

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

2003 JUL 10 AM 9:19

070 Farmington, NM

5. Lease Serial No. **SF - 078385**

6. If Indian, Allottee or tribe Name

7. If Unit or CA Agreement, Name and No

8. Lease Name and Well No.

**Florance K 29B**

9. API Well No.

**3004531781**

10. Field and Pool, or Exploratory

**Blanco Mesaverde**

11. Sec., T., R., M., or Blk. and survey or Area

**Sec. 25, T30N, R08W**

County or Parish

**San Juan**

13. State

**New Mexico**

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well Gas ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator

**BP America Production Company Attn: Mary Corley**

3a. Address

**P.O. Box 3092 Houston, Texas 77253**

3b. Phone No. (include area code)

**281-368-4491**

4. Location of Well (Report location clearly and in accordance with any State requirements.)

At surface **770' FNL & 680' FWL**

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*

15. Distance from proposed\*  
Location to nearest  
Property or lease line, ft.

(Also to nearest drig. Unit line, if any)

**680'**

16. No. of Acres in lease

**320**

17. Spacing Unit dedicated to this well

**320 W2**

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

**1500'**

19. Proposed Depth

**5595'**

20. BLM/BIA Bond No. on file

**WY2924**

21. Elevations (show whether DF, KDB., RT, GL, etc.

**6126' GL**

22. Approximate date work will start\*

**September 01, 2003**

23. Estimated duration

**7 Days**

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/typed)

**Mary Corley**

Date

**07/08/2003**

Title

**Senior Regulatory Analyst**

Approved by (Signature)

**Original Signed: Stephen Mason**

Name (Printed/Typed)

Date

**SEP 10 2003**

Title

Office

Application approval does not warrant or certify 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 reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

NMOC

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 30-045-31781		2 Pool Code 72319		3 Pool Name Blanco Mesa Verde		
4 Property Code 000544		5 Property Name Florance K			6 Well Number # 29B	
7 OGRID No. 000778		8 Operator Name BP AMERICA PRODUCTION COMPANY			9 Elevation 6126	

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
D	25	30 N	8 W		770	NORTH	680	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

12 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
13 Dedicated Acres 320		14 Joint or Infill		15 Consolidation Code		16 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: <i>Mary Corley</i></p> <p>Printed Name: Mary Corley</p> <p>Title: Sr. Regulatory Analyst</p> <p>Date: 07.08.2003</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>June 10, 2003</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p></p> <p>Certificate Number: 7016</p>

**BP AMERICA PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

**Prospect Name:** Florance K  
**Lease:** Florance K  
**County:** San Juan  
**State:** New Mexico  
**Date:** June 23, 2003

**Well No:** 29 B  
**Surface Location:** 25-30N-8W, 770 FNL, 685 FWL  
**Field:** Blanco Mesaverde

**OBJECTIVE:** Drill 420' below the top of the Point Lookout Sandstone, set 4 1/2" production liner, Stimulate CH, MF and PL intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6126'		Estimated KB: 6140'	
Rotary	0 - TD				
<b>LOG PROGRAM</b>					
TYPE	DEPTH INVERTAL	MARKER		SUBSEA	TVD
<u>OPEN HOLE</u>		Ojo Alamo		4310	1830
None		Kirtland		4107	2033
		Fruitland		3696	2444
		Fruitland Coal	*	3428	2712
		Pictured Cliffs	*	3157	2983
		Lewis	*	3001	3140
<u>CASED HOLE</u>		Cliff House	#	1634	4506
GR-CCL-TDT	TDT - TD to 7" shoe	Menefee	#	1315	4825
CBL	Identify 4 1/2" cement top	Point Lookout	#	965	5175
		Mancos		553	5587
REMARKS:		TOTAL DEPTH			
- Please report any flares (magnitude & duration).		545			
		5595			
		# Probable completion interval * Possible Pay			
<b>SPECIAL TESTS</b>		<b>DRILL CUTTING SAMPLES</b>		<b>DRILLING TIME</b>	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		None	Production hole	Geologist	0-TD
REMARKS:					

MUD PROGRAM:					
Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 120	Spud	8.6-9.2			
120 - 2662 (1)	Water/LSND	8.6-9.2		<6	
2662 - 5595	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	120	9 5/8"	H-40 ST&C	32#	13.5"	1
Intermediate 1	2662	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	5595	4 1/2"	J-55	10.5#	6.25"	3,4

REMARKS:  
 (1) Circulate Cement to Surface  
 (2) Set casing 50' above Fruitland Coal  
 (3) Bring cement 100' above 7" shoe  
 (4) 100' Overlap

**CORING PROGRAM:**  
 None

**COMPLETION PROGRAM:**  
 Rigless, 2-3 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

<b>PREPARED BY:</b>	<b>APPROVED:</b>	<b>DATE:</b>	
HGJ/MNP/JMP		June 23, 2003	
Form 46 12-00 MNP		Version 1.0	

# BP America Production Company BOP Pressure Testing Requirements

Well Name: Florance K  
County: San Juan

29 B  
State: New Mexico

Formation	Estimated TVD/MD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1830		
Fruitland Coal	2712		
PC	2983		
Lewis Shale	3140		
Cliff House	4506	500	0
Menefee Shale	4825		
Point Lookout	5175	600	0
Mancos	5587		
Dakota	-		

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

Requested BOP Pressure Test Exception: 750 psi

**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

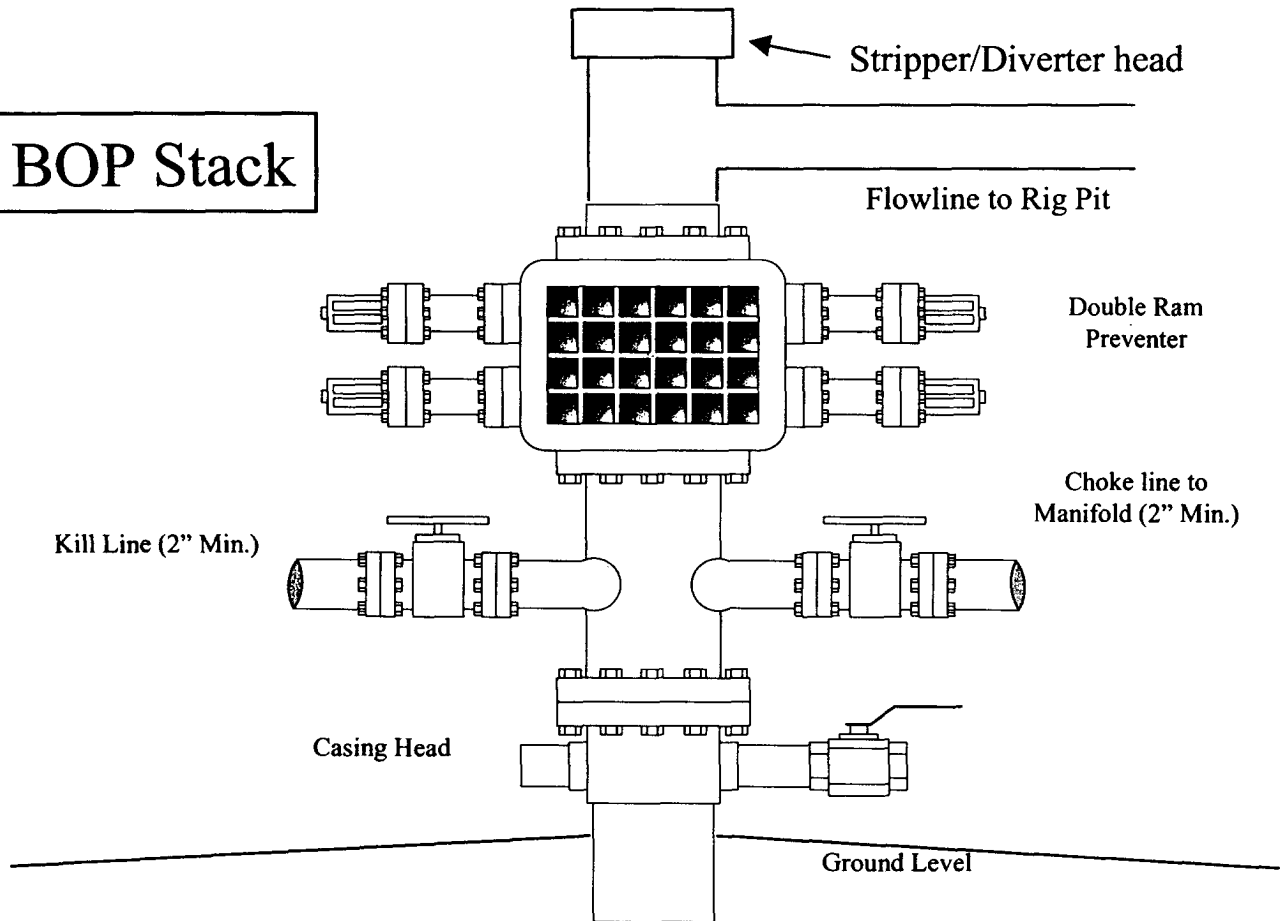
11" nominal or 7 1/16", 3000 psi  
double ram preventer with rotating head.

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.

**BP American Production Company**  
Well Control Equipment Schematic



**BOP Stack**



**Choke & Kill Manifold**

