

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. NM-03380
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 or CA Agreement Name and No. N/A
3a. Address 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM		8. Lease Name and Well No. Flora #73 22608
3b. Phone No. (include area code) 505-324-1090		9. API Well No. 3004533443
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1305' FNL x 1325' FWL in Sec 18, T27N, R8W At proposed prod. zone 660' FNL x 1940' FWL in Sec 18, T27N, R8W		10. Field and Pool, or Exploratory Basin Dakota/Blanco Mesaverde
14. Distance in miles and direction from nearest town or post office* Approx 17.1 miles Southeast of Bloomfield, NM post office		11. Sec., T., R., M., or Blk. and Survey or Area (C) Sec 18, T27N, R8W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 355'	16. No. of Acres in lease 2400.96	12. County or Parish San Juan
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 198'	19. Proposed Depth 7040'	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6068' Ground Level	22. Approximate date work will start* January 2006	17. Spacing Unit dedicated to this well W/2 321.70 DK-MV
		20. BLM/BIA Bond No. on file UTB-000138
		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 12/14/05
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Title Regulatory Compliance Tech		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) FPO	Date 12/19/05
Title AFM	Office	

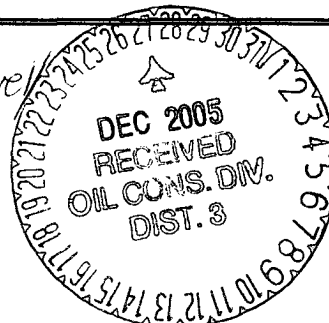
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person 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 C104 FOR *directional survey*

NMCCD



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

DISTRICT II
P.O. Drawer 00, Artesia, N.M. 88211-0719

DISTRICT III
1000 Pto 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 30-045-33443		² Pool Code 71599	³ Pool Name Basin Dakota
⁴ Property Code 22608 ✓	⁵ Property Name FLORANCE		⁶ Well Number 73 ✓
⁷ OGSD No. 167067 ✓	⁸ Operator Name XTO ENERGY INC.		⁹ Elevation 8068

¹⁰ Surface Location

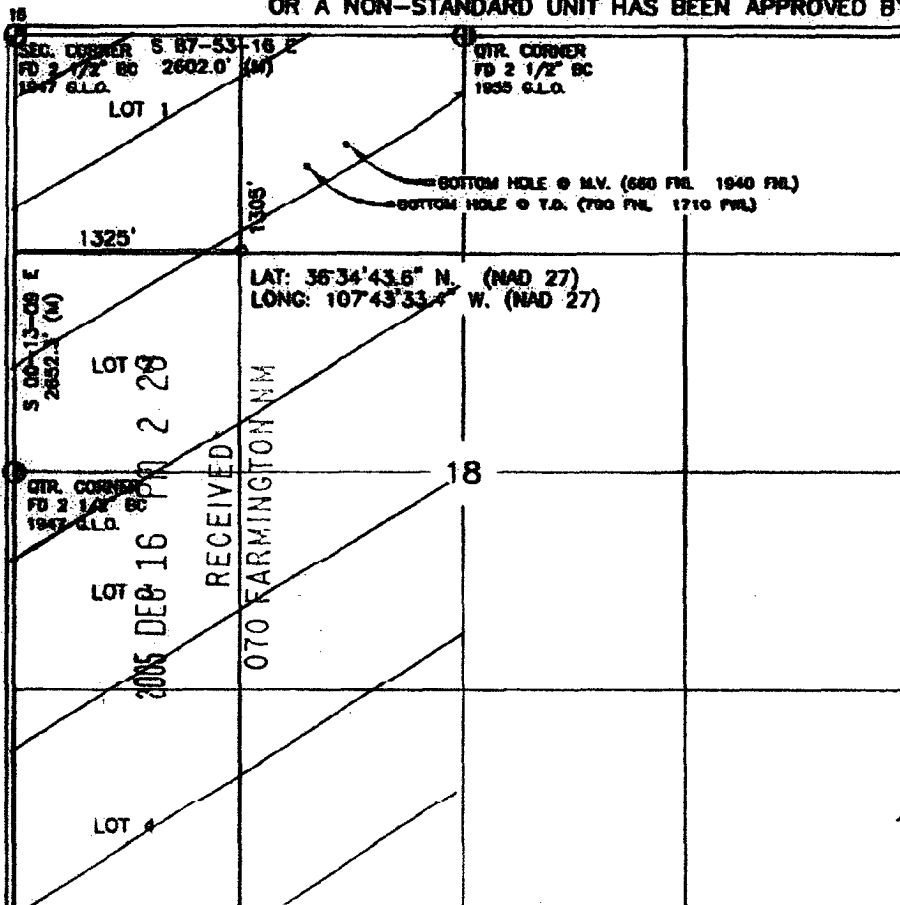
UL or lot no. C	Section 18	Township 27-N	Range 8-W	Lot No. 1305	Feet from the 1305	North/South line NORTH	Feet from the 1325	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. C	Section 18	Township 27-N	Range 8-W	Lot No. 660	Feet from the 1940	North/South line NORTH	Feet from the 1940	East/West line WEST	County SAN JUAN
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¹² Dedicated Acres w/2 321.70	¹³ Job or Well	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



17 OPERATOR CERTIFICATION

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

Kelly K. Small
Signature
KELLY K. SMALL
Printed Name
Regulatory Compliance Tech
Title
12/14/05
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.

FEBRUARY
Date of Survey
Signature and Seal

Certificate Number

DISTRICT I
P.O. Box 1880, Hobbs, N.M. 88241-1880

DISTRICT II
P.O. Drawer 00, Artesia, N.M. 88211-0719

DISTRICT III
1600 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

*API Number 30-045-33443		*Pool Code 72317	*Pool Name BLANCO MESAVERDE
*Property Code 72608	*Property Name FLORANCE		*Well Number 73
*GORD No. 167067	*Operator Name XTO ENERGY INC.		*Elevation 6068

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
C	18	27-N	8-W		1305	NORTH	1325	WEST	SAN JUAN

11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
C	18	27-N	8-W		660'	NORTH	1940'	WEST	SAN JUAN

*Dedicated Acres 321.70	*Joint or Infill I	*Consolidation Code	*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 S 87-63-18 E FD 2 1/2" BC 2602.0' (M) 1947 G.L.O.</p> <p>LOT 1</p> <p>1325'</p> <p>1305'</p> <p>QTR. CORNER FD 2 1/2" BC 1955 G.L.O.</p> <p>BOTTOM HOLE @ M.V. (660 FTL, 1940 FTL)</p> <p>LAT: 36°54'43.6" N. (NAD 27) LONG: 107°43'33.4" W. (NAD 27)</p> <p>18</p> <p>LOT 2</p> <p>LOT 3</p> <p>LOT 4</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>Signature <u>JERRY W. PITTLER</u></p> <p>Printed Name <u>JERRY W. PITTLER</u></p> <p>Title <u>DRILLING ENGINEER</u></p> <p>Date <u>11-13-05</u></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>FEBRUARY 2006 Date of Survey Signature and Seal of Surveyor NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 14831 16-0</p> <p>Certificate Number</p>
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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>30-045-33443</u>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <u>NM-03380</u>
7. Lease Name or Unit Agreement Name: <u>Flozance</u>
8. Well Number <u>#73</u>
9. OGRID Number <u>167067</u>
10. Pool name or Wildcat <u>Blanco Mesaverde</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>C</u> : <u>1305</u> feet from the <u>North</u> line and <u>1325</u> feet from the <u>West</u> line Section <u>18</u> Township <u>27N</u> Range <u>8W</u> NMPM <u>NMEM</u> County <u>SAN JUAN</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>6068' 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 _____ 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 proposed to install a 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 NMOC guidelines ☒ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Kyla Vaughan TITLE Regulatory Compliance Tech DATE 11/29/05
Type or print name Kyla Vaughan E-mail address: kyla_van@xtoenergy.com Telephone No. 505-564-6726

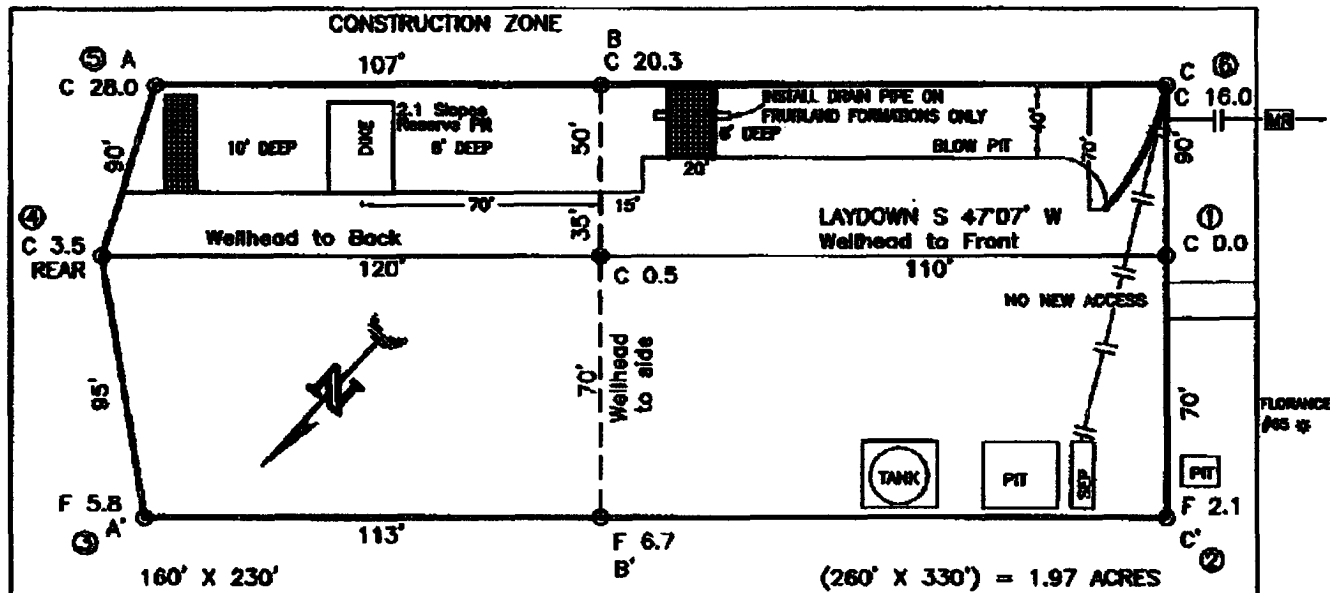
For State Use Only

APPROVED BY [Signature] DEPUTY OIL & GAS INSPECTOR, DIST. II
Conditions of Approval, if any: TITLE _____ DATE DEC 27 2005

EXHIBIT D

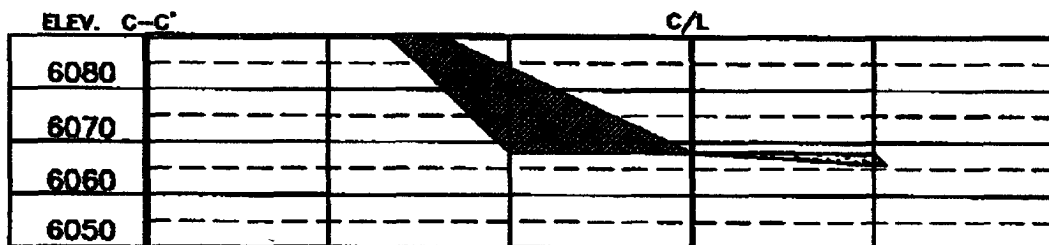
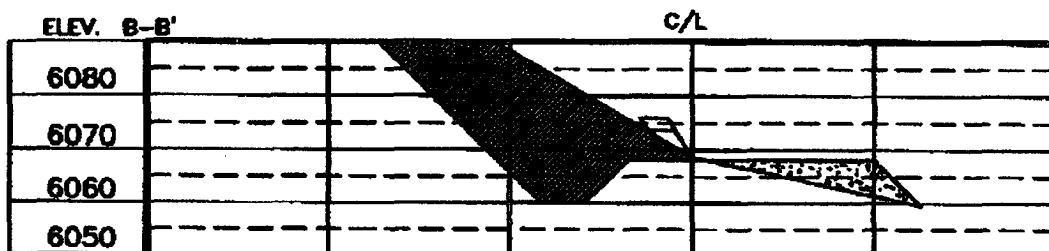
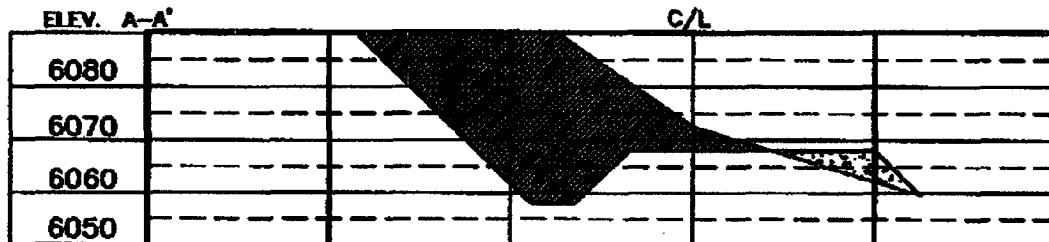
XTO ENERGY INC.
 FLORANCE No. 73, 1305' FNL 1325' FWL
 SECTION 18, T27N, R8W, N.M.P.M., SAN JUAN COUNTY, N. M.
 GROUND ELEVATION: 6068', DATE: FEBRUARY 9, 2005

LAT. = 36°34'43.6" N.
 LONG. = 107°43'33.4" W
 NAD 27



RESERVE PIT DIKE: TO BE 6" 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 10008 • Farmington, NM 87401
 Phone (505) 225-1772 • Fax (505) 336-8018



NEW MEXICO P.L.S. No. 14431
 EXPIRES 02/01/08
 NEW MEXICO
 02/09/05

EXHIBIT E

XTO ENERGY INC.

Florance #73

APD Data

December 14, 2005

Location: 1305' FNL x 1325' FWL Sec 18, T27N, R8W County: San Juan

State: New Mexico

Prop BHL: 660' FNL x 1940' FWL Sec 18, T27N, R8W

GREATEST PROJECTED TD: 7040'

OBJECTIVE: Blanco Mesaverde/Basin Dakota

APPROX GR ELEV: 6080'

Est KB ELEV: 6772' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 2500'	2500' to 7040'
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 12-1/4" 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'-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 ($\pm 7040'$) 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'-7040	7040'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.20	1.43	1.85

Note: Safety Factors are calculated using vertical wellbore assumptions.

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.

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 $\pm 7040'$ in 7.875" hole. DV Tool set @ $\pm 0'$

LEAD:

± 735 sx of Premium Lite HS (Type III/Poz/Gel) with 2% salt, 1/4 pps cello, 0.2% dispersant, 0.5% fluid loss & 2% LCM mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

150 sx Type III with 5% bonding additive, 1/4 pps cello, 2% LCM, 0.3% dispersant & 0.2% 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 1708 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: The mud logger will come on at 2,900' and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (7040') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7040') to 3,000'.

6. **FORMATION TOPS:**

Est. KB Elevation: 6772'

Formation	TV Sub-Sea	TVD	Measured Depth	Formation	TV Sub-Sea	TVD	Measured Depth
Ojo Alamo SS	4903	1177	1197	Gallup	488	5592	5675
Kirtland Shale	4719	1361	1384	Greenhorn	-304	6384	6467
Farmington SS				Graneros	-364	6444	6527
Fruitland Formation	4418	1662	1691	Dakota 1*	-406	6486	6569
Lower Fruitland Coal				Dakota 2*	-438	6518	6601
Pictured Cliffs SS	3944	2136	2173	Dakota 3*	-480	6560	6643
Lewis Shale	3758	2322	2362	Dakota 4*	-537	6617	6700
Chacra SS**	3034	3046	3099	Dakota 5*	-579	6659	3742
Cliffhouse SS	2417	3663	3726	Dakota 6*	-639	3719	6802
Menefee	2276	3804	3869	Burro Canyon	-663	6743	6826
Point Lookout SS**	1672	4408	4484	Morrison*	-683	6763	6846
Mancos Shale	1312	4768	4850	TD	-882	6962	7045

* 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
Gary Hancock	Drilling Engineer	505-486-1201	505-486-1201
John Egelston	Drilling Engineer	505-564-6734	505-330-6902
Dennis Elrod	Drilling foreman	505-486-6460	505-326-2024
Red Meek	Project Geologist	817-885-2800	817-427-2475
Barry Voigt	Reservoir Engineer	817-885-2462	817-540-2092

JE

12/14/05

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~~5~~ 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.

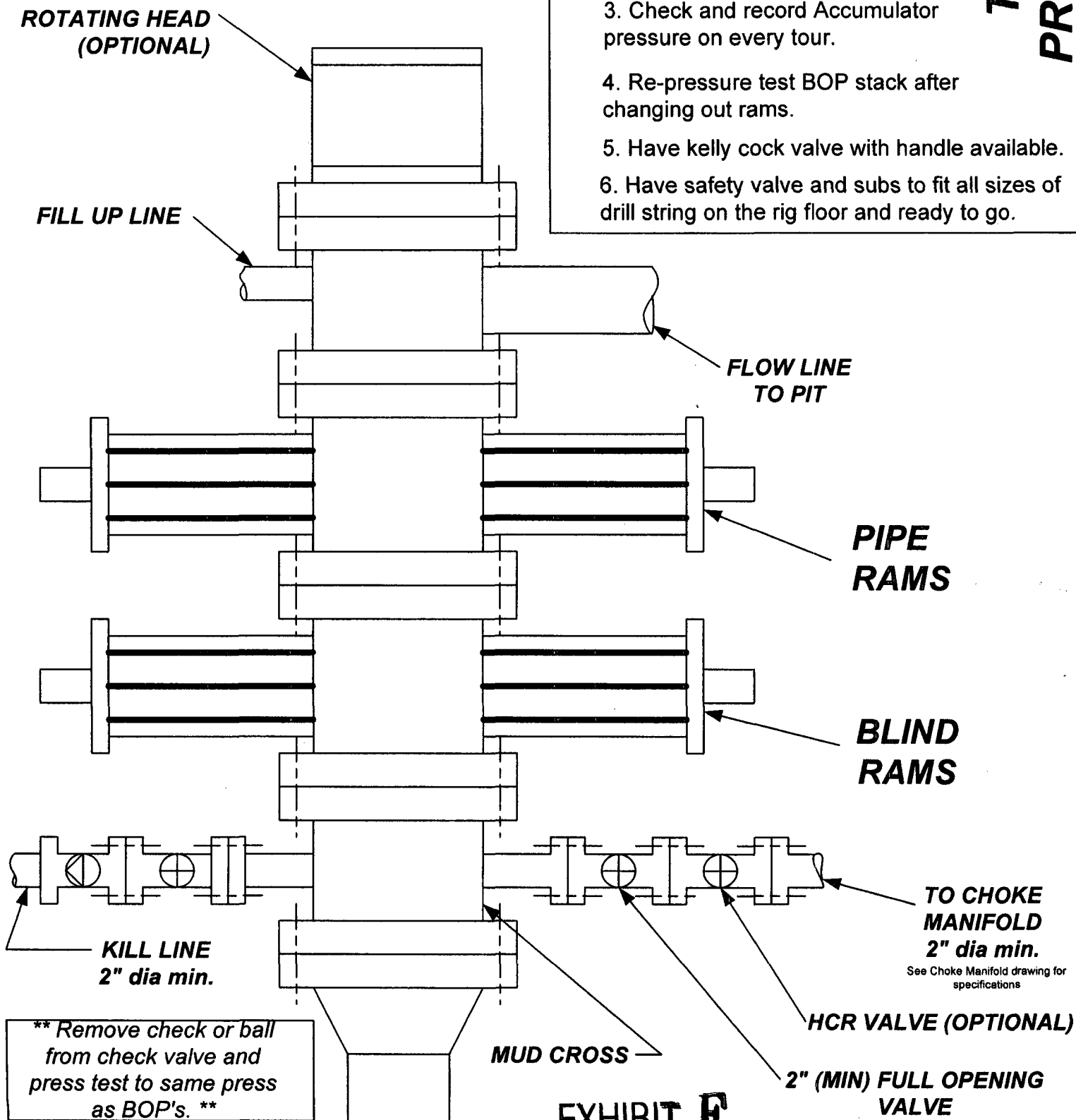
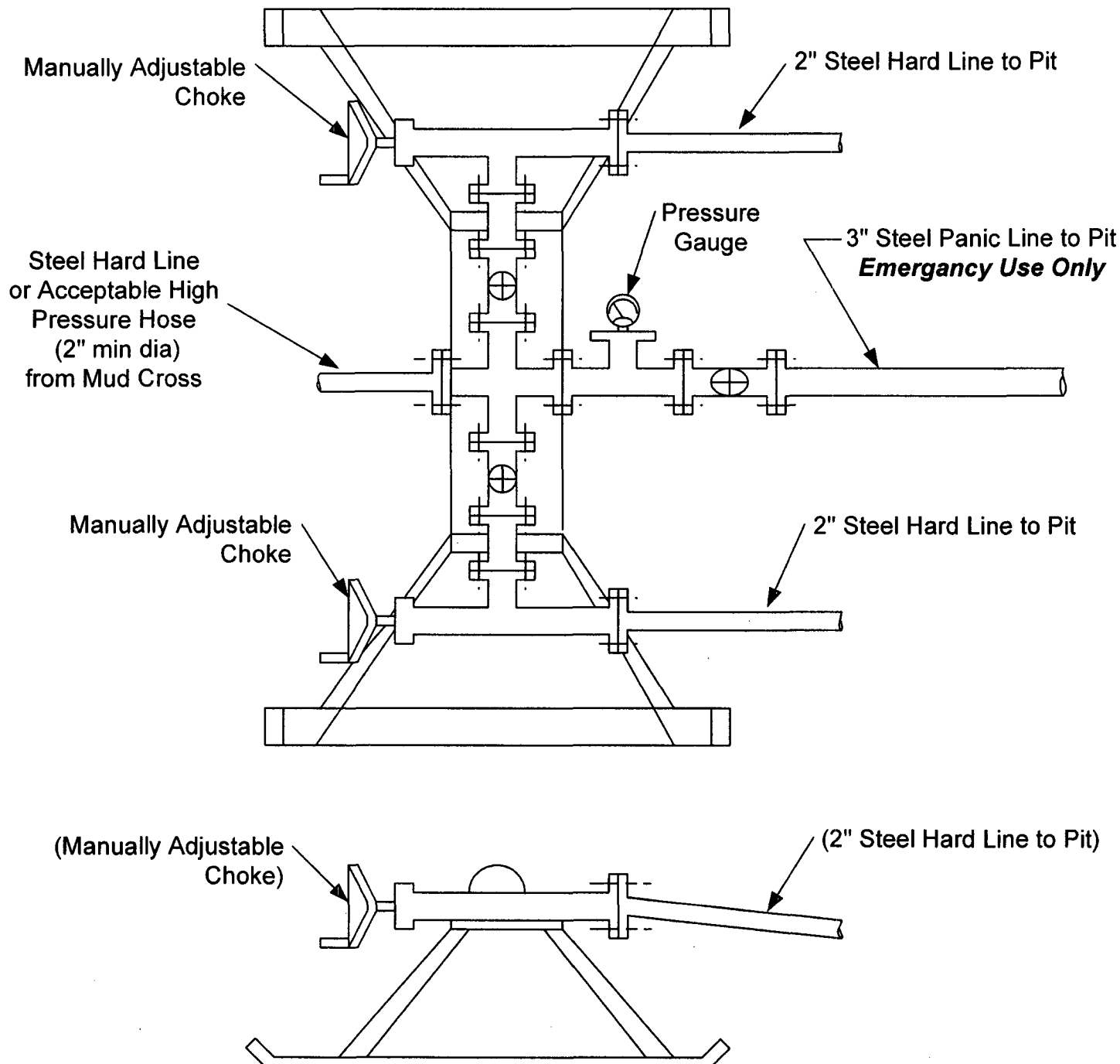


EXHIBIT F

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





Field: Otero Chacra & Blanco Mesa Verde
 Site: SEC 18-T27N-R8W
 Well: FLORANCE #73
 Wellpath: OH
 Plan: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	
3	1098.86	12.78	43.38	1093.58	51.56	48.72	2.00	0.00	70.94	
4	3847.77	12.78	43.38	3774.42	493.44	466.28	0.00	0.00	678.89	
5	4486.63	0.00	0.00	4408.00	545.00	515.00	2.00	180.00	749.83	7" CASING POINT
6	7040.63	0.00	0.00	6962.00	545.00	515.00	0.00	0.00	749.83	PBHL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
HARDLINE	0.00	645.00	515.00	2030587.510	532046.321	Point
7" CASING POINT	4408.00	545.00	515.00	2030487.510	532046.321	Point
PBHL	6962.00	545.00	515.00	2030487.510	532046.321	Circle (Radius: 100)

SITE DETAILS

SEC 18-T27N-R8W
 san juan new mexico
 Ground Level: 6068.00
 Positional Uncertainty: 0.00
 Convergence: 0.06

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
FLORANCE #73	0.00	0.00	2029942.510	531531.321	36°34'43.600N	107°43'33.400W	N/A

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Centre: FLORANCE #73, Grid North
 Vertical (TVD) Reference: SITE 6080.00
 Section (VS) Reference: Slot - (0.00N,0.00E)
 Measured Depth Reference: SITE 6080.00
 Calculation Method: Minimum Curvature

FIELD DETAILS

Otero Chacra & Blanco Mesa Verde
 Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: New Mexico, Western Zone
 Magnetic Model: Igrf2005
 System Datum: Mean Sea Level
 Local North: Grid North



Azimuths to Grid North
 True North: -0.06°
 Magnetic North: 10.45°
 Magnetic Field
 Strength: 51257nT
 Dip Angle: 63.46°
 Date: 2005/12/09
 Model: Igrf2005

