Form 3160-3 (August 1999) FORM APPROVED OMB No. 1004-0136 Expires November 30, 200

UNITED S		Expires Novemb	
DEPARTMENT OF BUREAU OF LAND		5. Lease Serial No. SF - 080000	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Trib	e Name
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement	Name and No.
		8. Lease Name and Well No FLORANCE 27S	
	Other Single Zone Multiple Zone Ct: CHERRY HLAVA E-Mail: hlavacl@bp.com	9. API Well No.	22.57/
3a. Address P.O. BOX 3092 HOUSTON, TX 77253-3092	3b. Phone No. (include area code) Ph: 281.366.4081 Fx: 281.366.0700	10. Field and Pool, or Explo BASIN FRUITLAND	ratory
4. Location of Well (Report location clearly and in according	rdance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface SESW Lot 14 1285F.WL 1 At proposed prod. zone	1920FWL 36.41600 N Lat, 107.45200 W Lon	N Sec 26 T29N R9W N	Mer NMP
 Distance in miles and direction from nearest town or po 14.7 MILES SOUTH/EAST FROM BLOOMFIE 	st office*	12. County or Parish SAN JUAN	13. State
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1285 	16. No. of Acres in Lease 2000 Constitution of Acres 2000 Constitution of A	17. Spacing Unit dedicated	to this well
 Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft. 	g, 19. Proposed Depth 2230 MD	20. BLM/BIA Bond No. on WY2924	file
21. Elevations (Show whether DF, KB, RT, GL, etc. 5636 GL	22. Approximate date work will start! 10 08/15/2004	23. Estimated duration 7 DAYS	
	24. Attachments	<u> </u>	······································
he following, completed in accordance with the requirements	s 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 Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be filed with the appropriate Forest Service Control of the Sylpo shall be	Item 20 above). Stem Lands, the Degrator certification	ons unless covered by an existing of the state of the sta	
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA		Date 05/13/2004
Title REGULATORY ANALYST	- <u> </u>		
Approved by Signature (antess)	Name (Printed/Typed)		Date 8-17-0
Title AF pplication approval does not warrant or certify the applicant	Office FF holds legal or equitable title to those rights in the subject 1	lease which would entitle the an	plicant to conduct
perations thereon.			
Conditions of approval, if any, are attached.			

Electronic Submission #29853 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

Properties as each to technical and procedures a view pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

FALLING CYTHAL ALL GLAU MUHIZED AHE 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
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

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

AMENDED REPORT

Fee Lease - 3 Copies

		WEI	LL LOCA	MOIT	AND ACRE	AGE DEDICA	ATIC	N PLA	T		
2000	API Number	201	1	/ 19	7	Basin Fr	1	Pool N	_	_ /	
Property C) DZ	224	///	629	⁵ Property N		u. [ana	م	 	Well Number
00051	18	F	lorance								# 27S
OGRID I	¥o.			. ,	⁸ Operator N	Vame				•	Elevation
00077	8	В	P AMEI	RICA	PRODUCT	ION COMPA	NY			1	5636
					¹⁰ Surface Lo	ocation				·············	
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line		from the	East/West		County
N (Lot 14)	26	29 N	9 W		1285	SOUTH		920	WE	281	SAN JUAN
7 IV los	Section	Township	" Botton	n Hole		Different From		face from the	East/Wes	t line	County
7 UL or lot no.	Section	rownsinp	Range	LOI ION	Feet from the	North/South line	Peci	Hom me	Disty 17 Ca	·	County
13 Dedicated Acres	i i Join	t or Infill "	Consolidation C	ode 13	Order No.				i		
-32029	5.73										i
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		OR A		NDARI M(R)	UNIT HAS BE	EN APPROVED	BYT				
X			46 .	(K)				1			TIFICATION
8				3			İ				ition contained herein is my knowledge and belief.
Lot 4		L	ot 3	1	Lot 2	Lot 1					
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Lot 5		L	ot 6) a	Lot 7	Lot 8		The 7		7	
) E				Date	·/ <u>S</u> -(24	
Lot 5			_		ALC Y	C 42 3 3 4	æ				TIFICATION
V			4	O	COLUM	المستنطقة	52197	was piotled	i from field n	otes of ac	ation shown on this plat tual surveys made by me
§				1				correct to	the best of	my belief.	
Lot 1	2		Lot 11		Lot 10	Lot 9			Revised:	April	19, 2004 1, 2004
*	. =	-		$\langle \rangle$	20110	Late		Date of S	urvey	цу 2	1, 2004
*										Professio	nal Surveyor
<u></u>	וחממו	,		4				/	A.R.	VAIA.	*
SF .	1920'			()					Se of	AUS.	2/5/
∳ ~		•		X				A	70	16	(Internal Control
Lot 1	3	Ī	Lot 14	3	Lot 15	Lot 16		18		Ĵ	/] \$
*		-	77	X				1		**************************************	
V								7018 Certificate		TURAL	/

Additional Operator Remarks:

Notice of Staking was submitted on 05/07/2004

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 2230 feet and complete into the Basin Fruitland Coal as per the attached drilling plan.

SUPPLEMENTAL TO SURFACE USE PLAN

New Facilities

A 4 diameter buried steel pipeline that is + or - 800 feet in length will be constructed. The pipe wall thickness is .156 and the pipe wall strength is 42,000#. It will be adjacent to the access road and tie the well into an existing gas meter operated by BP America Production Company. The pipeline will not be used to transport gas to drill the well. After the well is spud the pipeline will be authorized by a right-of-way issued by El Paso Services.

If conditions allow, it is our intent to pre-set the 9 5/8" casing on the above mentioned well by drilling a surface hole with air/air mist in lieu of drilling mud and the surface casing be cemented with 94.5 cu/ft type I-II, 20% FLYASH, 14.5 PPG, 7.41 gal/sk, 1.61 cf/sk Yield, 80 DEG BHST ready mix cement. If the area will not allow for pre-set the approved cement program will be followed.

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance

Well No: 27S

Lease:

Surface Location: Section 26, T29N, R09W; 1285'

FSL, 1920' FWL

Field: Basin Fruitland Coal

County: San Juan

State: New Mexico Date: April 26, 2004

OBJECTIVE: Drill to a TD	of 2230' kb set	7" casing	and perf a	and frac the	Frui	tland Coal inter	val.						
	HOD OF DR					APPROXIM		DEPT	HS OF	GEO	OGIC	ΔΙ ΜΔ	RKFR
TYPE OF TOOLS		PTH OF	DRILLIN	VG.		Estimated					imated		645
i _		2217' M			H	MARKER		000		UBSI			S. DEPTH
Rotary	OG PROGR		D, 2230	ND .	-	Ojo Alamo	`		"	000	4547	WILK	1098
_	OG PROGR	AW			- 1	Kirtland	ĺ				4503		1142
						Fruitland					3773		1872
TYPE	DEF	TH INVE	RAL			Fruitland Coa	ıı İ	*#			3773		1872
OPEN HOLE		•••••				Pictured Cliffs		*			3563		2082
Run1: Run Platform Expres	ss TD (up to min	imum cha	arge.									
(array induction, 3-detector													
Density, compensated neu-					-								
caliper, microlog, SP and g													
ray). (see Remarks section below).	on												
below).													
Run 2: Run dipole sonic	TD i	up to min	imum cha	arge.					İ				
(compressional and shear				·	-								
required for frac gradient lo	g)								1				
<u> </u>					_								
REMARKS:			·		1								
- Primary presentation is E													
<1.75 g/cc shaded as coal. interval only. Three final page 1.25 interval only.	rinte to Dennis	on pass	across in	e Fruitiant etop	'				1				
Customer LAS file to Denn				31011.									
hilkewdn@bp.com		, , , , , , , , , , , , , , , , , , , ,	•			=							
,					L	TOTAL DEPT	TH_				3415		2230
						# Probable co				*	Possible	Pay	
S	PECIAL TE	STS			- }	DRILL CUT	ITIN (G SAN	IPLES	[LING 1	IME
TYPE						FREQUENC	CY	DEPT	Ή		EQUEN		DEPTH
None						none		none		Ged	olograph		0-2230
REMARKS:													
													
MUD PROGRAM: Approx. Interval	l Tv	pe Mud	1	Weight, #/	ga I	Vis, sec/qt	· I w	//L cc	's/30 mi	n 1	Other :	Snacifi	cation
0 - 120		oud		8.6-9.2	<u> </u>	V13, 350/41		/L 00	3/30 1111		Other .	Specifi	Cation
120 - 2230		ater/LSN	ID.	8.6-9.2			<	6					
REMARKS:	1.7	u.u.,	10	0.0 0.2				<u> </u>					
(1) The hole will require	sweeps to k	ceep uni	oaded w	hile fresh	ı wa	ter drilling.	Let h	ole co	nditions	dicta	te freau	iencv.	
CASING PROGRAM: (
Casing String	Estimated					rade 12		ight	Hole S				Cmt, Etc.
Surface/Conductor		120			出	40, 8 RND		20.0		2.5"		,	<u> </u>
Intermediate		2230		5-1/2"		55, 8 RND	ľ	15.5		75"	1		
REMARKS:													
(1) Circulate Cement to	Surface												
CORING PROGRAM:									· · · · · · · · · · · · · · · · · · ·		· ···		
None													
COMPLETION PROGR	AM:												
Rigless, Single Stage Li	mited Entry I	Hydrauli	c Frac										
GENERAL REMARKS:								,-					
Notify BLM/NMOCD 24	hours prior to	o Spud,	BOP tes	sting, and	Cas	sing and Cei	menti	ing.					
Form 46 Reviewed by:						program re			N/A	1			
PREPARED BY:		APPR	OVED:			DATE:							·· · · · · · · · · · · · · · · · · ·
	*												
Daniel Crosby		<u> </u>				4/26/20	04			l			
Form 46 12-00 MNP												•	

BP America Production Company BOP Pressure Testing Requirements

Well Name: Florance 27S

County: San Juan State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1098	-	
Kirtland	1142		
Fruitland Coal	1872	400	0
PC			
Lewis Shale Cliff House			
Menefee Shale			
Point Lookout			
Mancos			
Dakota			

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

Requested BOP Pressure Test Exception: | 850 psi

850 psi

SAN JUAN BASIN Fruitland Formation Pressure Control Equipment

Background

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

<u>Interval</u>

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

Location: S County: S State: Casing Program:	Florance 27S Sec 26 - 29N - 09 San Juan]			=	Basin Fru	itland Cos	
ocation: Scounty: State: It	Sec 26 - 29N - 09 San Juan	j				IBasin Fr.		
ounty: State: Note: San Juan				Field:		manu Coa	ı	
tate:		9W, 1095' FSL 1	., 1785' FWL		API No.			
Casing Program:		Į.			Well Flac	5- 31	01.17	
	New Mexico	J			Formation:	Fruitland		
					KB Elev (est)	<u> </u>	5645	
					GL Elev. (est)	L	5632	
aeina Strina								
asing Suring L	Est. Depth	Hole Size	Casing Size	Thread	TOC			
((ft.)	(in.)	(in.)		(ft.)			
Surface	120	12.5	8 5/8	8rd	Surface			
Production -	2230	8.75	5 1/2	8rd	Surface			
asing Properties			ctor included)					
	Size	Weight	Grade					
	(in.)	(lb/ft)		~~ V~H	2			
Surface	8 5/8		الهيكلي	о- Х-Ч				
Production -	5 1/2	15.5	J-5	5				
lud Program								
-	Mud Type	Mud Weight		Recomme	nded Mud Prope	erties Prio C	ementing:	
ft.)	- · /r -			PV	<20			
. •				ΥP	<10			
O-SCP V	Water/Spud	8.6-9.2		Fluid Loss	<6			
	Water/LSND	8.6-9.2						
					·			
ementing Program	n:		Surface		Production			
Excess %, Lead			Surface 100		40			
Excess %, Leau			NA NA		40			
BHST (est deg. F)			75		120			
Special Instructions			1,6,7		2,4,6			
•	1. Do not wash p	umps and line			2,7,0			
	2. Wash pumps a		o .					
	3. Reverse out							
	4. Run Blend Tes	st on Cement						
5	5. Record Rate, I	Pressure, and	Density on 3.5*	disk				
•	3. Confirm densit	ometer with pr	essurized mud :	scales				
-	7. 1" cement to s	urface if come						
		unace il ceme	nt is not circulate					
	3. If cement is no			ed.)-12 hr. after lan	ding plug.		
				ed.)-12 hr. after lan	ding plug.		
Notes:	B. If cement is no	t circulated to	surface, run tem	ed. np. survey 10	· <u>ve</u>		minmize di	rillout.
Votes:		t circulated to	surface, run tem	ed. np. survey 10	· <u>ve</u>		minmize di	rillout.
Notes:	3. If cement is no	t circulated to	surface, run tem	ed. np. survey 10 fore displacin	g production ce		minmize di	rillout.
Notes:	B. If cement is no	t circulated to	surface, run tem	ed. np. survey 10	g production ce		minmize di	rillout.
Notes: Surface:	3. If cement is no	on top of plug.	surface, run tem	ed. np. survey 10 iore displacin FreshWate	g production ce		minmize di	·
Notes: Surface:	Do not wash up	on top of plug.	surface, run tem . Wash lines bef 20 bbl. sx Class C Cen	ed. np. survey 10 fore displacin FreshWate	g production ce		ninmize di	rillout. 99 cuft
Notes: Surface:	3. If cement is no	on top of plug.	surface, run tem	ed. np. survey 10 fore displacin FreshWate	g production ce		minmize di	99 cuft
Notes: Surface:	Do not wash up	on top of plug.	surface, run tem . Wash lines bef 20 bbl. sx Class C Cen	ed. np. survey 10 fore displacin FreshWate	g production ce		minmize di	·
Notes: Surface:	Do not wash up	on top of plug.	surface, run tem . Wash lines bef 20 bbl. sx Class C Cen	ed. np. survey 10 fore displacin FreshWate nent ccelerator)	g production ce	ment job to	minmize di	99 cuft
Notes: Surface:	Do not wash up	on top of plug. 80 Density	surface, run tem . Wash lines bef 20 bbl. sx Class C Cen	ed. np. survey 10 fore displacin FreshWate ment ccelerator)	g production ce	ment job to r	minmize di	99 cuft
Surface:	Do not wash up Preflush Slurry 1 TOC @ Surface	on top of plug. 80 Density (lb/gal)	wash lines bef 20 bbl. sx Class C Cen + 2% CaCl2 (ad	ed. np. survey 10 fore displacin FreshWate nent ccelerator) Yield (ft3/sk)	g production ce	ment job to	-	99 cuft
Notes: Surface: Do not wash up	on top of plug. 80 Density	wash lines bef 20 bbl. sx Class C Cen + 2% CaCl2 (ad	ed. np. survey 10 fore displacin FreshWate ment ccelerator)	g production ce	ment job to r	minmize di	99 cuft	
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Cementing Program

TOC@Surface

+ 2% S1 Calcium Chloride

+1/4 #/sk. Cellophane Flake

+ 0.1% D46 antifoam'

Tail

Slurry 2

140 sx 50/50 Class "G"/Poz

2.61

1.27

+ 2% gel (extender)

0.1% D46 antifoam +1/4 #/sk. Cellophane Flake

+ 2% CaCl2 (accelerator)

177 cuft

0.2526 cuft/ft OH 0.2009 cuft/ft csg ann

Slurry Properties:

Slurry 1

Slurry 2

Density (lb/gal) 11.4

500 ft fill

Yield (ft3/sk)

Water (gal/sk) 17.77 5.72

Casing Equipment:

5 1/2", 8R, ST&C

13.5

1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud)

1 Top Rubber Plug 1 Thread Lock Compound

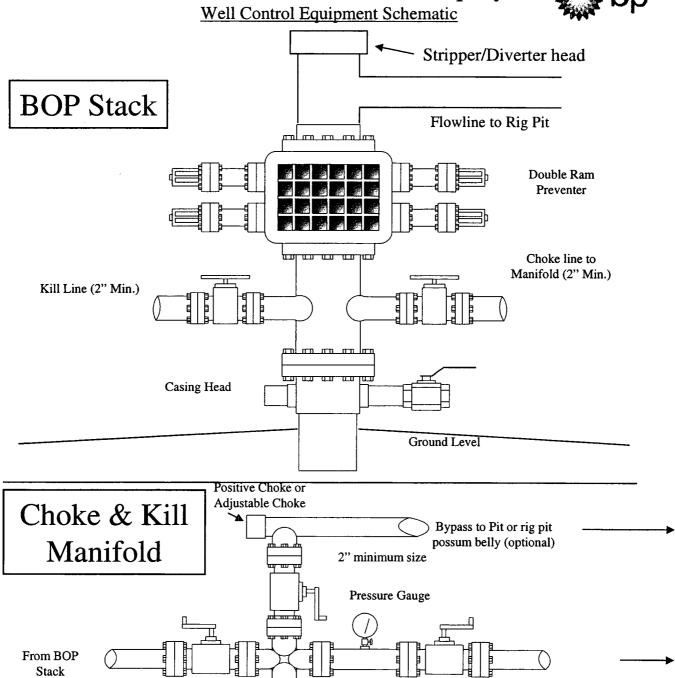
BP American Production Company



Straight-thru to blow

pit/tank or return to rig Pit

To Blow Tank or burn Pit



Working Pressure for all equipment is 2,000 psi or greater

2" minimum size

Adjustable Choke

2" minimum size

2" minimum size