	3 **				
· ·	Form 3160-3 (August 1999) UNITED ST DEPARTMENT OF T BUREAU OF LAND M	THE INTERIOR		FORM API OMB No. 1 Expires Noven 5. Lease Serial No. NMSF - 078578	1004-0136
Į	APPLICATION FOR PERMIT	TO DRILL OR RE	ENTER	6. If Indian, Allottee or Tril	be Name
8	1a. Type of Work: ☑ DRILL ☐ REENTER			7. If Unit or CA Agreemen	t, Name and No.
/		ner Sing MARY CORLEY E-Mail: corleynl@bp.com		8. Lease Name and Well No. FLORANCE 45B 9. API Well No.	.1965
	3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include Ph: 281.366.449) Fx: 281.366.0700	1	10. Field and Pool, or Expl BLANCO MESAVER	oratory
	4. Location of Well (Report location clearly and in accordance At surface NENE Lot A Tract A 670FN At proposed prod. zone	NL 550FEL 36.4810	ŕ	' SME: BLM	Mer NMP
	14. Distance in miles and direction from nearest town or post 24.6 MILES FROM AZTEC, NEW MEXICO	office*	1236	12. County or Parish SAN JUAN	13. State NM
	 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 550 	16. No. of Acres in La 320.00	MAR 2004	Spacing Unit dedicated	to this well
	 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1295 	19. Proposed Depth 5553 MD	DIST. 9	20_BLM/BIA Bond No. on WY2924	file
	21. Elevations (Show whether DF, KB, RT, GL, etc. 6145 GL	22. Approximate date 01/10/2004	work with start 02 61 81 11	23. Estimated duration 5 DAYS	
		24. Atta	achments		
	 The following, completed in accordance with the requirements of the control of the	em Lands, the	Prder No. 1, shall be attached to to the desired to the desired above). 5. Operator certification 6. Such other site specific information authorized officer.	ns unless covered by an existi	,
	25. Signature (Electronic Submission)	Name (Printed/Typed)			Date 10/15/2003

25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY	Date 10/15/2003
Title AUTHORIZED REPRESENTATIVE		
Approved by (Signature)	Name (Printed/Typed)	Date
Ad David J. Merkiewicz		MAR 1 2004
Title	Office	- 1 - LOO -

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 #24240 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

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

'District I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 1000 Rio Brazos Rd., Aztec, NM 87410

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

District IV PO Box 2088, Santa Pe, NM 87504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT BLANCO MESAVERSE 12319 Well Number Florance # 45B Operator Name 000778 **BP AMERICA PRODUCTION COMPANY** 6145 **Surface Location** UL or Lot No. Township Lot Idn Feet from the East/West line County 8 W SAN JUAN 22 30 N 670 NORTH 550 EAST A "Bottom Hole Location If Different From Surface Bast/West line UL or lot no. Township Lot Ida Feet from the Feet from the North/South line 12 Dedicated Acres Joint or Infill Consolidation Code 13 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 "OPERATOR CERTIFICATION hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 550 MAR 2004 RECENTED Oil Cons DIST 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. September 12, 2003 Date of Survey Signature and Surveyor

(R) - BLM Record

5281

Certificate Number

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance

Form 46 12-00 MNP

Lease: Florance

Weil No: 45 B

Surface Location: 22-30N-8W; 670 FNL, 550 FEL

County: San Juan State: New Mexico

Field: Blanco Mesaverde

	w Mexico	7 2002				Field	i: Blanco	Mesaver	'de		
	ptember 1										
OBJECTIVE: Drill 400' b			ookout Sa	andstone, se							
	HOD OF D		DDILL	NO						LOGICAL I	
TYPE OF TOOLS		EPTH OF	DKILLI	NG		Estimated				timated KB:	
Rotary		- TD				MARKE	۲	8	UBS		TVD
	OG PROG				1 -	Alamo			4215		1944
TYPE	Đ	EPTH INVE	RAL			land			4161		1998
OPEN HOLE None						itland itland Coa			3674 3410		2485 2749
None						tured Cliff			3137		3022
					Lev		* *		2917		3242
CASED HOLE					Clif	f House	#		1648	3	4511
GR-CCL-TDT	T	DT - TD to	- TD to 7" shoe			nefee	#		1296		4863
						Point Lookout #			1006		5153
DEMARKO					—∣ ^{ма} і	ncos			787		5373
REMARKS:	/mognitudo	0 duration\			İ						
- Please report any flares	(magnitude	& duration)	•		İ						
					TO	TAL DEP	тн		606		5553
							ompletion ir	iterval		Possible Pay	
	SPECIAL T	ESTS					TTING SA			DRILLIN	
TYPE						EQUEN			FR	EQUENCY	DEPTH
None					Nor	ne	Produ	ction hole	Ged	olograph	0-TD
REMARKS:											
MUD PROGRAM:						·					
Approx. Interval	1.	Type Mud		Weight,	Vi	s, sec/qt	W/L ce	c's/30 mi	n	Other Spec	cification
				#/gal	L_						
0 - 120		Spud		8.6-9.2			_				
120 - 2699	, ,	Water/LSN		8.6-9.2	•		<6				
2699 - 5553		Gas/Air/N2	2/Mist	Volume	sufficie	nt to mail	ntain a sta	bie and c	iean	wellbore	
REMARKS:		1		L 11 - C L			-4 1		J: _ 1 _ 1		
(1) The hole will require	sweeps to	keep unic	oaded w	niie tresn	water	arilling. L	et noie co	naitions (uctat	e rrequency	<i>1</i> .
CASING PROGRAM:	(Normally, tub	ular goods o	llocation l	ottor enocific	oo oooina	cizos to be	oused Hele	cizoc will b	- aov	arned by Contr	
Casing String		ed Depth		g Size	Grade		Weight	Hole S			Pt, Cmt, Etc.
Surface/Conductor	Latimate	120	Casin	9 5/8"		ST&C	32#		.25"	1	t, onit, zto.
Intermediate 1	ţ	2699	ļ	7"		5 ST&C	20#		.75"	1,2	
Production		5553		4 1/2"	J-55	J U . WU	10.5#		.25"	3,4	
REMARKS:	1	0000	l.		1000		10.0	<u> </u>		1.01.	
(1) Circulate Cement to	Surface										
(2) Set casing 50' above		Coal									
(3) Bring cement 100' a											
(4) 100' Overlap											
CORING PROGRAM:											
None											
COMPLETION PROGR	AM:									- · · · · · · · · · · · · · · · · · · ·	
Rigless, 2-3 Stage Limit		ydraulic Fi	rac								
GENERAL REMARKS:											
Notify BLM/NMOCD 24		r to Spud.	BOP tes	sting, and	Casino	and Ce	mentina.				
Form 46 Reviewed by:		-1					eviewed by	: N/A	4		
PREPARED BY:		APPR	OVED:	3	<u> </u>	DATE:					
							nber 17, 26	003			
HGJ/MNP/JMP						Version		-			
Form 46 42 00 MAND	·									·	

BP America Production Company BOP Pressure Testing Requirements

Well Name: Florance

County: San Juan

45 B

State: New Mexico

Formation	Estimated TVD/MD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1944		
Fruitland Coal	2749		
PC	3022		
Lewis Shale	3242		
Cliff House	4511	500	0
Menefee Shale	4863		
Point Lookout	5153	600	0
Mancos	5372		

** 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 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.

Cementing Program

Well Name:	Florance 45B	70 FNU 550 F	5 1		Field:	Blanco N	/lesave	erde		
Location:	22-30N-08W, 6	70 FNL, 550 F	EL		API No.					
County:	San Juan				Well Flac					
State:	e: New Mexico				Formation:					
					KB Elev (e	•	6159			
					GL Elev. (est)	6145			
Casing Program										
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage To	ool	Cmt Cir. Out		
	(ft.)	(in.)	(in.)		(ft.)	Or TOL	(ft.)	(bbl.)		
Surface	120	12.25	9.625	ST&C	Surface	NA				
Intermediate	2699	8.75	7	LT&C	Surface	NA				
Production -	5553	6.25	4.5		2599	NA				
Casing Propertion	es:	(No Safety F	actor Included)							
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.		Capacity	Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)	(1000 lbs	s.)	(bbl/ft.)	(in.)	
Surface	9.62	5 32	2 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	3 J-55	5350)	4960	154	0.0155		3.875
								•		
Mud Program						7				
Apx. Interval	Mud Type	Mud Weight				Properties Prio	Ceme	nting:		
(ft.)				PV	<20					
				YP	<10					
0 - SCP	Water/Spud	8.6-9.2	2	Fluid Los	៖ <15					
SCP - ICP	Water/LSND	8.6-9.2								
ICP - ICP2	Gas/Air Mist	N/								
ICP2 - TD	LSND	8.6 - 9.2	Σ					***************************************		
Cementing Progra	am:		•							
			Surface		Intermed	liate		Production		
Excess %, Lead			100		100			40		
Excess %, Tail			NA		0			40		
BHST (est deg. F			72		110			159		
Time Between St	•		NA		NA			NA		
Special Instructio			1,6		1,6			2,6		
	1. Do not wash		es.							
	2. Wash pumps	and lines.								
	Reverse out									
	4 Run Blend Te	est on Cement								
	5. Record Rate,	Pressure, and	Density on 3.5"							
	5. Record Rate,	Pressure, and	Density on 3.5" pressurized mud							
	5. Record Rate,6. Confirm dens7. 1" cement to	Pressure, and itometer with particle if cem-	oressurized mud a ent is not circulat	scales ** ed.						
	5. Record Rate,6. Confirm dens7. 1" cement to	Pressure, and itometer with particle if cem-	pressurized mud	scales ** ed.	10-12 hr. aft	er landing plug.				
Notes:	5. Record Rate,6. Confirm dens7. 1" cement to	Pressure, and itometer with particle if cem-	oressurized mud a ent is not circulat	scales ** ed.	10-12 hr. aft	er landing plug.				
Notes:	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n	Pressure, and itometer with p surface if cem- ot circulated to	oressurized mud a ent is not circulat	scales ed. np. survey	****		o minn	nize drillout.		
	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n	Pressure, and itometer with p surface if cem- ot circulated to	oressurized mud ent is not circulat o surface, run ten	scales ed. np. survey	****		o minn	nize drillout.		
Notes: Surface:	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n	Pressure, and itometer with p surface if cem- ot circulated to	oressurized mud ent is not circulat o surface, run ten	scales ed. np. survey	ing producti		o minn	nize drillout.		
	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n *Do not wash up	Pressure, and itometer with p surface if cemot circulated to on top of plug	oressurized mud ent is not circulat o surface, run ten g. Wash lines bef 20 bbl.	scales ed. np. survey ore displac	ing producti		o minn		cuft	
	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n *Do not wash up Preflush Slurry 1	Pressure, and itometer with p surface if cemot circulated to on top of plug	oressurized mud ent is not circulat o surface, run ten g. Wash lines bef 20 bbl.	scales ed. np. survey ore displac FreshWa	ing producti		o minn		cuft	
	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n *Do not wash up	Pressure, and itometer with p surface if cemot circulated to on top of plug	pressurized mud ent is not circulate o surface, run ten g. Wash lines bef 20 bbl. o sx Class G Cen + 3% CaCl2 (ac	scales ed. np. survey ore displac FreshWa nent ccelerator)	ing producti	on cement job t	o minn	75		OI.
	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n *Do not wash up Preflush Slurry 1	Pressure, and itometer with p surface if cemot circulated to on top of plug	pressurized mudent is not circulated surface, run tender. g. Wash lines before 20 bbl. sx Class G Center + 3% CaCl2 (ac 0.25 #/sk Cello)	scales ed. np. survey ore displac FreshWa nent ccelerator) phane Flak	ing producti	on cement job t	o minn	75 0.3132	cuft/ft	
Surface:	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n *Do not wash up Preflush Slurry 1 TOC@Surface	Pressure, and itometer with p surface if cemot circulated to o on top of plug	pressurized mud ent is not circulate o surface, run ten g. Wash lines bef 20 bbl. o sx Class G Cen + 3% CaCl2 (ac	scales ed. np. survey ore displac FreshWa nent ccelerator) phane Flak	ing producti	on cement job t	o minn	75 0.3132		
	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n *Do not wash up Preflush Slurry 1 TOC@Surface	Pressure, and itometer with p surface if cemot circulated to o on top of plug	pressurized mudent is not circulated surface, run tender. g. Wash lines before 20 bbl. sx Class G Center + 3% CaCl2 (ac 0.25 #/sk Cello)	scales ed. np. survey ore displace FreshWa nent ccelerator) phane Flak pam Yield	ing producti	on cement job t ation additive)	o minn	75 0.3132	cuft/ft	
Surface:	5. Record Rate, 6. Confirm dens 7. 1" cement to 8. If cement is n *Do not wash up Preflush Slurry 1 TOC@Surface	Pressure, and itometer with p surface if cemot circulated to o on top of plug	g. Wash lines bef 20 bbl. 20 sx Class G Cen + 3% CaCl2 (ac 0.25 #/sk Cello) 0.1% D46 antife	scales ed. np. survey ore displac FreshWa nent ccelerator) phane Flak	ing producti ter e (lost circul	on cement job t	o minn	75 0.3132	cuft/ft	

Cementing Program

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

Intermediate:	Fresh Water	20	bbi	fresh water		
	r resir water	20	DDI	ilesii watei		
	Lead		250	sx Class "G" Cem	ent	646 cuft
	Slurry 1			+ 3% D79 extende		
	TOC@Surface			+1/4 #/sk. Celloph	nane Flake	
	Ü			+ 0.1% D46 antifo		
			60	sx 50/50 Class "G	"/Poz	
	Tail			+ 2% gel (extende	er)	75 cuft
	Slurry 2			0.1% D46 antifoar	•	
	-	O ft fill		+1/4 #/sk. Celloph		0.1503 cuft/ft OH
				+ 2% S1 Calcium		0.1746 cuft/ft csg anr
				_,,		80 % excess
Slurry Properties:		Density		Yield	Water	
• ,		(lb/gal)		(ft3/sk)	(gal/sk)	
Slurry 1		11.7		2.61	17.77	
Slurry 2		13.5		1.27	5.72	
, <u>-</u>						
Casing Equipmer	nt:	7", 8R, ST&C				
		1 Float Shoe				
		1 Float Collar				
		1 Stop Ring				
			e every other i	oint to base of Ojo)	
		2 Turbolizers acr		•		
				nt from Ojo to base	e of surface casing	
		1 Top Rubber Pl		•	·	
		1 Thread Lock C				
Production:				0111100		
	Fresh Water	10	bbl	CW100		
					•	
	Slurry		170	LiteCrete D961 / D		
				+ 0.03 gps D47 ar	ntifoam	426 cuft
				+ 0.5% D112 fluid	loss	
	TOC@Liner To	p		+ 0.11% D65 TIC		
						0.1026 cuft/ft OH
Slurry Properties:		Density		Yield	Water	40 % excess
		(lb/gal)		(ft3/sk)	(gal/sk)	0.1169 cuft/ft csg ann
Slurry		9.5		2.52	6.38	