

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>NM-047</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>		8. Lease Name and Well No. <b>New Mexico Federal N #6F</b>	
3b. Phone No. (include area code) <b>505-324-1090</b>		9. APL Well No. <b>30-045-33646</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface <b>1920 FSL x 2000' FEL in Sec 6, T30N, R12W</b> At proposed prod. zone <b>SAME</b>		10. Field and Pool, or Exploratory <b>Basin Dakota</b>	
14. Distance in miles and direction from nearest town or post office* <b>Approximately 6 miles North of Farmington, NM post office</b>		11. Sec., T., R., M., or Blk. and Survey or Area <b>(J) Sec 6, T30N, R12W</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) <b>1920'</b>		12. County or Parish <b>San Juan</b>	
16. No. of Acres in lease <b>1530.8</b>		13. State <b>NM</b>	
17. Spacing Unit dedicated to this well <b>S/2 304.94</b>		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1320'</b>	
19. Proposed Depth <b>7001' 756'</b>		20. BLM/BIA Bond No. on file <b>UTB-000138</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6004' Ground Elevation</b>		22. Approximate date work will start* <b>April 28, 2006</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:

- 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) <b>Kyla Vaughan</b>	Date <b>03/08/06</b>
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Title  
**Regulatory Compliance Tech**

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) <b>AFM</b>	Date <b>4/5/08</b>
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Title <b>AFM</b>	Office <b>FFO</b>
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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.

DRILLING OPERATIONS AUTHORIZED ARE  
\* (Instructions on page 2)  
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

APD/ROW

NMOC

DISTRICT 1  
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.  
Santo 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

<sup>1</sup> API Number 30-045-33646		<sup>2</sup> Pool Code 71599	<sup>3</sup> Pool Name Basin Dakota	
<sup>4</sup> Property Code 33982	<sup>5</sup> Property Name NEW MEXICO FEDERAL N			<sup>6</sup> Well Number 6F
<sup>7</sup> OCRD No. 107067	<sup>8</sup> Operator Name XTO ENERGY INC.			<sup>9</sup> Elevation 6004

<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
J	6	30-N	12-W	17		1920	SOUTH	2000	EAST	SAN JUAN

## "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 5/2 304.94		<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

LOT 11	LOT 10	LOT 9	LOT 8
LOT 12	LOT 13	LOT 14	LOT 15
LOT 19	LOT 18 LAT: 36°50'24.5" N. (NAD 27) LONG: 108°08'08.8" W. (NAD 27)	LOT 17	LOT 16
LOT 20	LOT 21	LOT 22	LOT 23

6

2000'

1920'

N 00-32-42 E  
2590.3' (M)

QUARTER COR.  
FD 3 1/4" BC  
1978 BLM

S 88-02-00 W  
2547.0' (M)

SECTION COR.  
FD 3 1/4" BC  
1978 BLM

QUARTER COR.  
FD 3 1/4" BC  
1978 BLM

17 OPERATOR CERTIFICATION  
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  
 RECEIVED  
 MARCH 23 1995  
 3 PM 12 33  
 Kelly K. Small  
 Signature  
 Kelly K. Small  
 Printed Name  
 Drilling Assistant  
 Title

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.  
 MARCH 23 1995  
 Date  
 Surveyor:  
 JOAQUIN VORONICH  
 NEW MEXICO  
 14528  
 25  
 14831  
 REGISTERED PROFESSIONAL ENGINEER

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>30-045-33646</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <b>NM-047</b>
7. Lease Name or Unit Agreement Name: <b>New Mexico Federal N</b>
8. Well Number <b>#6F</b>
9. OGRID Number <b>167067</b>
10. Pool name or Wildcat <b>Basin Dakota</b>

**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 <b>XTO Energy Inc.</b>
3. Address of Operator <b>2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM 87401</b>
4. Well Location Unit Letter <b>J</b> <b>1920</b> feet from the <b>South</b> line and <b>2000</b> feet from the <b>East</b> line Section <b>6</b> Township <b>30N</b> Range <b>12W</b> NMPM <b>NMPM</b> County <b>SAN JUAN</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>6004'</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 _____

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 03/08/06  
Type or print name Kyla Vaughan E-mail address: kyla\_vaughan@xtoenergy.com Telephone No. 505-564-6726

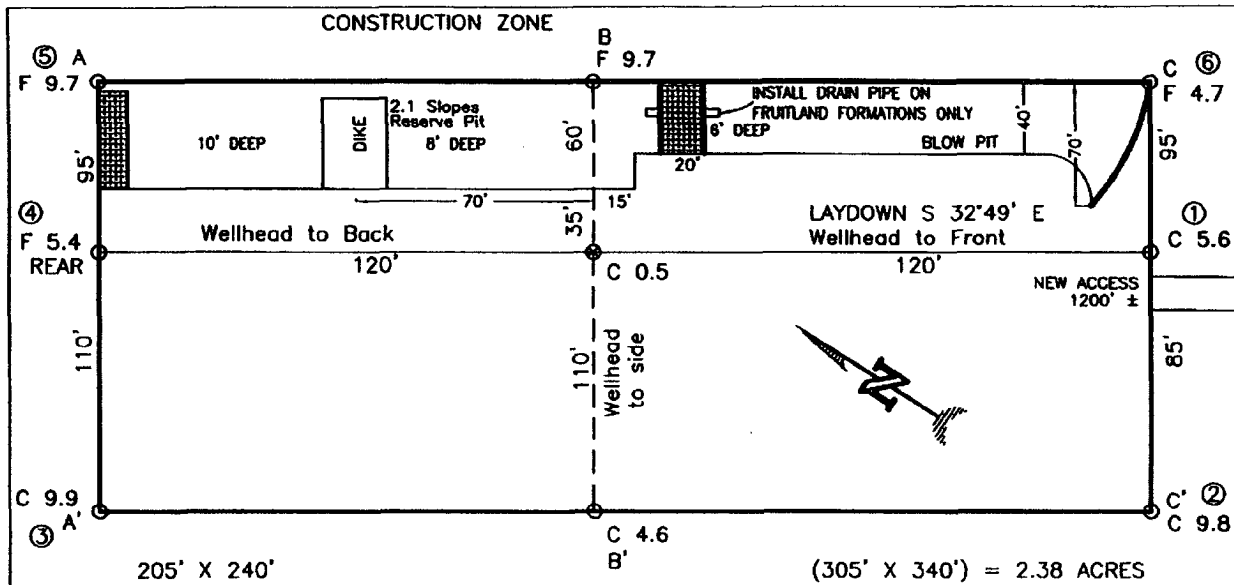
For State Use Only

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 41 DATE APR 07 2006  
Conditions of Approval, if any:

EXHIBIT D

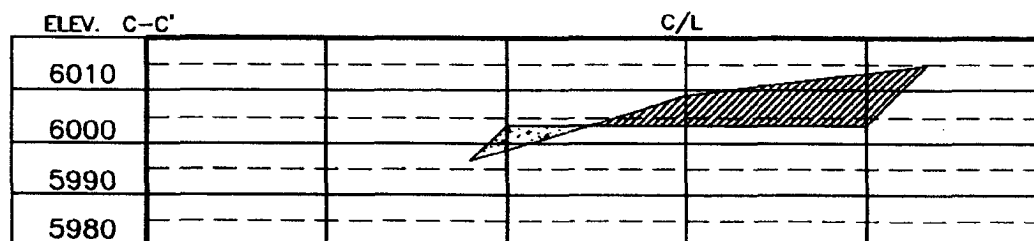
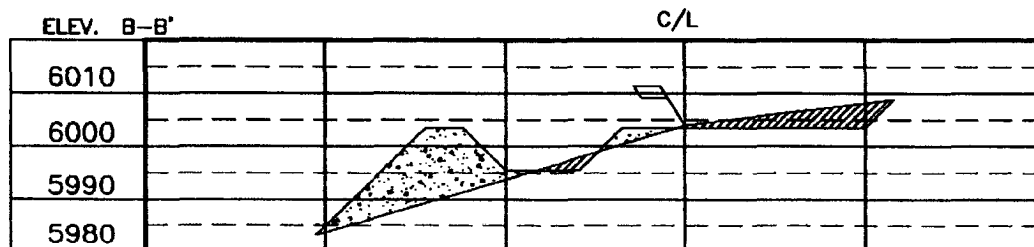
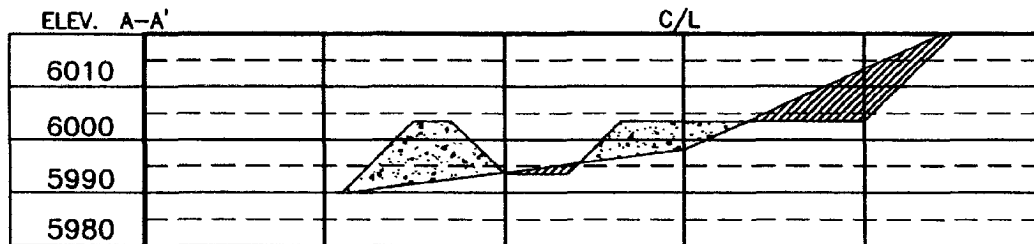
XTO ENERGY INC.  
 NEW MEXICO FEDERAL N No. 6F, 1920' FSL 2000' FEL  
 SECTION 6, T30N, R12W, N.M.P.M., SAN JUAN COUNTY, N. M.  
 GROUND ELEVATION: 6004', DATE: MARCH 23, 2005

LAT. = 36°50'24.5" N.  
 LONG. = 108°08'08.8" 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.

**Daggett Enterprises, Inc.**  
 Surveying and Oil Field Services  
 P. O. Box 15088 • Farmington, NM 87401  
 Phone (505) 326-1772 • Fax (505) 326-6018  
 NEW MEXICO P.L.S. No. 14831  
 Surveyor's Seal: [Seal] DATE: [ ] TIME: [ ]

EXHIBIT E

Revised 3/29/06

**XTO ENERGY INC.**  
**New Mexico Federal N #6F**  
**APD Data**  
**March 29, 2006**

**Location:** 1920' FSL x 2000' FEL Sec 6, T30N, R12W      **County:** San Juan      **State:** New Mexico

**GREATEST PROJECTED TD:** 7156'      **OBJECTIVE:** Basin Dakota  
**APPROX GR ELEV:** 6004'      Est KB ELEV: 6016' (12' AGL)

**1. MUD PROGRAM:**

INTERVAL	0' to 360'	360' to 2500'	2500' to 7156
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 12-1/4" 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 ( $\pm$ 7156') 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'-7156	7156'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.18	1.41	1.82

**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.

Revised 8/29/06

**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  $\pm 7156'$  in 7.875" hole. DV Tool set @  $\pm 4200'$

1<sup>st</sup> Stage

LEAD:

$\pm 242$  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 ft<sup>3</sup>/sk, 10.55 gal wtr/sx.

TAIL:

150 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.

2<sup>nd</sup> Stage

LEAD:

$\pm 350$  sx of Type III with 8% gel, 1/4 pps cello & 2% 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 1745 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: 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 (7156') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7156') to 3,000'.

Revised 3/29/06

6. FORMATION TOPS:

Est. KB Elevation: 6016'

FORMATION	Sub-Sea Elev.	WELL DEPTH	FORMATION	Sub-Sea Elev.	WELL DEPTH
Ojo Alamo SS	5367	649	Gallup Ss	181	5,835
Kirtland Shale	5207	809	Greenhorn Ls	-566	6,582
Farmington SS	5150	866	Graneros Sh	-621	6,637
Fruitland Formation	4040	1,976	1 <sup>ST</sup> Dakota Ss*	-675	6,691
Lower Fruitland Coal	3934		2 <sup>ND</sup> Dakota Ss	N/A	
Pictured Cliffs SS	3834	2,182	3 <sup>RD</sup> Dakota Ss*	-740	6,756
Lewis Shale	3634	2,382	4 <sup>TH</sup> Dakota Ss	N/A	
Chacra SS**	2802	3,214	5 <sup>TH</sup> Dakota Ss**	-783	6,799
Cliffhouse SS	2144	3,872	6 <sup>TH</sup> Dakota Ss**	-847	6,863
Menefee*	2125	3,891	Burro Canyon Ss**	-954	6,970
Point Lookout SS*	1461	4,555	Morrison Fm**	-940	6,956
Mancos Shale	1129	4,887	Total Depth	-1140	7,156

\* 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
Reed Meek	Project Geologist	817-885-2800	817-427-2475

JWE

3/29/06

# 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.

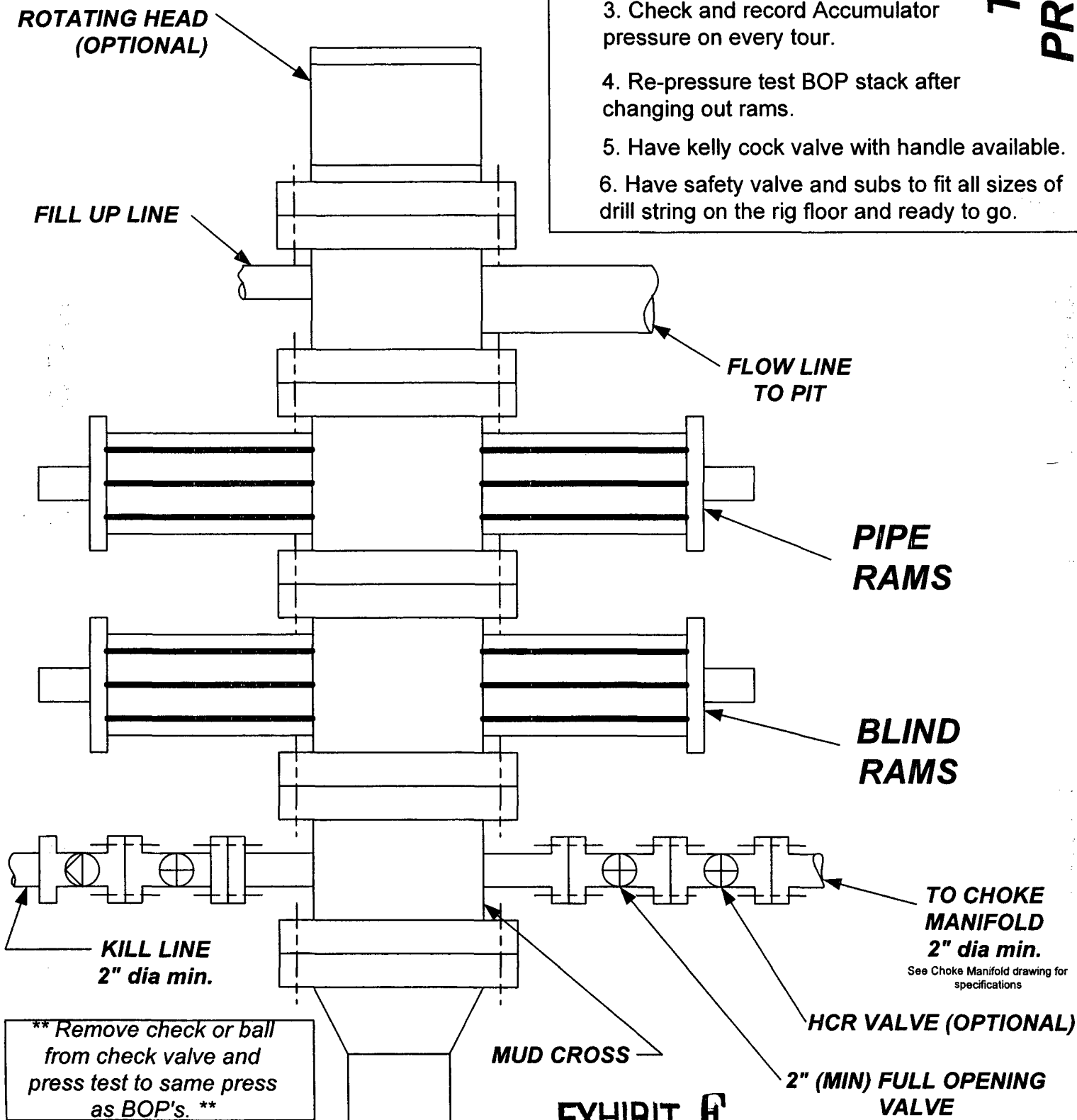
### 2. Test operation of (both) rams on every trip.

### 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.



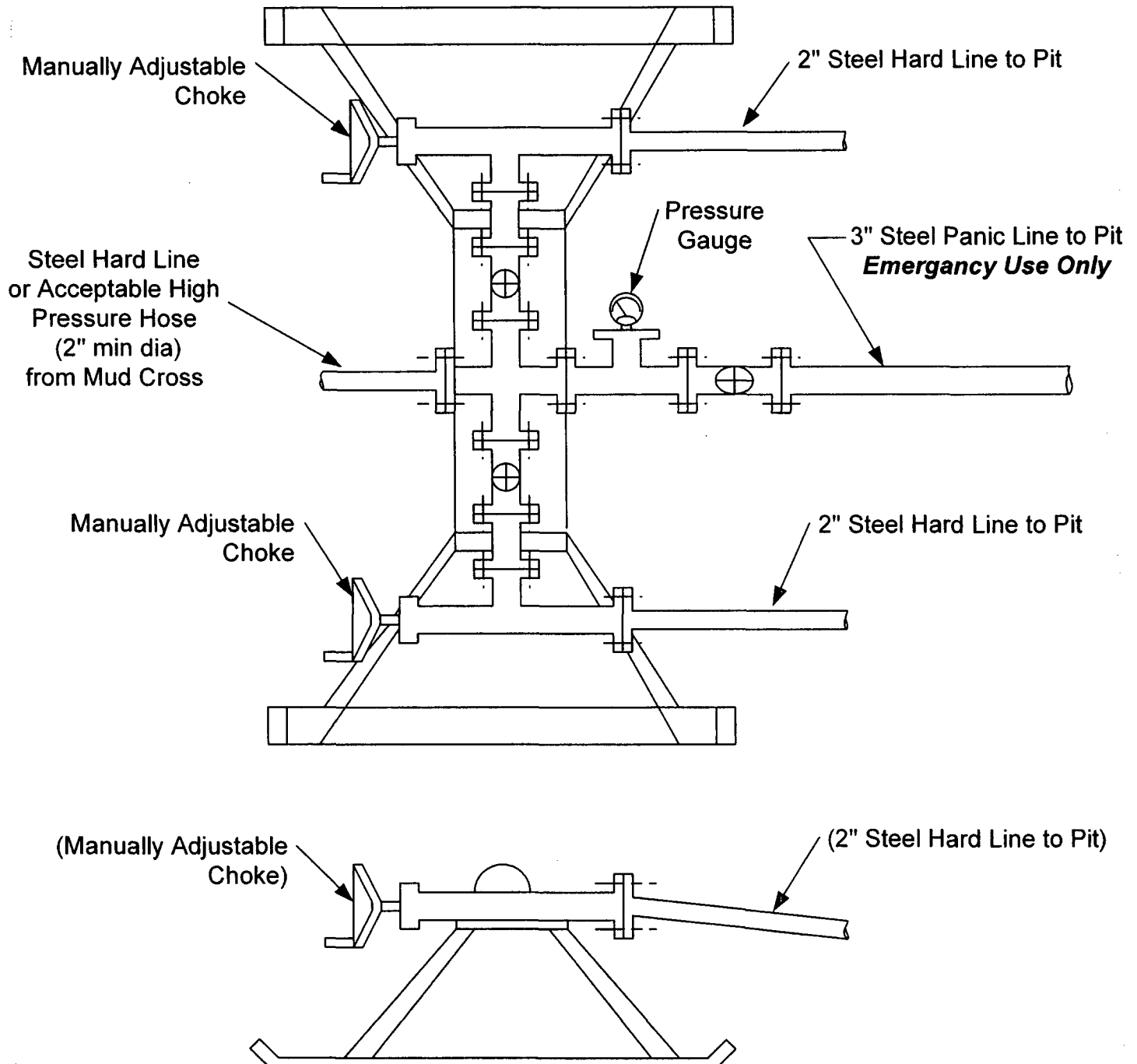
**EXHIBIT F**



# **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'**