DIST. 3

Form 3160-3 (February 2005)

#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPK	OVED
OMB	No. 1004	4-0137
		31, 200
2		,

5.	Lease Serial No.	-6	Du	0	77	3	8

6.	If Indian, Allotee or Tribe Name	12:	nr
	RECENT		~ (

APPLICATION FOR PERMIT TO	APPLICATION FOR PERMIT TO DRILL OR REENTER								
la. Type of work: DRILL REENTE	ER.		7 If Unit of CA Agre	NNM-73958-DK					
lb. Type of Well. Oil Well Gas Well Other	Single Zone Multip	le Zone	<ol> <li>Lease Name and V</li> <li>KUTZ FEDER</li> </ol>	Vell No.					
2. Name of Operator XTO Energy, Inc.			9. API Well No. 38-845- 34	383					
3a. Address 2700 Farmington Ave, Bldg K - Suite 1 Farmington NM 87402		10. Field and Pool, or Exploratory  DK - WC BASIN MC - CH							
4. Location of Well (Report location clearly and in accordance with art  At surface 1220' FSL x 2525' FWL		11. Sec., T. R. M. or B	lk. and Survey or Area						
At surface 1220 FSL x 2525 FWL  At proposed prod. zone same			(N) SEC 21, T	28N, R10W					
14. Distance in miles and direction from nearest town or post office*			12 County or Parish	13. State					
Approximately 6.5 miles Southeast of Bloomfield, NM pos	t office	ĺ	SAN JUAN	NM					
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)  1220'	16. No. of acres in lease		g Unit dedicated to this w						
(Time to nome of the line, if they)	19. Proposed Depth	20 BLM/F	BIA Bond No. on file						
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	7878" 7000'		-000138						
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approximate date work will star	t*	23. Estimated duration	1					
6047' GROUND ELEVATION	09/15/2007		2 weeks						
	24. Attachments								
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, must be at	tached to thi	s form:						
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	4. Bond to cover the Item 20 above)	ne operation	ns unless covered by an	existing bond on file (see					
3. A Surface Use Plan (if the location is on National Forest System)	Lands, the 5. Operator certific	ation							
SUPO must be filed with the appropriate Forest Service Office).	6. Such other site BLM.	specific info	rmation and/or plans as	may be required by the					
25. Signature was augustan	Name (Printed/Typed)  Kyla Vaughan			Date 98/93/2007					
Title Regulatory Compliance									
Approved by (Signature) Manchecles	Name (Printed/Typed)	•		Date 15/16/15 7					
Title AFM	Office FFO								
Application approval does not warrant or certify that the applicant hold	s legal or equitable title to those righ	ts in the sub	ject lease which would e	ntitle 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)

SEE ATTACHED FOR **CONDITIONS OF APPROVAL** 

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT



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

NMOCD

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DISTRICT I 1825 N. Franch Dr., Hobbs, N.M. 88240

DISTRICT 8 1301 W. Grand Ave., Artesia, H.M. 88210

State of New Mexico Energy, Minerals & Natural Resources Department

\$ 89-50-20 E 2637.55' (C)

FD. 2 1/2" BC. 1913 G.L.O.

CALC'D. CORNER BY DEL PROP.

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease 4 Copies

1000 Rio Brozos R	d. Aztoc, N	I.M. 87410			Santa F	e, NA	87505			RE	CS/L/	
DISTRICT IV 1220 South St. Fro	ancle Or Se	onta fe. NW 8	7505						ર.	10 rg 0	, amen	IDED REPORT
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					KUTZ	FEDE	RAL					12F
700ma no 5380					XTO E	erator P NERG						Elevation 6047
					10 Surf	oce	Location					
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DISTRICT I 1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office

SSHOMAL UM

EISTRICT II 1301 III. Grand Ave., Artesia, N.M. 88210

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

OISTROCT III 1000 Rio Brazos Rd., Axtoc, N.M. 87410

CALC'D. CORNER BY DBL PROP.

ppropriate District Units
State Lease - 3 Copies
Fee Lease - 3 Copies

DISTRICT IV 1220 South St. Francia Dr., Santa Fe, NM 87505 CO FAMILY ED WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>8</sup>Property Name 12F KUTZ FEDERAL <sup>4</sup>Operator Home Devation OCINO No. XTO ENERGY INC. 6047 <sup>10</sup> Surface Location East/West line UL or lat no. Township Lot Idn Feet from the North/South line Feet from the County Range 28-N 10-W 1220 SOUTH 2525 WEST SAN JUAN Ν 21 "Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the East/West line County Dedicoted Acres <sup>13</sup> Joint or In陳 \*Consolidation Code <sup>65</sup>Order No. 160 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 15 OPERATOR CERTIFICATION bersby cartily that the information contained herein tree and complete to the best of my broadedge and iet, and that this ergentration either come a working great or selected referred interest in the lend unding the proposed bettom hole leading or hos a including the proposed bettom hole location or hos origins to drift this well at this becation pursuant to a FD. 2 1/2" 9C. Printed Name 21 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by SURFACE LOCATION are or under thy supervision, and that the same is true and correct to the best of my ballet. LAT: 36.64387" N. (NAD 83) LONG: 107.90132" W. (NAD 83) LAT: 36'38'37.9" N. (NAO 27) LONG: 107'54'04.8" W. (NAD 27) **DECEMBER 27, 2006** છ 2528 89-50-20 E

FD. 2 1/2" 9C. 1913 GL.O.

2637.55' (C)

DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 1/3 Copies

AMENDED REPORT

DISTRICT 8 1301 W. Grand Ave., Artesia, M.M. 88210 DISTRICT III 1000 Rio Brazos Rd., Aztac, N.M. 87410

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

DISTRICT IV

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Submit 3 Copies To Appropriate District Office	State of New M Energy, Minerals and Natu			Form C-103 May 27, 2004
District I 1625 N. French Dr., Hobbs, NM 87240	21.0.6), 1.1		WELL API NO.	
District II	OIL CONSERVATIO	N DIVISION	30.045	5.34383
1301 W. Grand Ave., Artesia, NM 88210	1220 South St. Fr		5. Indicate Type of Le	ase
District III 1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8		STATE	FEE 🗆
District IV. 1220 S. St. Francis Dr., Santa Fe, NM 87505	,		6. State Oil & Gas Lea	ase No.
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPLIC		OR PLUG BACK TO A	7. Lease Name or Unit	t Agreement Name:
PROPOSALS.)  1. Type of Well:  Oil Well  Gas Well	Other		8. Well Number	
2. Name of Operator	Outer		9. OGRID Number	
XTO Energy Inc.			5380	
3. Address of Operator			10. Pool name or Wild	icat
2700 Farmington Ave., Bldc	. K. Ste 1 Farmington, N	M 87401	BASIN DK/WC BASIN	MC/OTERO CH
4. Well Location			1	
Unit Letter N :	1220 feet from the SO	UIH line and	2525 feet from th	e WEST line
Section 21	Township 28N	Range 10W	NMPM NMPM C	County SAN JUAN
	11. Elevation (Show whether 6047 GRO		tc.)	
Pit or Below-grade Tank Application 🛛	or Closure			
Pit type DRILL Depth to Groundwater	>100 Distance from nearest fres	h water well <u>&gt;1000</u> Di	stance from nearest surface w	vater >1000
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	8000 bbls; Constructi	on Material	
12. Check A NOTICE OF INTERPERSORM REMEDIAL WORK	ppropriate Box to Indicate  NTION TO:  PLUG AND ABANDON	1	SEQUENT REPO	
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILL		PLUG AND  ABANDONMENT
PULL OR ALTER CASING	MULTIPLE COMPLETION	CASING TEST AND CEMENT JOB		
OTHER: PIT	X	OTHER:		
13. Describe proposed or completed		<del></del>	a partinant datas, includis	ng agtimated data
of starting any proposed work). or recompletion.		e Completions: Attac		
I hereby certify that the information al grade tank has been will be constructed or c				
1/	inhan			
SIGNATURE TO VO	<del></del>		ompliance Tech DA	
Type or print name Kyta Vaughan	E-	mail address: ky	la_vaughan@xtoenergy Telephon	e No. 505-564-6726
For State Use Only		Deputy Oil & (	Gas Inspector.	` <b>@.</b> ~~
APPROVED BY	the TI	TLE Distri		E OCT 2 6 2007
Conditions of Approval, if airy:	•		EXHIBI	TD

#### Operator Certification:

a. Permitting and Compliance:

Kyla Vaughan Regulatory Compliance XTO Energy Inc. 2700 Farmington Avenue, Bldg K, Ste 1 Farmington, NM 87401 505-324-1090

b. Drilling and Completions:

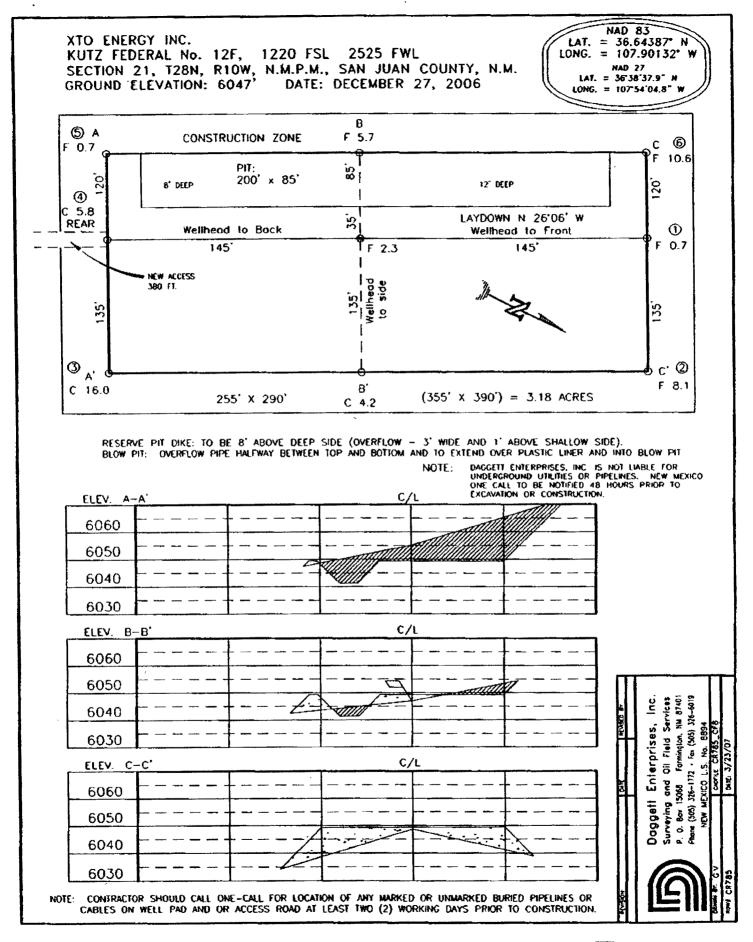
John Egelston XTO Energy Inc. 2700 Farmington Avenue, Bldg K, Ste 1 Farmington, NM 87401 505-324-1090

c. Certification:

I herby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be preformed by XTO Energy Inc. and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided by XTO Energy Inc. This statement is subject to provisions of 18 U.S.C. § 1001 for the filing of a false statement.

Signature:

la Vaughan



#### XTO ENERGY INC.

#### Kutz Federal #12F APD Data August 2, 2007

Location: 1220' FSL x 2525' FWL Sec 21, T28N, R10W County: San Juan State: New Mexico

GREATEST PROJECTED TD: 7070'

OBJECTIVE: Basin Dakota / Otero Chacra / Basin Mancos

Est KB ELEV: 6047' (12' AGL)

#### 1. MUD PROGRAM:

APPROX GR ELEV: 5865'

INTERVAL	0' to 360'	360' to 2500'	2500' to 7070'
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

					Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	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 ( $\pm 7070$ ') in 7.875" hole filled with 9.20 ppg mud.

					Coll Rating	Burst Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-7070	7070'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.19	1.42	1.84

#### 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 F

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

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. <u>Production:</u> 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at  $\pm 7070$ ' in 7.875" hole. DV Tool set  $\textcircled{a} \pm 4100$ '

1<sup>st</sup> Stage

#### LEAD:

±243 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:

 $\pm 341$  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  $1725 \text{ ft}^3$ .

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 (7070') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7070') to 400'.

EXHIBIT F

#### 6. FORMATION TOPS:

Est. KB Elevation: 6047'

FORMATION	Sub-Sea	TVD	MD	FORMATION	TV Sub-Sea	TVD	MD ,
Ojo Alamo SS	5056	1003	\ ,1006 /	Gailup	473	5586	5640
Kirtland Shale	4925	1134	1138	Greenhorn	-302	6361	642/4
Farmington SS			117	Graneros	-361	6420	6483
Fruitland Formation	4498	1561	569	Dakota 1*	-394	6453	6517
Lower Fruitland Coal	3998	2061	2076	Dakota 2*	-417,	6476	6540
Pictured Cliffs SS	3974	2085	2099	Dakota 3*	-478	6537	6602
Lewis Shale	3805	2254	27/1	Dakota 4*	-552	6611	6676
Chacra SS	3008	3051	3/07	Dakota 5*	-582	6641	6707
Cliffhouse SS*	2403	3656	7688	Dakota 6*	-612	6671	6738
Menefee**	2311	3748	3782	Burro Canyon	-672	6731	6798
Point Lookout SS*	1700	4359	4400	Morrison*	-726	6785	6853
Mancos Shale	1325	4734	4779	TD	-941	7,000	7070

<sup>\*</sup> Primary Objective \*\* Secondary Objective

#### 7. <u>COMPANY PERSONNEL:</u>

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	

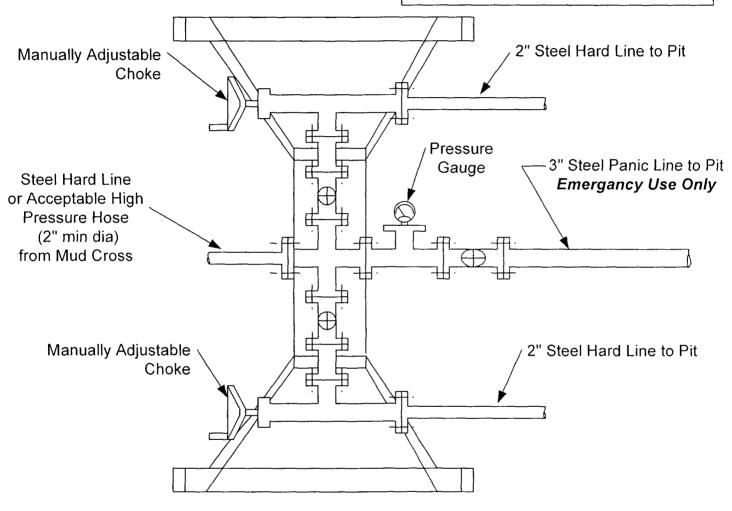
JWE 8/2/07

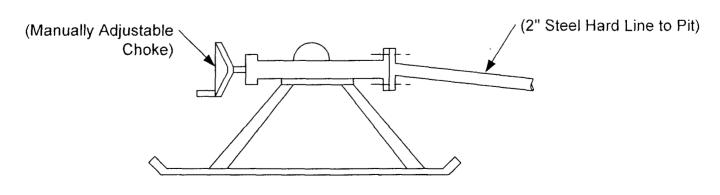
<sup>\*\*\*\*</sup> Maximum anticipated BHP should be <2,000 psig ( <0.30 psi/ft) \*\*\*\*\*

# 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.

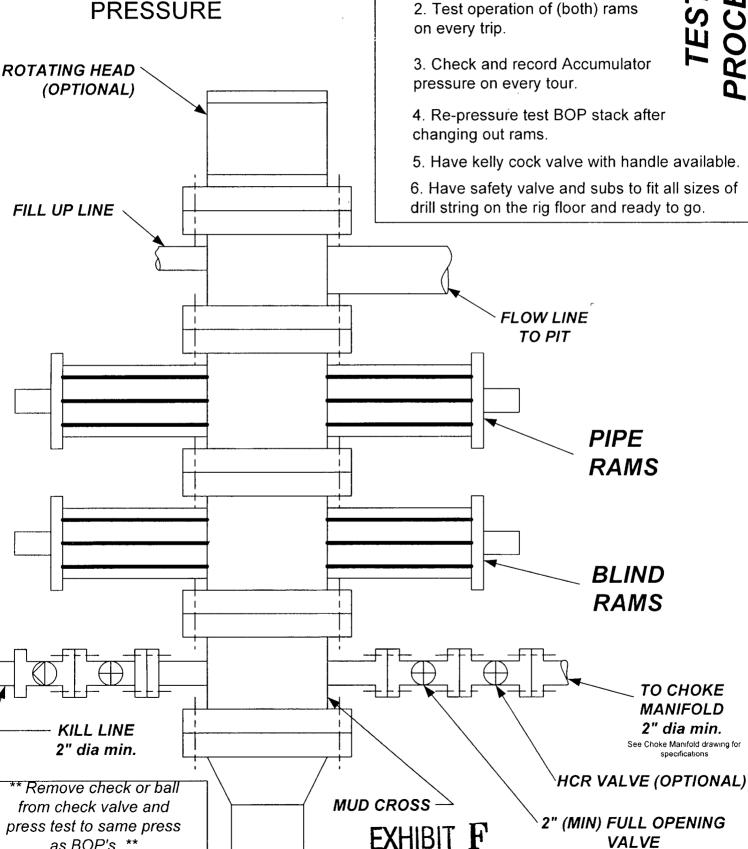
# TESTING PROCEDURE





### **BOP SCHEMATIC FOR DRILLING OPERATIONS** CLASS 1 (2M) NORMAL **PRESSURE**

as BOP's. \*\*



1. Test BOP after installation:

Pressure test BOP to 200-300 psig (low pressure) for 10 min.

Test BOP to Working Press or

(10 min) or which ever is less.

to 70% internal yield of surf csg

VALVE