# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

BUREAU OF LAND N	5. Lease Serial No. NMSF - 080101		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	
Ia. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: ☐ Oil Well 🙀 Gas Well ☐ Oth	ner Single Zone	8. Lease Name and Well No. FLORANCE GAS COM L 1S	
	MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No. 30045 32497	
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 Exploratory BASIN FRUITLAND COAL	
4. Location of Well (Report location clearly and in accorded	ince with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area	
At surface SWSE Lot O 740FSL 2085 At proposed prod. zone	FEL 36.38500 N Lat, 107.42100 W Lon	Sec 20 T28N R8W Mer NMP SME: BLM	
14. Distance in miles and direction from nearest town or post 20 MILES FROM BLOOMFIELD, NEW MEXICO		12. County or Parish 13. State SAN JUAN NM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 740	16. No. of Acres in Lease 320.00	17. Spacing Unit dedicated to this well 320.00 \$\int_{\text{2}}\tag{2}	
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>1800</li> </ol>	19. Proposed Depth 2275 MD	20. BLM/BIA Bond No. on file WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 5760 GL.	22. Approximate date work will start 09/10/2004	23. Estimated duration 4 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:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	Item 20 above).  5. Operator certification	formation and/or plans as may be required by the	
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY AUG 2	1 08/02/2004	
Title AUTHORIZED REPRESENTATIVE	Carl Ston		
Approved by (Signature)  Approved by (Signature)	Name (Printed/Typed)		
Title AFM	Office	\$ 1. J	
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject-le	ease which would entitle the applicant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 States any false, fictitious or fraudulent statements or representat	make it a crime for any person knowingly and willfully to	o make to any department or agency of the United	

Additional Operator Remarks (see next page)

Electronic Submission #33897 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

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

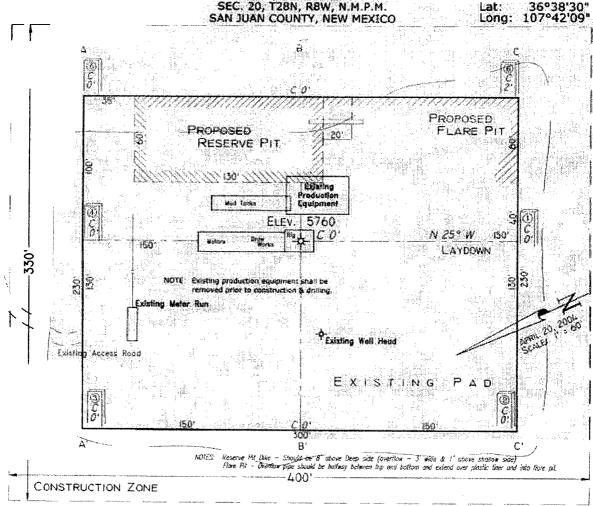
\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

					•				
District'I	•	•			State of New Me	exico			Form C-102
1625 N. French Dr.	., Hobbs, NM	88240	Energy, Minerals & Natural Resources Department						Revised August 15, 2000
<u>District II</u>									
811 South First, Ar	rtesia, NM 88	OIL CONSERVATION DIVISION Submit to Appropriate District			OIL CONSERVATION DIVISION				
District III			2040 South Pacheco						State Lease - 4 Copies
1000 Rio Brazos Ro	d., Aztec, NM	87410	Santa Fe, NM 87505						Fee Lease - 3 Copies
District IV									
2040 South Pacheco	o, Santa Fe, N	M 87505							AMENDED REPORT
		W	ELL LOCA	ATION A	AND ACREA	GE DEDICA	ATION PLA	T	
ZO CO (PAPL	Number (	21	<sup>2</sup> Pool Code			_	<sup>3</sup> Pool Name		
120,042.	30	<del>/ /  </del>	71629				sin Fruitland	d Coal	
Property 01832				-	Froperty Name of Property Name of Proper			į	<sup>6</sup> Well Number 1S
7 OGRID				<u>.</u>	8 Operator Nan				, Elevation
00077	78	<u></u>		BP Ame	rica Producti	on Company			5760'
					10 Surface Loc	cation			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	,
Unit O	20	28N	08W		740	South	2085	East	San Juan
			11 Botto	m Hole	Location If D	ifferent Fron	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
12 Dedicated Ac	res 13 Je	oint or Infill	L <sup>14</sup> Consolidation (	Code			<sup>15</sup> Order No.		1
320									
NO ALLOWA	ABLÉ WII	LL BE ASSI						EN CONSO	LIDATED OR A NON-
			STANDAR	D UNIT H	AS BEEN APPR	OVED BY TH	E DIVISION		

<sup>17</sup> OPERATOR CERTIFICATION hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Mary Corley Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 07/27/2004 Date <sup>18</sup>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. 4/20/2004 **≠**© Date of Survey Fruitland Coal Florance Gas Com L - 2085' Signature and Seal of Professional Surveyor: API 30-045-29336 Gary D Vann 7016 Certificate Number

## PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Florance Gas Com L #1S 740' F/SL 2085' F/EL SEC. 20, T28N, R8W, N.M.P.M.



Area of Construction Zone - 330'x400' or 3.03 acres, more or issue SCALE: I'=60'-HORIZ.
I'=40'-VERT. 5770 5760 NOTE: Contractor should NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction. 5750 5740 8-B, 5770 Cuts and fills shown are approximate — final finished elevation is to be adjusted so earthwork will balance. Corner 5760 5750 eartmork will balance. Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor. 5770 5760 5750 VANN SURVEYS P. O. Box 1306 . . . . . . . . . . 5740 . . . . . . . . . . . . . . . . . . . Farmington, NM

#### **BP AMERICA PRODUCTION COMPANY**

#### DRILLING AND COMPLETION PROGRAM

14-Jul-2004

Lease: Florance

Aztec 507

Well Name & No. Florance Gas Com 1S

Field:

Basin Fruitland Coal

Minerals: State

Rig:

County: San Juan, New Mexico

BHLOC: Vertical

Surface: Lat: 36.38.5 deg; Long: -107.42.1

Location: Section 20 Unit O, T28N, R08W; 740' FSL, 2085' FEL

OBJECTIVE:			Drill to a TD of	f 2275' MD, set 7'	casing and perf	and frac	the I	Fruitland Co	al interva		
	N	METHOD OF DR	ILLING		APPI	ROXIM	ATE	DEPTHS OF	GEOLO	GICAL MA	RKER
TYPE	OF TOOL	S	DEPTH OF (	ORILLING	Actual GL:	: 57	60'		Estimate	d KB: 5,77	'3.0'
	Rotary		0 - 2275' MD	, 2288' KB	Marker			SUBSE	4	TVD	APPROX. MD
		LOG PROGR	AM		Ojo Alamo			4,619'		1,154'	1,154'
Туре			Depth Interva	l	Kirtland			4,490'		1,283'	1,283'
Open H	lole	TD up to r	ninimum charge		Fruitland		*	3,933'		1,840'	1,840'
					Fruitland Coal		*#	3,844'		1,929'	1,929'
Run1: Run Plati					Pictured Cliffs		*	3,654		2,119'	2,119'
(array induction Density, compe	•										
caliper, microlog											
gamma ray). (s		S									İ
section below).											
Run 2: Run dipo	ole sonic										
(compressional		delta			<u> </u>						
t required for fra	c gradient l	og)									
REMARKS:											
<1.75 g/cc sha	aded as co	oal. High resol	ution pass acr	oss the	1				İ		
Fruitland inter	val only. 1	Three final prin	ts to Dennis H	ilkewich in							
Houston. Customer LAS file to Dennis Hilkewich in Houston -			TOTAL DEPT	ΓH:		3,498'		2,275'	2,275'		
hilkewdn@bp.					# Probable com					* Possible	
SPECIAL TEST	S				DRILL CUT		SAM	PLES		DRILLING	TIME
TYPE					FREQUENC				DEPTH		
None					none none Geolograph 0 - 22			0 - 2275			
REMARKS:											
	r	ı -	•		ROGRAM:						
Interval	Type□M			is, ⊑sec/qt	/30 min			Othe	Specific	ation	
120'	Spud			ent to clean hole.	_						
2,275'	Water/LS				<6						
		· · · · · · · · · · · · · · · · · · ·			Let hole condition			<del></del>			
		1	i -		ecifies casing sizes				-	1	
Casing⊡S		Depth	Size	Casing Size	Grade, Thread			Landing	Point	<del> </del>	Cement
Surface/Conduc	tor	120	12-1/4"	8-5/8" ¥~'	124-40, 8 RND	20	)#	1		cmt	to surface
Intermediate 1		2275	7 7/8"	5-1/2"	J-55, 8 RND	15	.5	1		cmt	to surface
CORING PROG	RAM:				1	1,				I	
None	DD000111										
COMPLETION I		-									
		Stage Hydraulic	-rac								
GENERAL REN		un nulau ta Oacad	DOD to -ti	ad Casim = d C							
	<del></del>		bur testing, ar	nd Casing and Ce	ementing.						
BOP Pressure		quirements									
F		Danish	I 4	. 41 - 1 4 1   1 44		1					

Formation	Depth	Anticipated bottom hole pressure	Max anticipated surface pressure**
Ojo Alamo	1,154'		0
Kirtland	1,283'		0
Fruitland Coal	1,929'	400	0
PC			

Requested BOP Pre	ssure rest exception = 850 psi "" Note	e: Determined using the	e tollowing formula: ABHP - (.22	("1 VD) = ASP
Form 46 Reviewed by:	Logging program reviewed by:			
PREPARED BY:	APPROVED:	DATE:	APPROVED:	DATE:
Teruko thomas		14-Jul-04		
Form 46 7-84bw	For Drilling Dept.		For Production Dept.	

#### **CASING AND CEMENTING PROGRAM**

#### Casing Program:

			o moning it i op		.,	<del></del>		
Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs)	Capacity (bbl/ft.)	Drift in.
Surface	- <del>9.625</del> <b>8</b> ,(	JS 20	H40 >	-42				
Production -	15.5	15.5	J-55				l	

#### Mud Program

			Recommend	ed Mud Properties Prio Cem-
0 - SCP	Water/Spud	8.6-9.2	PV	<20
SCP - TP	Water/LSND	8.6-9.2	ΥP	<10
			Fluid Loss	<6

#### Cementing Program:

	Surface	Production
Excess %, Lead	100	40
Excess %, Tail	NA	40
BHST (est deg. F)	75	120
Special Instructions	1,6,7	2,4,6

- 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

#### Notes:

\*Do not wash up on top of plug. Wash lines before displacing production cement job to minmize drillout.

#### Surface:

Preflush		20 DDI.		Fresnyvater
Slurry 1	80	sx Class C Cen	nent	_ <del>99 cuft  02</del>
TOC@Surface	+ 29	6 CaCl2 (accelera	ator)	
				0.4127 cuft/ft OH

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.2	1.27	5.8

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

#### Production

Fresh Water			10 bbl	CW100	
Lead	240	sx Class "0	G" Cement	-609	cuft (a)
Slurry 1		+ 3% D79	extender		
TOC@Sur	face	+ 2% S1 Calcium Chloride			
		+1/4 #/sk.	Cellophane Flake	)	
		+ 0.1% D4	6 antifoam'		
Tail	140	sx 50/50 C	lass "G"/Poz	177	cuft
Slurry 2		+ 2% gel (	extender)		
500 ft fill		0.1% D46	antifoam	Q-2526	cuft/ft OH
		+1/4 #/sk.	Cellophane Flak	0.2009	cuft/ft csg ar
		+ 2% CaCl2 (accelerator)			

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.61	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment:	7", 8R, ST&C
1 Float Shoe (a	utofill with minimal LCM in mud)
1 Float Collar (a	autofill with minimal LCM in mud)
1 Top Rubber F	lug .
1 Thread Lock	Compound

6.1733

#### 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 ½" 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
- 5. Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water
- 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.

#### SAN JUAN BASIN Dakota Formation

#### **Pressure Control Equipment**

The objective Fruitland Coal 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 Fruitland Coal. No abnormal temperature, pressure, or H2S anticipated.

**Equipment Specification** 

Interval Below conductor casing to total depth **BOP Equipment** 

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 with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

### **BP America Production Company**



