

RECEIVED

NOV 09 2007

Form 3160-3  
(February 2005)

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

Bureau of Land Management  
Farmington Field Office

Lease Serial No.  
NMNM03380

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		6. If Indian, Allottee or Tribe Name N/A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. N/A
2. Name of Operator XTO Energy, Inc.		8. Lease Name and Well No. FLORANCE #75
3a. Address 382 CR 3100 AZTEC, NM 87410	3b. Phone No. (include area code) 505-333-3100	9. API Well No. 30-045- 34500
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 705' FNL x 1890' FEL At proposed prod. zone same		10. Field and Pool, or Exploratory DK/MC/MV/CH
11. Sec., T. R. M. or Blk. and Survey or Area (B) Sec 20, T27N, R8W		12. County or Parish San Juan
13. State NM		14. Distance in miles and direction from nearest town or post office* Approximately 17.8 miles South of Bloomfield, NM post office
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 705'	16. No. of acres in lease 2400.96	17. Spacing Unit dedicated to this well DK, ML, MV-E/2 320 CH NE/4 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1285'	19. Proposed Depth 7600'	20. BLM/BIA Bond No. on file UTB-000138
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6732' Ground Elevation	22. Approximate date work will start* 01/21/2007	23. Estimated duration 2 weeks

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must 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 must 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 BLM.

25. Signature <i>Kyla Vaughan</i>	Name (Printed/Typed) Kyla Vaughan	Date 11/08/2007
--------------------------------------	--------------------------------------	--------------------

Title Regulatory Compliance	
--------------------------------	--

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) AFM	Date 8/12/08
---	-----------------------------	-----------------

Title AFM	Office 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)

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS



H<sub>2</sub>S POTENTIAL EXIST

HOLD C104 FOR Rule 40 compliance

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

AUG 14 2008  
*aw*

APD/ROW

NOTIFY AZTEC CDD 24 HRS.

PRIOR TO CASING & CEMENT

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

DISTRICT I  
1625 N French Dr, Hobbs, NM 88240

DISTRICT II  
1301 W Grand Ave, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 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 October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34500	<sup>2</sup> Pool Code 71599	<sup>3</sup> Pool Name Basin Dakota
<sup>4</sup> Property Code 22608	<sup>5</sup> Property Name FLORANCE	<sup>6</sup> Well Number 75
<sup>7</sup> GRID No 1167067	<sup>8</sup> Operator Name XTO ENERGY INC	<sup>9</sup> Elevation 6732

<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
B	20	27-N	8-W		705	NORTH	1890	EAST	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 N/2 320			<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

16

<p>FD 3 1/4" BC 1955 BLM</p> <p>N 89-24-37 W 2568 83' (M)</p> <p>LAT: 36.56530° N. (NAD 83) LONG: 107.70260° W. (NAD 83) LAT 36°33'55" N (NAD 27) LONG: 107°42'07" W (NAD 27)</p> <p>20</p> <p>FD 3 1/4" BC 1955 BLM</p> <p>FD 3 1/4" BC 1955 BLM</p> <p>S 3-42-54 W 2669 10' (M)</p> <p>FD 3 1/4" BC 1955 BLM</p>	<p>17</p> <p>OPERATOR CERTIFICATION</p> <p>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</p> <p><u>Kenny R. Small</u> 10/5/06 Signature Date</p> <p><u>Kenny R. Small</u> Printed Name</p>
<p>18</p> <p>SURVEYOR CERTIFICATION</p> <p>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</p> <p>SEPTEMBER 19 2006 Date of Survey</p> <p><u>[Signature]</u> Signature and Seal of Professional Surveyor</p> <p><u>05-06</u> Certificate Number</p>	

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 October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34500	<sup>2</sup> Pool Code 97232	<sup>3</sup> Pool Name <del>W</del> BASIN MANCOS
<sup>4</sup> Property Code 22608	<sup>5</sup> Property Name FLORANCE	<sup>6</sup> Well Number 75
<sup>7</sup> OCRD No. 5380	<sup>8</sup> Operator Name XTO ENERGY INC.	<sup>9</sup> Elevation 6732

<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
B	20	27-N	8-W		705	NORTH	1890	EAST	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 E/2 320			<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

<p>16</p>	<p>17</p> <p><b>OPERATOR CERTIFICATION</b></p> <p>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.</p> <p><u>Kyla Vaughan</u> 11/8/07 Signature Date <u>Kyla Vaughan</u> Printed Name</p> <p>18</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>SEPTEMBER 28 2006 Date of Survey Signature and Seal of Surveyor  Certificate Number</p>
-----------	---

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

DISTRICT II  
1301 W Grand Ave., Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 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 October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34500	<sup>2</sup> Pool Code 72319	<sup>3</sup> Pool Name Blanco Mesa
<sup>4</sup> Property Code 22608	<sup>5</sup> Property Name FLORANCE	<sup>6</sup> Well Number 75
<sup>7</sup> OGRID No 169067	<sup>8</sup> Operator Name XTO ENERGY INC	<sup>9</sup> Elevation 6732

<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
B	20	27-N	8-W		705	NORTH	1890	EAST	SAN JUAN

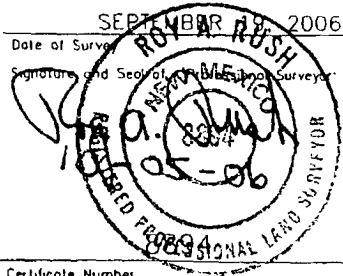
<sup>11</sup> Bottom Hole Location If Different From Surface

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 8/2 320	<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

16

<p>FD 3 1/4" BC 1955 BLM</p> <p>N 89-24-37 W 2568.83' (M)</p> <p>LAT: 36.56530° N. (NAD 83) LONG: 107.70260° W. (NAD 83)</p> <p>LAT: 36°33'55.1" N (NAD 27) LONG: 107°42'07.2" W (NAD 27)</p> <p>705'</p> <p>1890</p> <p>S 3-42-54 W 2669.10' (M)</p> <p>20</p> <p>FD 3 1/4" BC 1955 BLM</p>	<p><b>17 OPERATOR CERTIFICATION</b></p> <p>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.</p> <p><u>Kelly Small</u> 10/31/06 Signature Date</p> <p><u>Kelly Small</u> Printed Name</p>
	<p><b>18 SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>SEP 28 2006 Date of Survey</p> <p><u>Roy A. Rush</u> Signature and Seal of Professional Surveyor</p> <p></p> <p>Certificate Number</p>

DISTRICT I  
1625 N French Dr Hobbs, NM 88240

DISTRICT II  
1301 W Grand Ave, Artesia NM 88210

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 82329	<sup>3</sup> Pool Name Oteros Chacra
<sup>4</sup> Property Code 22608	<sup>5</sup> Property Name FLORANCE		<sup>6</sup> Well Number 75
<sup>7</sup> GRID No 16070607	<sup>8</sup> Operator Name XTO ENERGY INC.		<sup>9</sup> Elevation 6732

<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
B	20	27-N	8-W		705	NORTH	1890	EAST	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 NE 1/4 1600			<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

16

	<p>FD 3 1/4" BC 1955 BLM</p> <p>N 89-24-37 W 2568 83' (M)</p> <p>LAT: 36.56530° N. (NAD 83) LONG: 107.70260° W. (NAD 83)</p> <p>LAT 36°33'55 1" N. (NAD 27) LONG 107°42'07 2" W (NAD 27)</p> <p>705'</p> <p>1890'</p> <p>S 3-42°54 W 2669 10' (M)</p> <p>20</p> <p>FD 3 1/4" BC 1955 BLM</p>	<p>17</p> <p>OPERATOR CERTIFICATION</p> <p>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.</p> <p><u>Kelly Small 10/31/06</u> Signature Date</p> <p><u>Kelly Small</u> Printed Name</p>
		<p>18</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>SEPTEMBER 22, 2006 Date of Survey</p> <p><u>ROY A. RUSH</u> Signature and Seal of Surveyor</p> <p></p> <p>Certificate Number</p>

**XTO ENERGY INC.**

Florance #75

APD Data

December 12, 2007

RECEIVED

DEC 14 2007

Bureau of Land Management  
Farmington Field OfficeLocation: 705' FNL x 1890' FEL Sec 20, T27N, R8WCounty: San JuanState: New MexicoGREATEST PROJECTED TD: 7600'OBJECTIVE: Basin Dakota / Blanco Mesaverde / Basin Mancos / Otero ChacraAPPROX GR ELEV: 6732'Est KB ELEV: 6744' (12' AGL)**1. MUD PROGRAM:**

INTERVAL	0' to 360'	360' to 2500'	2500' to 7600'
HOLE SIZE	12.25"	7.875"	7.875"
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  $\pm 360'$  in a 12.25" 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 ( $\pm 7600'$ ) 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'-7600'	7600'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.11	1.32	1.71

**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.

**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  $\pm 7600'$  in 7.875" hole. DV Tool set @  $\pm 5000'$

1<sup>st</sup> Stage

LEAD:

$\pm 199$  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.

2<sup>nd</sup> Stage

LEAD:

$\pm 427$  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:

100 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 1853 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 (7600') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7600') to 3,000'.

6. **FORMATION TOPS:**

Est. KB Elevation: 6744'

FORMATION	Sub-Sea	MD	FORMATION	TV Sub-Sea	MD
Ojo Alamo SS	4833	1911	Gallup	420	6324
Kirtland Shale	4731	2013	Greenhorn	-289	7033
Farmington SS			Graneros	-350	7094
Fruitland Formation	4404	2340	Dakota 1*	-390	7134
Lower Fruitland Coal	3986	2758	Dakota 2*	-430	7174
Pictured Cliffs SS	3941	2803	Dakota 3*	-460	7204
Lewis Shale			Dakota 4*	-513	7257
Chacra SS	3069	3675	Dakota 5*	-561	7305
Cliffhouse SS*	2400	4344	Dakota 6*	-606	7350
Menefee**	2273	4471	Burro Canyon	-644	7388
Point Lookout SS*	1696	5048	Morrison*	-675	7419
Mancos Shale	1338	5406	TD	-856	7600

\* 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
Justin Niederhofer	Drilling Engineer	505-333-3199	505-320-0158
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
John Klutsch	Project Geologist	817-885-2800	--

JN

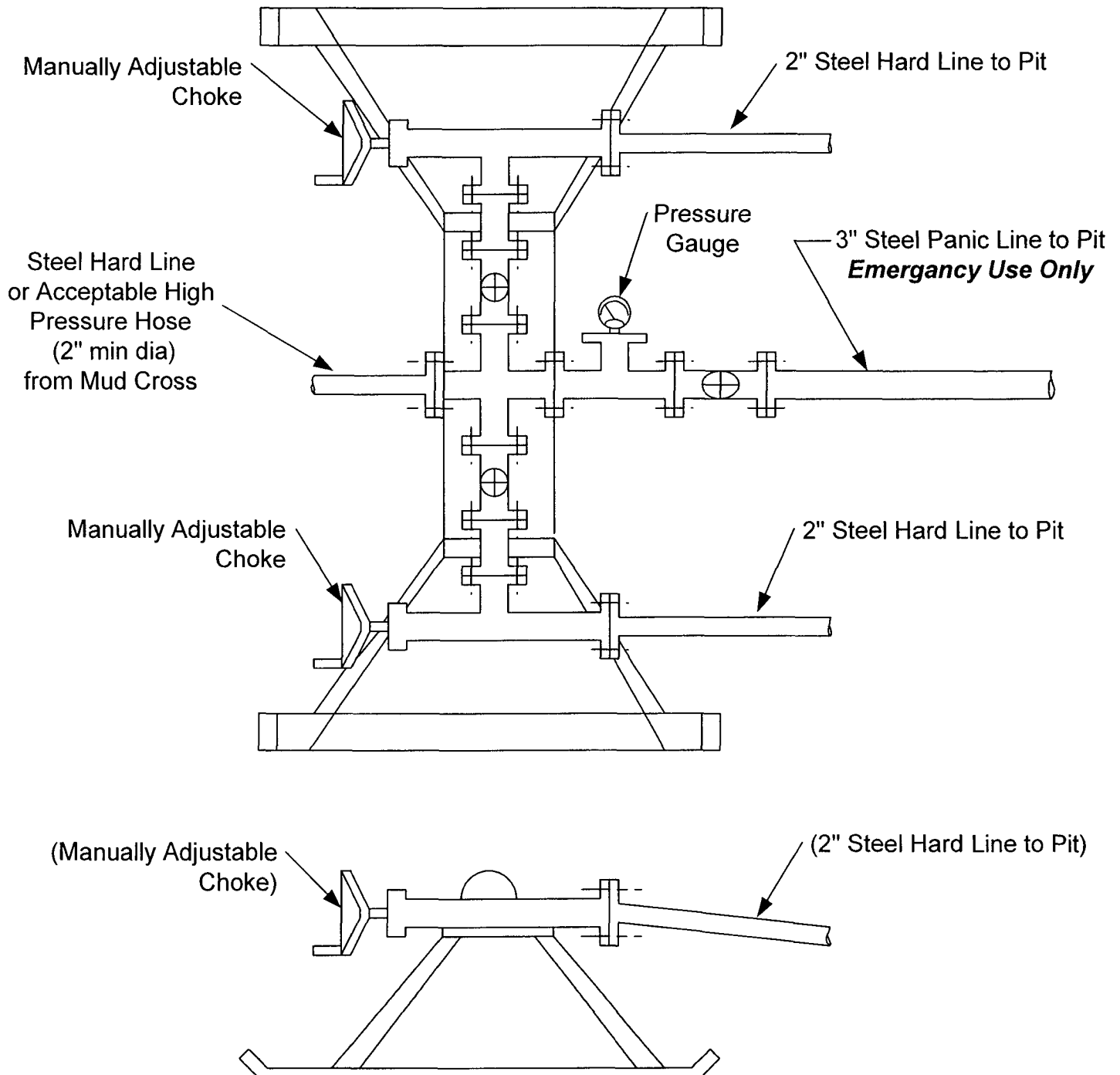
12/12/07



# **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**

# 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

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

EXHIBIT F