

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF - 080 12 20 3
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY P.O. BOX 3092 HOUSTON, TX 77079		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. MARY CORLEY SUBMITTING CONTACT PHONE: 281.366.4491 FAX: 281.366.0700 EMAIL: corleyml@bp.com		8. FARM OR LEASE NAME, WELL NO FLORANCE GAS COM K 5M
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At Surface: 1800FNL AND 2230FNL SENW SEC 22 T30N R9W At proposed prod. zone:		9. API WELL NO 30-045-30607
14. DISTANCE IN MILES AND DIRECTION FROM THE NEAREST TOWN OR POST OFFICE 14 MILES FROM AZTEC, NM		10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA/BLANCO MESAVERDE
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SECTION 22 T30N R9W MERIDIAN NMP
16. NO. ACRES IN LEASE 320.00		12. COUNTY OR PARISH SAN JUAN
17. NO. OF ACRES ASSIGNED TO THIS WELL 320.00 N/2		13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE FT.		19. PROPOSED DEPTH 7422 MD / TVD
20. ROTARY OR CABLE TOOLS ROTARY		21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5965 GL
22. APPROX. DATE WORK WILL START* 04/24/2001		

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 12-07-2000 as Florance Gas Com #5E. Please change lease name to Florance Gas Com K and well number to 5M. Amoco Production Company respectfully request permission to drill the subject well to a total depth of approximately 7422', 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.

"GENERAL REQUIREMENTS"

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 #3086 VERIFIED BY THE BLM WELL INFORMATION SYSTEM		
FOR AMOCO PRODUCTION COMPANY SENT TO THE FARMINGTON FIELD OFFICE		
SIGNED MARY CORLEY	TITLE SUBMITTING CONTACT	DATE 03/20/2001

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 _____
FOR NSL in Basin Dakota

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

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

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 30-045-30607		2 Pool Code 71599 & 72319	3 Pool Name Basin Dakota & Blanco Mesaverde
4 Property Code 000538	5 Property Name FLORANCE GAS COM K		6 Well Number 5M
7 OGRID No. 000778	8 Operator Name AMOCO PRODUCTION COMPANY		9 Elevation 5965

¹⁰ Surface Location




UL or Lot No.	Section	Township	Range	Lot Ltn	Feet from the	North/South line	Feet from the	East/West line	County
F	22	30 N	9 W		1800	NORTH	2230	WEST	SAN JUAN

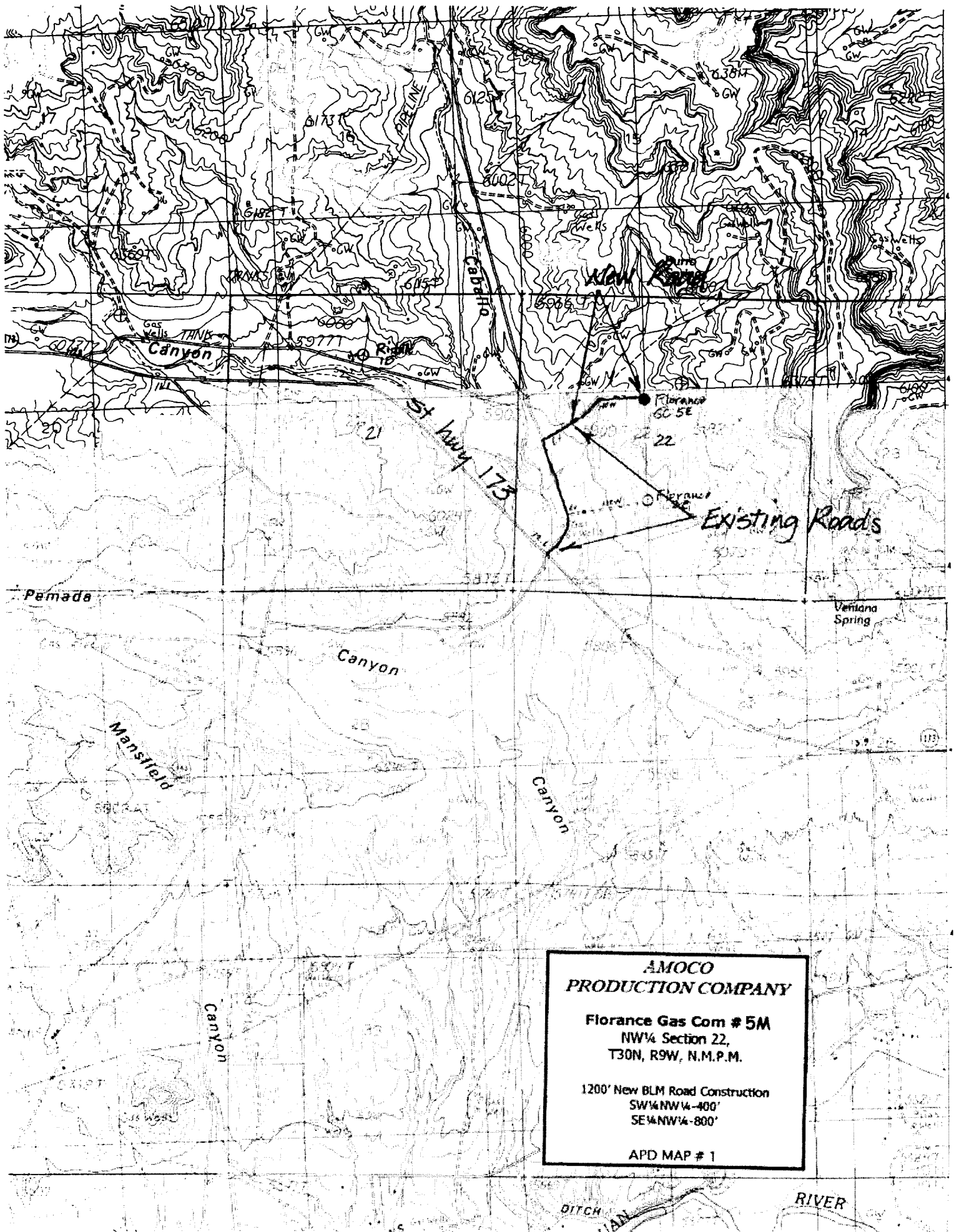
¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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11 Dedicated Acres 320.00	12 Joint or Infill	13 Consolidation Code	14 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 style="display: flex; justify-content: space-between;"> 16 5258(R) </div> <div style="text-align: center; margin-top: 100px;">  </div> <div style="display: flex; justify-content: space-between; margin-top: 100px;"> 2230' 1800' </div> <div style="text-align: center; margin-top: 20px;"> 22 </div> <div style="display: flex; justify-content: space-between; margin-top: 100px;"> 5233 5306 </div>	<div> 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <div style="text-align: center;">  Mary Corley </div> <hr/> Signature Mary Corley <hr/> Printed Name Sr. Regulatory Analyst <hr/> Title <div style="text-align: center;">02/20/2001</div> <hr/> Date </div>
<div style="text-align: center; margin-top: 20px;"> 22 </div> <div style="display: flex; justify-content: space-between; margin-top: 100px;"> 5219(R) </div>	<div> 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. <div style="text-align: center;">November 17, 2000</div> <hr/> Date of Survey <hr/> Signature and Seal of Professional Surveyor <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> 7016 Certificate Number </div> </div>



**AMOCO
PRODUCTION COMPANY**

Florance Gas Com # 5M
NW¼ Section 22,
T30N, R9W, N.M.P.M.

1200' New BLM Road Construction
SW¼NW¼-400'
SE¼NW¼-800'

APD MAP # 1

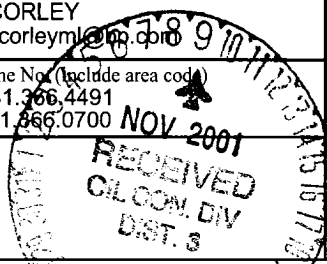
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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		7. If Unit or CA/Agreement, Name and/or No.
2. Name of Operator AMOCO PRODUCTION COMPANY		8. Well Name and No. FLORANCE GAS COM K 5M
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		9. API Well No.
3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700		10. Field and Pool, or Exploratory BASIN DAKOTA/BLANCO MESAVERDE
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T30N R9W Mer SENW 36.48000 N Lat, 107.46100 W Lon		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 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 03/20/2001. 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 #4555 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 <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 ****

MAJ02

**AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Florance Gas Com K
Lease: FLORANCE GAS COM K
County: San Juan
State: New Mexico
Date: May 27, 2001

Well No: 5M
Surface Location: 22-30N-9W, 1800 FNL, 2230 FWL
Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 450' below the base of the Greenhorn Limestone, set 41/2" 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: 5965		Estimated KB: 5979	
Rotary	0 - TD	MARKER		SUBSEA	MEAS. DEPTH
LOG PROGRAM		Ojo Alamo		4563	1416
TYPE	DEPTH INVERAL	Fruitland Coal	*	3819	2160
<u>OPEN HOLE</u>		Pictured Cliffs	*	3283	2696
GR-Induction	TD to 7" shoe	Lewis Shale	#	3239	2740
Density/Neutron	TD to 7" shoe	Cliff House	#	1632	4347
		Menefee Shale	#	1452	4527
<u>CASED HOLE</u>		Point Lookout	#	1026	4953
GR-CCL-TDT	TDT - TD to 7" shoe	Mancos		928	5051
CBL	Identify 4 1/2" cement top	Greenhorn		-962	6941
REMARKS: - Please report any flares (magnitude & duration).		Bentonite Marker		-1043	7022
		Two Wells	#	-1090	7069
		Dakota MB	#	-1224	7203
		Burro Canyon	*	-1329	7308
		Morrison	*	-1379	7358
		TOTAL DEPTH		-1533	7512
		# Probable completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		10 feet	Production hole	Geolograph	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 - 2840 (1)	Water/LSND	8.6-9.2		<6	
2840 - 7308	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			
7308 7512 (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	2840	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7512	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

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

**Amoco Production Company
BOP Pressure Testing Requirements**

Well Name: Florance Gas Com K 5M

County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1416		
Fruitland Coal	2160		
PC	2696		
Lewis Shale	2740		
Cliff House	4347	500	0
Menefee Shale	4527		
Point Lookout	4953	600	0
Mancos	5051		
Dakota	7069	2600	1489

**** 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

BOP Equipment

Below conductor casing to total depth

**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.