

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL



DEEPEEN



b. TYPE OF WELL

OIL  
WELLGAS  
WELL

OTHER

SINGLE  
ZONEMULTIPLE  
ZONE2. NAME OF OPERATOR **AMOCO PRODUCTION COMPANY**  
**P.O. BOX 3092**  
**HOUSTON , TX 77079**3. ADDRESS AND TELEPHONE NO.  
**MARY CORLEY**  
**AUTHORIZED REPRESENTATIVE****PHONE 281.366.4491 EXT:**  
**FAX: 281.366.0700**  
**EMAIL: corleyml@bp.com**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. \*)

At Surface  
**1725FSL AND 2375FWL NESW SEC 22 T30N R9W**  
At proposed prod. zone14. DISTANCE IN MILES AND DIRECTION FROM THE NEAREST TOWN OR POST OFFICE  
**13 MILES FROM AZTEC, NM**15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)16. NO. ACRES IN LEASE  
**320.00**17. NO. OF ACRES ASSIGNED  
TO THIS WELL  
**320.00** *5/2*18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE FT.19. PROPOSED DEPTH  
**7406 MD / TVD**  
*7496*20. ROTARY OR CABLE TOOLS  
**ROTARY**

21. ELEVATIONS ( Show whether DF, RT, GR, etc.)

**5960 GL**22. APPROX. DATE WORK WILL START\*  
**05/09/2001**

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Notice of Staking Submitted 12/27/2000 as Florance 3E. Please change lease name and well number to Florance AC 3M. Amoco Production Company respectfully request permission to drill the subject well to a total depth of approximately 7406', complete in the Basin Dakota Pool, produce the well for approximately 30 days to establish production rate, add the Blanco Mesaverde Pool and commingle production downhole. Application for downhole commingling authority (NMOC order R-11363) will be submitted to all appropriate parties for approval after production has been established in the Basin Dakota Pool and prior to completion of and downhole commingling with the Blanco Mesaverde. In support of our application for permit to drill we have attached 8 documents (1 .doc and 2 .pdf files).

Procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

**ELECTRONIC SUBMISSION #3356 VERIFIED BY THE BLM WELL INFORMATION SYSTEM**  
**FOR AMOCO PRODUCTION COMPANY SENT TO THE FARMINGTON FIELD OFFICE**SIGNED **MARY CORLEY**TITLE **AUTHORIZED REPRESENTATIVE**DATE **04/02/2001**

PERMIT NO.

APPROVAL DATE

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:

APPROVED BY

TITLE

DATE

*NSL-Basins Dakota*

District I  
PO Box 1980, Hobbs NM 88241-1980  
District II  
PO Drawer KK, Artesia, NM 87211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO 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 30-045-30621		2 Pool Code 71599 & 72319		3 Pool Name BLANCO MESAVERDE & BASIN DAKOTA	
4 Property Code 000522		5 Property Name FLORANCE AC			6 Well Number # 3 M
7 OGRID No. 000778		8 Operator Name AMOCO PRODUCTION COMPANY			9 Elevation 5960

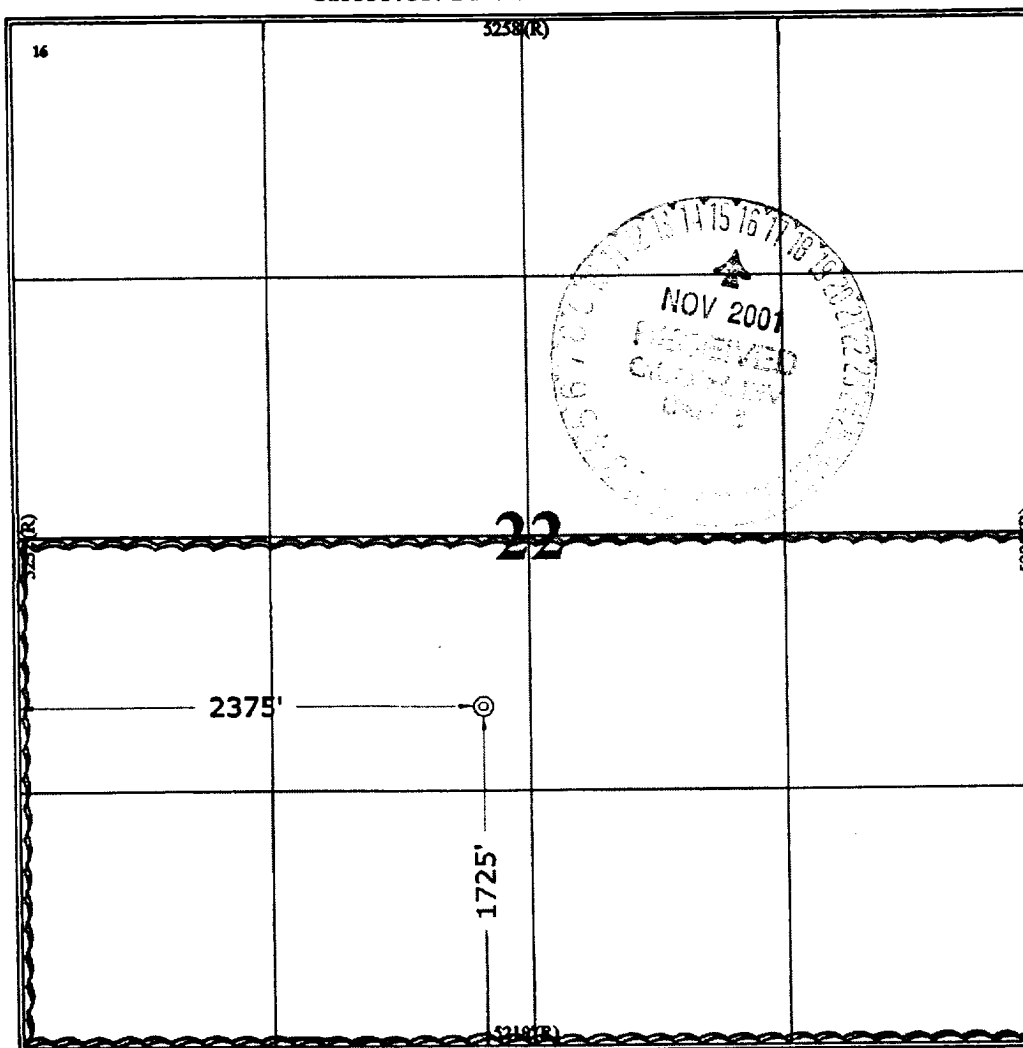
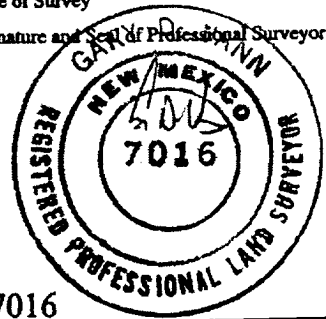
10 Surface Location

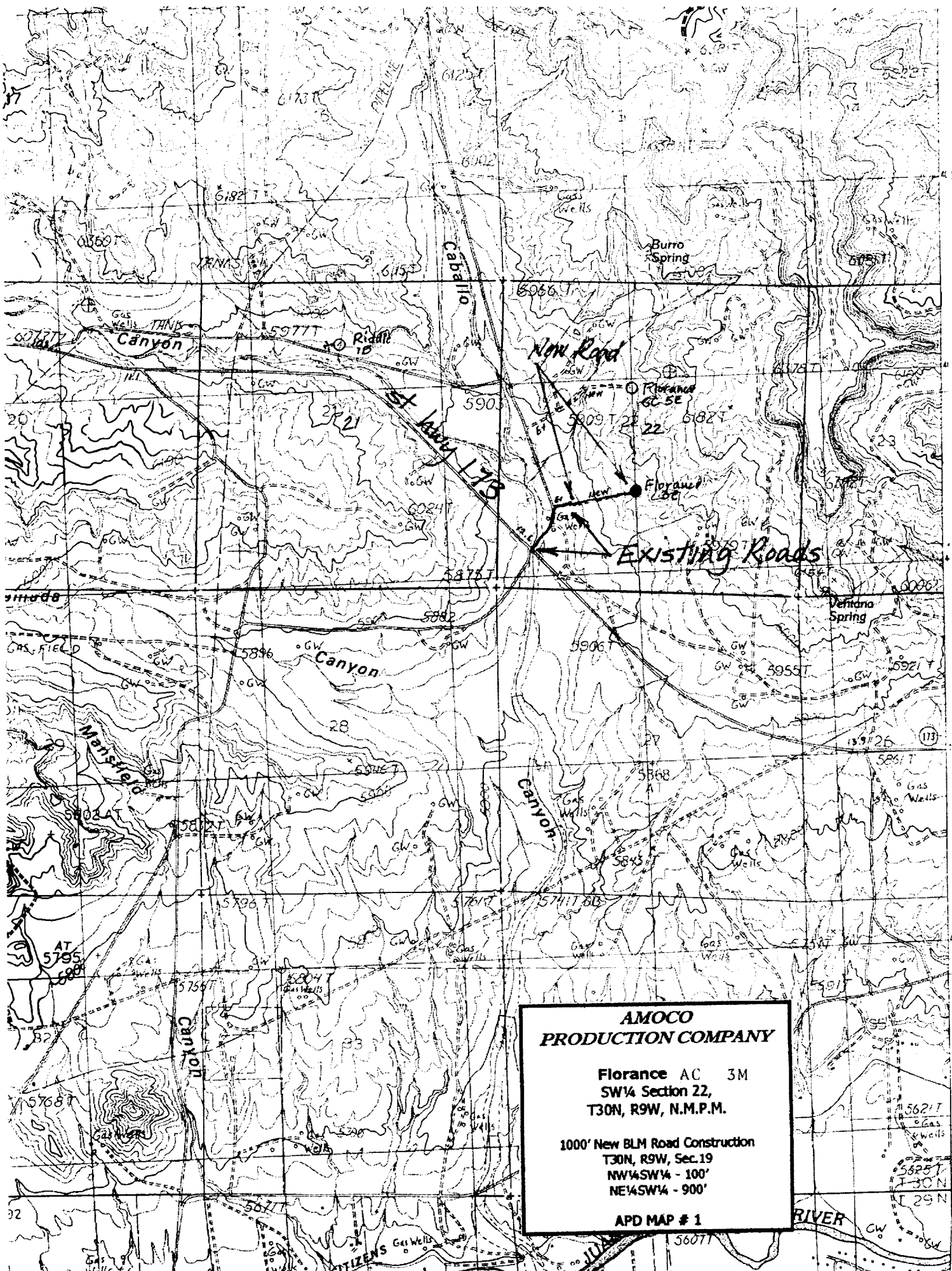
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	22	30 N	9 W		1725	SOUTH	2375	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

1 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 320.00		13 Joint or Infill		14 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

	<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>Mary Corley</u></p> <p>Printed Name <u>MARY CORLEY</u></p> <p>Title <u>SR. REGULATORY ANALYST</u></p> <p>Date <u>04-02-2001</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>Date of Survey <u>November 17, 2000</u></p> <p>Signature and Seal of Professional Surveyor </p> <p>Certificate Number <u>7016</u></p>



**AMOCO  
PRODUCTION COMPANY**

**Florance AC 3M**  
**SW¼ Section 22,**  
**T30N, R9W, N.M.P.M.**

**1000' New BLM Road Construction**  
**T30N, R9W, Sec.19**  
**NW¼SW¼ - 100'**  
**NE¼SW¼ - 900'**

**APD MAP # 1**

**AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

**Prospect Name:** Florance AC  
**Lease:** FLORANCE AC  
**County:** San Juan  
**State:** New Mexico  
**Date:** May 27, 2001

**Well No:** 3M  
**Surface Location:** 22-30N-9W, 1725 FSL, 2375 FWL  
**Field:** Blanco Mesaverde/Basin Dakota

**OBJECTIVE:** Drill 450' below the base of the Greenhorn Limestone, set 4 1/2" production casing, Stimulate LS, CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS		Estimated GL: 5960		Estimated KB: 5974	
Rotary					
DEPTH OF DRILLING					
0 - TD					
LOG PROGRAM		MARKER		SUBSEA	
TYPE				MEAS. DEPTH	
DEPTH INVERAL					
<u>OPEN HOLE</u>					
GR-Induction				4525 1449	
Density/Neutron				3840 2134	
				3268 2706	
				3258 2716	
				1676 4298	
				1464 4510	
				1019 4956	
				932 5043	
				-980 6954	
				-1032 7006	
				-1076 7050	
				-1220 7194	
				-1395 7369	
				-1445 7419	
				-1522 7496	

MUD PROGRAM:							
Approx. Interval			Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	-	120-135	3 jts.	Spud	8.6-9.2		
120-135	-	2816	(1)	Water/LSND	8.6-9.2	<6	
2816	-	7369		Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore		
7369		7496	(2)	LSND	9.0-9.2	<6	

REMARKS:  
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.  
(2) Mud up 50' above Morrison +/-.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)						
Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	120-135	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	2816	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7496	4 1/2"	J-55	11.6#	6.25"	3

REMARKS:  
(1) Circulate Cement to Surface  
(2) Set casing 100' into Lewis Shale  
(3) Bring cement 100' above 7" shoe

**CORING PROGRAM:**  
None

**COMPLETION PROGRAM:**  
Rigless, 4-6 Stage Limited Entry Hydraulic Frac

**GENERAL REMARKS:**  
Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: \_\_\_\_\_ Logging program reviewed by: N/A

<b>PREPARED BY:</b>	<b>APPROVED:</b>	<b>DATE:</b>	
HGJ/KAT		May 1, 2001	
Form 46 12-00 KAT		Version 2.0	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. SF - 080003	
2. Name of Operator AMOCO PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name	
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		7. If Unit or CA/Agreement, Name and/or No.	
3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700		8. Well Name and No. FLORANCE AC 3M	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T30N R9W Mer NESW 36.47700 N Lat, 107.46100 W Lon		9. API Well No.	
		10. Field and Pool, or Exploratory BASIN DAKOTA/BLANCO MESAVERDE	
		11. County or Parish, and State SAN JUAN COUNTY, NM	

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> APDCH
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	


13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Application for Permit to Drill for the subject well was submitted on 04/02/2001. Amoco Production Company respectfully submits for your approval amendments to our drilling and completion Program as per the attached two (2) documents. The major change is in the casing and cementing program.

The subject well also requires NMOCD approval for a Non-Standard drilling location for the Basin Dakota completion. A request for an exception to the Non-Standard well location is being submitted to the NMOCD under a separate application.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #4554 verified by the BLM Well Information System For AMOCO PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by Maurice Johnson on 05/30/2001 ( )	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature	Date 05/27/2001

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By 	Title AFM	Date 11/14/01
Conditions of approval, if any, are attached. Approval of this notice 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.		Office

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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**Amoco Production Company  
BOP Pressure Testing Requirements**

Well Name: **FLORANCE AC 3M**  
County: **San Juan**

State: **New Mexico**

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1449		
Fruitland Coal	2134		
PC	2706		
Lewis Shale	2716		
Cliff House	4298	500	0
Menefee Shale	4510		
Point Lookout	4956	600	0
Mancos	5043		
Dakota	7050	2600	1491

\*\* Note: Determined using the following formula:  $ABHP - (.22 * TVD) = ASP$

<b>Requested BOP Pressure Test Exception: 3000 PSI</b>
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**SAN JUAN BASIN  
Dakota Formation  
Pressure Control Equipment**

**Background**

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 PSI, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 PSI. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 PSI system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 PSI rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H<sub>2</sub>S anticipated.

**Equipment Specification**

**Interval**

**Below conductor casing to total depth**

**BOP Equipment**

**11" nominal or 7 1/16", 3000 PSI  
double ram preventer with rotating  
head.**

All ram type preventers and related control equipment will be hydraulically tested to 250 PSI (low pressure) and 2000 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.