

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		2007 APR 12 PM 12:23 RECEIVED BLM 210 EAST BLOOMFIELD		5. Lease Serial No. <b>NMSF 077329</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</b>
3a. Address <b>2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM</b>		3b. Phone No. (include area code) <b>505-324-1090</b>		8. Lease Name and Well No. <b>EE MARTIN B #18</b>
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface <b>1280' FSL x 675' FWL</b> At proposed prod. zone <b>SAME</b>				9. API Well No. <b>30-045-34268</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximately 9 miles Southeast of Bloomfield, NM post office</b>				10. Field and Pool, or Exploratory <b>FULCHER KUTZ PICTURED CLIFFS</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) <b>675'</b>		16. No. of Acres in lease <b>1480</b>	17. Spacing Unit dedicated to this well <b>SW/4 160</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>225'</b>		19. Proposed Depth <b>2310'</b>	20. BLM/BIA Bond No. on file <b>UTB000138</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6289' GROUND ELEVATION</b>		22. Approximate date work will start* <b>JULY 2007</b>		23. Estimated duration <b>2 weeks</b>

24 Attachments

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 	Name (Printed/Typed) <b>Kyla Vaughan</b>	Date <b>04/11/07</b>
Title <b>Regulatory Compliance Tech</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>AFM</b>	Date <b>8/30/07</b>
Title <b>AFM</b>		
Office <b>FOO</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.

OIL CONS. DIV.  
DIST. 3

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

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

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

APD/ROW

NMOCD

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

1220 South St Francis Dr PM 12: 23  
Santa Fe, NM 87505

Fee Lease - 3 Copies

☐ AMENDED REPORT

RECEIVED

*API Number 30045-34268		*Pool Code 77200	*Pool Name Fulcher Nutz Pictured Cliffs	DIST. 3
*Property Code 36708	*Property Name EE MARTIN B			*Well Number 1R
*OGRID No 5380	*Operator Name XTO ENERGY INC			*Elevation 6289

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	10	27-N	10-W		1280	SOUTH	675	WEST	SAN JUAN

DL 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 5.5214 1100			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No		

16

FD 2 1/2" BC  
1913 G.L.O.

N 00° 01' 05" E  
2641.45' (M)

675'

1280'

FD 2 1/2" BC  
1913 G.L.O.

S 89° 46' 48" E  
2641.08' (M)

10

LAT: 36.58598° N. (NAD 83)  
LONG: 107.88964° W. (NAD 83)

LAT 36° 35' 09.5" N. (NAD 27)  
LONG. 107° 53' 20.5" W. (NAD 27)

FD 2 1/2" BC  
1913 G.L.O.

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 Small 11/17/17  
 Signature Date  
 Kelly Small  
 Printed Name

I hereby certify that the well location shown on this plot 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.

OCTOBER 5, 2006  
Date of Survey 201 A. RUC

Signature and Seal of the Professional Land 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. <b>30-045-34268</b>	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. <b>NSFS 077329</b>	
7. Lease Name or Unit Agreement Name: <b>EE MARTIN B</b>	
8. Well Number <b>#1R</b>	
9. OGRID Number <b>5380</b>	
10. Pool name or Wildcat <b>FULCHER KUTZ PICTURED CLIFFS</b>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>6289' GROUND ELEVATION</b>	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type <b>DRILL</b> Depth to Groundwater <b>&gt;100</b> Distance from nearest fresh water well <b>&gt;1000</b> Distance from nearest surface water <b>&gt;1000</b>	
Pit Liner Thickness: <b>12</b> mil Below-Grade Tank: Volume _____ bbls; Construction Material <b>Synthetic</b>	

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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	8. Well Number <b>#1R</b>
2. Name of Operator <b>XTO Energy Inc.</b>	9. OGRID Number <b>5380</b>
3. Address of Operator <b>2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401</b>	10. Pool name or Wildcat <b>FULCHER KUTZ PICTURED CLIFFS</b>
4. Well Location Unit Letter <b>M</b> : <b>1280</b> feet from the <b>SOUTH</b> line and <b>675</b> feet from the <b>WEST</b> line Section <b>10</b> Township <b>27N</b> Range <b>10W</b> NMPM <b>NMEM</b> County <b>SAN JUAN</b>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>6289' GROUND ELEVATION</b>	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type <b>DRILL</b> Depth to Groundwater <b>&gt;100</b> Distance from nearest fresh water well <b>&gt;1000</b> Distance from nearest surface water <b>&gt;1000</b>	
Pit Liner Thickness: <b>12</b> mil Below-Grade Tank: Volume _____ bbls; Construction Material <b>Synthetic</b>	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
<b>NOTICE OF INTENTION TO:</b>	<b>SUBSEQUENT REPORT OF:</b>
PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: <b>PIT</b> <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>

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.**

**RCVD AUG 31 '07**

**OIL CONS. DIV.**

**DIST. 3**

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 4/11/07

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]

Deputy Oil & Gas Inspector,  
District #3

**SEP 06 2007**

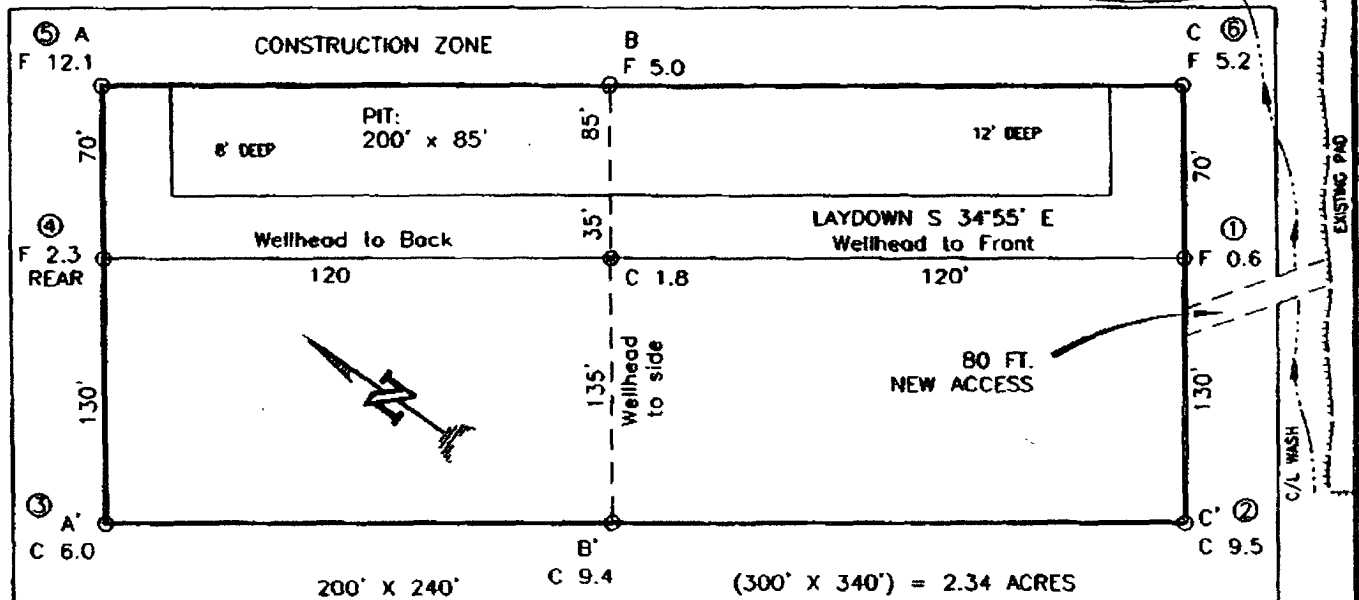
TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval, if any:

**EXHIBIT D**

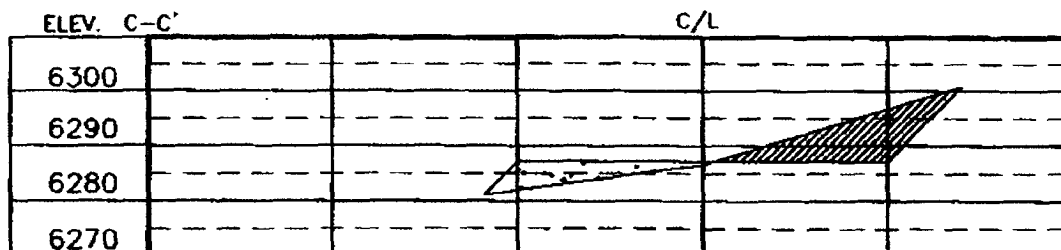
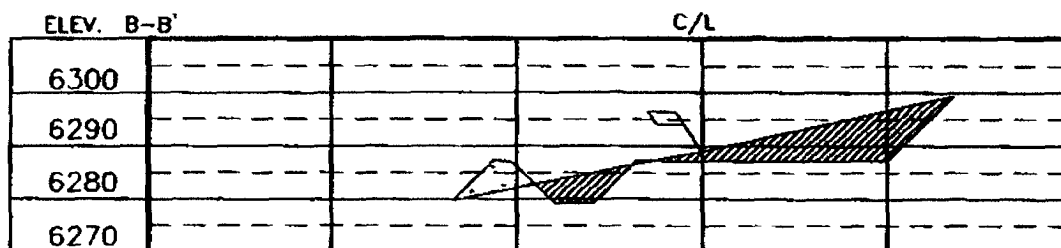
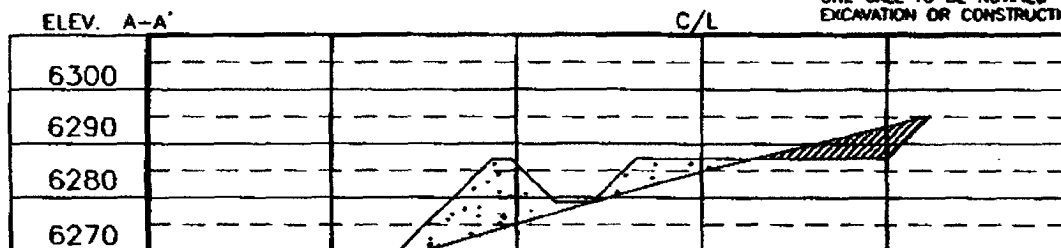
XTO ENERGY INC.  
 EE MARTIN B No. 1R, 1280 FSL 675 FWL  
 SECTION 10, T27N, R10W, N.M.P.M., SAN JUAN COUNTY, N.M.  
 GROUND ELEVATION: 6289' DATE: OCTOBER 5, 2006

NAD 83  
 LAT. = 36.58598° N  
 LONG. = 107.88964° W  
 NAD 27  
 LAT. = 36°35'09.5" N  
 LONG. = 107°53'20.5" 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 15089 Farmington, NM 87401  
 Phone (505) 328-1772 • Fax (505) 328-8019  
 NEW MEXICO L.S. No. 8894



DATE: 12/21/08  
 DRAWN BY: C.V.  
 REV: CR777

EXHIBIT E

# XTO ENERGY INC.

EE Martin B #1R

APD Data

April 11, 2007

Location: 1280' FSL x 675' FWL Sec 10, T27N, R10W County: San Juan State: New Mexico

GREATEST PROJECTED TD: 2310'  
APPROX GR ELEV: 6289'

OBJECTIVE: Fulcher Kutz Pictured Cliffs  
Est KB ELEV: 6295' (12' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 2500'	2500' to 2310'
HOLE SIZE	12.25"	8.75"	8.75"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND / Gel Chemical
WEIGHT	8.6-9.0	8.4-8.8	8.6- 9.20
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. 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 0	27.41	45.19

Production Casing: 5.5" casing to be set at TD ( $\pm$ 2310') in 8.75" 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'-2310	2310'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	3.66	4.35	5.64

## 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 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 ft<sup>3</sup>/sk, & 6.70 gal wtr/sk.

*Total slurry volume is 186 ft<sup>3</sup>, 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  $\pm 2310'$  in 8.75" hole. DV Tool set @  $\pm 0'$

1<sup>st</sup> Stage

LEAD:

$\pm 330$  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:

100 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.

2<sup>nd</sup> Stage

LEAD:

$\pm$  sx of Type III or equivalent cement with 8% gel & LCM mixed at 11.9 ppg, 2.54 ft<sup>3</sup>/sk, 15.00 gal wtr/sx.

TAIL:

0 sx Type III neat mixed at 14.5 ppg, 1.39 cuft/sx, 6.3 gal/sx.

*Total estimated slurry volume for the 5-1/2" production casing is 817 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. Mud Logger: None.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (2310') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (2310') to 3,000'.

**EXHIBIT F**

6. FORMATION TOPS:

Est. KB Elevation: 6295'

<u>FORMATION</u>	<u>Sub-Sea</u>	<u>MD</u>
Ojo Alamo SS	5146	1,149
Kirtland Shale	4998	1,297
Farmington SS		
Fruitland Formation	4623	1,672
Lower Fruitland Coal	4180	2115
Pictured Cliffs SS	4160	2,135
Lewis Shale	4005	2,290
<b>TD</b>	3985	<b>2,310</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  
4/11/07

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

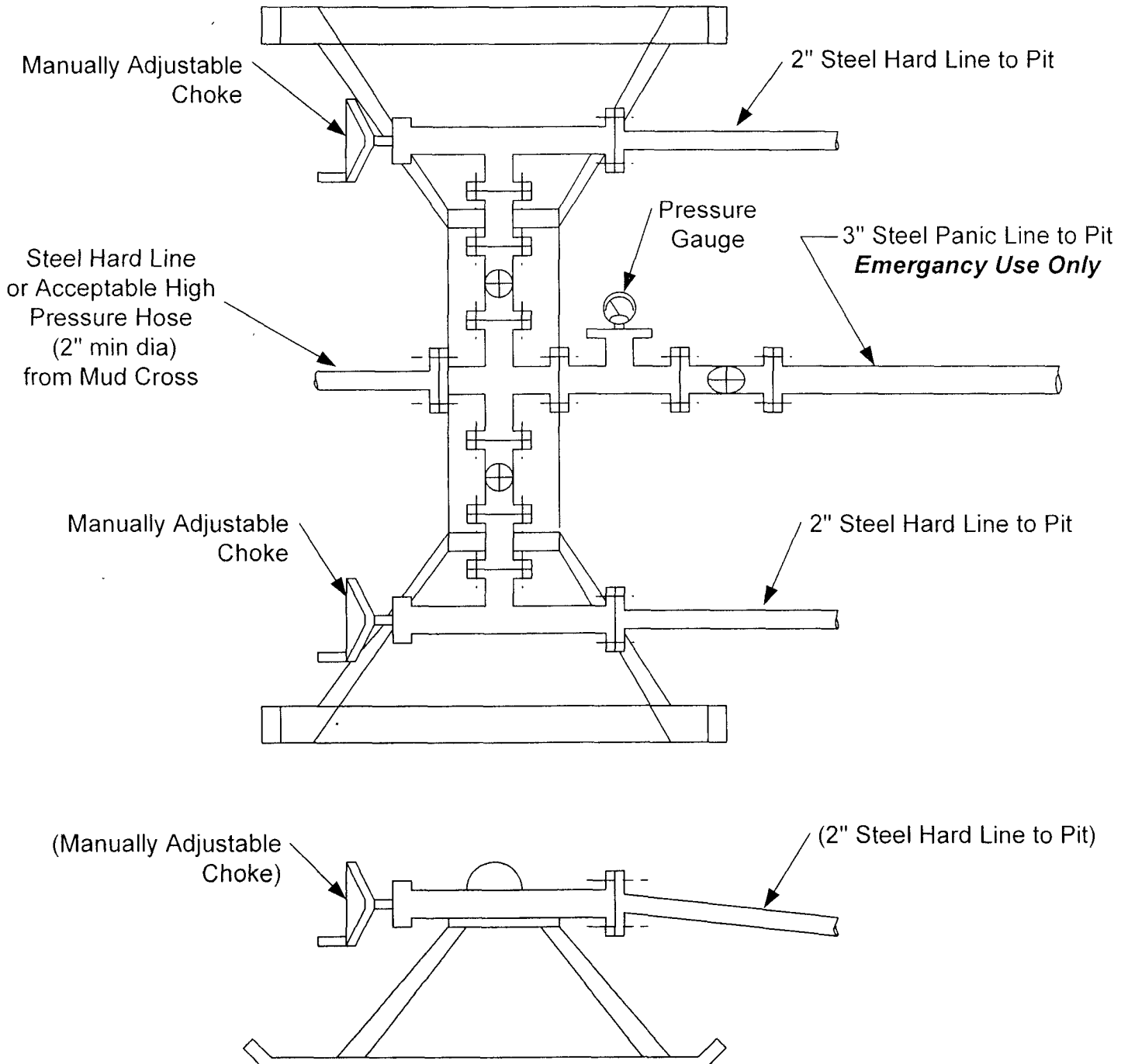
\*\* Remove check or ball from check valve and press test to same press as BOP's. \*\*



# **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**