

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. USA NM 09867-A	
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. Unit of CA Agreement Name and No. N/A	
3a. Address 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM		8. Lease Name and Well No. LUNT FC #4	
3b. Phone No. (include area code) 505-324-1090		9. API Well No. 30-045-34035	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 2090' ENL x 860' FWL At proposed prod. zone SAME		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL	
14. Distance in miles and direction from nearest town or post office* Approximately 12 miles Northwest of Farmington, NM post office		11. Sec., T., R., M., or Blk. and Survey or Area (F) SEC 6, T30N, R13W	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 860'		12. County or Parish SAN JUAN	
16. No. of Acres in lease 2395.24		13. State NM	
17. Spacing Unit dedicated to this well N/2 252.44		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 36'	
19. Proposed Depth 1783'		20. BLM/BIA Bond No. on file UTB000138	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5747' GROUND ELEVATION		22. Approximate date work will start* FEBRUARY 2007	
		23. Estimated duration 2 WEEKS	

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 <i>Kyla Vaughan</i>	Name (Printed/Typed) Kyla Vaughan	Date 10/24/06
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Title Regulatory Compliance Tech		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) AFU	Date 12/21/06
Title AFU		
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)

✓
HOLD 0104 FUL NSL
APD/ROW

NMOCD 8 12/28/06

Form C-102

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210DISTRICT III
1000 Rio Brava Rd., Aztec, N.M. 87410DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

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

¹ API Number 30-045-34035	² Pool Code 71629	⁴ Pool Name Basin Fruitland coal
⁵ Property Code 30166	⁶ Property Name LUNT FC	⁷ Well Number 4
⁸ OGED No. 467057	⁹ Operator Name XTO ENERGY INC.	¹⁰ Elevation 5747

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
F	6	30-N	13-W		2090	NORTH	860	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres N12 252.44			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

<p>16</p> <p>FD. 3 1/4" BC. 1952 G.L.O.</p> <p>LOT 4</p> <p>LOT 3</p> <p>LOT 2</p> <p>LOT 1</p> <p>LOT 5</p> <p>LOT 6</p> <p>LOT 7</p> <p>S 00-44-16 W 2622.80' (M)</p> <p>2090'</p> <p>860'</p> <p>FD. 2 1/2" BC. 1936 G.L.O.</p> <p>6</p> <p>N 89-26-18 E 1495.30' (M)</p> <p>LAT: 36.84365° N. (NAD 83) LONG: 106.24850° W. (NAD 83) LAT: 36°58'37.1" N. (NAD 27) LONG: 106°14'52.3" W. (NAD 27)</p>	<p>17 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 undivided 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><i>Andy Smalley</i> _____ Date</p>
<p>18</p> <p>FD. 3 1/4" BC. 1952 G.L.O.</p> <p>LOT 4</p> <p>LOT 3</p> <p>LOT 2</p> <p>LOT 1</p> <p>LOT 5</p> <p>LOT 6</p> <p>LOT 7</p> <p>S 00-44-16 W 2622.80' (M)</p> <p>2090'</p> <p>860'</p> <p>FD. 2 1/2" BC. 1936 G.L.O.</p> <p>6</p> <p>N 89-26-18 E 1495.30' (M)</p> <p>LAT: 36.84365° N. (NAD 83) LONG: 106.24850° W. (NAD 83) LAT: 36°58'37.1" N. (NAD 27) LONG: 106°14'52.3" W. (NAD 27)</p>	<p>18 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>Date of _____ Signature and _____</p> <p><i>WILLIAM VIKORICH</i> _____ REGISTERED PROFESSIONAL SURVEYOR 24-0</p> <p>Certificate Number _____</p>

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>30-045-34035</u>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <u>USA NM 09867-A</u>
7. Lease Name or Unit Agreement Name: <u>LUNT FC</u>
8. Well Number <u>#4</u>
9. OGRID Number <u>167067</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>2090</u> feet from the <u>NORTH</u> line and <u>860</u> feet from the <u>WEST</u> line Section <u>6</u> Township <u>30N</u> Range <u>13W</u> NMPM <u>NMPM</u> County <u>SAN JUAN</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>5747' GROUND ELEVATION</u>
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/> <u>72-00</u>
Pit type <u>DRILL</u> Depth to Groundwater <u>>100</u> Distance from nearest fresh water well <u>>1000</u> Distance from nearest surface water <u><1000</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 intends 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 10/24/06
Type or print name Kyla Vaughan E-mail address: kyla_v Vaughan@xtoenergy.com Telephone No. 505-564-6726

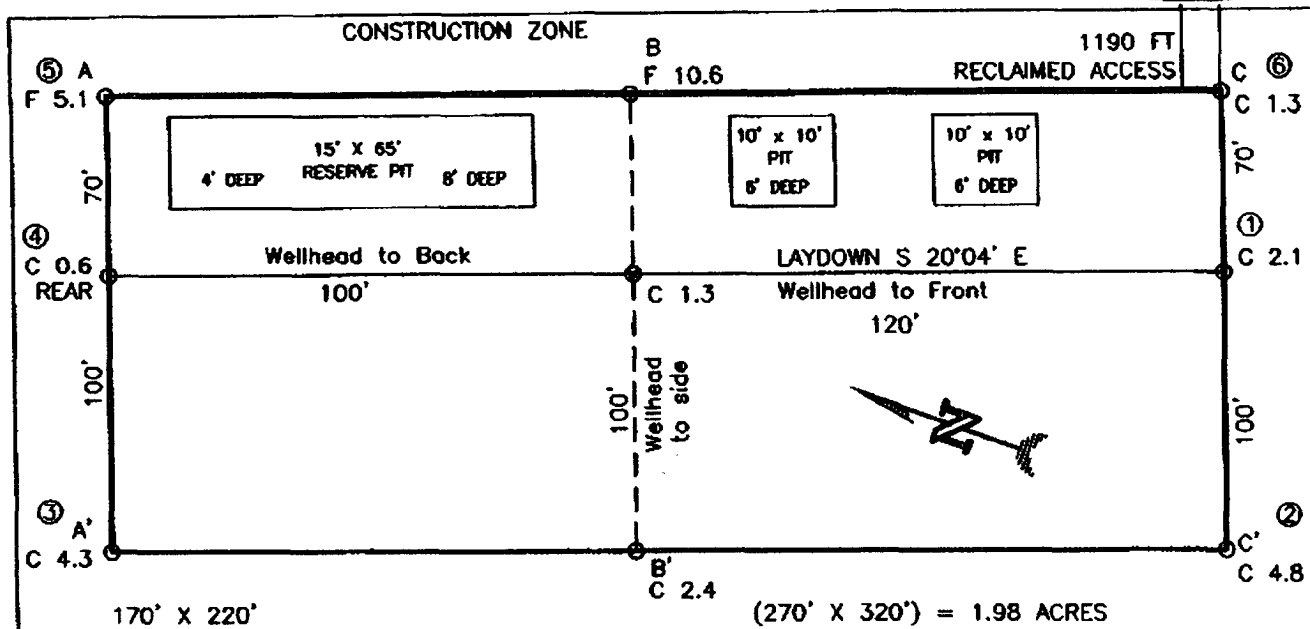
For State Use Only

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 8 DATE DEC 28 2006
Conditions of Approval, if any:

EXHIBIT D

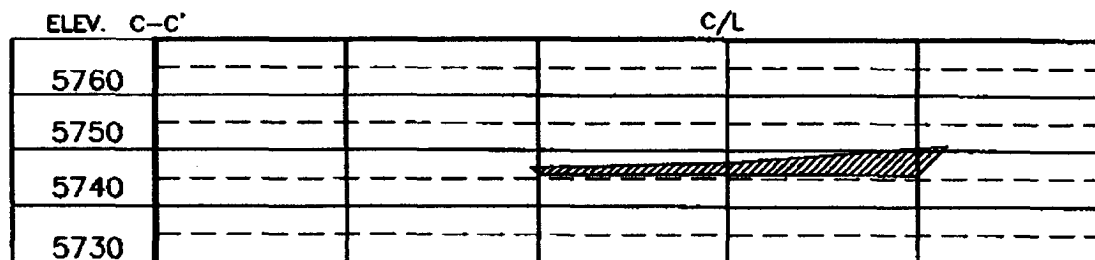
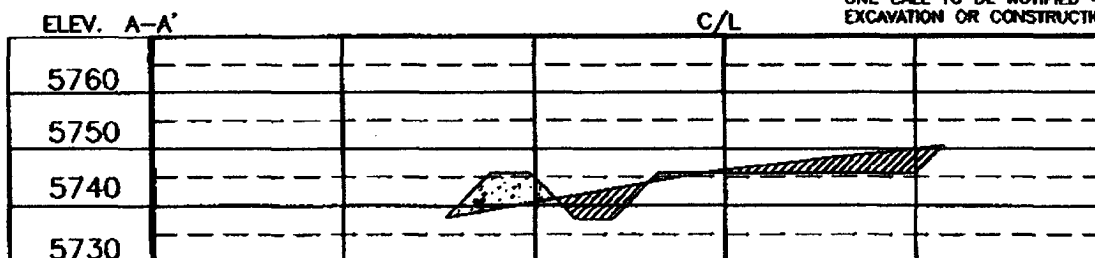
XTO ENERGY INC.
 LUNT FC No. 4, 2090 FNL 860 FWL
 SECTION 6, T30N, R13W, N.M.P.M., SAN JUAN COUNTY, N. M.
 GROUND ELEVATION: 5747' DATE: MARCH 7, 2006

NAD 83
 LAT. = 36.84365° N
 LONG. = 108.24850° W
 NAD 27
 LAT. = 36°50'37.1" N
 LONG. = 108°14'52.3" 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 15068 • Farmington, NM 87401
 Phone (505) 326-1772 • Fax (505) 326-8019
 NEW MEXICO L.S. No. 14831
 DALLAS, TEXAS




EXHIBIT E

XTO ENERGY INC.

Lunt FC #4

APD Data

October 24, 2006

Location: 2090' FNL x 860' FWL Sec 6, T30N, R13W

County: San Juan

State: New Mexico

GREATEST PROJECTED TD: 1783'
APPROX GR ELEV: 5747'

OBJECTIVE: Basin Fruitland Coal
Est KB ELEV: 5753' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 225'	225' to 1783'
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 12-1/4" 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	27.41	45.19

Production Casing: 5.5" casing to be set at TD ($\pm 1783'$) 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'-1783	1783'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	4.74	5.64	7.31

3. WELLHEAD:

- 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.
- 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 $\pm 1783'$ in 7.875" hole.

LEAD:

± 139 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 439 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. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (1783') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (1783') to 225'.

6. FORMATION TOPS:

Est. KB Elevation: 5753'

<u>FORMATION</u>	<u>Sub-Sea</u> <u>Elev.</u>	<u>WELL</u> <u>DEPTH</u>
Ojo Alamo SS		
Kirtland Shale		
Farmington SS		
Fruitland Formation*	4470	1,283
Lower Fruitland Coal*	4370	1,383
Pictured Cliffs SS	4170	1,583
Lewis Shale	4050	1,703
Total Depth	3970	1,783
	** Secondary	
* Primary Objective	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	--

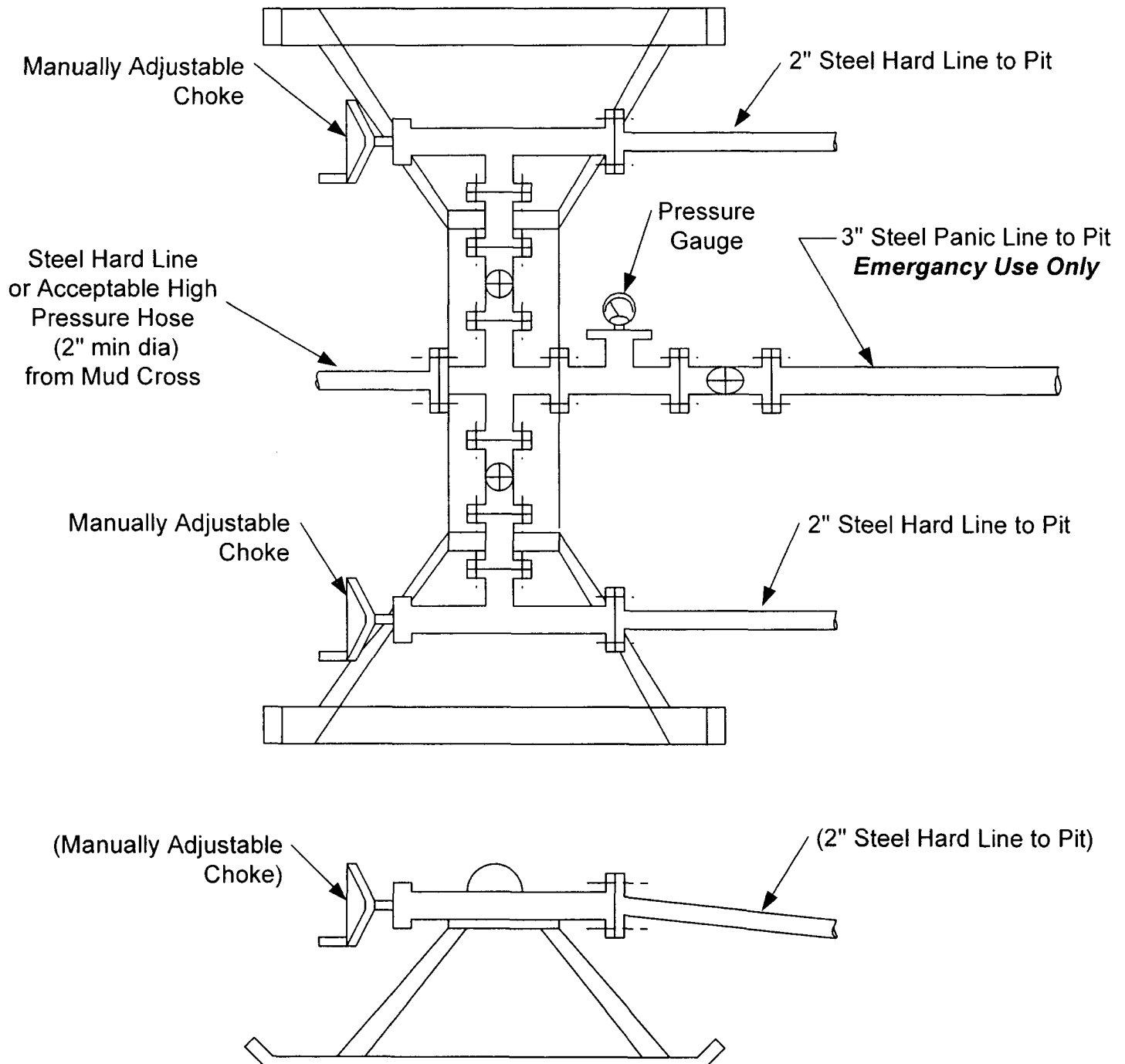
JWE
10/24/06

EXHIBIT G

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



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 G

