

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. <b>SF 081239</b>
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 <b>N/A</b>
2. Name of Operator <b>XTO Energy Inc.</b>		7. Unit or CA Agreement Name and No. <b>N/A NMNM-104817FC</b>
3a. Address <b>2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM</b>		8. Lease Name and Well No. <b>LC KELLY #15R</b>
3b. Phone No. (include area code) <b>505-324-1090</b>		9. API Well No. <b>30-045-34168</b>
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface <b>2450' FNL x 1725' FWL</b> At proposed prod. zone <b>SAME</b>		10. Field and Pool, or Exploratory <b>Basin Fruitland Coal</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximately 3 miles Northwest of Flora Vista, NM post office</b>		11. Sec., T., R., M., or Blk. and Survey or Area <b>(F) SEC 4, T30N, R12W</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) <b>1345'</b>	16. No. of Acres in lease <b>2410.24</b>	12. County or Parish <b>SAN JUAN</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>640'</b>	19. Proposed Depth <b>2327'</b>	13. State <b>NM</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5851' GROUND ELEVATION</b>	22. Approximate date work will start* <b>MAY 2007</b>	17. Spacing Unit dedicated to this well <b>W/2 296.92</b>
23. Estimated duration <b>2 WEEKS</b>		20. BLM/BIA Bond No. on file <b>UTB000138</b>

24. Attachments

RCVD FEB28'07  
OIL CONS. DIV.  
DIST. 3

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

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan  | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. 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) <b>Kyla Vaughan</b>	Date <b>02/12/07</b>
Title <b>Regulatory Compliance Tech</b>		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date <b>2/26/07</b>
Title <b>AFM</b>	Office <b>FFO</b>	

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)

HOLD 0104 FOR Charge i 8 Feb vs to #15

NOTIFY AZTEC OGD  
IN TIME TO WITNESS

APD/ROW

NMOCD

3/2/07

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

RCVD FEB 28 '07

OIL CONS. DIV.  
DIST. 3

Form C-102

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240State of New Mexico  
Energy, Minerals & Natural Resources Department

Revised October 12, 2005

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

## OIL CONSERVATION DIVISION

Submit to Appropriate District Office

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 874101220 South St. Francis Dr.  
Santa Fe, NM 87505

State Lease - 4 Copies

Fee Lease - 3 Copies

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-045-34168</b>	<sup>2</sup> Pool Code <b>71629</b>	<sup>3</sup> Pool Name <b>Basin Fruitland Coal</b>
<sup>4</sup> Property Code <b>22620</b>	<sup>5</sup> Property Name <b>L.C. KELLY</b>	<sup>6</sup> Well Number <b>15R</b>
<sup>7</sup> OGRIID No <b>1670157</b>	<sup>8</sup> Operator Name <b>XTO ENERGY INC.</b>	<sup>9</sup> Elevation <b>5851</b>

<sup>10</sup> 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	4	30-N	12-W	<b>10</b>	2450	NORTH	1725	WEST	SAN JUAN

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres <b>W/2 296.912</b>			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

<sup>16</sup> CALC'D CORNER BY DOUBLE PROPORTION N 4-33-45 W 2474.94' (C) LOT 8 37.00 LOT 7 37.17 LOT 6 37.93 LOT 5 38.53 LOT 10 2450' 1345' FD. 3 1/4" BC. 1976 B.L.M. LAT: 36.84173° N. (NAD 83) LONG: 108.10641° W. (NAD 83) LAT: 36°50'30.2" N. (NAD 27) LONG: 108°06'20.8" W. (NAD 27)		<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Kelly J. Small 10/3/06 Signature Date Kelly J. Small Printed Name	
<sup>18</sup> 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. AUGUST 31, 2006 Date of Survey 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

Form C-103  
May 27, 2004

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

WELL API NO. <u>30-045-34168</u>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: <u>LC KELLY</u>
8. Well Number <u>#15R</u>
9. OGRID Number <u>5380</u>
10. Pool name or Wildcat <u>Basin Fruitland Coal</u>

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 <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other
2. Name of Operator <u>XTO Energy Inc.</u>
3. Address of Operator <u>2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401</u>
4. Well Location Unit Letter <u>F</u> : <u>2450</u> feet from the <u>NORTH</u> line and <u>1725</u> feet from the <u>WEST</u> line Section <u>4</u> Township <u>30N</u> Range <u>12W</u> NMPM <u>NMEM</u> County <u>SAN JUAN</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>5851' GROUND ELEVATION</u>
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>
Pit type <u>DRILL</u> Depth to Groundwater <u>&gt;100</u> Distance from nearest fresh water well <u>&gt;1000</u> Distance from nearest surface water <u>&gt;200</u>
Pit Liner Thickness: <u>12</u> mil Below-Grade Tank: Volume <u>3000</u> 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 plans to install a lined 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/closed according to NMOCD guidelines ☒ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Kyla Vaughan TITLE Regulatory Compliance Tech DATE 02/12/07  
Type or print name Kyla Vaughan E-mail address: kyla\_vaughan@xtoenergy.com  
Telephone No. 505-564-6726

For State Use Only

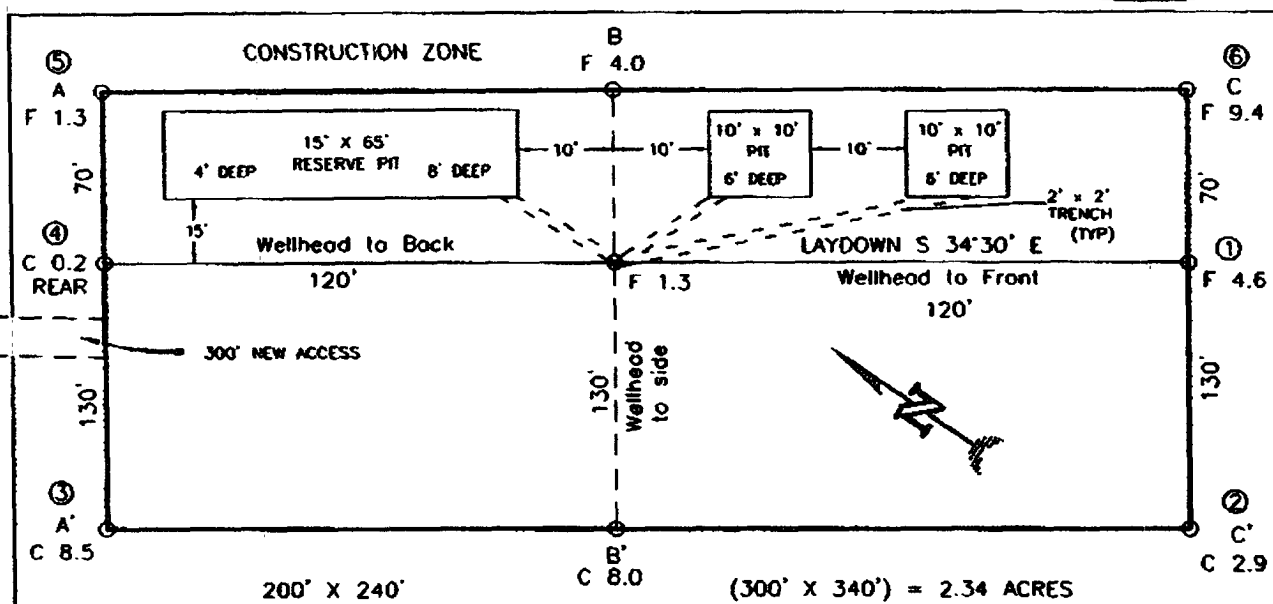
APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. IV DATE 2/28/07

Conditions of Approval, if any:

EXHIBIT D

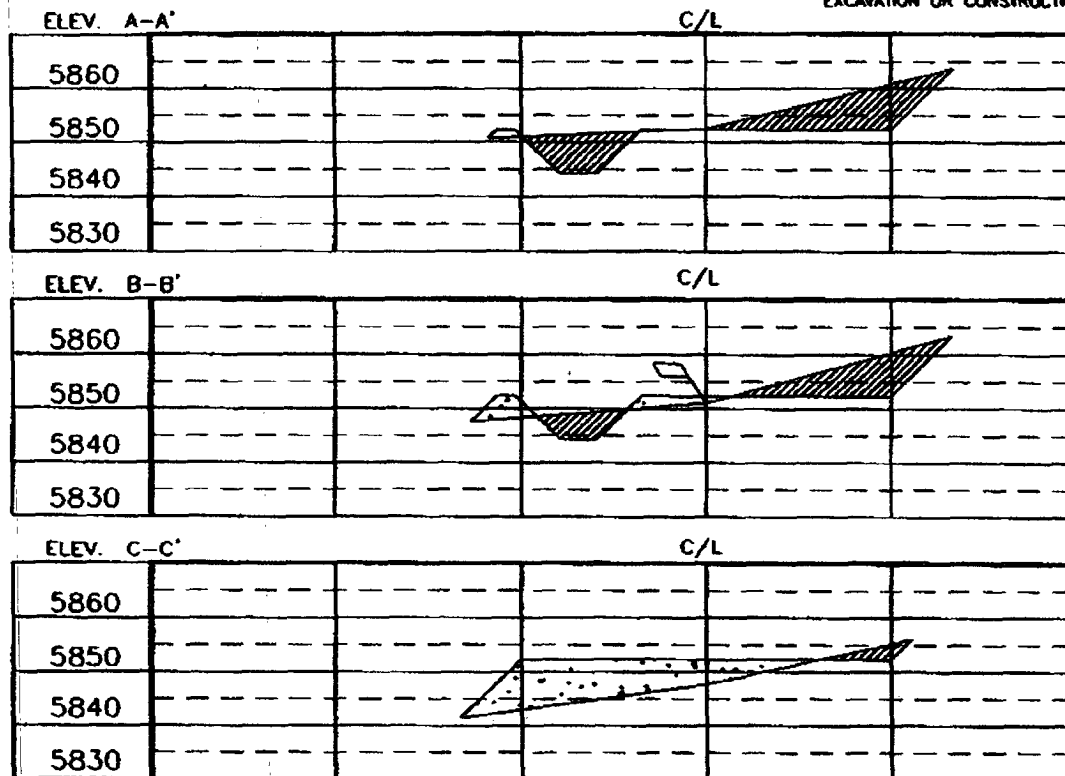
XTO ENERGY INC.  
 L.C. KELLY No. 15R, 2450 FNL 1725 FWL  
 SECTION 4, T30N, R12W, N.M.P.M., SAN JUAN COUNTY, N.M.  
 GROUND ELEVATION: 5851' DATE: AUGUST 30, 2006

NAD 83  
 LAT. = 36.84173° N  
 LONG. = 108.10641° W  
 NAD 27  
 LAT. = 36°50'30.2" N  
 LONG. = 108°06'20.8" W



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.

Daggett Enterprises, Inc.  
 Surveying and Oil Field Services  
 P. O. Box 13065 Farmington, NM 87401  
 Phone (505) 328-1772 • Fax (505) 328-4019  
 NEW MEXICO L.S. No. 8894



Drawn By: G.V.  
 Date: 10/06/06  
 Sheet: 00811

# XTO ENERGY INC.

LC Kelly #15R

APD Data

February 12, 2007

Location: 2450' FNL x 1725' FWL Sec 4, T30N, R12W County: San Juan State: New Mexico

GREATEST PROJECTED TD: 2327'  
APPROX GR ELEV: 5851'

OBJECTIVE: Basin Fruitland Coal  
Est KB ELEV: 5863' (12' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 2327'
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  $\pm 360'$  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'-360'	360'	24.0#	J-55	ST&C	1370	2950	244	8.097	7.972	7.950	17.13	28.24

Production Casing: 5.5" casing to be set at TD ( $\pm 2327'$ ) in 7.875" 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'-2327'	2327'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	3.63	4.32	5.60

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

EXHIBIT T

**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  $\pm 360'$  in 12-1/4" hole.

214 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft<sup>3</sup>/sk, & 6.70 gal wtr/sk.

*Total slurry volume is 297 ft<sup>3</sup>, 100% excess of calculated annular volume to 360'.*

B. Production: 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at  $\pm 2327'$  in 7.875" hole.

LEAD:

$\pm 166$  sx of Premium Lite HS (Type III/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 12.5 ppg, 2.01 ft<sup>3</sup>/sk, 10.55 gal wtr/sx.

TAIL:

150 sx Type III or equivalent cement with bonding additive, LCM, dispersant, & 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 564 ft<sup>3</sup>.*

*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. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (2327') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (2327') to 225'.

**EXHIBIT F**

6. **FORMATION TOPS:**

Est. KB Elevation: 5863'

<b><u>FORMATION</u></b>	<b><u>Sub-Sea Elev.</u></b>	<b><u>WELL DEPTH</u></b>
Ojo Alamo SS		
Kirtland Shale		
Farmington SS		
Fruitland Formation*	4030	1,827
Lower Fruitland Coal*	3930	1,927
Pictured Cliffs SS	3730	2,127
Lewis Shale	3580	2,277
<b>Total Depth</b>	<b>3530</b>	<b>2,327</b>

\* Primary Objective

\*\* Secondary Objective

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

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
John Egelston	Drilling Engineer	505-564-6734	505-330-6902
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
John Klutsch	Project Geologist	817-885-2800	--

JWE  
2/12/07

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.

ROTATING HEAD  
(OPTIONAL)

FILL UP LINE

FLOW LINE  
TO PIT

PIPE  
RAMS

BLIND  
RAMS

KILL LINE  
2" dia min.

TO CHOKE  
MANIFOLD  
2" dia min.

See Choke Manifold drawing for  
specifications

HCR VALVE (OPTIONAL)

2" (MIN) FULL OPENING  
VALVE

MUD CROSS

EXHIBIT F

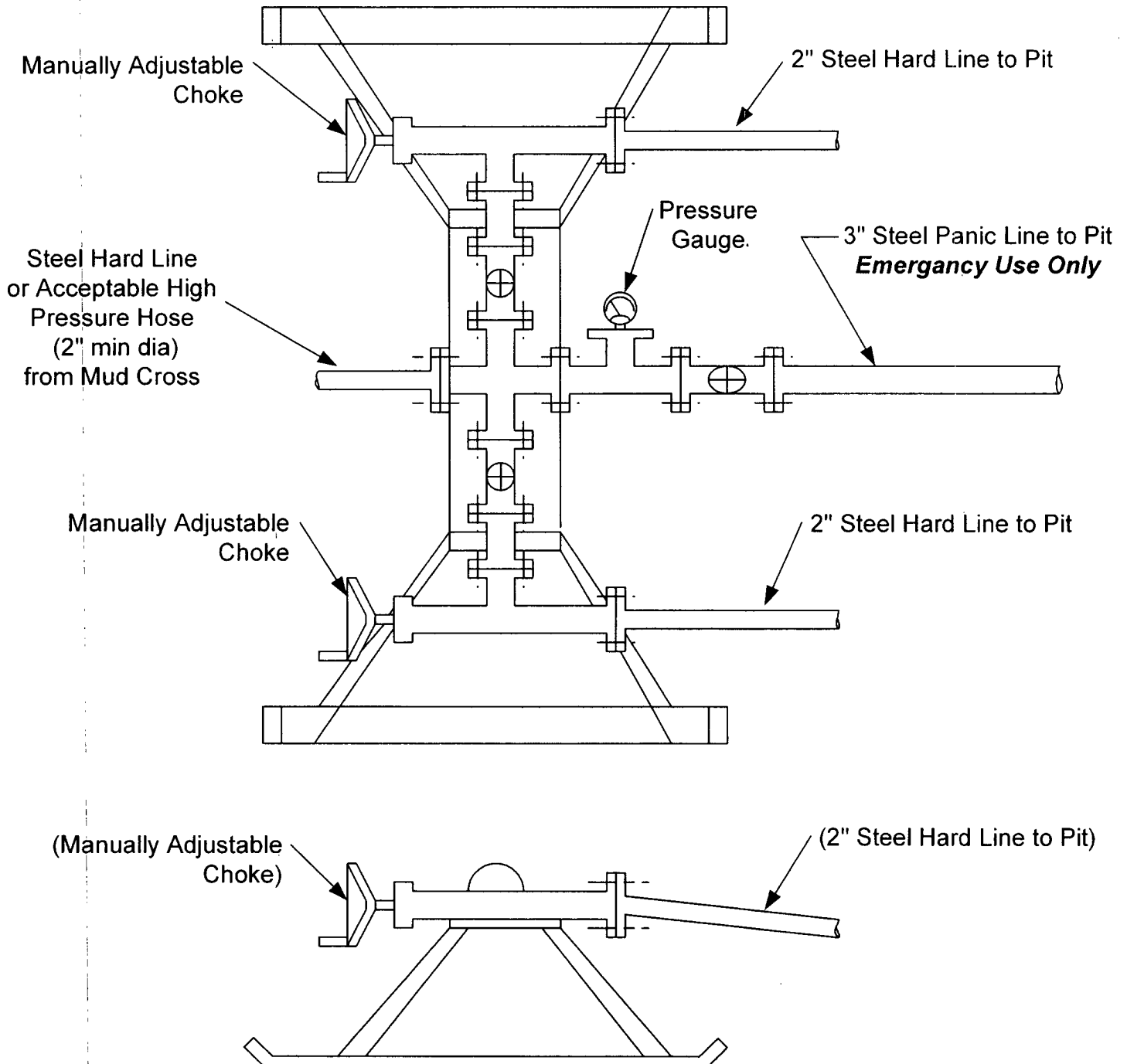
\*\* Remove check or ball  
from check valve and  
press test to same press  
as BOP's. \*\*



# **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**