

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT


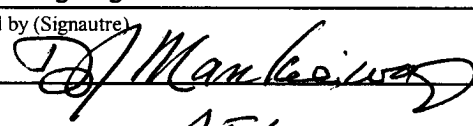
FORM APPROVED  
OMB NO. 1004-0136  
Expires January 31, 2004

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>SF - 079319</b>
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator <b>XTO Energy Inc.</b>		7. Unit or CA Agreement Name and No.
3a. Address <b>2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM</b>		8. Lease Name and Well No. <b>Schwerdtfeger "A" #24</b>
3b. Phone No. (include area code) <b>505-324-1099</b>		9. API Well No. <b>3004532231</b>
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface <b>2070' FNL x 1345' FWL sec 8, T27N, R08W</b> At proposed prod. zone <b>2420' FNL x 1490' FWL sec 8, T27N, R08W</b>		10. Field and Pool, or Exploratory <b>Basin Dakota / Blanco Mesaverd</b>
14. Distance in miles and direction from nearest town or post office* <b>This well location is approx 25 southeast of Bloomfield, NM.</b>		11. Sec., T., R., M., or Blk. and Survey or Area <b>Sec 8, T27N, R08W</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) <b>1345'</b>	16. No. of Acres in lease <b>2516.33</b>	12. County or Parish <b>San Juan</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1023'</b>	19. Proposed Depth <b>7,200' MD</b>	13. State <b>NM</b>
20. BLM/BIA Bond No. on file	21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6,196' GL</b>	22. Approximate date work will start* <b>Summer 2004</b>
23. Estimated duration <b>3 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:

- |   |  |
|---|--|
| 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 	Name (Printed/Typed) <b>Jeffrey W. Patton</b>	Date <b>3/12/04</b>
Title <b>Drilling Engineer</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>JEFF</b>	Date <b>6-8-04</b>
Title <b>AFM</b>		

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 Reverse)

HOLD G104 FOR Directional Survey

APD/ROW

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  
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

<sup>1</sup> API Number 30045-32231		<sup>2</sup> Pool Code 71599		<sup>3</sup> Pool Name Basin Dakota	
<sup>4</sup> Property Code 22634		<sup>5</sup> Property Name SCHWERTFEGER A			<sup>6</sup> Well Number 24
<sup>7</sup> OGRID No. 167067		<sup>8</sup> Operator Name XTO ENERGY INC.			<sup>9</sup> Elevation 6196

<sup>10</sup> Surface Location

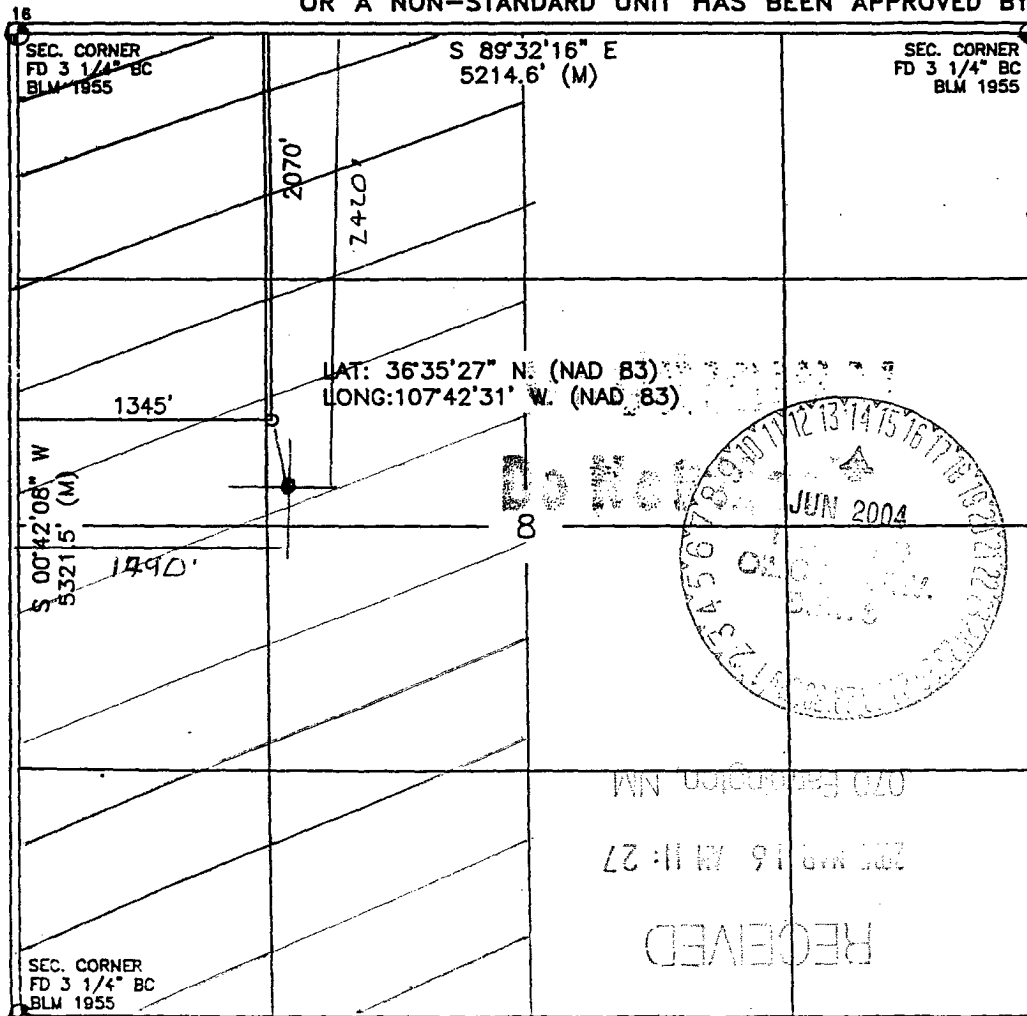
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	8	27-N	8-W		2070	NORTH	1345	WEST	SAN JUAN

<sup>11</sup> 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
F	8	27-N	8-W		2420	NORTH	1490	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 320		<sup>13</sup> Joint or Infill W12 I		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			
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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

Signature  
Kerry H Small  
Printed Name  
Drilling Assistant  
Title  
2/1/03  
Date

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.

4-11-03  
Date of Survey  
Signature and Seal of Professional Surveyor  
NEW MEXICO  
REGISTERED PROFESSIONAL SURVEYOR  
14827  
Certificate Number

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

DISTRICT II  
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DISTRICT III  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-05-32231		<sup>2</sup> Pool Code 72319		<sup>3</sup> Pool Name Blanco Mesquite	
<sup>4</sup> Property Code 22634		<sup>5</sup> Property Name SCHWERTFEGER A			<sup>6</sup> Well Number 24
<sup>7</sup> GRID No. 167067		<sup>8</sup> Operator Name XTO ENERGY INC.			<sup>9</sup> Elevation 6196

<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
F	8	27-N	8-W		2070	NORTH	1345	WEST	SAN JUAN

<sup>11</sup> 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
F	8	27N	8W		2420'	NORTH	1490'	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 320 W/2		<sup>13</sup> Joint or Infill I		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.	
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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>SEC. CORNER FD 3 1/4" BC BLM 1955</p> <p>S 89°32'16" E 5214.6' (M)</p> <p>2070'</p> <p>2420'</p> <p>1345'</p> <p>S 00°42'06" W 5321.5' (M)</p> <p>1490'</p> <p>8</p> <p>LAT: 36°35'27" N. (NAD 83) LONG: 107°42'31" W. (NAD 83)</p> <p>SEC. CORNER FD 3 1/4" BC BLM 1955</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</p> <p><u>Deely K Small</u> Signature</p> <p><u>Deely K Small</u> Printed Name</p> <p><u>Drilling Assistant</u> Title</p> <p><u>2/1/03</u> Date</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><u>4-11-03</u> Date of Survey</p> <p><u>DAVID A. JOHNSON</u> Signature and Seal of Professional Surveyor</p> <p>REGISTERED PROFESSIONAL SURVEYOR 14827</p> <p>Certificate Number</p>			

# XTO ENERGY INC.

Schwerdtfeger "A" #24

APD Data

March 12, 2004

Surface Location: 2,040' FNL & 1,345' FWEL, Sec 8, T27N, R08W County: San Juan State: New Mexico

TOTAL DEPTH: ±7,200' MD

GR ELEV: 6,196'

OBJECTIVE: Dakota/Mesaverde

Est KB ELEV: 6,209' (13' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 265'	265' to 4,000'	4,000' to TD
HOLE SIZE	12-1/4"	8-3/4"	6-1/4"
MUD TYPE	FW/Native Mud	FW/Polymer	LSND Mud
WEIGHT	8.6-8.8	8.6-9.0	8.8-9.0
VISCOSITY	28-32	29-34	34-60
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.

## 2. CASING PROGRAM:

Surface Casing: 9-5/8" casing to be set at ± 265' in 8.6-8.8 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'-265'	265'	36.0#	J-55	STC	2020	3520	394	8.921	8.765	5.98	5.68	15.73

Intermediate Casing: 7" casing to be set at ±4,000' in 8.6-9.0 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'-4,000'	4,000'	20.0#	J-55	STC	2270	3740	234	6.456	6.331	1.15	1.31	2.57

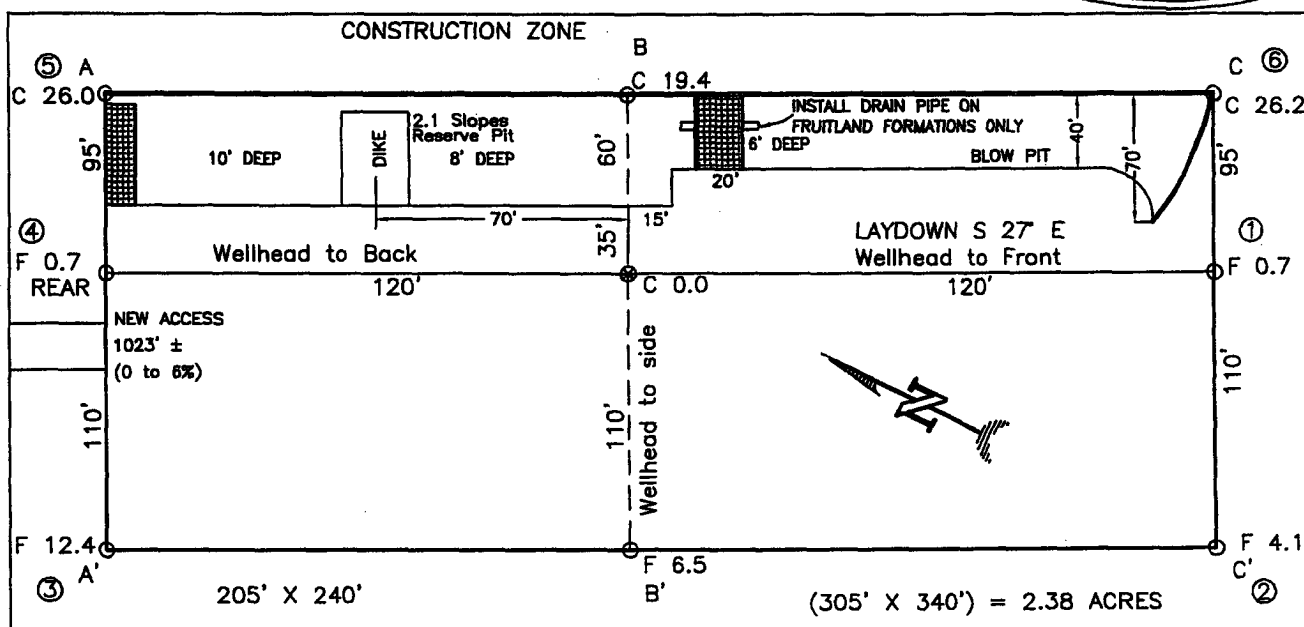
Production Casing: 4-1/2" casing to be set at 7,200' in 8.8-9.0 ppg mud.

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'-7,200'	7,200'	10.5#	J-55	STC	4010	4790	132	4.052	3.927	1.33	1.20	1.90

EXHIBIT E

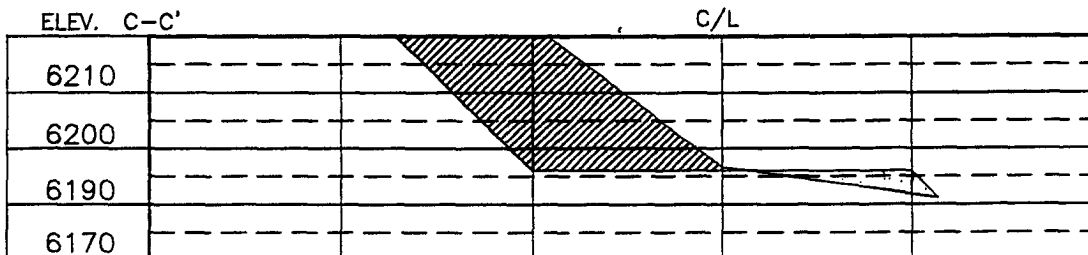
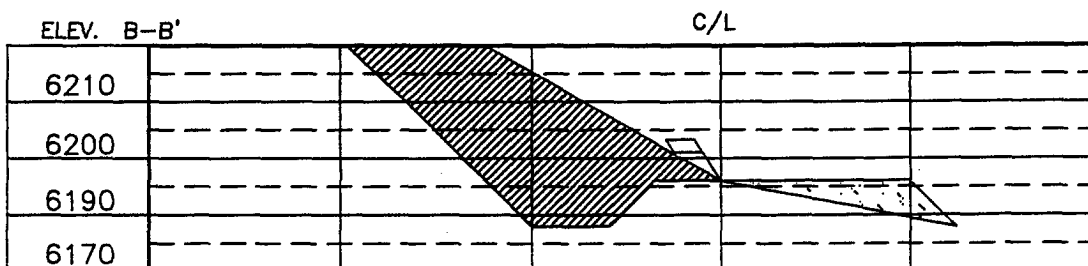
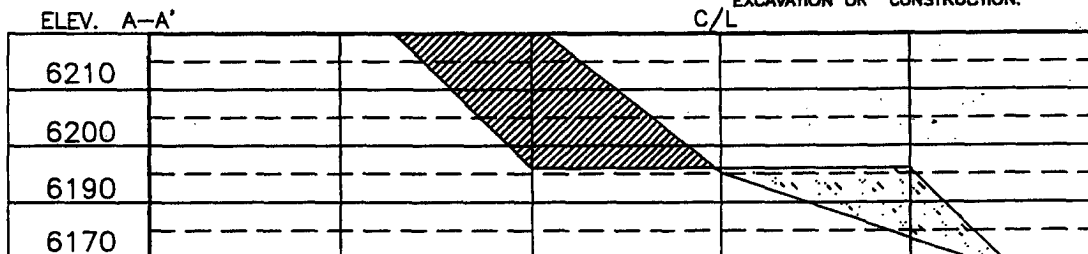
XTO ENERGY INC.  
 SCHWERDTFEGER A No. 24, 2070 FNL 1345 FWL  
 SECTION 8, T27N, R8W, N.M.P.M., SAN JUAN COUNTY, N. M.  
 GROUND ELEVATION: 6196, DATE: FEBRUARY 24, 2003

LAT. = 36°35'27" N  
 LONG. = 107°42'31" 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#: CR149 CADFILE: CR149CFB DATE: 06/09/02

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

3. **WELLHEAD:**

- A. Bradenhead: 9-5/8" x 7" 2,000 psig WP (4,000 psig test).  
Casinghead: 7" x 4-1/2" 3,000 psig WP (6,000 psig test).

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

- A. Surface: 9-5/8", 36.0#, J-55, STC casing to be set at  $\pm 265'$ .

Lead: 150 sx of Type III or equivalent cement containing accelerator and LCM typically mixed at 14.5 ppg, 1.39 ft<sup>3</sup>/sk, & 6.30 gal wtr/sk.

*Total slurry volume is 209 ft<sup>3</sup>, 100% excess of calculated annular volume to 265'.*

- B. Intermediate: 7", 20.0#, J-55, STC casing to be set at  $\pm 4,000'$ .

Lead: 325 sx of Type III or equivalent cement containing extender, accelerator and LCM typically mixed at 11.4 ppg, 3.03 ft<sup>3</sup>/sk, 18.51 gal wtr/sx.

Tail: 150 sx of Type III or equivalent cement containing accelerator and LCM typically mixed at 14.5 ppg, 1.41 ft<sup>3</sup>/sk, 6.30 gal wtr/sx.

*Total slurry volume is 1,196 ft<sup>3</sup>, circulated to surface. This value is  $\pm 100\%$  (excess) over gage hole volume.*

- C. Production: 4-1/2", 10.5#, J-55, STC casing to be set at  $\pm 7,200'$ .

Lead: 175 sx of Class "H" Premium Lite High Strength (65/35/6) containing dispersant, fluid loss, salt and LCM typically mixed at 12.5 ppg, 2.01 ft<sup>3</sup>/sk, 10.12 gal wtr/sx.

Tail: 150 sx of Class "H" or equivalent cement containing extender, dispersant, fluid loss and LCM typically mixed at 14.2 ppg, 1.54 ft<sup>3</sup>/sk, 7.50 gal wtr/sx..

*Total estimated slurry volume for the 4-1/2" production casing is 585 ft<sup>3</sup> for 3,700' of fill. Est. TOC should be @  $\pm 3,500'$  ( $\pm 500'$  inside the 7" intermediate casing). 40% (excess) over gage hole volume has been added to the number of sacks indicated.*

*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. Mud Logger: A two man mud logging crew will come on the hole @ 3,700' and remain on the hole until TD.

- B. Open Hole Logs as follows: Run Dual Induction/MSFL/GR/CAL/SP/CNL/LDT (lithodensity) from TD to the bottom of the intermediate csg (@  $\pm 4,000'$  MD). Run cased hole GR/CCL from TD to surface.

6. FORMATION TOPS:

Formation	Subsea Depth	TVD Depth	Well Depth (MD)
Kick Off Point <i>See COA's</i>	+5211'	<del>1000'</del>	1000'
Ojo Alamo SS	+4830'	1381'	1382'
Kirtland Shale	+4712'	1499'	1500'
Farmington Sanstone	+4628'	1583'	1585'
Fruitland Formation	+4322'	1889'	1893'
Lower Fruitland Coal	+3956'	2255'	2265'
Pictured Cliffs SS	+3891'	2320'	2331'
Lewis Shale	+3761'	2450'	2464'
Chacra Sandstone	+2975'	3236'	3264'
Cliffhouse SS	+2325'	3886'	3917'
Menefee	+2210'	4001'	4032'
Point Lookout SS	+1617'	4594'	4625'
Mancos Shale	+1303'	4908'	4939'
Gallup Sandstone	+452'	5759'	5790'
Greenhorn Limestone	-312'	6523'	6554'
Graneros Shale	-369'	6580'	6611'
1 <sup>st</sup> Dakota	-410'	6621'	6652'
2 <sup>nd</sup> Dakota	-422'	6633'	6664'
3 <sup>rd</sup> Dakota	-485'	6696'	6727'
4 <sup>th</sup> Dakota	-542'	6753'	6784'
5 <sup>th</sup> Dakota	-567'	6778'	6809'
6 <sup>th</sup> Dakota	-618'	6829'	6860'
Burro Canyon Ss	-665'	6876'	6907'
Morrison	-706'	6917'	6948'
Projected TD	-958'	7169'	7200'

Maximum anticipated BHP for the Dakota Formation should 1,500-1,800 psig.

7. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
Jeff Patton	Drilling Engineer	505-324-1090	505-632-7882
Jim Onisko	Drilling Manager	505-324-1090	505-564-4935
Dennis Elrod	Drilling Foreman	505-486-6460 cell	505-326-2024
Randy Hosey	Project Geologist	817-885-2398	817-427-2475
Barry Voigt	Reservoir Engineer	817-885-2462	817-540-2092

JWP  
3/12/04

EXHIBIT E

# 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

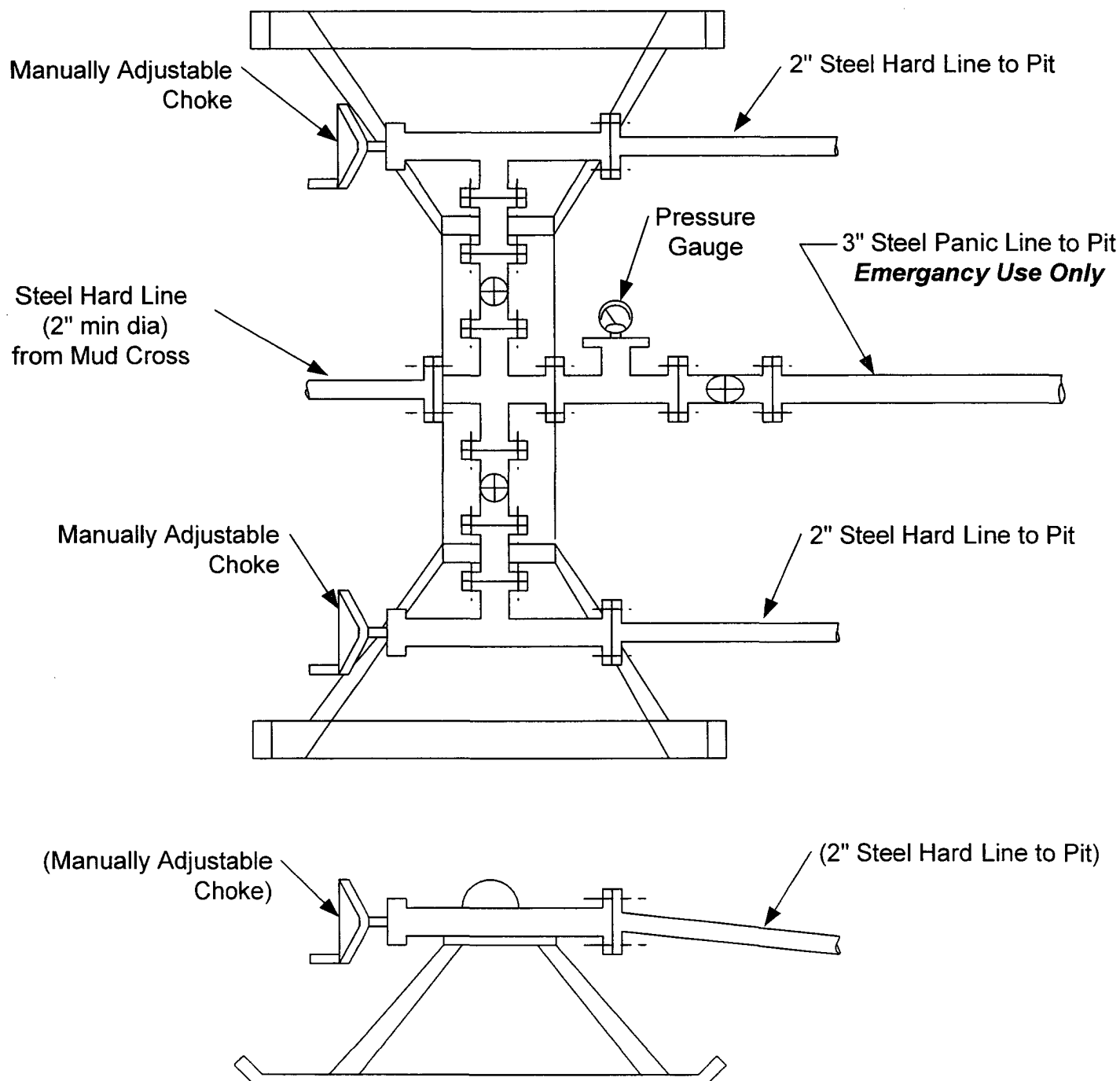


EXHIBIT E



# 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.

