Form 3160-3 (August 1999)

LINITED STATES

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

DEPARTMENT OF T			·	
BUREAU OF LAND M		201 Min +0 m m	5. Lease Serial No. NM - 03549	
APPLICATION FOR PERMIT 1	O DRILL OR RE	enter 070 Ferrigalea	6. If Indian, Allottee or Tribe N	lame
1a. Type of Work: DRILL REENTER			7. If Unit or CA Agreement, N	ame and No.
1b. Type of Well: ☐ Oil Well Gas Well ☐ Oth	er Singl	le Zone 🔀 Multiple Zone	8. Lease Name and Well No. FLORANCE C LS 9M	
	CHERRY HLAVA E-Mail: hlavacl@bp.com		9. API Well No. 3004532	218
3a. Address P.O. BOX 3092 HOUSTON, TX 77253-3092	3b. Phone No. (includ Ph: 281.366.4081		10. Field and Pool, or Explorat BASIN DK & BLANCO	
4. Location of Well (Report location clearly and in accorda	nce with any State requir	rements.*)	11. Sec., T., R., M., or Blk. and	J Survey or Area
At surface SWNW Lot 2 1370FNL 124 At proposed prod. zone SWNW Lot 2 1850FNL 178		Lat, 107.43600 W Lon	Sec 30 T28N R8W Me	r NMP
14. Distance in miles and direction from nearest town or post of 20 MILES S/E FROM BLOOMFIELD	office*		12. County or Parish SAN JUAN	13. State 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 Le	ease	17. Spacing Unit dedicated to 305.92 W/2	this well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 100' 	19. Proposed Depth 6737 MD		20. BLM/BIA Bond No. on fil WY2924	e
21. Elevations (Show whether DF, KB, RT, GL, etc. 5797 GL	22. Approximate date 04/25/2004	work will start	23. Estimated duration 7 DAYS	
	24. Atta	achments		
The following, completed in accordance with the requirements of	f Onshore Oil and Gas O	Order No. 1, shall be attached to t	his form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst 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 be	•
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAV)		Date 03/03/2004
Title REGULATORY ANALYST	ł			
Approvedby (Desait) J. Mariciewicz	Name (Printed/Typed)			Date MAR 2 3 2004
Title	Office			THEN L J LINE
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.	I olds legal or equitable titl	le to those rights in the subject le	ase which would entitle the appli	cant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representations.	make it a crime for any p tions as to any matter wit	person knowingly and willfully to thin its jurisdiction.	make to any department or agen	cy of the United

Additional Operator Remarks (see next page)

Electronic Submission #28454 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, will be sent to the Farmington

*** DRAFT ** DRAFT ** DRAFT ** DRAFT ** DRAFT

DELIGHED HEL RAHIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



MAR 2004 PERCEINED OR COME. ON District 2 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

Form C-102 Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

4	000 52	7	F	loranc	e C LS						# 9M
	OGRID N	ia.	10	D AM	PDIC'A	Operator :	Name ION COMPA	A INTO			'Elevation 5797
	100 118			A	ERICA	¹⁰ Surface L		1111			3777
-	I. or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Foot	from the	Bast/Wost line	County
	F	30	28 N	8 W		1370	NORTH	1	245	WEST	SAN JUAN
L				" Bott	om Hole	Location If	Different From	n Sur	face	<u> </u>	
7	UL or lot no.	Section	Township	Range	Lot Jdn	Feet from the	North/South line		from the	East/West line	County
E	(Lot 2)	30	28 N	8 W		1850	NORTH	17	80	WEST	SAN JUAN
¥	Dedicated Acres	¹³ Join	t or Infill	Consolidatio	na Code 15	Order No.				 	
	305.92										
]	NO ALLOV	VABLE '									ONSOLIDATED
4					***		EEN APPROVEI	DBYI			
	16	(x)	30-045	ce C LS 6 -25231	A	204			i i		RTIFICATION
			820' FI	VL & 160	0' F.VL						nation contained berein is I my knowledge and belief.
	Lot 1		S WAY							•	
				٤	$\langle \rangle$				_	1 1	
Ì	,				- 5					/ /i/	'
i		/	12)						1110	wolle	<i>x</i>
•	— 124	5'(•			\$				6ignature	San Coll	21-4
	ł	Zi.	nuth - 218%	N3' 841'	<i>\{</i> }				Printed		
	Lot 2		<u>*</u>	\mathcal{M}	\$		<u> </u>			eguan.	My Malys
	ł	Bot	om Hole I		.				12.10	2103	
	Š		1780'1	-WL	T.		105000		Date		
	<u> </u>	<u></u>			3h_		A	8	" SUR	VEYOR CE	RTIFICATION
	F.		Florance 30-045-0		Ju		25	5280 8280	I bereby was plotte	certify that the well is of from field notes of i	ocation shown on this plat octual surveys made by me
	ł	* ÷	1750' FS		FWZ,	F	AR 2004		ar under		that the same is true and
	Lot 3	, LC .	MV		7.			2	Correct	November	ii ii
	}		Florance		1		Disil. 8	9	Date of	Survey	
	}	W.	30-045-0 - 1450' FS DK	SL & 1170	FYL	6.00 C	(0)	7	Signatur	J. D. VA	maal Surveyor
	<u> </u>	A	DK				21/0168			S. S. S.	
	3				F				/	13/1 A T	(0) & \
	}				} :				9	7016	
	Lot 4				T.				\ \		
	}				1				11	3	138
			ļ		\mathcal{K}				701		
4	201	700		320''R1		264	0(R)		Certifica	te Numbel	

(R) - CLO Record

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance C LS

Lease: Florance C LS

County: San Juan State: New Mexico

Well No: 9 M
Surface Location: 30-28N-8W, 1370 FNL, 1245 FWL
30-28N-8W, 1850 FNL, 1780 FWL

Field: Blanco Mesaverde/Basin Dakota

Date: March 1, 2004

OBJECTIVE: Drill 250' h				 -			45 5:	1514				
······································			s; set 41/2" production									
	THOD OF DRII				ROXIMA							
TYPE OF TOOLS			RILLING		stimated		5797			nated I	⟨B: :	811
Rotary	0 - T			 4	IARKER	i			TVD			MD
<u> </u>	LOG PROGRA	<u> </u>			Alamo			t .	1193'			1228'
•				Kirkla		l			1265'			1305'
				Fruit		ľ			1651'			1715'
TYPE	DEP'	<u> TH INTER</u>	<u>RVAL</u>		red Cliffs		*		2079'			2170'
OPEN HOLE					s Shale				2227			2328'
None					House efee Shal	<u>, </u>	# #		3583' 3757'	1		3697' 3871'
					t Lookout		#		4331'			4445'
CASED HOLE				Man			#		4695			4809'
GR-CCL-TDT	TDT -	- TD to 7	" shoe		nhorn				6272'			6386'
CBL	Ident	ify 4 ½" ca	ement top	Bent	onite Mar	ker			6340'	Ì		6454'
				Two	Wells				6383'			6497'
REMARKS:				Pagu			#		6460'			6574'
- Please report any flares	(magnitude & d	luration).			ero Upper		#		6515	ļ		6628'
				Cube	ero Lower	٠	#		6541'			6655'
				TOT	AL DEPT				6623'			6737'
							ion inte			ماطنوووا		0/3/
	SPECIAL TES	TC			obable co					ossible	LING :	
TYPE	SPECIAL 1ES	13			QUENC		DEPTI		CDE			DEPTH
None				10'	QUENC		2327' -T	-		QUEN ograph	Cf	0-TD
REMARKS:				10					Geui	ograpii		0-1D
MUD PROGRAM: Approx. Interval 0 - 120 - 2547	(1) Sp	ter/LSN		^{ga} Vis	, sec/qt	W		s/30 mi	n C	Other S	Specif	cation
	10-											
<u> 2547 - 6737</u>	Ga	s/Air/N2	/Mist Volume :	sufficien	t to mair	ntain a	a stab	le and c	lean v	vellbor	e	
2547 - 6737 REMARKS:	Ga	s/Air/N2	/Mist Volume :	sufficien	t to mair	ntain a	a stab	le and c	lean v	vellbor	<u> </u>	
REMARKS: (1) The hole will require	e sweeps to ke	ep unlo	aded while fresh	water d	rilling. L	et ho	le con	ditions o	lictate	e freque	ency.	
REMARKS: (1) The hole will require CASING PROGRAM:	e sweeps to ke	eep unloa	aded while fresh	water d	rilling. L	et ho	le con	ditions o	lictate	e freque	ency.)
REMARKS: (1) The hole will require CASING PROGRAM: Casing String	e sweeps to ke (Normally, tubular Estimated	eep unloa r goods all Depth	aded while fresh ocation letter specific Casing Size	water des casing	rilling. L	et ho	le con	ditions dizes will b	dictate e gover ize	freque	ency. Contract) Cmt, Etc.
REMARKS: (1) The hole will require CASING PROGRAM:	e sweeps to ke (Normally, tubular Estimated	eep unloa	aded while fresh	water des casing Grade	rilling. L sizes to be ST&C	et ho	le con	ditions dizes will b	dictate e gove ize	frequence freque	ency. Contract	
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BP America Production Company BOP Pressure Testing Requirements

Well Name:

County:

Florance C LS

San Juan

9 M

New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1193		
Fruitland Coal	1861		
PC	2089		1
Lewis Shale	2227		1
Cliff House	3583	500	0
Menefee Shale	3757		
Point Lookout	4331	600) 0
Mancos	4695		
Dakota	6383	2600	1449

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

Requested BOP Pressure Test Exception: 1500 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.

1500

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: Location: County:	Florance C LS 9M 30-28N-08W, 1370 FNL, 1245 FWL San Juan		-WL		Field: API No. Well Flac		Blanco Mesaverde / Basin Dakota			
State:	New Mexico				Formation: KB Elev (e GL Elev. (e	est)	Blanco Mesave 5811 5797	rde/Basin Dako	ta	
Casing Program:										
Casing String	Est. Depth (ft.) 200	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)		Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)		
Surface	420	13.5	9.625	ST&C	Surface		NA			
ntermediate	2547	8.75	7_	ST&C	Surface		NA			
Production -	6737	6.25	4.5	ST&C	2447		NA			
Casing Properties Casing String	s: Size	(No Safety Fa Weight	actor Included) Grade	Burst	Collapse		Joint St.	Capacity	Drift	
Jasing String	(in.)	(lb/ft)	Grade	(psi.)	(psi.)		(1000 lbs.)		(in.)	
Surface	9.625		H-40	2270	(po i.)	1400			···· <i>)</i> 8.84	
ntermediate	7	20	K-55	3740		2270	254284	0.0405	6.4	
Production -	4.5	11.6	J-55	5350		4960	154	0.0155	3.8	
Mud Program										
Apx. Interval	Mud Type	Mud Weight		Recomm	ended Mud	Prope	rties Prio Cemer	iting:		
(ft.)		J		PV	<20					
				YP	<10					
0 - SCP	Water/Spud	8.6-9.2		Fluid Los	:<15					
SCP - ICP	Water/LSND	8.6-9.2								
ICP - ICP2	Gas/Air Mist	NA 0.0.0.0	-							
CP2 - TD Cementing Progra	TSND	8.6 - 9.2							·	
Jemenung Progra	IETT.		Surface		Interme	diate		Production		
Excess %, Lead			100		75			40		
Excess %, Tail			NA		0			40		
BHST (est deg. F)	1		75		120)		183		
Special Instruction	ns		1,6,7		1,6,	8		2,4,6		
	1. Do not wash p	•	S.							
	2. Wash pumps	and lines.								
	3. Reverse out									
	4. Run Blend Tes		Donaite on 2 E	المثاماء						
	 Record Rate, Confirm densit 		-							
	7. 1" cement to s	•								
	8. If cement is no				0-12 hr. aft	er land	ing plug.			
Notes:										
	*Do not wash up	on top of plug	. Wash lines be	fore displaci	ng productio	on cem	ent job to minmi	ze drillout.		
Surface:	Preflush		20 bbl.	FreshWa	ter					
								12	1	
	Slurry 1	100	sx Class C Ce	ement				117	cuft	
	TOC@Surface		+ 2% CaCl2 (a	accelerator)						
			0.25 #/sk Cell	ophane Flak	e (lost circu	lation a	additive)	0.4887	cuft/ft OH	
			0.1% D46 anti	ifoam						
				Yield			Water			
Slurry Properties:		Density					(gal/sk)			
Slurry Properties:		(lb/gal)		(ft3/sk)			(account)			
Slurry Properties:	Slurry 1	•	Ž.	(ft3/sk) 1.27	.		5.8	ļ.		
•		(lb/gal) 15.2			. .			ı		
•		(lb/gal) 15.2 9-5/8", 8R, S	T&C		> .			ı	5	
•		(lb/gal) 15:2 9-5/8", 8R, S 1 Guide Sho	T&C e		.				tu.	
•		(lb/gal) 15:2 9-5/8", 8R, S 1 Guide Sho 1 Top Woode	T&C e en Plug		.				<u>.</u>	
Slurry Properties: Casing Equipmen		(lb/gal) 15:2 9-5/8", 8R, S 1 Guide Sho 1 Top Woodd 1 Autofill inse	T&C e en Plug ert float valve	1.27	•				÷	
•		(lb/gal) 15:2 9-5/8", 8R, S 1 Guide Sho 1 Top Woodd 1 Autofill inse	T&C e en Plug	1.27				1	t	

Cementing Program

ntermediate:					
	Fresh Water	20 bbl	fresh water		710
					518 528-cuft
	Lead		210 sx Class "G" Cem		528 cuft
	Slurry 1		+ 3% D79 extende	•	
	TOC@Surface		+ 2% S1 Calcium	Chloride	
			+1/4 #/sk. Celloph	nane Flake	
			+ 0.1% D46 antifo	oam'	
	Tail		60 sx 50/50 Class "G		75 cuft
	Slurry 2		+ 2% gel (extende	er)	
	50	Oft fill	0.1% D46 antifoa		0.1503 cuft/ft OH
			+1/4 #/sk. Celloph		0.1746 cuft/ft csg and
			+ 2% CaCl2 (acc	elerator)	
Slurry Properties:		Density	Yield	Water	
		(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry 1		11.4	2.61	- 17.77	
Slurry 2		13.5	1.27	5.72	
		,_,_			
Casing Equipment	t:	7", 8R, ST&C			
		1 Float Shoe (autofill wi	th minimal LCM in mud)		
		1 Float Collar (autofill w	ith minimal LCM in mud)		
		1 Stop Ring			
		14 Centralizers (one in	middle of first joint, then e	every third collar)	1
		2 Fluidmaster vane cen	talizers @ base of Ojo		į
		1 Top Rubber Plug	-		
		1 Thread Lock Compou	nd		
Production:				· · · · · · · · · · · · · · · · · · ·	
	Fresh Water	10 bbl	CW100		
	Lead		160 LiteCrete D961 /	D124 / D154	400 cuft
					400 Call
	Slurry 1	70 -6	+ 0.03 gps D47 a		
	TOC, 100' abov	/e /" snoe	+ 0.5% D112 fluid		
			+ 0.11% D65 TIC	;	
	Tail		140 sx 50/50 Class "(G"/Poz	201 cuft
					+ 5 #/sk D24 gilsonite
	Slurry 2		+ 5% D20 gel (ex	(tender)	1 3 m 3K D24 gli30lille
	-	D2 ft fill	+ 5% D20 gel (ex + 0.1% D46 antif	•	
	-	02 ft fill	+ 0.1% D46 antif	oam	+ 0.15% D65 TIC
	-	02 ft fill	+ 0.1% D46 antifo + 1/4 #/sk. Cellop	oam ohane Flake	
	-	02 ft fill	+ 0.1% D46 antif	oam ohane Flake	+ 0.15% D65 TIC + 0.1% D800 retarder
Slurry Properties	140		+ 0.1% D46 antiñ + 1/4 #/sk. Cellor + 0.25% D167 FI	oam ohane Flake uid Loss	+ 0.15% D65 TIC
Slurry Properties:	140	Density	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI	oam ohane Flake uid Loss Water	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH
	140	Density (lb/gal)	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk)	oam ohane Flake uid Loss Water (gal/sk)	+ 0.15% D65 TIC + 0.1% D800 retarder
Slurry 1	140	Density (lb/gal) 9.5	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk) 2.52	oam ohane Flake uid Loss Water (gal/sk) 6.38	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg an
Slurry 1	140	Density (lb/gal)	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk)	oam ohane Flake uid Loss Water (gal/sk)	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg and
	14(Density (lb/gal) 9.5	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk) 2.52	oam ohane Flake uid Loss Water (gal/sk) 6.38	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg an
Slurry 1 Slurry 2	14(Density (lb/gal) 9.5 13 4-1/2", 8R, ST&C	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk) 2.52 1.44	oam ohane Flake uid Loss Water (gal/sk) 6.38	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg and
Slurry 1 Slurry 2	14(Density (lb/gal) 9.5 13 4-1/2", 8R, ST&C 1 Float Shoe (autofill w	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk) 2.52 1.44	oam ohane Flake uid Loss Water (gal/sk) 6.38	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg and
Slurry 1 Slurry 2	14(Density (lb/gal) 9.5 13 4-1/2", 8R, ST&C 1 Float Shoe (autofill with Float Collar (aut	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk) 2.52 1.44	oam ohane Flake uid Loss Water (gal/sk) 6.38	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg and
Slurry 1 Slurry 2	14(Density (lb/gal) 9.5 13 4-1/2", 8R, ST&C 1 Float Shoe (autofill with 1 Float Collar (autofill with 1 Stop Ring	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk) 2.52 1.44 th minimal LCM in mud) with minimal LCM in mud)	oam ohane Flake uid Loss Water (gal/sk) 6.38 6.5	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg and
Slurry 1 Slurry 2	14(Density (lb/gal) 9.5 13 4-1/2", 8R, ST&C 1 Float Shoe (autofill with 1 Float Collar (autofill with 1 Stop Ring	+ 0.1% D46 antifi + 1/4 #/sk. Cellop + 0.25% D167 FI Yield (ft3/sk) 2.52 1.44	oam ohane Flake uid Loss Water (gal/sk) 6.38 6.5	+ 0.15% D65 TIC + 0.1% D800 retarder 0.1026 cuft/ft OH 0.1169 cuft/ft csg and

PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Florance C LS # 9M 1370' F/NL 1245' F/WL SEC. 30, T28N, R8W, N.M.P.M. SAN IUAN COUNTY, NEW MEXICO



