Form 3160-3
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0136
Expires January 31, 2004

RECEIVED
2005 MAR 29 PM 4:18
070 Farmington, NM

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMSF - 0079756A

1a. Type of Work: [X] DRILL [ ] REENTER

6. If Indian, Allotee or Tribe Name:

1b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

7. Unit or CA Agreement Name and No.:

2. Name of Operator: XTO Energy Inc.

8. Lease Name and Well No.: Ruben Canyon #1

3a. Address: 2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM

3b. Phone No. (include area code):

9. API Well No.: 30039276 78

4. Location of Well (*Report location clearly and in accordance with any State equirements*.*)

At surface: 830' FSL x 1,265' FEL in sec 3, T29N, R04W

At proposed prod. zone:

10. Field and Pool, or Exploratory: Basin Fruitland Coal

11. Sec., T., R., M., or Blk. and Survey or Area: Sec 3, T29N, R04W

14. Distance in miles and direction from nearest town or post office*: 45 miles of the Bloomfield, NM Post Office

12. County or Parish: Rio Arriba

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
830'	2,235.70	319.69 E/2
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	**19. Proposed Depth**	**20. BLM/BIA Bond No. on file**
3,000'	4,000'	
21. Elevations (Show whether DF, KDB, RT, GL, etc.	**22. Approximate date work will start***	**23. Estimated duration**
6,980' ungraded ground	Summer 2005	1 week

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.
2. A Drilling Plan
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signuature	Name (*Printed/Typed*)	Date
JW Patton	Jeffrey W. Patton	3/26/04

Title: Drilling Engineer

Approved by (Signautre)	Name (*Printed/Typed*)	Date
		7/15/05
Title: Acting Field Manager - Minerals	Office	

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 knowlingly 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 Reverse)

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

APD/ROW

NMOCD

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-039-27678	71629	Basin Fruitland Coal

4 Property Code	5 Property Name	6 Well Number
34958	RUBEN CANYON	1

7 OGRID No.	8 Operator Name	9 Elevation
167067	XTO ENERGY INC.	6980

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
P	3	29-N	4-W		830	SOUTH	1265	EAST	RIO ARRIBA

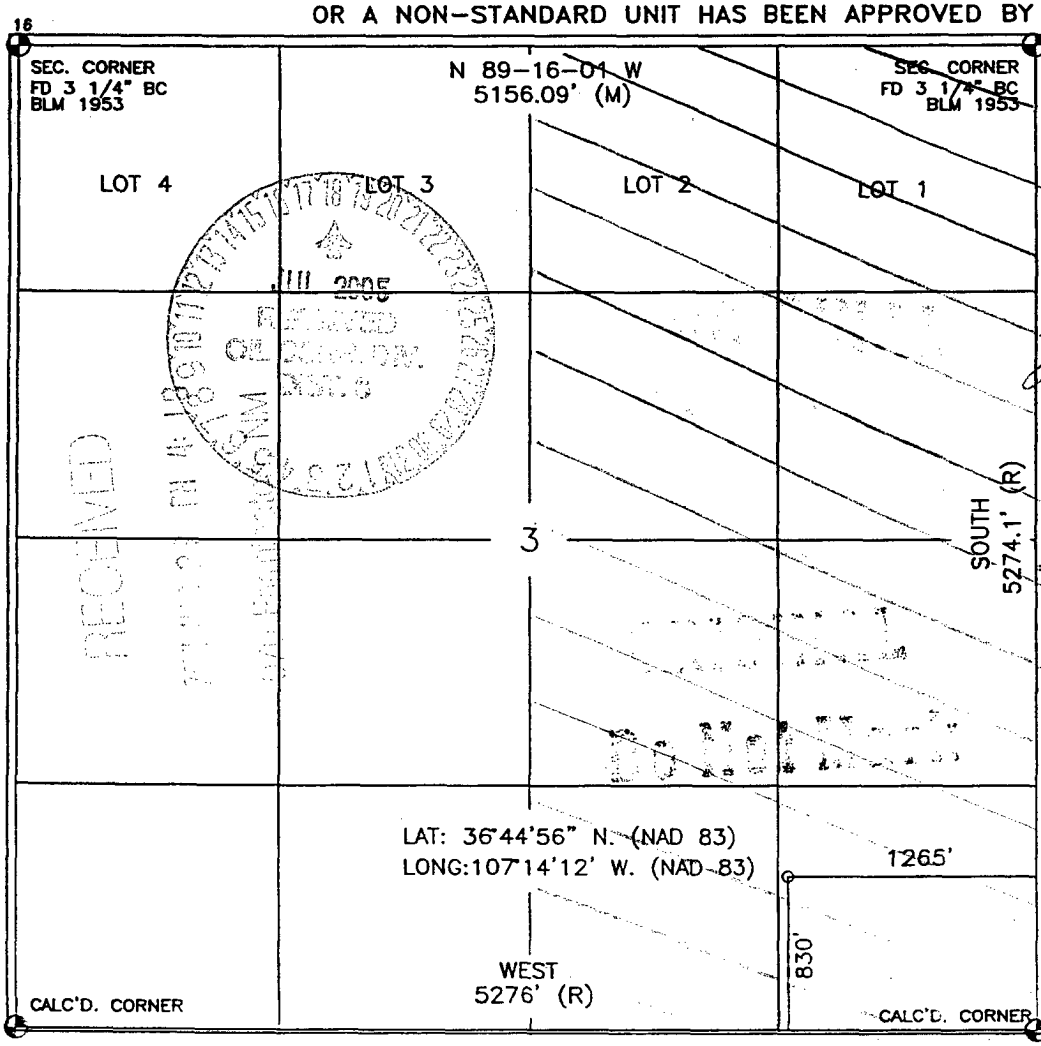
11 Bottom Hole Location If Different From Surface

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	13 Joint or Infill	14 Consolidation Code	15 Order No.
319.69 E/2			

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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature: Kelly K Small

Printed Name: Kelly K Small

Title: Drilling Assistant

Date: 6/11/03

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.

Date of Survey

Signature and Seal of Professional Surveyor:

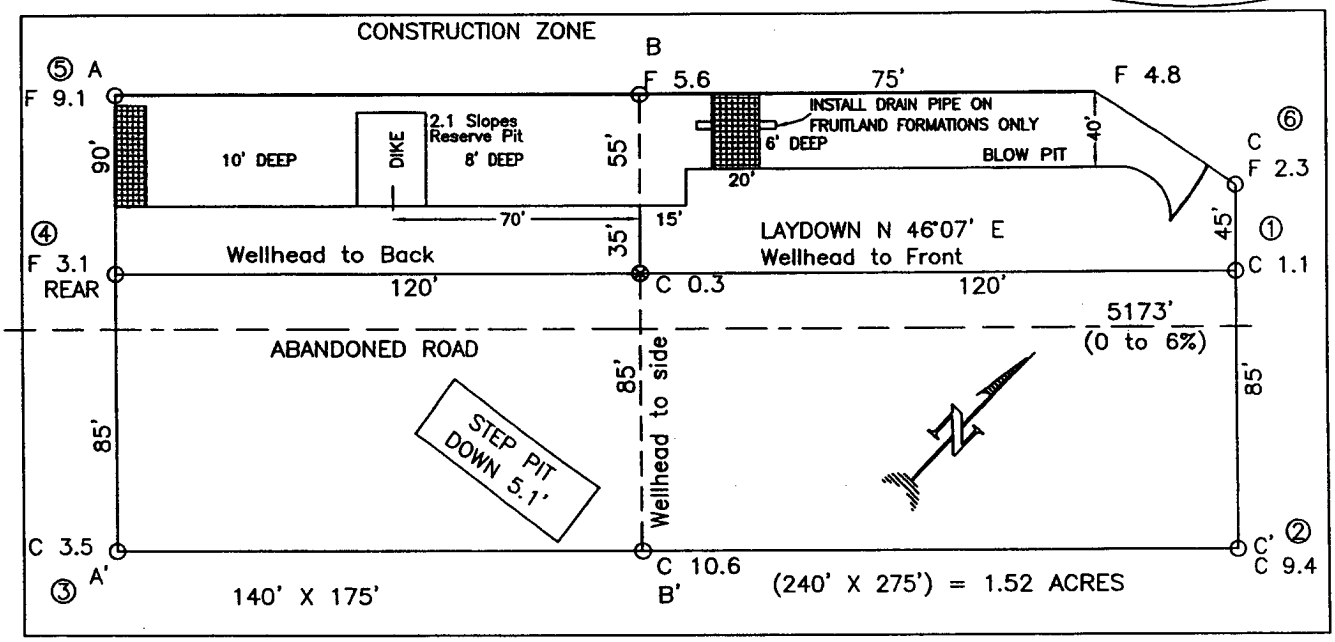
DAVID A. JOHNSON
NEW MEXICO
14827
REGISTERED PROFESSIONAL SURVEYOR

14827

Certificate Number

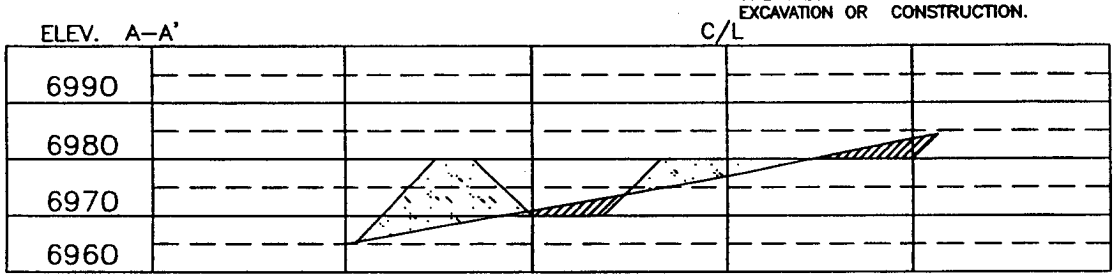
XTO ENERGY INC.
RUBEN CANYON No. 1, 830 FSL 1265 FEL
SECTION 3, T29N, R4W, N.M.P.M., RIO ARRIBA COUNTY, N. M.
GROUND ELEVATION: 6980, DATE: MAY 29, 2003

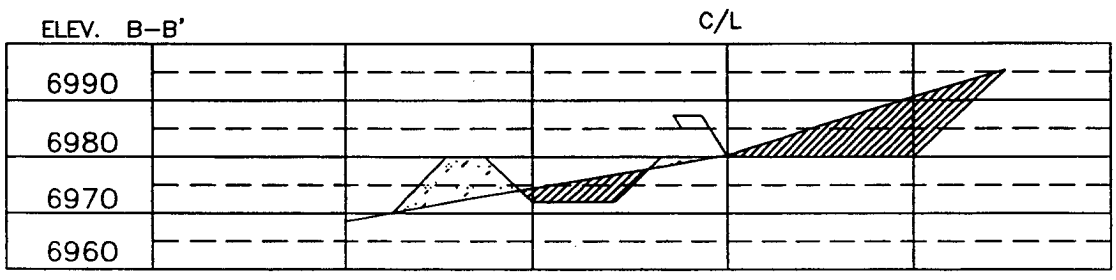
LAT. = 36°44'56" N
LONG. = 107°14'12" W
NAD 83

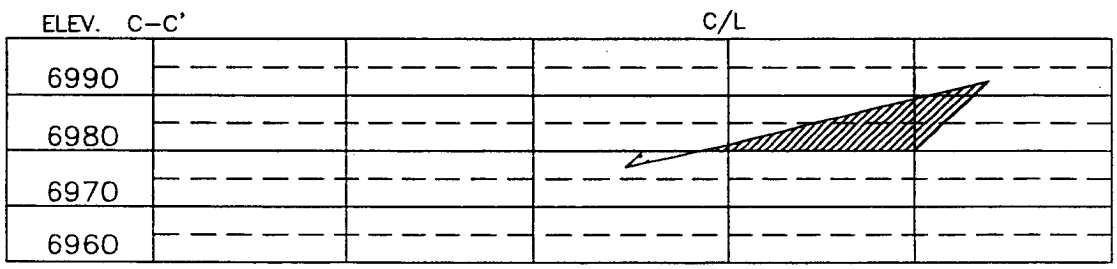


RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW – 3' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

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.

DRAWN BY: A.G. ROW#: CR090 CADFILE: CR090CF8 DATE: 12/03/01

REVISION: RESTAKE BY: A.G. DATE: 06/03/03

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. O. Box 15068 Farmington, NM 87401
Phone (505) 326-1772 Fax (505) 326-6019

EXHIBIT D

XTO ENERGY INC.

Ruben Canyon #1
APD Data
March 26, 2004

Location: Surface: 830' FSL & 1,265' FEL, Sec 3, T29N, R04W **County**: San Juan **State**: New Mexico

PROJECTED TOTAL DEPTH: ±4,000' (MD) OBJECTIVE: Fruitland Coal
GR ELEV: 6,980' Est KB ELEV: 6,992' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 3,500'	3,500' to TD
HOLE SIZE	12-1/4"	7-7/8"	7-7/8"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND
WEIGHT	8.6-9.0	8.4-8.8	8.6-9.0
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. Pre-treat with 20% LCM @ 3,500'. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity (>85 sec) at TD for logging. Reduce viscosity after logging for cementing purposes.

2. CASING PROGRAM:

Surface Casing: 8-5/8" casing to be set at ± 360' in 8.8 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#	J-55	STC	1370	2950	244	8.097	7.972	7.32	7.95	29.39

Production Casing: 4-1/2" casing to be set at TD in 9.0 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'-TD	4,000'	10.5#	J-55	STC	4010	4790	132	4.052	3.875	1.66	1.33	2.44

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), 4-1/2" 8rnd female thread on bottom, 8-5/8" 8rnd thread on top.

EXHIBIT E

4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):

A. Surface: 8-5/8", 24#, J-55, STC casing to be set at ± 360'.

Lead: 210 sx of Type III or equivalent cement containing accelerator and LCM typically mixed at 14.6 ppg, 1.41 ft^3/sk, & 6.30 gal wtr/sk.

Total slurry volume is 296 ft^3, ±100% excess of calculated annular volume to 360'.

B. Production: 4-1/2", 10.5#, J-55, STC casing to be set at ±4,000'.

Lead: 350 sx of Type III w/3% extender, 1/4#/sx celloflake & 2% Phenoseal (LCM) mixed at 11.4 ppg, 2.89 cuft/sx & 17.4 gals/sx water.

Tail: 150 sx Premium Lite HS (65%/35%/6%) w/2% KCl, 1/4#/sx cello, 0.35% dispersant, 0.25% fluidloss additive & 5 #/sx gilsonite mixed @ 12.5 ppg, 2.01 cuft/sx & 10.7 gals/sx water.

Total estimated slurry volume (including 40% excess) for the 4-1/2" production casing is 1,311 ft^3.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 40%.

5. LOGGING PROGRAM:

A. Open Hole Logs as follows: Run Dual Induction/SFL/GR/SP fr/TD (±4,000') to the bottom of the surface csg. Run CNL/LDT (Lithodensity)/GR/Cal and Pe from TD to the bottom of the surface casing.

EXHIBIT E

6. FORMATION TOPS:

Formation	Subsea Depth	Well Depth (MD)
Ojo Alamo SS	+3968'	3024'
Kirtland Shale		
Farmington SS		
Fruitland Formation	+3750	3242'
Lower Fruitland Coal		
Pictured Cliffs SS	+3350'	3642'
Lewis Shale	+3100'	3892'
Projected TD	+2992'	4000'

* Target Reservoir. Maximum anticipated reservoir pressure will be ±1,000 psig.

7. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
Jeff Patton	Drilling Engineer	505-324-1090	505-632-7882
Dennis Elrod	Drilling Foreman	505-486-6460 (cell)	505-326-2024
Reed Meek	Project Geologist	817-885-2191	432-687-0615
Barry Voigt	Reservoir Engineer	817-885-2462	817-540-2092

JWP
3/26/04

EXHIBIT E

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 5 min.
   Test BOP to Working Press or to 70% internal yield of surf csg (10 min).
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.

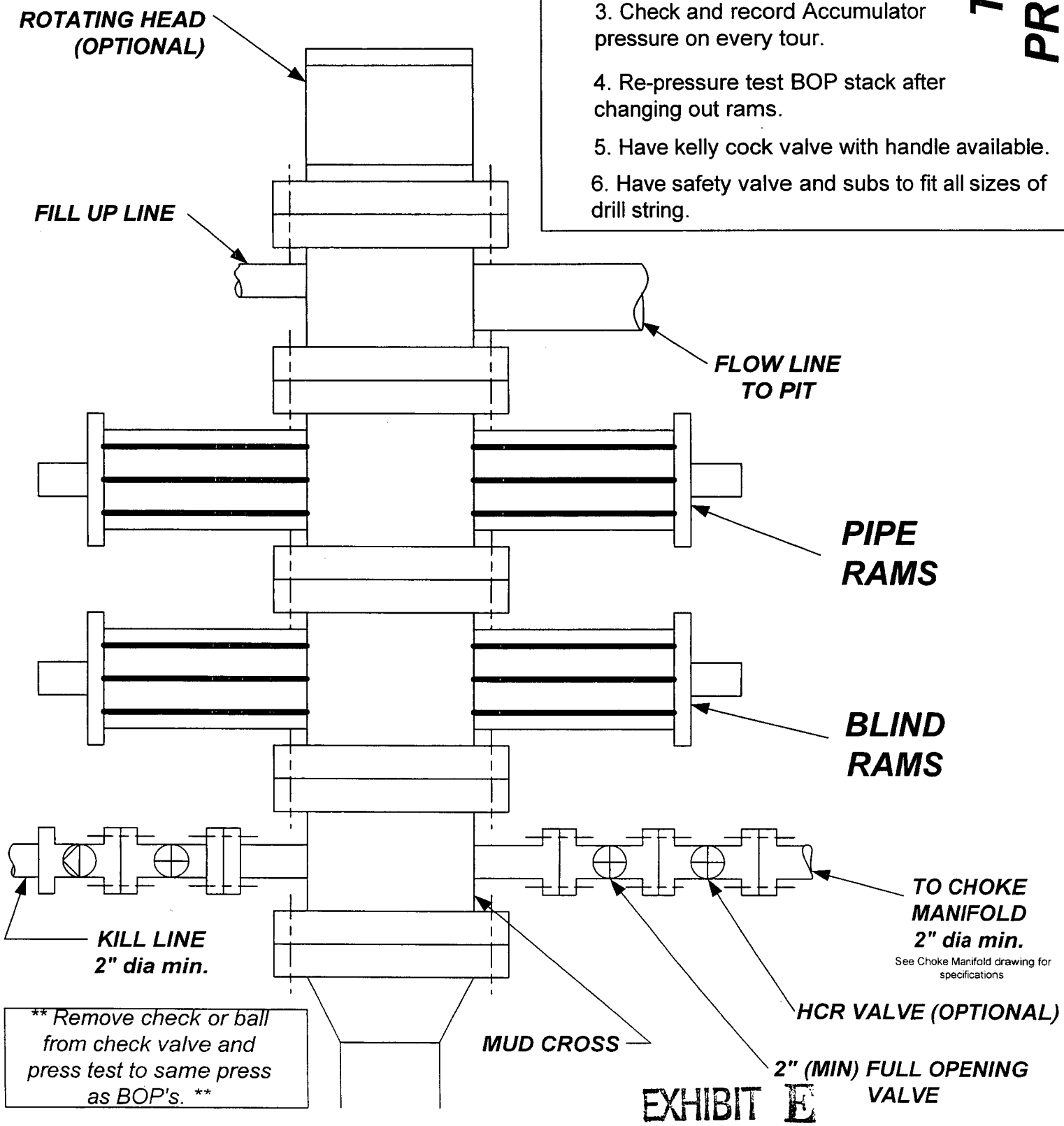


EXHIBIT E

CHOKE MANIFOLD
SCHEMATIC FOR DRILLING OPERATIONS
CLASS 1 (2M) NORMAL PRESSURE

TESTING PROCEDURE

1. Stake all lines from choke manifold to pit.
2. Pressure test choke monifold after installation.
3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

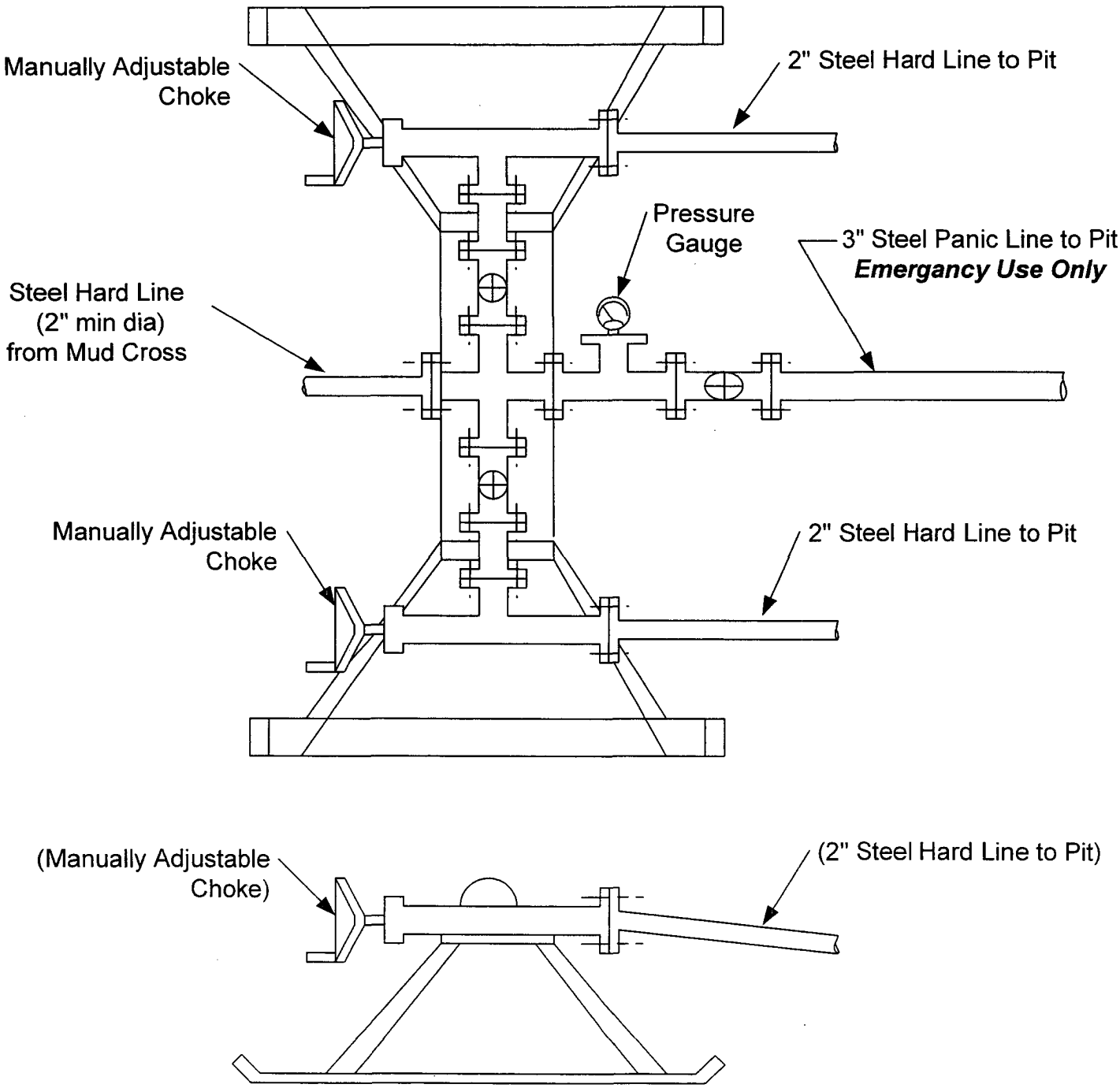


EXHIBIT E