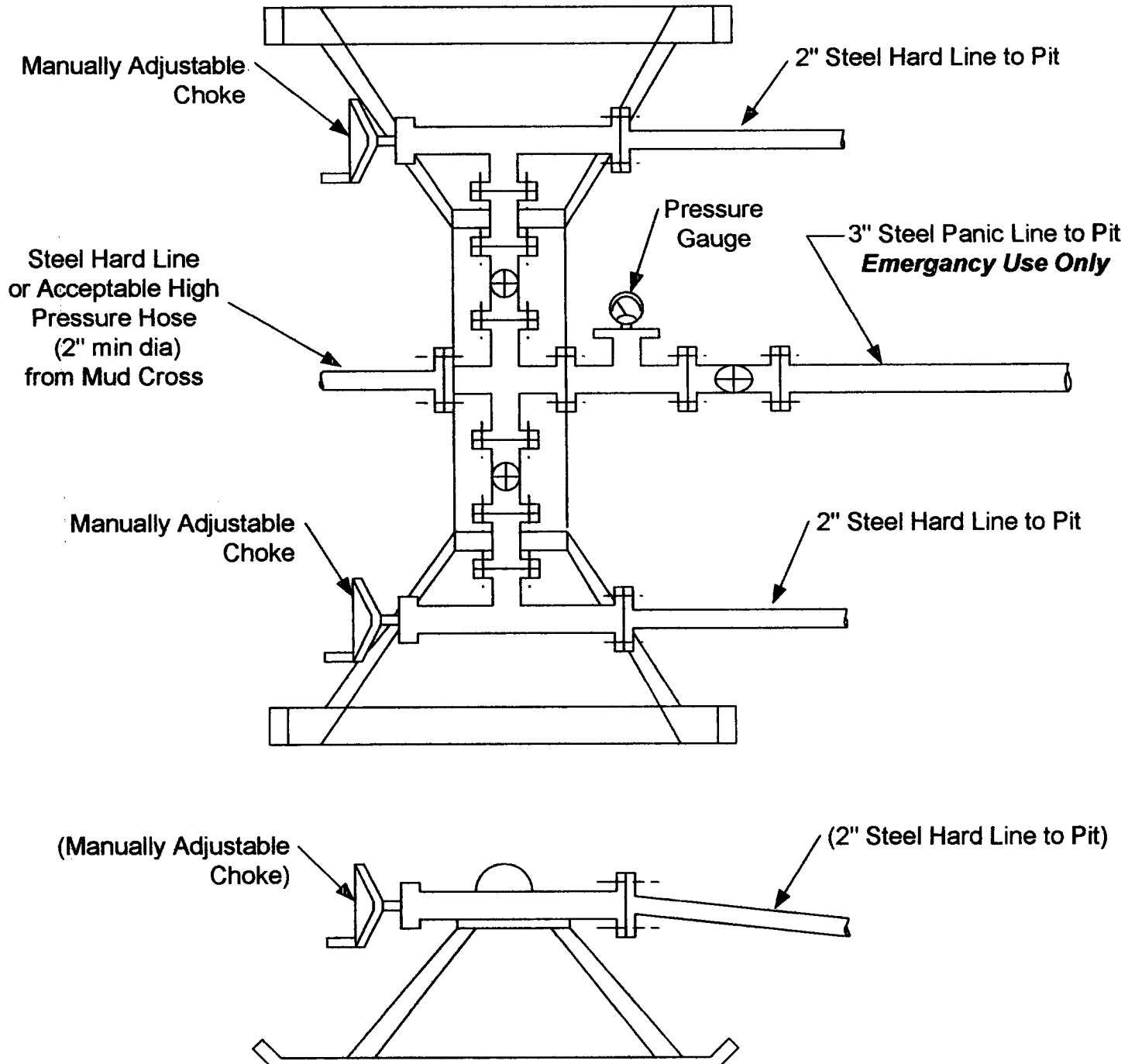


EXHIBIT F