

DIST. 3

Form 3160-3
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR 207 AUG -8 PM 2
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER RECEIVED

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		210 FARMINGTON NM	
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 N/A	
2. Name of Operator XTO Energy, Inc.		7. If Unit or CA Agreement, Name and No. N/A NMNM-73676	
3a. Address 2700 Farmington Ave, Bldg K - Suite 1 Farmington NM 87402		8. Lease Name and Well No. MARTIN GAS COM #1F	
3b. Phone No. (include area code) 505-324-1090		9. API Well No. 30-045-34385	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1670' FNL x 1855' FEL At proposed prod. zone same		10. Field and Pool, or Exploratory BASIN DK/WC BASIN MC	
14. Distance in miles and direction from nearest town or post office* Approximately 11 miles Southeast of Bloomfield, NM post office		11. Sec., T. R. M. or Blk. and Survey or Area (G) SEC 15, T27N, R10W	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1670'	16. No. of acres in lease 1480	17. Spacing Unit dedicated to this well E/2 320 DK - NE/4 160 MC	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 948'	19. Proposed Depth 7050'	20. BLM/BIA Bond No. on file UTB-000138	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6390' GROUND ELEVATION	22. Approximate date work will start* 09/25/2007	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:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- 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 08/06/2007
Title Regulatory Compliance		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date 10/16/07
Title PEO		

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)

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APD/ROW

NMOCD

DISTRICT I
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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

2007 AUG -8 PM 2:03

RECEIVED AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34385		*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 2276	*Property Name MARTIN GAS COM		*Well Number 1F
*OCRID No 5380	*Operator Name XTO ENERGY INC.		*Elevation 6390

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
G	15	27-N	10-W		1670	NORTH	1855	EAST	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
*Dedicated Acres E/2 320					**Joint or Initial		**Consolidation Code		**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

16	FD 2 1/2" BC. 1913 G.L.O.	S 89-57-28 W 2643.55' (M)	FD 2 1/2" BC. 1913 G.L.O.	17
LAT: 36.57786° N. (NAD 83) LONG: 107.88027° W. (NAD 83) LAT: 36°34'40.3" N (NAD 27) LONG: 107°52'46.7" W (NAD 27)				
15				
S 00-02-00 W 5265.23' (M)				
FD 2 1/2" BC. 1913 G.L.O.				

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 unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at the 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.

Signature: Kyla Vaughan Date: 5/25/07
Printed Name: Kyla Vaughan

16 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: APRIL 18, 2006
Signature and Seal of Registered Surveyor: [Signature]
Certificate Number: 1894

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Ave., Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLATON NM

¹ API Number 30-045-34385	² Pool Code 97232	³ Pool Name WC BASIN	⁴ Pool Number MANCOS
⁵ Property Code	⁶ Property Name MARTIN GAS COM		⁷ Well Number 1F
⁸ GRID No. 5380	⁹ Operator Name XTO ENERGY INC		¹⁰ Elevation 6390

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
G	15	27-N	10-W		1670	NORTH	1855	EAST	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 NE/4 160	¹³ Joint or Inf#	¹⁴ Consolidation Code	¹⁵ 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

<div><p>16</p><p>FD 2 1/2" BC 1913 G.L.O.</p><p>S 89-57-28 W 2643.55' (M)</p><p>1670'</p><p>1855'</p><p>LAT: 36.57786° N. (NAD 83) LONG: 107.88027° W. (NAD 83)</p><p>LAT: 36°34'40.3" N. (NAD 27) LONG: 107°52'46.7" W. (NAD 27)</p><p>15</p></div>	<div><p>17</p><p>FD 2 1/2" BC 1913 G.L.O.</p><p>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 leased 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>Kyle Vaughan</i> 5/25/07 Signature Date <i>Kyle Vaughan</i> Printed Name</p></div>
<div><p>18</p><p>FD 2 1/2" BC 1913 G.L.O.</p><p>S 00-02-00 W 5265.23' (M)</p></div>	<div><p>18</p><p>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>OCTOBER 2006 Date of Survey Signature and Seal of Registered Professional Land Surveyor <i>[Seal]</i> Certificate Number</p></div>

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>30.045-34385</u>
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: <u>MARTIN GAS COM</u>
8. Well Number <u>#1F</u>
9. OGRID Number <u>5380</u>
10. Pool name or Wildcat <u>BASIN DK/WC BASIN MC</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>6390' GROUND ELEVATION</u>
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>
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>8000</u> bbls; Construction Material _____

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>G</u> : <u>1670</u> feet from the <u>NORTH</u> line and <u>1855</u> feet from the <u>EAST</u> line Section <u>15</u> Township <u>27N</u> Range <u>10W</u> NMPM <u>NMEM</u> County <u>SAN JUAN</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>6390' GROUND ELEVATION</u>	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>	
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>8000</u> bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: <u>PIT</u> <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>

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 08/06/2007
Type or print name Kyla Vaughan E-mail address: kyla_vaughan@xtoenergy.com Telephone No. 505-564-6726

For State Use Only
APPROVED BY [Signature] Deputy Oil & Gas Inspector, District #3 DATE OCT 26 2007

Conditions of Approval, if any:

EXHIBIT D

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:

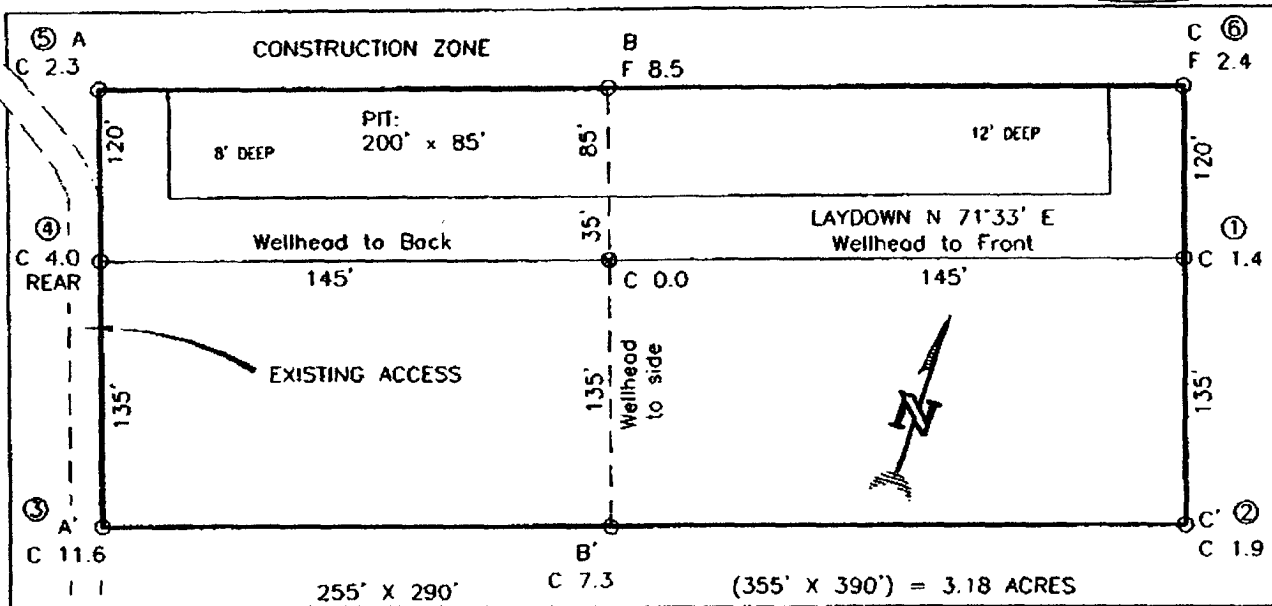
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed 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: _____

 8/8/07
Kyla Vaughan

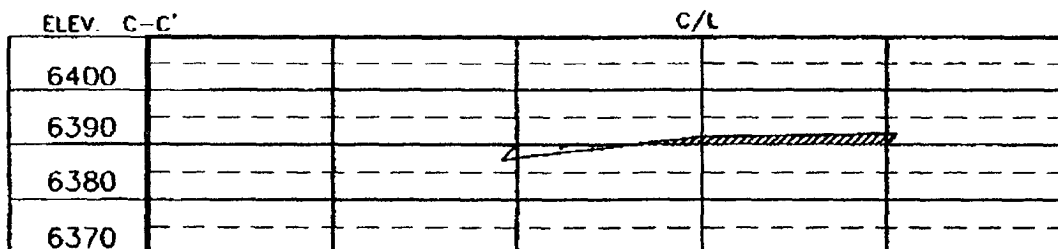
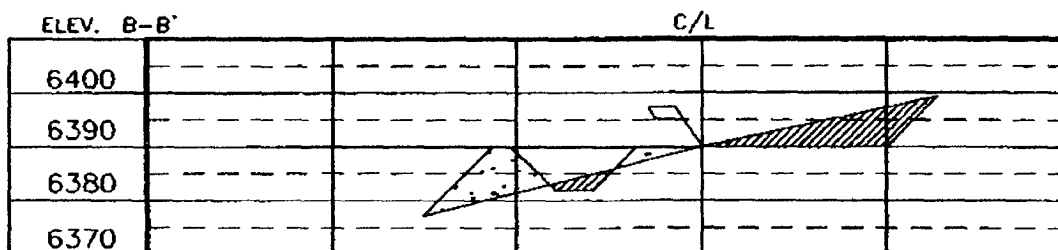
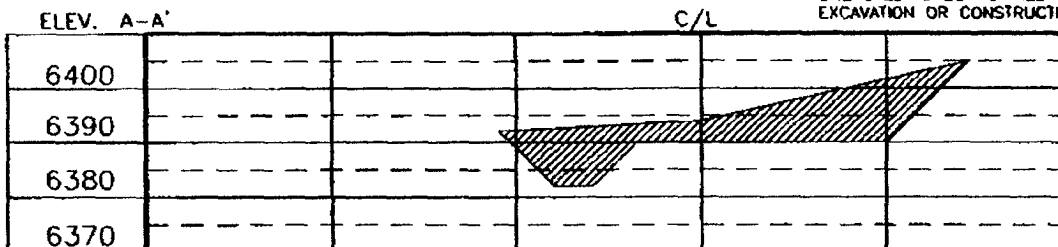
XTO ENERGY INC.
 MARTIN GAS COM No. 1F, 1670 FNL 1855 FEL
 SECTION 15, T27N, R10W, N.M.P.M., SAN JUAN COUNTY, N.M.
 GROUND ELEVATION: 6390' DATE: OCTOBER 16, 2006

NAD 83
 LAT. = 36.57786° N
 LONG. = 107.88027° W
 NAD 27
 LAT. = 36°34'40.3" N
 LONG. = 107°52'46.7" 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) 326-6019
 NEW MEXICO L.S. No. 8894



DATE: 5/08/07
 DRAWN BY: C.V.
 REV: C8766

EXHIBIT E

XTO ENERGY INC.

Martin Gas Com #1F

APD Data

August 6, 2007

Location: 1670' FNL x 1855' FEL Sec 15, T27N, R10W County: San Juan

State: New Mexico

GREATEST PROJECTED TD: 7050'
APPROX GR ELEV: 6390'

OBJECTIVE: Basin Dakota / Basin Mancos
Est KB ELEV: 6402' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 2500'	2500' to 7050'
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

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'	24.0#	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 ($\pm 7050'$) 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'-7050	7050'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.20	1.43	1.85

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. 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 $\pm 360'$ 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 ft³/sk, & 6.70 gal wtr/sk.

Total slurry volume is 297 ft³, 100% excess of calculated annular volume to 360'.

B. Production: 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at $\pm 7050'$ in 7.875" hole. DV Tool set @ $\pm 4100'$

1st Stage

LEAD:

± 241 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:

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.

2nd Stage

LEAD:

± 341 sx of Type III or equivalent cement with 8% gel & LCM mixed at 11.9 ppg, 2.54 ft³/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 1720 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 (7050') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7050') to 3,000'.

EXHIBIT F

6. FORMATION TOPS:

Est. KB Elevation: 6390'

FORMATION	Sub-Sea	MD	FORMATION	TV Sub-Sea	MD
Ojo Alamo SS	5158	1244	Gallup	659	5743
Kirtland Shale	5004	1398	Greenhorn	-150	6552
Farmington SS			Graneros	-203	6605
Fruitland Formation	4653	1749	Dakota 1*	-230	6632
Lower Fruitland Coal	4196	2206	Dakota 2*	-265	6667
Pictured Cliffs SS	4171	2231	Dakota 3*	-316	6718
Lewis Shale	4004	2398	Dakota 4*	-368	6770
Chacra SS	3274	3128	Dakota 5*	-409	6811
Cliffhouse SS*	2652	3750	Dakota 6*	-445	6847
Menefee**	2549	3853	Burro Canyon	-487	6889
Point Lookout SS*	1833	4569	Morrison*	-528	6930
Mancos Shale	1482	4920	TD	-648	7050

* Primary Objective

** Secondary Objective

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

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
8/6/07

EXHIBIT F

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

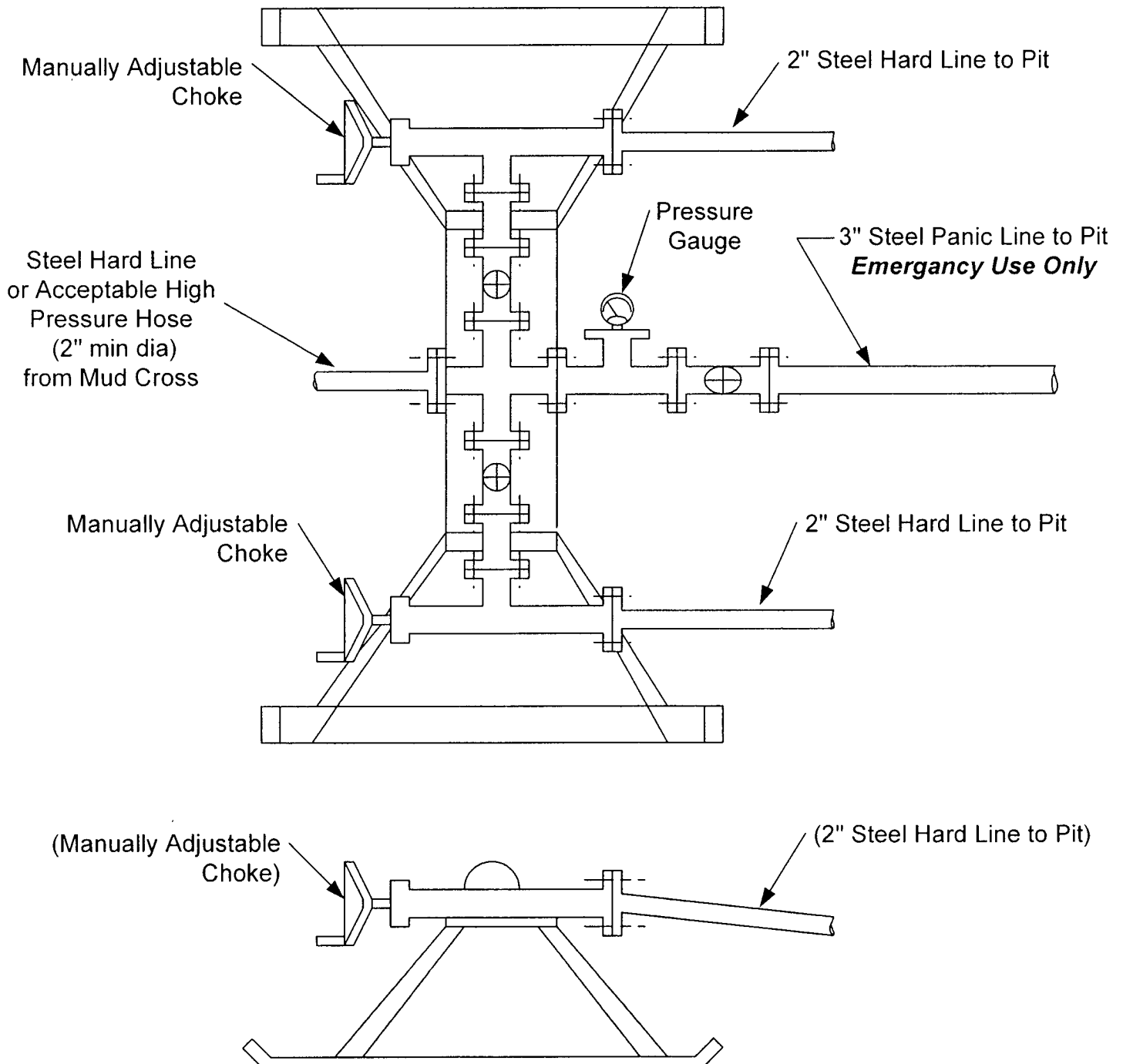


EXHIBIT F

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 F