

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 06 2007

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

APPLICATION FOR PERMIT TO DRILL OR REENTER
Bureau of Land Management
Farmington Field Office

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM 09867A
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. If Unit or CA Agreement, Name and No N/A
3a. Address 2700 Farmington Ave, Bldg K - Suite 1 Farmington NM 87402	3b. Phone No. (include area code) 505-324-1090	8. Lease Name and Well No. LUNT FC #12
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1835' FSL x 1650' FWL At proposed prod. zone same		9. API Well No. 30-045-34417
14. Distance in miles and direction from nearest town or post office* Approximately 6.7 miles Northwest of Farmington, NM post office.		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 1650'	16. No. of acres in lease 2396.32	11. Sec., T R. M. or Blk. and Survey or Area (K) SEC 8, T30N, R13W
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 550'	19. Proposed Depth 1500'	12. County or Parish San Juan
21. Elevations (Show whether DF, KDB, RT, GL, etc) 5522' GROUND ELEVATION	22. Approximate date work will start* 10/22/2007	13. State NM
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

- | | |
|--|--|
| 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 must be filed with the appropriate Forest Service Office). | 6. 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 09/04/2007
Title Regulatory Compliance		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date 9/17/07
Title AFEM		
Office FFO		

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".

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

NMOCD

APD/ROW
NOTIFY AZTEC COUNTY
PRIOR TO CASING & CEMENT

DISTRICT
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

RECEIVED
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Form C-101
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34417	² Pool Code 711629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 36166	⁵ Property Name LUNT FC	⁶ Well Number 12
⁷ GRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 5522

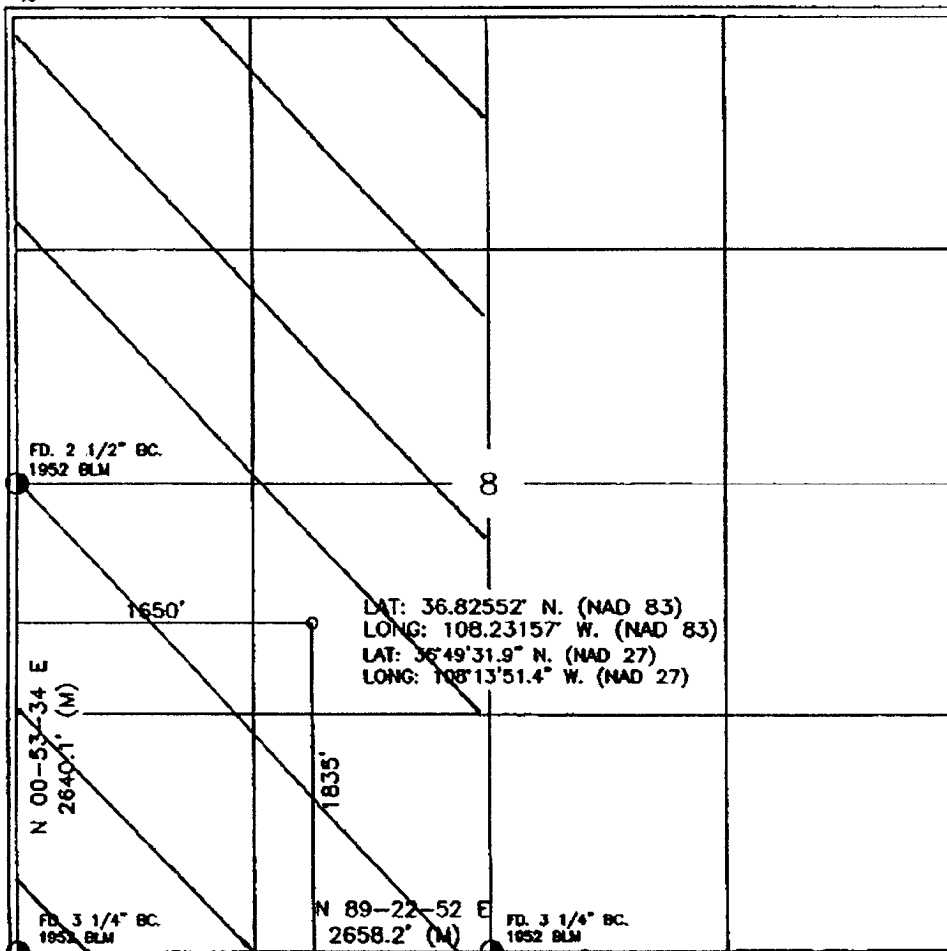
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	8	30-N	13-W		1835	SOUTH	1650	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 w/2 320					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



¹⁷ 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 released 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.

Melley Small 3/30/07
Signature Date
Melley Small
Printed Name

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.

FEBRUARY 9, 2007
Date of Survey
Signature of Registered Professional Surveyor
[Signature]
0274-07
REGISTERED PROFESSIONAL LAND SURVEYOR
Certificate Number

State of New Mexico
Energy, Minerals and Natural ResourcesOIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-045-34417
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: UNIT FC
8. Well Number #12
9. OGRID Number 5380
10. Pool name or Wildcat BASIN FRUITLAND COAL

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	11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5522' GROUND ELEVATION
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 K : 1835 feet from the SOUTH line and 1650 feet from the WEST line Section 8 Township 30N Range 13W NMPM NMPM County SAN JUAN	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type DRILL Depth to Groundwater >100 Distance from nearest fresh water well >1000 Distance from nearest surface water >200	
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: **PTT**☒

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 or closed according to NMOCD guidelines ☒ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE

*Kyla Vaughan*TITLE **Regulatory Compliance Tech** DATE **09/04/2007**

E-mail address:

kyla_vaughan@xtoenergy.comTelephone No. **505-564-6726**Type or print name **Kyla Vaughan**

For State Use Only

APPROVED BY

[Signature]

TITLE

Deputy Oil & Gas Inspector

District #3

DATE

SEP 21 2007

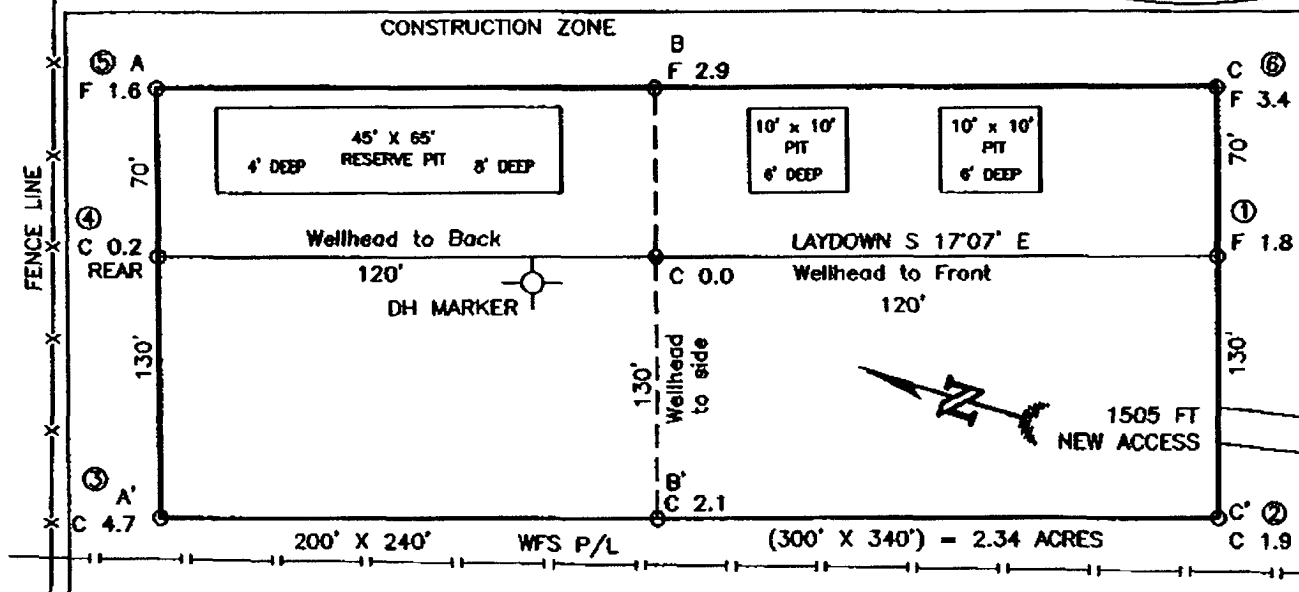
Conditions of Approval, if any:

EXHIBIT D

EXHIBIT D

XTO ENERGY INC.
LUNT FC No. 12, 1835 FSL 1650 FWL
SECTION 8, T30N, R13W, N.M.P.M., SAN JUAN COUNTY, N. M.
GROUND ELEVATION: 5522' DATE: FEBRUARY 09, 2007

NAD 83
LAT. = 36.82552° N
LONG. = 108.23157° W
NAD 27
LAT. = 36°49'31.9" N
LONG. = 108°13'51.4" 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.

ELEV. A-A' C/L

5530				
5520				
5510				
5500				

ELEV. B-B' C/L

5530				
5520				
5510				
5500				

ELEV. C-C' C/L

5530				
5520				
5510				
5500				

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 15068 • Farmington, NM 87401
Phone (505) 328-1772 • Fax (505) 328-0019
NEW MEXICO L.S. No. 8894



Drawn by: A.C.
Check by: C.F./D.P.L.
Date: 02/16/07
Sheet: 08704

EXHIBIT E

XTO ENERGY INC.

Lunt FC #12

APD Data

September 4, 2007

Location: ¹⁸³⁵1070' FSL x ^{1650 W}1095' FEL Sec 8, T30N, R13W County: San Juan State: New Mexico

GREATEST PROJECTED TD: 1500'
APPROX GR ELEV: 5522'

OBJECTIVE: Basin Fruitland Coal
Est KB ELEV: 5528' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 1500'
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 12.25" 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'-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 1500') 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'-1500	1500'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	5.63	6.70	8.69

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 G

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 $\pm 1500'$ in 7.875" hole.

1st Stage

LEAD:

± 104 sx of Premium Lite HS (Type III/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 12.5 ppg, 2.01 ft³/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.

Total estimated slurry volume for the 5-1/2" production casing is 370 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: None.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (1500') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (1500') to 3,000'.

6. FORMATION TOPS:

Est. KB Elevation: 5528'

FORMATION	Sub-Sea	MD
Fruitland Formation	4781	747
Lower Fruitland Coal	4152	1376
Pictured Cliffs SS	4135	1393
TD	4028	1500

* Primary Objective

** Secondary Objective

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

EXHIBIT G

7. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	505-566-7946	505-320-0158
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
John Klutsch	Project Geologist	817-885-2800	--

JWE
9/4/07

EXHIBIT G

CHOKES 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

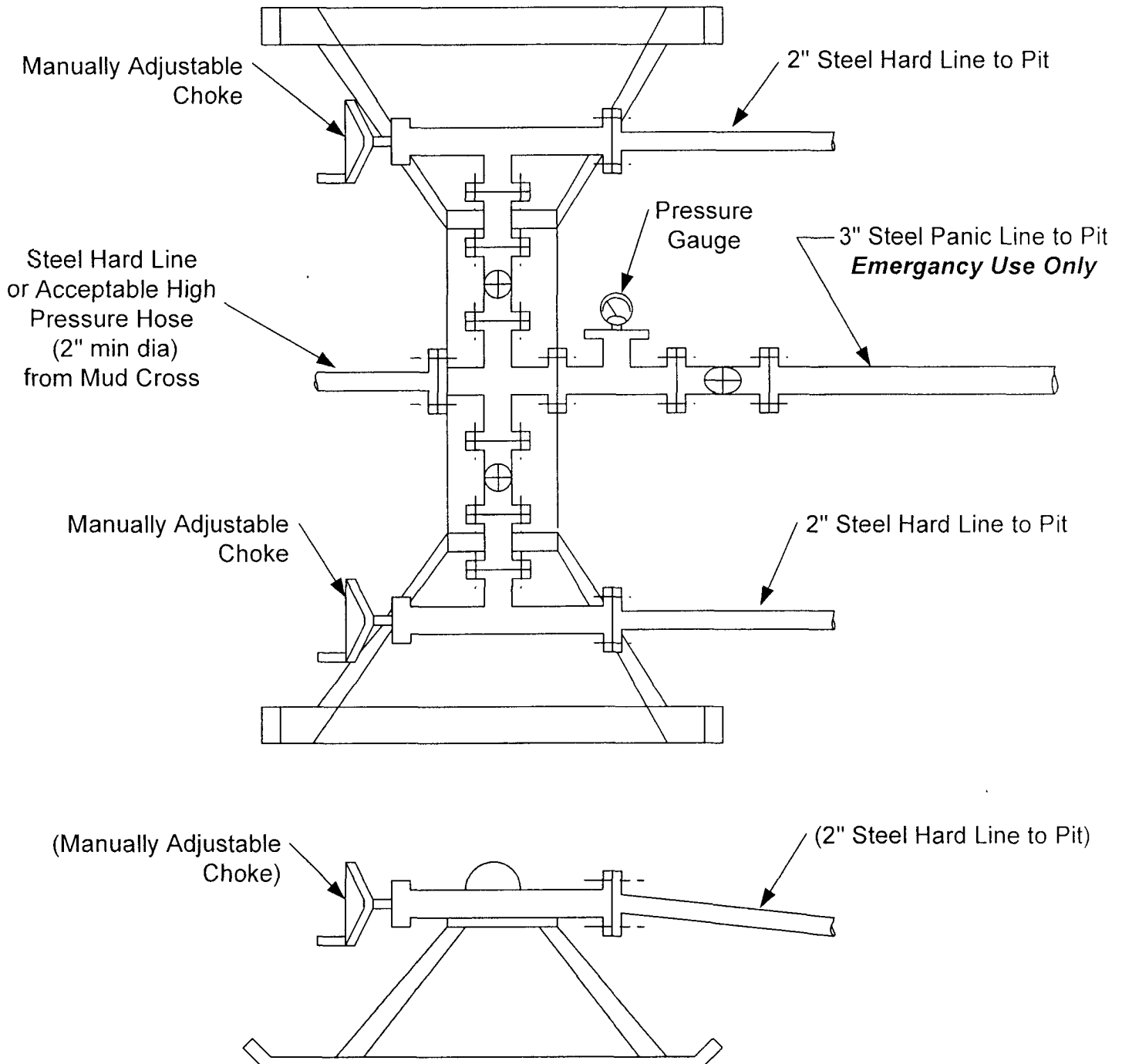


EXHIBIT G

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)

MUD CROSS

2" (MIN) FULL OPENING
VALVE

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

EXHIBIT G