

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone2. Name of Operator
BP AMERICA PRODUCTION COMPANY
Contact: MARY CORLEY
E-Mail: corleyml@bp.com3a. Address
P.O. BOX 3092
HOUSTON, TX 772533b. Phone No. (include area code)
Ph: 281.366.4491
Fx: 281.366.0700

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

At surface NWSE Lot J Tract J 1400FSL 2275FEL 36.48500 N Lat, 107.44900 W Lon Sec 14 T30N R9W Mer NMP
At proposed prod. zone14. Distance in miles and direction from nearest town or post office*
16 MILES FROM AZTEC, NEW MEXICO15. Distance from proposed location to nearest property or
lease line, ft. (Also to nearest drig. unit line, if any)
124016. No. of Acres in Lease
320.0018. Distance from proposed location to nearest well, drilling,
completed, applied for, on this lease, ft.
125019. Proposed Depth
5386 MD21. Elevations (Show whether DF, KB, RT, GL, etc.)
5990 GL22. Approximate date work will start
01/02/20035. Lease Serial No.
NMSF - 080004

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
FLORANCE R 8B9. API Well No.
300453196310. Field and Pool, or Exploratory
BLANCO MESAVERDE

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

12. County or Parish
SAN JUAN13. State
NM

17. Spacing Unit dedicated to this well

320.00 SP

20. BLM/BIA Bond No. on file

WY2924

23. Estimated duration
5 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
(Electronic Submission)Name (Printed/Typed)
MARY CORLEYDate
10/14/2003Title
AUTHORIZED REPRESENTATIVEApproved by (Signature)
David J. Mankiewicz

Name (Printed/Typed)

Date
NOV 25 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.

Additional Operator Remarks (see next page)

Electronic Submission #24176 verified by the BLM Well Information System
For BP AMERICA PRODUCTION COMPANY, sent to the FarmingtonThis action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

NMOCD

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 30-045-31963		2 Pool Code 72319		3 Pool Name BLANCO MESA VERDE		
4 Property Code 000548		5 Property Name Florance R			6 Well Number # 8B	
7 OGRID No. 000778		8 Operator Name BP AMERICA PRODUCTION COMPANY			9 Elevation 5990	

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
J	14	30 N	9 W		1400	SOUTH	2275	EAST	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
320									
13 Dedicated Acres		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

<div>16</div>	<div>17 OPERATOR CERTIFICATION</div> <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> Printed Name: Mary Corley Title: Sr Regulatory Analyst Date: 10-09-2003</p>
	<div>18 SURVEYOR CERTIFICATION</div> <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>September 2, 2003 Date of Survey</p> <p>Signature and Seal of Professional Surveyor <i>GARY D. VANN</i> 7016 Certificate Number</p>

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

Prospect Name: Florance R
Lease: Florance R
County: San Juan
State: New Mexico
Date: September 11, 2003

Well No: 8 B
Surface Location: 14-30N-9W, 1400 FSL, 2275 FEL
Field: Blanco Mesaverde

OBJECTIVE: Drill 400' 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: 5990'		Estimated KB: 6004'	
Rotary		0 - TD					
LOG PROGRAM							
TYPE		DEPTH INVERTAL		MARKER		SUBSEA	
OPEN HOLE				Ojo Alamo		4428	
None				Kirtland		4349	
				Fruitland		3814	
				Fruitland Coal		3534	
				Pictured Cliffs		3259	
				Lewis		3009	
				Cliff House		1718	
				Menefee		1412	
				Point Lookout		1018	
				Mancos		674	
CAGED HOLE							
GR-CCL-TDT		TDT - TD to 7" shoe					
CBL		Identify 4 1/2" cement top					
REMARKS:							
- Please report any flares (magnitude & duration).							
				TOTAL DEPTH		618	
						5386	
				# Probable completion interval		* Possible Pay	
SPECIAL TESTS				DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE				FREQUENCY DEPTH		FREQUENCY DEPTH	
None				None Production hole		Geolograph 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 - 2420 (1)		Water/LSND	8.6-9.2		<6		
2420 - 5386		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#	12.25"	1	
Intermediate 1	2420	7"	J/K-55 ST&C	20#	8.75"	1,2	
Production	5386	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, 3-4 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:			
HGJ/MNP/JMP				September 11, 2003			
Form 46 12-00 MNP				Version 1.0			

BP America Production Company

BOP Pressure Testing Requirements

Well Name: Florance R
County: San Juan

8 B
State: New Mexico

Formation	Estimated TVD/MD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1576		
Fruitland Coal	2470		
PC	2745		
Lewis Shale	2995		
Cliff House	4286	500	0
Menefee Shale	4593		
Point Lookout	4986	600	0
Mancos	5330		
Dakota	-	2600	1374

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

Requested BOP Pressure Test Exception: 750 psi

SAN JUAN BASIN
Mesaverde Formation
Pressure Control Equipment

Background

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

BOP Equipment

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.

Cementing Program

Well Name: Florance R8B
 Location: 14-30N-09W, 1400 FSL, 2275 FEL
 County: San Juan
 State: New Mexico

Field: Blanco Mesaverde
 API No.
 Well Flac
 Formation: MesaVerde
 KB Elev (est) 6004
 GL Elev. (est) 5990

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	120	12.25	9.625	ST&C	Surface	NA	
Intermediate	2420	8.75	7	ST&C	Surface	NA	
Production -	5386	6.25	4.5	ST&C	2320	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	2370	1400	254	0.0787	8.845
Intermediate	7	20	K-55	3740	2270	254	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 %, Lead	100	100	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	72	110	159
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6	1,6	2,6

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.

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	70 sx Class G Cement		75 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)		
	0.25 #/sk Cellophane Flake (lost circulation additive)		0.3132 cuft/ft OH
	0.1% D46 antifoam		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
- Centralizers, 1 per joint except top joint
- 1 Stop Ring
- 1 Thread Lock Compound

Cementing Program

Intermediate:

Fresh Water	20 bbl	fresh water		
Lead		220 sx Class "G" Cement		562 cuft
Slurry 1		+ 3% D79 extender		
TOC@Surface		+1/4 #/sk. Cellophane Flake		
		+ 0.1% D46 antifoam'		
Tail		60 sx 50/50 Class "G"/Poz		75 cuft
Slurry 2		+ 2% gel (extender)		
		0.1% D46 antifoam		
500 ft fill		+1/4 #/sk. Cellophane Flake		0.1503 cuft/ft OH
		+ 2% S1 Calcium Chloride		0.1746 cuft/ft csg ann
				80 % excess
Slurry Properties:	Density	Yield	Water	
	(lb/gal)	(ft ³ /sk)	(gal/sk)	
Slurry 1	11.7	2.61	17.77	
Slurry 2	13.5	1.27	5.72	
Casing Equipment:	7", 8R, ST&C			
	1 Float Shoe			
	1 Float Collar			
	1 Stop Ring			
	Centralizers, one every other joint to base of Ojo			
	2 Turbolizers across Ojo			
	Centralizers, one every 4th joint from Ojo to base of surface casing			
	1 Top Rubber Plug			
	1 Thread Lock Compound			

Production:

Fresh Water	10 bbl	CW100		
Slurry		180 LiteCrete D961 / D124 / D154		442 cuft
		+ 0.03 gps D47 antifoam		
		+ 0.5% D112 fluid loss		
TOC@Liner Top		+ 0.11% D65 TIC		
Slurry Properties:	Density	Yield	Water	0.1026 cuft/ft OH
	(lb/gal)	(ft ³ /sk)	(gal/sk)	40 % excess
Slurry	9.5	2.52	6.38	0.1169 cuft/ft csg ann
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			
	Centralizers, every 4th joint in mud drilled holes, none in air drilled holes			
	1 Top Rubber Plug			
	1 Thread Lock Compound			