Form 3160-5 (1999)						
OCT 2005 DEP BUR DIST. 3 DIST. 3 DIST	UNITED STATES ARTMENT OF THE INT	FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000				
OCI LIVED DEP RECEIVED BUR OIL CONS. DN. SUNDRY N OIL CONS. SUNDRY N DIST. S SUNDRY N	EAU OF LAND MANGE		5. Lease Serial No.			
OH DIST. 3 So not use this	form for proposals to dril	SF - 80000 6. If Indian, Allettee or tribe Name 1 39				
bandoned well.	whandoned well. Use Form 3160-3 (APD) for such proposals.					
		······································	7. If Unit or CA/Agreement, Name and/or No.			
SUBMIT IN TRIPLIC	AIE - Other inst	ructions on reverse s	070 FARMINGTON NM			
1. Type of Well	r¬,	<u></u>	8. Well Name and No.			
Gil Well	Gas Well 🖬 Othe	FLORANCE 27S				
2. Name of Operator			9. API Well No.			
<b>BP AMERICA PRODUCT</b>			30-045-22876 33130			
3a. Address PO BOX 3092 HOUSTON 77253	<b>3b</b> . Phone <b>281-366-</b>	10. Field and Pool, or Exploratory Area BASIN FRUITLAND COAL				
4. Location of Well (Footage, Se 1670' FSL & 990' FWL; S			11. County or Parish, State SAN JUAN, NM			
12. CHE0	CK APPROPRIATE BOX	(ES) TO INDICATE NATUR	E OR NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION			TYPE OF ACTION			
-	Acidize	Deepen	Production (Start/Resume)			
Notice of Intent	Alter Casing	Fracture Treat	Reclamation Well Integrity			
· 🗊 Subsequent Report	Casing Repair	New Construction	Recomplete Other <u>Chng Casing</u> <u>Size</u>			
	Change Plans	Plug and Abandon	Water Disposal			
Final Abandonment Notice	- Change I hans					

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

BP submitted APD on 5/26/05 and BLM approved 8/25/05.

BP respectfully requests permission to change surface casing size from 8 5/8" to 7" and the Production casing size from 5  $\frac{1}{2}$ " to 4  $\frac{1}{2}$ ". Please see the revised drilling plan and cement program attached.

<ol> <li>I hereby certify that the foregoing is true an dcorrect Name (Printed/typed)</li> </ol>	
Cherry Hlava	Title Regulatory Analyst
Signature Chiroun Nlava	Date 09/28/2005
THIS SPACE FOR FEDE	RAL OR STATE OFFICE USE
Approve by OrienaBrunley	Title Pet. Eng Date 10/7/05
Conditions of approval, if any, are attached. Approval of this notice does not warrant or Certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office FFO
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any	v person knowingly and willfully to make to any department or agency of the United States

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 witin its jurisdiction.

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				NG AND CO								
			DRILLI		5/2005	PRUG						
Lease: Florance Well Name & No. Florance												
	San Juan, N	lew Mexico		Location: SW 1		I, R09W :	1670' F					
Minerals:				Surface: Lat: 3						**		
Rig :	Aztec 507		BH	Location: SW 1			1670' 1	FSL, 990' FV	VL			
OBJECTIVE:	Drill to TD, s	et 4.5" casing, p	perf and frac the	e Fruitland Coal in	terval.							
	tions in wells			cing Florance 27 M to 4 degrees. Dev								
be should write t		THOD OF DRI						DEPTHS OF	GEOLOG		RKER	
TYPE	OF TOOLS		DEPTH OF D	DRILLING	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER Actual GL: 5627 Estimated KB: 5,638.0'							
	Rotary		0 - T		Marker	<u></u>	Ē	SUBSEA		TVD		ROX. MD
		LOG PROGRA			Ojo Alamo		┝━━╋	4,680'				958'
Туре			Depth Interva		Kirtland			4,525'				,113'
GR/CCL an			D to Min Charc		Fruitland Fm			3,892'				746'
					Fruitland Coa	al	*#				1,	.841'
					Pictured Cliff	s	•	3,566'	_		2,	,072'
Cased H	lole											
REMARKS:												
Primary Log pre	sentation is I	RST Coal interp	retation (5"=10	0') with coal								
shaded. Carbon	. –											
• •		stomer LAS file f	to Dennis Hilke	wich in Houston -								
hilkewdn@bp.co	om.											
					TOTAL D	EPTH:		3,466'				,172'
					# Probable of	completion	interv	al		* Possibl	e Pay	
SPECIAL TEST	rs					CUTTING	SAM	PLES			IG TIME	
TYPE					FREQUENCY			DEPTH FREQUENC				EPTH
None			<u></u>		nor	le	no	ne to TD	Geolo	graph	0	- TD
REMARKS:	hinne and the star											<u></u>
MUD PROGRA			r			r						
Interval	TypeMud	#/gal	V	/is, sec/qt	/30 min			Othe	er Specifica	ation		
200'	Spud	8.8 - 9.0		ent to clean hole.						-1.111	011	
2,172	Water/LSN	ID 8.4 - 9.0	0		<9		Sweep	hole while w	niist water	arilling, I		e
						L						
CASING PROG	RAM:											
CasingSt		Depth	Size	Casing Size	Grade, Th	ead We	eight	Landing	j Point		Cement	<u>t</u>
Surface/Conduc	ctor	200'	8 3/4*	7*	J-55, ST	C 2	20#	·····		c	mt to surfa	асе
					· · · · · · · · · · · · · · · · · · ·	<b> </b>					···	
Production		2,172'	6 1/4"	4-1/2"	J-55	10	D.5#					
								L		C	mt to surfa	асе
CORING PROG	KAM:				•							
None	220022414										<del>.</del>	
COMPLETION Rigless, Limited			<u> </u>								<u></u>	
GENERAL REM												
		e prior to Soud	BOP tosting	Ind Casing and Ce	monting							
# 11 minut 1			Don testing, a		anenung.							
BOP Pressure			<u> </u>									
Format		Depth	A	nticipated bottor		ure	_	Max ar	ticipated s		pressure*	
Fruitla		1,841'		100 -		-	∔—			00		
Pictured	Cliffs	2,072		200	)		<b> </b>		2	00		
		-				<b>.</b>						
						1					1	
		essure Test Exc	ception = 1500	psi								
Form 46 Review	wed by:		ging program i	eviewed by:				<u> </u>		l		
Form 46 Review PREPARED BY	wed by: /:			eviewed by:		DATE:		APP	ROVED:		DAT	re:
Form 46 Review	wed by: /:  TT/HGJ		ging program i	eviewed by: ED:		DATE: 5-Sep-05		APP For Produc			DAT	ſE:

## **Cementing Program**

/ell Name:	Florance 27S							
ocation:	Sec 26 - 29N - 0	9W, 1670' FSL	_, 990' FWL		API No.			
County:	San Juan				Well Flac			
State:	New Mexico				Formation:	Fruitland C	oal	
	·	-			KB Elev (est)	5	638	
					GL Elev. (est)	5	627	
						L		
Casing Program:			<u></u>					
	Est. Depth	Hole Size	Casing Size	Thread	тос			
	(ft.)	(in.)	(in.)		(ft.)			
Surface	200	8.75	7	8rd	Surface			
Production -	2172	6.250	4 1/2	8rd	Surface			
Casing Properties			actor Included	)				
Casing String	Size	Weight	Grade	,				
	(in.)	(lb/ft)	0.000					
Surface	7	20		J55				
Production -	, 4 1/2			J55				
	7 17	- 10.5						
Mud Program								
	Mud Type	Mud Weight		Recomm	ended Mud Prope	rties Prio Ce	mentina <sup>.</sup>	
(ft.)				PV	<20			
				YP	<10			
0 - SCP	Water/Spud	8.6-9.2	,	Fluid Los	-			
SCP - TD	Water/LSND	8.6-9.2		TION LOS	5 -0			
30F - TD	Water/LOND	0.0-9.2	-					
Cementing Progra						<u></u>		<del>ىرى ئەتكى ئەك<u>ى</u> .</del>
			Surface		Production			
Excess %, Lead			100		40			
Excess %, Tail			NA		40			
BHST (est deg. F)			78		108			
Special Instruction			10		100			
	20		16		246			
		numns and line	1,6		2,4,6			
opeoial metruction	1. Do not wash	• •			2,4,6			
	1. Do not wash 2. Wash pumps	• •			2,4,6			
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> </ol>	and lines.	es.		2,4,6			
opoular inistruction	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> </ol>	and lines.	es.		2,4,6			
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> </ol>	and lines. est on Cement Pressure, and	es. I Density on 3.		2,4,6			
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> </ol>	and lines. est on Cement Pressure, and	es. I Density on 3.		2,4,6			
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> </ol>	and lines. est on Cement Pressure, and	es. I Density on 3.		2,4,6			
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> <li>Confirm dens</li> </ol>	and lines. est on Cement Pressure, and	es. I Density on 3. pressurized mu	ud scales	·			
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> </ol>	and lines. est on Cement Pressure, and	es. I Density on 3.		·			
Special Instruction	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> <li>Confirm dens</li> </ol> Preflush	and lines. est on Cement Pressure, and itometer with p	es. I Density on 3. pressurized mu 20 bbl.	ud scales FreshWa	·		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	60 cu <del>f</del> t
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> <li>Confirm dens</li> </ol> Preflush Slurry 1	and lines. est on Cement Pressure, and itometer with p	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C	ud scales FreshWa Cement	·			60 cuft
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> <li>Confirm dens</li> </ol> Preflush	and lines. est on Cement Pressure, and itometer with p	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C	ud scales FreshWa	·			
	<ol> <li>Do not wash</li> <li>Wash pumps</li> <li>Reverse out</li> <li>Run Blend Te</li> <li>Record Rate,</li> <li>Confirm dens</li> </ol> Preflush Slurry 1	and lines. est on Cement Pressure, and itometer with p	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C	ud scales FreshWa Cement	·			60 cuft 0.1503 cuft/ft OH
Surface:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C	ud scales FreshWa Cement (accelerator)	·			
Surface:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47 Density	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C	ud scales FreshWa Cement (accelerator) Yield	·	Water		
Surface:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter	Water (gal/sk)		
Surface:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47 Density	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2	ud scales FreshWa Cement (accelerator) Yield	ter		5.8	
Surface:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47 Density (Ib/gal)	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter		5.8	
Surface: Slurry Properties:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47 Density (Ib/gal)	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter		5.8	
Surface: Slurry Properties:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and itometer with p 47 Density (Ib/gal) 15.2	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2 2 C	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter		5.8	
Surface: Slurry Properties:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and itometer with p 47 Density (Ib/gal) 15.2 7*, 8R, ST&0 1 Guide Sho	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2 2 2 C be	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter		5.8	
Surface: Slurry Properties:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and itometer with p 47 Density (Ib/gal) 15.2 7", 8R, ST& 1 Guide Sho 1 Top Wood	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2 2 2 C be len Plug	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter		5.8	
Surface: Slurry Properties:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and itometer with p 47 Density (Ib/gal) 15.2 7*, 8R, ST& 1 Guide Sho 1 Top Wood 1 Autofill ins	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter		5.8	
	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47 Density (Ib/gal) 15.2 7", 8R, ST&d 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ud scales FreshWa Cement (accelerator) Yield (ft3/sk)	ter		5.8	
Surface: Slurry Properties:	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend Te 5. Record Rate, 6. Confirm dens Preflush Slurry 1 TOC@Surface	and lines. est on Cement Pressure, and sitometer with p 47 Density (Ib/gal) 15.2 7", 8R, ST&d 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring	es. I Density on 3. pressurized mu 20 bbl. 7 sx Class C C + 2% CaCl2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ud scales FreshWa Cement (accelerator) Yield (ft3/sk) 1.2	ter		5.8	

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## **Cementing Program**

Production:							
rioduction.	Fresh Water	10 bb	CW100				
	Lead		90 sx Class "G" Cen	nent	235 cuft		
	Slurry 1		+ 3% D79 extend	ler			
	TOC@Surface		+ 2% S1 Calcium	n Chloride			
			+1/4 #/sk. Celiop	hane Flake			
			+ 0.1% D46 antif	ioam'			
	Tail		57 sx 50/50 Class "0	G"/Poz	72 cuft		
	Slurry 2			+ 2% gel (extender)			
	50	o ft fill	0.1% D46 antifoa	0.1026 cuft/ft OH			
			+1/4 #/sk. Cellop	0.1169 cuft/ft csg ann			
			+ 2% CaCl2 (acc	celerator)			
Slurry Properties	5:	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:		4 1/2", 8R, ST&C					
		1 Float Shoe (autofi	ill with minimal LCM in mud)				
		1 Float Collar (auto	fill with minimal LCM in mud)	)			
		Centralizers as nee	ded				
		1 Top Rubber Plug					
		1 Thread Lock Corr	pound				

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