

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.***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 - 080247
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 117M
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T29N R9W Mer SWNE 36.41000 N Lat, 107.44900 W Lon		9. API Well No. 30-045-30619
		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 recompleate 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 recompleation 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 and approved by your office on 05/02/01. 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. Additionally, the well location has been changed from 2380' FSL & 1790' FEL Section 35 T29N R5W to 2505' FNL & 1820' FEL Section 35 T29N R5W. This amendment is reflected on the attached Form C-102.

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 Location is being submitted to the NMOCD under a separate application.

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #4550 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 ()</b>	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature	Date 05/27/2001

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

Approved By _____	Title _____	Date 6/1/01
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 \*\*****HOLD C104 FOR NSL**

☐ AMENDED REPORT

PO Box 1980, Hobbs NM 88241-1980  
 District II  
 PO Drawer KKK, 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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-30619		Pool Code 71599/12319	Pool Name BASIN DAKOTA ? BLANCO MESAVERDE
Property Code 000518	Property Name Florance		Well Number # 117M
OCRD No. 000778	Operator Name AMOCO PRODUCTION COMPANY		Elevation 5688

## 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 (Lot 7)	35	29 N	9 W		2505	NORTH	1820	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 306.35	Join or Infill	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

16				17 OPERATOR CERTIFICATION			
				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <u>Mary Corley</u> Printed Name: <u>MARY CORLEY</u> Title: <u>Regulatory Analyst</u> Date: <u>5-29-01</u>			
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. Date of Survey: <u>May 16, 2001</u> Signature and Seal of Professional Surveyor: <u>GARY D. VANN</u> 				Certificate Number: <u>7016</u>			

**AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

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

**Well No:** 117M  
**Surface Location:** 35-29N-9W, 2380 FSL, 1790 FEL  
**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	DEPTH OF DRILLING	Estimated GL: 5695		Estimated KB: 5709	
Rotary	0 - TD	MARKER		SUBSEA	MEAS. DEPTH
<b>LOG PROGRAM</b> <b>TYPE</b> <u>OPEN HOLE</u> GR-Induction TD to 7" shoe Density/Neutron TD to 7" shoe  <u>CASED HOLE</u> GR-CCL-TDT TDT - TD to 7" shoe CBL Identify 4 1/2" cement top		Ojo Alamo		4623	1086
		Fruitland Coal	*	3863	1846
		Pictured Cliffs	*	3608	2101
		Lewis Shale	#	3515	2194
		Cliff House	#	1920	3790
		Menefee Shale	#	1851	3859
		Point Lookout	#	1341	4369
		Mancos		1203	4507
		Greenhorn		-585	6294
		Bentonite Marker		-650	6359
		Two Wells	#	-706	6415
		Dakota MB	#	-815	6524
		Burro Canyon	*	-990	6699
		Morrison	*	-1040	6749
		TOTAL DEPTH		-1140	6849
REMARKS:		# Probable completion interval * Possible Pay			
- Please report any flares (magnitude & duration).					
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		10 feet	Production hole	Geologist	0-TD
REMARKS:					

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	-	2294	(1)	Water/LSND	8.6-9.2	<6	
2294	-	6699		Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore		
6699		6849	(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	2294	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	6849	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:**

May 1, 2001

Version 2.0

HGJ/KAT

Form 46 12-00 KAT

## BOP Test Pressure

### Amoco Production Company BOP Pressure Testing Requirements

Well Name: Florance  
County: San Juan

117M  
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1086		
Fruitland Coal	1846		
PC	2101		
Lewis Shale	2194		
Cliff House	3790	500	0
Menefee Shale	3859		
Point Lookout	4369	600	0
Mancos	4507		
Dakota	6415	2600	1609

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

Requested BOP Pressure Test Exception:

# Cementing Program

Well Name: Florance 117M	Field: Blanco Mesaverde / Basin Dakota
Location: 35-29N-9W, 2380 FSL, 1790 FEL	API No.
County: San Juan	Well Flac
State: New Mexico	Formation: Dakota MesaVerde
	KB Elev (est) 5709
	GL Elev. (est) 5695

## Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	135	12.25	9.625	ST&C	Surface	NA	
Intermediate	2294	8.75	7	LT&C	Surface	NA	
Production -	6849	6.25	4.5	?	2194	NA	

## Casing Properties:

(No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface	9.625		32 H-40	3370	1400	254	0.0787	8.845
Intermediate	7		20 K-55	3740	2270	234	0.0405	6.456
Production -	4.5		11.6 J-55	5350	4960	154	0.0155	3.875

## Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prio Cementing:
			PV <20
			YP <10
			Fluid Loss <15
0 - SCP	Water/Spud	8.6-9.2	
SCP - ICP	Water/LSND	8.6-9.2	
ICP - ICP2	Gas/Air Mist	NA	
ICP2 - TD	LSND	8.6 - 9.2	

## Cementing Program:

	Surface	Intermediate	Production
Excess %, Bit	100%	80	10
Excess %, Caiper	NA	NA	30
B-HST (est deg. F)	60	120	160
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate
Rate, Max (bpm)	7	4	2
Rate Recommended (bpm)	6	4	2
Pressure, Max (psi)	200	2000	2000
Shoe Joint	40	80	40
Batch Mix	NA	NA	NA
Circulating prior cmtng (hr)	0.5	1.5	2
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6,7	1,6,8	2,4,6

1. Do not wash pumps and lines.
2. Wash pumps and lines.
3. Reverse out
4. Run Blend Test on Cement
5. Record Rate, Pressure, and Density on 3.5" disk
6. Confirm densitometer with pressurized mud scales
7. 1" cement to surface if cement is not circulated.
8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

## Notes:

- \*Do not wash up on top of plug. Wash lines before displacing production cement job to minimize drillout.
- \*\*\* Run TMD cased hole logs to identify pay; Perforating and CH logs can be run rigless.

## Surface:

Preflush	20 bbl.	FreshWater
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## Cementing Program

Slurry 1 TOC@Surface		73 sx Class G Cement + 2% CaC 2 (accelerator) 0.25 #/sk Cellophane Flake (lost circulation additive) 0.1% D46 antifoam	85 cuft  0.3132 cuft/ft OH 100 % excess
Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.8	1.16	4.95
Casing Equipment:	9-5/8", 8R, ST&C 1 Guide Shoe 1 Top Wooden Plug 1 Autofill insert float valve 4 Centralizers 1 Stop Ring 1 Thread Lock Compound		
<hr/>			
Intermediate:			
	Fresh Water	20 bbl	fresh water
Lead Slurry 1 TOC@Surface		163 sx Class "G" Cement + 3% D79 extender + 2% S1 Calcium Chloride + 1/4 #/sk. Cellophane Flake + 0.1% D46 antifoam	472 cuft
Tail Slurry 2		107 sx 50/50 Class "G"/Poz + 2% gel (extender) 0.1% D46 antifoam + 1/4 #/sk. Cellophane Flake + 2% CaCl2 (accelerator)	135 cuft
	500 ft fill		0.1503 cuft/ft OH 0.1746 cuft/ft csg ann 80 % excess
Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.9	17.77
Slurry 2	13.5	1.27	5.72
Casing Equipment:	7", 8R, ST&C  1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud) 1 Stop Ring 10 Centralizers (one in middle of first joint, then every third collar) 2 Fluidmaster vane centralizers @ base of Ojo 7 Centralizers one every 4th joint from Ojo to base of surface casing 1 Top Rubber Plug 1 Thread Lock Compound		

<b>Production:</b>				
	Fresh Water	10 bbl	CW100	
Lead Slurry 1 TOC@Surface		214 LiteCrete D961 / D124 / D154 + 0.03 gps D47 antifoam + 0.5% D112 fluid loss		458 cuft

# Cementing Program

+ 0.11% D65 TIC

Tail  
Slurry 2

500 ft fill

39 sx 50/50 Class "G"/Poz  
+ 5% D20 gel (extender)  
+ 0.1% D46 antifoam  
+ 1/4 #/sk. Cellophane Flake  
+ 0.25% D167 Fluid Loss

56 cuft  
+ 5 #/sk D24 gilsonite  
+ 0.15% D65 TIC  
+ 0.1% D800 retarder

0.1026 cuft/ft OH

Slurry Properties:

Density  
(lb/gal)

Yield  
(ft<sup>3</sup>/sk)

Water  
(gal/sk)

10 % excess

0.1169 cuft/ft csg ann

Slurry 1

9.5

2.14

6.38

Slurry 2

13

1.44

6.5

Casing Equipment:

4-1/2", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)  
1 Float Collar (autofill with minimal LCM in mud)  
1 Stop Ring  
39 Centralizers (every third joint)

1 Top Rubber Plug  
1 Thread Lock Compound

Note:

1. The job should be pumped at 2-3 bpm max rate. Do not exceed 3 bpm on displacement
2. Wash pump and lines before displacement. Slow to 1 bpm for the last 30 bbl of displacement.