Form 3160-3 · (August 1999)

UNITED STATES

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

DEPARTMENT OF T	THE INTERIOR			
BUREAU OF LAND	MANAGEMENT	5. Lease Serial No. NMSF - 080032		
APPLICATION FOR PERMIT	TO DRILL OR REENTER 2004	6. If Indian, Allottee or Trib	e Name	
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement	, Name and No.	
1b. Type of Well: ☐ Oil Well 🙀 Gas Well ☐ Otl	ner Single Zone	8. Lease Name and Well No FLORANCE 23B).	
2. Name of Operator Contact:	MARY CORLEY	9. API Well No.		
BP AMERICA PRODUCTION COMPANY	E-Mail: corleyml@bp.com	3004532	2143	
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700	10. Field and Pool, or Explo BLANCO MESAVER		
4. Location of Well (Report location clearly and in according	ance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area	
At surface SWSE Lot O 700FSL 1780 At proposed prod. zone	FEL 36.42300 N Lat, 107.43800 W Lon	O Sec 24 T29N R9W N SME: BLM	/ler NMP	
14. Distance in miles and direction from nearest town or post	office*	12. County or Parish	I 13. State	
21 MILES FROM BLOOMFIELD, NEW MEXIC		SAN JUAN	NM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated	to this well	
700	293.90	293.90		
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on	file	
317' - FLORANCE 71 - PC WELL	5688 MD	WY2924		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6450 GL	22. Approximate date work will start 02/28/2004	23. Estimated duration 5 DAYS		
	24. Attachments			
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of 	Item 20 above). 5. Operator certification	ons unless covered by an existing formation and/or plans as may	,	
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 04/93/9004	
,	WART CORLET		01/23/2004	
Title AUTHORIZED REPRESENTATIVE				
Approved by (Signature)	Name (Printed/Typed)		Date	
Title	Office		<u> </u>	
Application approval does not warrant or certify the applicant ho operations thereon.	lds legal or equitable title to those rights in the subject le	ease which would entitle the ap	plicant to conduct	

Additional Operator Remarks (see next page)

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Conditions of approval, if any, are attached.

Electronic Submission #27147 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

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

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

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

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

PO Box 2088, Santa Fe, NM 87504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT Well Number #23B Florance ^a Operator Name Elevation **BP AMERICA PRODUCTION COMPANY** 6450 Surface Location North/South line Feet from the Feet from the Rest/West line County UL or Lot No. Lot Idn Section SAN JUAN 29 N 9 W 700 SOUTH 1780 EAST 24 O (Lot 15 Bottom Hole Location If Different From Surface East/West line UL or lot no. Section Township Lot Ido North/South line Peet from the County Joint or Infill 14 Consolidation Code NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED E/Z OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION "OPERATOR CERTIFICATION FlORANCE 23) 30.045.0809 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 9901 FNL 7901 FILL Lot 4 Lot 3 Lot 2 Lot 5 Lot 7 Lot 8 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat FORANCE 231 was plotted from field notes of actual surveys made by me 30.045.22349 or under my supervision, and that the same is true and 1450' FSL correct to the best of my belief. 1085' Kits November 12, 2003 Lot 12 Lot 10 Lot 11 Date of Survey Lot 15 Lot 16 1780' Lot 13 **Lot 14** 700

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance

CORING PROGRAM:

GENERAL REMARKS:

COMPLETION PROGRAM:

Rigless, 2-3 Stage Limited Entry Hydraulic Frac

None

Well No: 23 B

Lease: Florance

Surface Location: 24-29N-9W; 700 FSL, 1780 FEL

County: San Juan State: New Mexico

Field: Blanco Mesaverde

Date: January 8, 2004

OBJECTIVE: Drill 470' be	elow the top of the Point L	ookout Sandstone, s	et 2 7/8" Production	long string, Sti	mulate CH, MF	and PL interv	als			
MET	HOD OF DRILLING		APPROXIM	IATE DEPT	HS OF GEO	OLOGICAL	MARKER			
TYPE OF TOOLS	DEPTH OF	Estimated	Estimated GL: 6450		Estimated KB: 6464					
Rotary	0 - TD		MARKE	₹	SUB	SEA	TVD			
ı	Ojo Alamo		449	93	1971					
TYPE	DEPTH INV	Kirtland		44	12	2052				
OPEN HOLE		F	Fruitland		398	36	2478			
None			Fruitland Coa	al *	375	57	2707			
			Pictured Cliffs		346		3002			
			Lewis	*	327		3190			
CASED HOLE			Cliff House	#	197		4492			
GR-CCL	TD to 5 1/2"	shoe	Menefee	#	172		4744			
			Point Lookou	t #	124	- 1	5218			
			Mancos		81	3	5651			
REMARKS:				1 .		ì				
- Please report any flares	(magnitude & duration)			İ			•			
			TOTAL DEP	тн	77	6	5688			
						Possible Pa				
9	PECIAL TESTS			# Probable completion interval * Possible Pay DRILL CUTTING SAMPLES DRILLING TIME						
TYPE	I LOIAL ILOIO			FREQUENCY DEPTH FREQUENCY DEPT						
None			None	· · · · · · · · · · · · · · · · · · ·						
REMARKS:			110110		1 00	solograpii	0-10			
REMARNS.			l							
MUD PROGRAM:										
Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc'	s/30 min	Other Spe	ecification			
0 - 120	Spud	8.6-9.2								
120 - 2657	(1) Water/LSN	ND 8.6-9.2		<6						
2657 - 5688	Gas/Air/N		sufficient to maintain a stable and clean wellbore							
REMARKS:										
(1) The hole will require	sweeps to keep unlo	aded while frest	n water drilling. L	et hole con	ditions dicta	ate frequenc	y.			
CASING PROGRAM: (Normally tubular goods a	llocation letter specif	ies casina sizos to he	aused Holos	rizos will be go	vorned by Con	tract)			
Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size		Pt, Cmt, I			
Surface/Conductor	120	8 5/8"	X-42 ST&C	20#	12.25"					
Intermediate 1	2657	5 ½"	J-55 ST&C	15.5#	7.875"					
Production	5688			6.5#	4.75"					
REMARKS:			1 3 55	3.5 1	1,1.0	1 0,.				
(1) Circulate Cement to	Surface									
(2) Set casing 50' above										
(3) Bring cement 100' at										
(4) 100' Overlap	JUYE J 1/2 5110E									
(4) 100 Overlap										

Form-3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

•	BUREAU OF LAND MANAG	GEMENT	20 W	17.77	5. Lease Serial No.	
SUND	RY NOTICES AND REPO	RTS ON WELL	_ S √ ``		NMSF080032	
Do not use abandoned	this form for proposals to well. Use form 3160-3 (API	drill or to re-en D) for such prój	ter an posals. APR	2004	6. If Indian, Allottee of	Tribe Name
				<0()4	73 If Unit or CA/Agree	ment, Name and/or No.
SUBMIT IN	TRIPLICATE - Other instruc	tions on revers	e side. ()	100 July 1	in only of chargies	ment, Ivanie and/or ivo.
1. Type of Well		(-		· J · · · · · · · · · · · · · · · · · ·	38. Well Name and No. FLORANCE 23B	
Oil Well Gas Well 2. Name of Operator		MARY CORLEY	An December 1		9. API Well No.	
BP AMERICA PRODUCTI		E-Mail: corleyml@	bp.com	OCHE STEE	•	
3a. Address P. O. BOX 3092 HOUSTON, TX 77253		3b. Phone No. (in Ph: 281.366.4 Fx: 281.366.07	491)	10. Field and Pool, or BLANCO MESA	VÉRDE
	ec., T., R., M., or Survey Description	1)			11. County or Parish,	and State
Sec 24 T29N R9W SWSE 36.42300 N Lat, 107.4380					SAN JUAN COL	JNTY, NM
12. CHECK A	PPROPRIATE BOX(ES) TO	O INDICATE N	ATURE OF 1	NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE O	F ACTION		
- Notice of Intent	Acidize	☐ Deepen		Product	ion (Start/Resume)	☐ Water Shut-Off
Notice of Intent	☐ Alter Casing	Fracture	e Treat	□ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	Casing Repair	□ New Co	onstruction	Recom	olete	Other
Final Abandonment Notice	e Change Plans	☐ Plug an	d Abandon	☐ Tempor	arily Abandon	Change to Original A PD
	Convert to Injection	Plug Ba	ıck	□ Water I	Disposal	
Attach the Bond under which the following completion of the investing has been completed. Fir determined that the site is ready Original APD submitted on BP America submits for your well. Please reference att. However, should condition drill the subject well with a using approximately 90 C	n 01/23/2004, EC Submission our approval amendements to ached cementing report for done change, BP request as an air/air mist in lieu of drilling muU/FT TYPE I-II, 20% FLYASH	the Bond No. on fil sults in a multiple or led only after all request of the contract of the c	e with BLM/BL ompletion or rec uirements, include Pending. menting prog on. ventional drill e surface cas	A. Required substitution in a ding reclamation reclamation ram for the sing program ing	bsequent reports shall be new interval, a Form 316 on, have been completed, subject	filed within 30 days 0-4 shall be filed once
	Electronic Submission # For BP AMERICA committed to AFMSS for proces	A PRODUCTION Ó	O, sent to th	e Farmington	า ้	
Name (Printed/Typed) MARY	CORLEY	Ti	itle AUTHO	RIZED REF	PRESENTATIVE	
Signature (Electro	onic Submission)	D	ate 02/17/2	2004		
	THIS SPACE FO	OR FEDERAL	OR STATE	OFFICE U	SE	
Approved By	Pavid J. Mankiewicz	7	Title			APR - 8 2002 Date
Conditions of approval, if any, are at certify that the applicant holds legal which would entitle the applicant to	or equitable title to those rights in th	e subject lease	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.

BP America Production Company BOP Pressure Testing Requirements

Well Name: Florance

County: San Juan

23 B

State: New Mexico

Formation	Estimated TVD/MD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **		
Ojo Alamo	1971				
Fruitland Coal	2707				
PC	3002				
Lewis Shale	3190				
Cliff House	4492	500	0		
Menefee Shale	4744				
Point Lookout	5218	600	0		
Mancos	5651				

^{**} Note: Determined using the following formula: ABHP - (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 750 psi

SAN JUAN BASIN Mesaverde Formation Pressure Control Equipment

Background

The objective Mesaverde 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 rigs 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 Mesaverde. No abnormal temperature, pressure, or H2S anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth

9", 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 750 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

FEDERAL CEMENTING REQUIREMENTS

- 1. All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.
- 2. The hole size will be no smaller than 1 $\frac{1}{2}$ " larger diameter than the casing O.D. across all water zones.
- 3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.
- 4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.
- 5. Centralizers will be used just below and into the base of the lowest usable water zone.
- 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.

Cementing Program

Well Name:	Florance 23B		·		Field:	Blanco Mes	saverde		
_ocation:	24-29N-09W, 70	00 FSL, 1780 FE	EL		API No.				
County:	San Juan				Well Flac				
State:	New Mexico				Formation:	MesaVerd	е		
					KB Elev (est)	6	3464		
		•			GL Elev. (est)	•	3450		
Casing Program									
Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.			
Surface	120	_ ("''.) 12 1/4	8 5/8	ST&C	Surface	NA	,		
Intermediate	2657	7 7/8	5 1/2	ST&C	Surface	NA.			
Production -	5688	- 4 3/4	2 7/8	SIAC	2557	NA NA			
Casing Propertie			actor Included)			14/1			***
Casing Propertie Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capa	city Dr	.: .:
Casing Sung		•	Grade		•		•	•	
0	(in.)	(lb/ft)	V40	(psi.)	(psi.)	(1000 lbs.)	•		•
Surface	8 5/ 5 1/		X42	2950		370		0.06368	7.97
Intermediate	5 1/		J55	4810		040	202	0.0238	5.06
Production -	2 7/	o 6.5	J-55	7264	, /(676	72	0.00579	2.37
Mud Program									
Apx. Interval	Mud Type	Mud Weight		Recomm	ended Mud Pro	perties Prio Ce	menting:		
(ft.)									
0 - SCP	Water/Spud	8.6-9.2		Fluid Los	i s < 6				
SCP - ICP	Water/LSND	8.6-9.2							
ICP - TD	Gas/Air Mist	NA							
Cementing Progra	am.			,					
Comonang r rogic			Surface		Intermediat	е	Proc	duction	
Excess %, Lead			100		100			40	
Excess %, Tail			NA		. 0			40	
BHST (est deg. F)		72		110			159	
Time Between Sta	•		NA		NA			NA	
Special Instruction	ns		1,6		1,6			2,6	
	1. Do not wash	pumps and line:	S.						
	Wash pumps	and lines.							
	Reverse out								
	Run Blend Te	est on Cement							
	Record Rate,	Pressure, and	Density on 3.5"	disk					
	6. Confirm dens	itometer with pr	essurized mud s	scales					
	7. 1" cement to	surface if ceme	nt is not circulate	ed.					
	8. If cement is n	ot circulated to	surface, run tem	np. survey 1	0-12 hr. after la	nding plug.			
·····		·							
Surface:									
	Preflush		20 bbl.	FreshWa	iter				
	Slurry 1	ลก	sx Class C Cer	ment				95 cu	ft
	TOC@Surface	00	+ 2% CaCl (ac		•			30 Cu	
	. Comounace		•	,	o /loot el	احد نافالمام م		0.2004	#I# C::
			0.25 #/sk Cello		e (lost circulatio	n additive)		0.3961 cu	
			0.1% D46 antif					100 %	excess
Oleman Danier				Yield		Water			
Slurry Properties:		Density							
Slurry Properties:		Density (lb/gal)		(ft3/sk)		(gal/sk)			
Slurry Properties:	Slurry 1	•		(ft3/sk) 1.27	,	(gal/sk)	5.8		

Cementing Program

Fresh Water

20 bbl

fresh water

Lead

Tail

Slurry 2

Slurry 1

TOC@Surface

280 sx Class "G" Cement

+ 3% D79 extender

+1/4 #/sk. Cellophane Flake

+ 0.1% D46 antifoam'

70 sx 50/50 Class "G"/Poz

+ 2% gel (extender)

0.1% D46 antifoam

+1/4 #/sk. Cellophane Flake

+ 2% S1 Calcium Chloride

87 cuft

730 cuft

0.1733 cuft/ft OH 0.2009 cuft/ft csg ann

80 % excess

Slurry Properties:

Density

500 ft fill

(lb/gal)

Yield

(ft3/sk) 2.61 Water (gal/sk)

Slurry 1 Slurry 2 11.7 13.5

1.27

17.77 5.72

Production:

Fresh Water

10 bbl

CW100

Slurry

140 LiteCrete D961 / D124 / D154

+ 0.03 gps D47 antifoam + 0.5% D112 fluid loss

343 cuft

TOC@Liner Top

+ 0.11% D65 TIC

Slurry Properties:

Density

(lb/gal)

Yield (ft3/sk) Water (gal/sk) 0.078 cuft/ft OH

40 % excess 0.0886 cuft/ft csg ann

Slurry

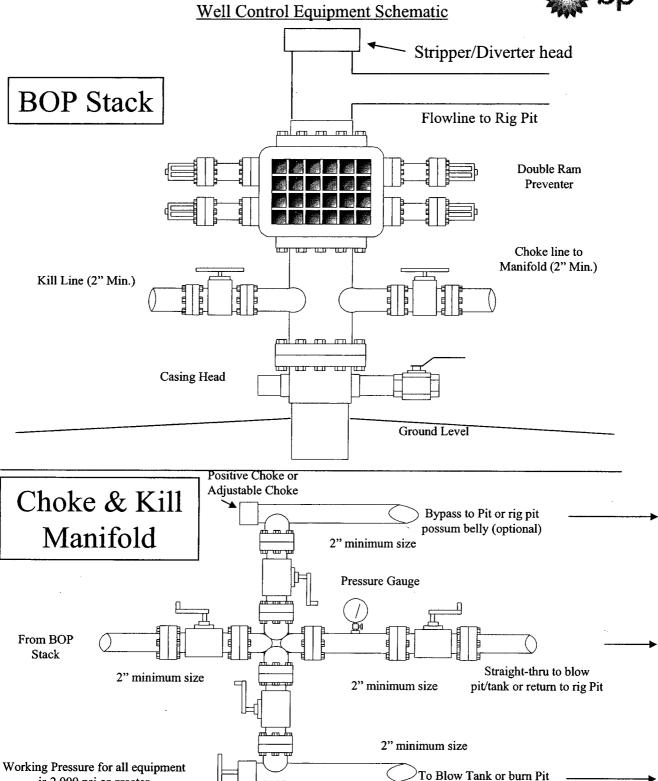
9.5

2.52

Schlumberger Private Page 2

BP American Production Company





Adjustable Choke

is 2,000 psi or greater

PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Florance #23B

700 F/SL 1780 F/EL SEC. 24, T29N, R9W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

