

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL



DEEPEN



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: corleym@bp.com**

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

At Surface **2050'**  
**1440 FSL AND 1770 FWL NESW SEC 1 T29N R8W**

At proposed prod. zone

**1440 FSL 1770 FWL (K) SEC 1 T29N, R8W**

14. DISTANCE IN MILES AND DIRECTION FROM THE NEAREST TOWN OR POST OFFICE

**14 MILES FROM AZTEC, NM**15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)16. NO. ACRES IN LEASE  
**323.15**18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE FT.19. PROPOSED DEPTH  
**7422 MD / TVD**17. NO. OF ACRES ASSIGNED  
TO THIS WELL  
**323.15 W/2**20. ROTARY OR CABLE TOOLS  
**ROTARY**

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

**6285 GL**22. APPROX. DATE WORK WILL START\*  
**04/30/2001**

## 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 02-26-2001. Amoco Production Company respectfully request permission to drill the subject well to a total depth of approximately 7683', 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 (NMOCD 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 7 .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 #3174 VERIFIED BY THE BLM WELL INFORMATION SYSTEM**  
**FOR AMOCO PRODUCTION COMPANY SENT TO THE FARMINGTON FIELD OFFICE**SIGNED **MARY CORLEY**TITLE **AUTHORIZED REPRESENTATIVE**DATE **03/23/2001**

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 \_\_\_\_\_

**/s/ Jim Lovato**

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

**HOLD C104 FOR 80 Acre infill approval**  
**for Basin Dakota**

**District I**

1625 N. French Dr., Hobbs, NM 88240

**District II**

811 South First, Artesia, NM 88210

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**

2040 South Pacheco, Santa Fe, NM 87505

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

2040 South Pacheco

Santa Fe, NM 87505

Form C-102  
Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> ABL Number <b>30-048-30610</b>		<sup>2</sup> Pool Code <b>71599 &amp; 72319</b>		<sup>3</sup> Pool Name <b>Basin Dakota &amp; Blanco Mesaverde</b>	
<sup>4</sup> Property Code <b>000518</b>		<sup>5</sup> Property Name <b>Florgnce</b>		<sup>6</sup> Well Number <b>30M</b>	
<sup>7</sup> OGRID No. <b>000778</b>		<sup>8</sup> Operator Name <b>Amoco Production Company</b>		<sup>9</sup> Elevation <b>6226'</b>	

**<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	Country
<b>Unit N</b>	<b>1</b>	<b>29N</b>	<b>8W</b>		<b>1200'</b>	<b>South</b>	<b>2050'</b>	<b>West</b>	<b>Rio Arriba</b>

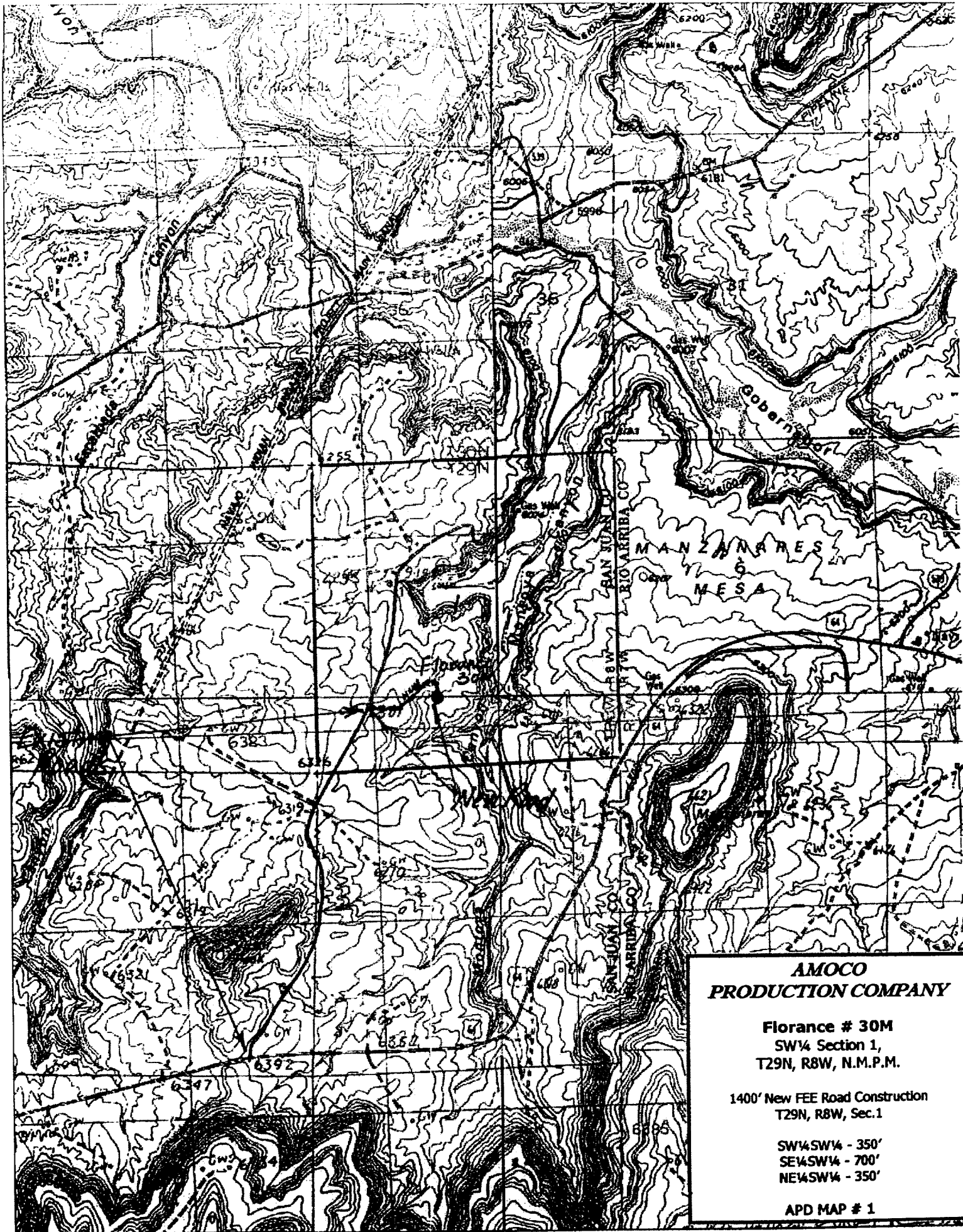
**<sup>11</sup> Bottom Hole Location If Different From Surface**

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Country
<b>K</b>	<b>1</b>	<b>29N</b>	<b>8W</b>		<b>1900</b>	<b>South</b>	<b>1770</b>	<b>West</b>	<b>Rio Arriba</b> <i>Sub V 2001</i>

<sup>12</sup> Dedicated Acres <b>323.15 Ac.</b>	<sup>13</sup> Joint or Infill	<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

<sup>16</sup> 		<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Cherry Hlava</i> Signature Cherry Hlava Printed Name Regulatory Analyst Title 10/02/2001 Date
		<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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. March 21, 2001 Date of Survey Signature and Seal of Professional Surveyor: 7016 Gary D. Vann Certificate Number



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.**5. Lease Serial No.  
SF - 78596-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
FLORANCE 30M

9. API Well No.

10. Field and Pool, or Exploratory  
BASIN DAKOTA/BLANCO MESAVE11. County or Parish, and State  
SAN JUAN COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

AMOCO PRODUCTION COMPANY

Contact:

CHERRY HLAVA

E-Mail: hlavacl@bp.com

3a. Address

P.O. BOX 3092  
HOUSTON, TX 77253

3b. Phone No. (include area code)

Ph: 281.366.4081

Fx: 281.366.0700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 1 T29N R8W NESW  
36.45000 N Lat, 107.37800 W Lon**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"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 recompleat 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 03/23/2001. A Sundry Notice and Form C-102 revising the drilling location (per BLM request) was submitted on 04/09/2001. Amoco Production Company respectfully requests permission to drill well as a directional. The surface location remains the same; 1200' South and 2050' West however bottom hole location is 1900' South and 1770' West. Please see attached C-102 and supporting documentation.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #7579 verified by the BLM Well Information System  
For AMOCO PRODUCTION COMPANY, sent to the Farmington  
Committed to AFMS3 for processing by Lucy Bee on 10/04/2001 ()**

Name (Printed/Typed) CHERRY HLAVA

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 10/03/2001

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

Approved By <u>/s/ Jim Lovato</u>	Title	Date
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 \*\***

NMOCD

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**AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

**Prospect Name:** Florance  
**Lease:** FLORANCE  
**County:** San Juan  
**State:** New Mexico  
**Date:** September 24, 2001

**Well No:** 30M  
**Surface Location:** 1-29N-8W, 1200 FSL, 2050 FWL  
**Field:** Blanco Mesaverde/Basin Dakota  
**Bottom Location:** 1-29N-8W, 1900 FSL, 1770 FWL

**OBJECTIVE:** Drill 42' into the Burro Canyon, set 41/2" production casing, Stimulate CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6285		Estimated KB: 6299	
Rotary	0 - TD	MARKER		SUBSEA	MEAS. DEPTH
<b>LOG PROGRAM</b>		Ojo Alamo		4215	2166
<b>TYPE</b>	<b>DEPTH INVERTAL</b>	Fruitland Coal	*	3551	2858
<u>OPEN HOLE</u>		Pictured Cliffs	*	3244	3167
GR-Induction	TD to 7" shoe	Lewis Shale	#	3119	3292
Density/Neutron	TD to 7" shoe	Cliff House	#	1530	4882
		Menefee Shale	#	1421	4990
<u>CASED HOLE</u>		Point Lookout	#	1071	5229
GR-CCL-TDT	TDT - TD to 7" shoe	Mancos		915	5496
CBL	Identify 4 1/2" cement top	Greenhorn		-938	7349
		Bentonite Marker		-984	7395
<b>REMARKS:</b>		Two Wells	#	-1042	7453
- Please report any flares (magnitude & duration)		Dakota MB	#	-1160	7571
		Burro Canyon	*	-1308	7719
		Morrison	*		
		<b>TOTAL DEPTH</b>		<b>-1315</b>	<b>7762</b>

SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		10 feet	Production hole	Geolograph	0-TD

MUD PROGRAM:						
Approx. Interval		Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 200	(1)	Spud	8.6-9.2		
200	- 3392		Water/LSND	8.6-9.2		<6
3392	- 7762		Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore		

**REMARKS:**

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

**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	200	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	3392	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7762	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/NMOCDD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by:

Logging program reviewed by: N/A

**PREPARED BY:**

**APPROVED:**

**DATE:**

September 27, 2001

HGJ/MNP

Version 5.0

**Amoco Production Company  
BOP Pressure Testing Requirements**

Well Name: Florance 30M  
County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2084		
Fruitland Coal	2748		
PC	3055		
Lewis Shale	3180		
Cliff House	4770	500	0
Menefee Shale	4878		
Point Lookout	5229	600	0
Mancos	5384		
Dakota	7341	2600	1416

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

Requested BOP Pressure Test Exception: 3000 PSI
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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 H2S 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.