Form 3160-3 (August 1999)

UNITED STATES		OMB No. 1004-0136 Expires November 30, 2000					
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANGEMENT APPLICATION OFOR PERMIT TO DRILL OR	REENETER.	1 7 5.2	Lease Serial No.	SF - 0 <u>7</u> 6824	80000		
		6.	If Indian, Allottee or t	tribe Name			
la. Type of Work: DRILL REENTER		7.	If Unit or CA Agreen	nent, Name and I	No		
1b. Type of Well: Oil Well Gas Well Gas Other	Single Zone Multiple Zo		Lease Name and Wel	l No.			
2. Name of Operator BP AMERICA PRODUCTION COMPANY		9.	30-045-	33/30			
3a. Address P.O. BOX 3092 HOUSTON, TX 77079-2064 3b. Phone 281-366	No. (include area code) 4081	<b>I</b>	Field and Pool, or Examine Fruitland Coal				
4. Loction of Well (Report location clearly and in accordance with any At surface 1670' FSL & 990' FWL NWSW	State requirements.*)		Sec., T., R., M., or BI CCTION 26 T29N	· ·	Area		
At proposed prod. Zone Same as above		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
4. Distance in miles and direction from nearest town or post office*  4.5 MILES S/E FROM BLOOMFIELD, NM			County or Parish		1EXICO		
15. Distance from proposed* Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 990'	16. No. of Acres in lease 295.73	17. Spa 295.73	cing Unit dedicated to the	17/10 C	G 2005		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 2172' MD	20. BLI WY292	M/BIA Bond No. on file	E OILC	CEIVED ONS. DIV.		
21. Elevations (show whether DF, KDB., RT, GL, etc.	22. Approximate date work w	vill start*	23. Estimated du	raligar, O	131.3		
5627 GL	07/15/05		3 DAYS				
	24. Attachments			401	1,91,51,81,00		
<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 System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	4. Bond to cover 20 above). 5. Operator certification	r the operati fication. ite specific	this form: ions unless covered by a information and/or pl	v	·		
25. Signature Name (Prin		1	Date 05/26/2005		·		
Title							
Approved by (lignature)  Name (Printed/T)	pped)		Date >S.	65			
Helmy trald Manager Min.							
Application approval does not warrant or certify the applicant holds legal or Operations thereon.  Conditions of approval, if any, are attached.	equitable title to those rights in th	he subject le	ase which would entitle	the applicant to	conduct		
Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section 1212, make it a cri any false, fictitious or fraudulent statements or representations as to any ma		willfully to	make to any departmen	nt or agency of th	e United States		

\*(Instructions on reverse)

FORM APPROVED

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

Fee Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

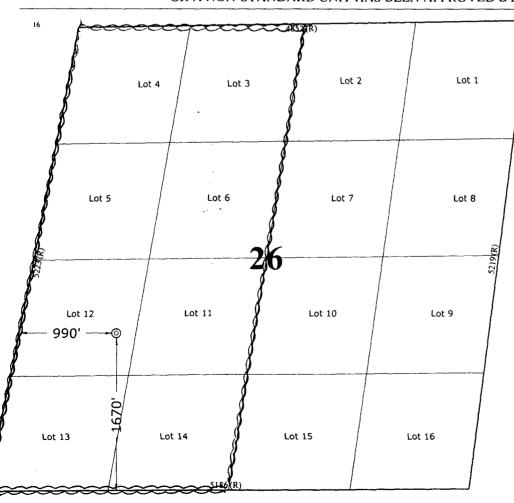
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code	Pool Name
	71629 Basin Fruit	land Coal
Property Code	Property Name	6 Well Number
000 518	Florance	# 27S
1 OGRID No.	* Operator Name	* Elevation
000778	BP AMERICA PRODUCTION COMPAN	YY 5627

<sup>10</sup> Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L (Lot 12)	26	29 N	9 W		1670	SOUTH	990	WEST	SAN JUAN
			11 Botte	om Hole	Location If	Different From	n Surface		
<sup>7</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	13 fain	t or Infill 14	Consolidation	C-d- IS	Out a Ni				<u> </u>
Dedicated Acres	, Join	t or milit	Consolidation	Code "	Order No.				
295.73									

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



true	and	compl	ete to	the	besl	of m	y kno	vledge	and	belief.
	/	a) /	,			,	,			
			B.	u/	1	(la	V	a	-	
Sig	ilatu	fe		Τ,	.1/					

"OPERATOR CERTIFICATION

I hereby certify that the information contained herein is

Printed Name
Regulatory AvalyE

5-25-05

"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.

Restaked: May 10, 2005 December 15, 2004

Date of Survey
Signature and Sear of Professional Successor

7016

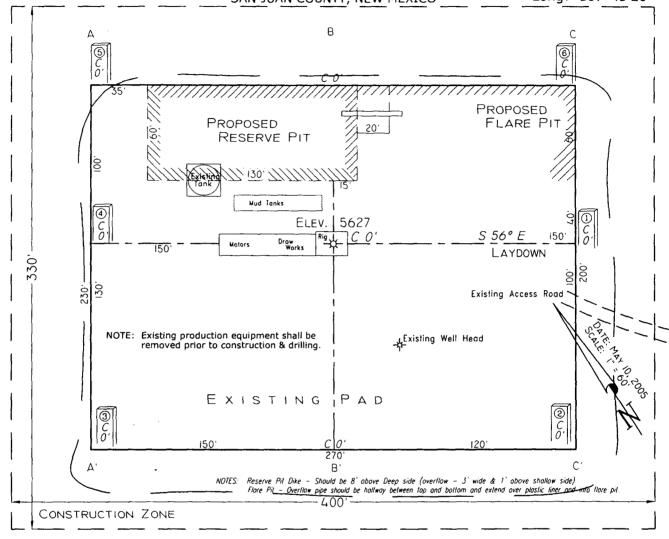
Certificate Number

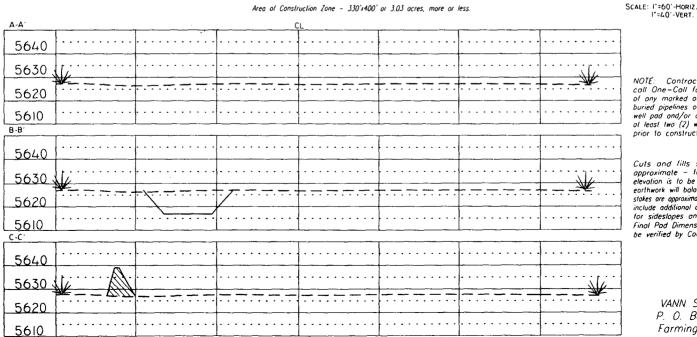
## PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Florance #27S 1670' F/SL 990' F/WL SEC. 26, T29N, R9W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

36.6942° 107.7556° Lat: Long:

36°41'39" Lat: 107°45'20" Long:





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.

Cuts and fills shown are approximate — final finished elevation is to be adjusted so earthwork 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.

> VANN SURVEYS P. O. Box 1306 Farmington, NM

<del>,</del>			<del></del>	RD AM	MERICA	PPOD	HCTIO	<u>,                                    </u>	OMPA	NY					
•					LLING AN										
				<u> </u>	LLIIIO AI		/2005								
Lease:															
County:	San Juan, I	New M	exico	Surfa	ace Location	n: SW 1/4	/ 1/4, S26, T29N, R09W : 1670' FSL, 990' FWL								
Minerals:		Surface: Lat: 36. Long:-107.													
Rig:	Rig: Aztec 507 BH Location: SW								W : 1670'	FSL, 990' FW	/L				
OBJECTIVE:	Drill to TD,	set 5.5	" casing, p	erf and frac	the Fruitlan	d Coal inte	erval.								
			D OF DRIL	LING				APPRO	DXIMATE	DEPTHS OF	GEOLOGICA	L MARI	KER		
TYPE OF TOOLS DEPTH OF DRILLING					ì _	Actual	GL:	5627		Estimated KB:	5,638.0				
	Rotary				- TD		larker			SUBSEA	TV	<u> </u>	APPROX. ME		
	<del></del>	LOG	PROGRA				)jo Alamo			4,680'			958'		
Туре				Depth Inter			(irtland			4,525'			1,113'		
GR/CCL an	d RST			to Min Ch	narge		ruitland Fm			3,892'	<del>-  </del>		1,746'		
1							ruitland Coa		*#	3,797' 3.566'			1,841' 2,072'		
İ						1	iciaiea Cilli	<u> </u>		3,300			2,012		
Cased H	lole							, <u>.</u>			<del> </del>		<del></del>		
04304 11									1				<del></del>		
REMARKS:															
Primary Log pre															
shaded. Carbon															
only. Two final p		ıstome	r LAS file to	Dennis H	ilkewich in H	ouston -									
hilkewdn@bp.co	om.					-									
						_									
						-	TOTAL D	EDTU:		3,466'			2,172'		
						-	# Probable of					ossible F			
SPECIAL TEST	rs								ING SAM			ILLING			
TYPE							FREQU			DEPTH	FREQUEN		DEPTH		
None							non	ie	no	ne to TD	Geologra	ph	0 - TD		
REMARKS:				···											
			•								The state of the s				
MUD PROGRA	м:														
Interval	TypeMu		#/gal		Vis, sec/q		/30 min Other Specification								
200'	Spud		8.8 - 9.0		fficient to clea	an hole.							•		
2,172'	Water/LS	ND	8.4 - 9.0	<u> </u>			<9	<u> </u>	Sweep	hole while w	hilst water dril	ling, LCI	vi onsite		
	<u> </u>														
CASING PROG															
CasingSt			epth	Size		ng Size	Grade, Thr		Weight	Landing	Point		<u>Sement</u>		
Surface/Conduc	ctor		200'	12 1/4"	<del></del>	5/8"	IS 42 ST8	C	20#			cmt	to surface		
Production		2,	,172'	7 7/8"	5-	1/2"	J-55		15.5#			cmt	to surface		
CORING PROC	GRAM:									L					
None	V-UVI.														
COMPLETION	PROGRAM	l:		<del> </del>		<u></u>									
Rigless, Limited			rac		-	,									
GENERAL REI															
Notify BLM/NM	OCD 24 hou	ırs prio	r to Spud,	BOP testin	g, and Casin	g and Cen	nenting.								
BOP Pressure	Testing Re	quiren	nents												
Format			Depth		Anticipate	ed bottom	hole press	ure		Max an	ticipated sur	face pre	ssure**		
Fruitla	ind		1,841		•	100 - 60					600				
Pictured			2,072'			200					200				
	sted BOP F	ressur		eption = 15	500 psi							$\top$			
Form 46 Review		T			m reviewed	by:	1	<del></del> _		<del></del>	<u>I</u>		<del></del>		
PREPARED B					OVED:			DATE	:	APP	ROVED:		DATE:		
DNH/DDR	TT/HGJ						12	2-May-0	05						
Form 46 7-84b				For Daill	ing Dept					For Product	ion Dona				

## Additional Operator Remarks Florance 27S APD

## Notice of Staking was submitted on 05/27/05.

## Please note the well is staked on an existing well pad.

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 2172' and complete into the Basin Fruitland Coal.

If terrain allows it is our intent to pre-set the 8 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.

#### SUPPLEMENTAL TO SURFACE USE PLAN

### New Facilities:

A 4.5" diameter buried steel pipeline that is +/- 200 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 Field Services.

APD/ROW

## **Cementing Program**

144.0 51	EI 070					<u> </u>		
Well Name:	Florance 27S		001 1744		API No.			
Location:	Sec 26 - 29N - 09	100, 1670 PSL, 9	90 FVVL			<u> </u>		
County:	San Juan				Well Flac	<u> </u>		
State:	New Mexico	1			Formation:	Fruitland (		
					KB Elev (est)		5638	
					GL Elev. (est)	<u></u>	5627	
Caalaa Baaaaa								
Casing Program:	Est Domits	Uala Siaa C	enina Cina	Thread	TOC			
Casing String	Est. Depth		asing Size	Thread				
Surface	(ft.) 200	(in.) (i	n.) 8 5/8	8rd	(ft.) Surface			
Production -	2172	7.875	5 1/2	8rd	Surface			
Casing Properties		(No Safety Fact		0.0	Cunacc			
Casing String	Size		Grade					
Odding Odding	(in.)	(lb/ft)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Surface	8 5/8		H-4	0				
Production -	5 1/2		J-5					
i ioddolo.i	V2	10.0	•	•				
Mud Program		***			······	-		
Apx. Interval	Mud Type	Mud Weight		Recomme	nded Mud Proper	lies Prio Ce	menting:	
· (ft.)		-		PV	<20			
				YP	<10			
0 - SCP	Water/Spud	8.6-9.2		Fluid Loss	<6			
SCP - TD	Water/LSND	8.6-9.2						
			<del></del>					
Cementing Progra	m:							
_			Surface		Production			
Excess %, Lead			100		40			
Excess %, Tail			NA		40			
BHST (est deg. F)	•		75		120			
Special Instruction	is 1. Do not wash p		1,6		2,4,6			
	Wash pumps a     Reverse out     Run Blend Tes     Record Rate, I     Confirm densit	st on Cement Pressure, and De	-					
Surface:						-		
	Preflush		20 bbl.	FreshWat	er			
	Slurry 1	1/11	x Class C Ce	ment				179 cuft
	TOC@Surface		+ 2% CaCl2 (a					115 call
	TOOGGOUNACE	•	- 2 /0 CGCIZ (2	(Celerator)				0.4465 cuft/ft OH
								J. TOO GUIDIE OF
Chumi Dranartian		Doneity		Yield		Water		
Slurry Properties:		Density (lb/gal)		(ft3/sk)		(gal/sk)		
	Oh 4	. • .		• •	,	(garsk)	E 0	
	Slurry 1	15.2		1.2	ı		5.8	
0	4.	0.5/01 0D CT	• •					
Casing Equipmen	н.	8-5/8", 8R, ST	xC					
		1 Guide Shoe	Di-					
		1 Top Wooden	-					
		1 Autofill insert						
		Centralizers, a	s needed					
		1 Stop Ring						
		1 Thread Lock	Compound					
					·	-		
Production:								
	Fresh Water		10 bbi	CW100				
	•							
	Lead		1:	52 sx Class '				397 cuft
	Slurry 1				extender			
	TOC@Surface			+ 2% S1	Calcium Chloride			
				+1/4 #/sk	. Cellophane Flak	е		
				+ 0.1% D	46 antifoam'			

## **Cementing Program**

Tail

Slurry 2

96 sx 50/50 Class "G"/Poz

121 cuft

500 ft fill

+ 2% gel (extender)

0.1% D46 antifoam

+1/4 #/sk. Cellophane Flake

0.1733 cuft/ft OH 0.2009 cuft/ft csg ann

+ 2% CaCl2 (accelerator)

Slurry Properties:

Density

Yield

Water

Slurry 1 Slurry 2 (lb/gal) 11.4 13.5 (ft3/sk) 2.61 1.27

(gal/sk) 17.77 5.72

Casing Equipment:

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

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

Centralizers as needed 1 Top Rubber Plug 1 Thread Lock Compound

# SAN JUAN BASIN Basin Fruitland Coal 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 single 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. No abnormal temperature, pressure, or H2S anticipated.

## **Equipment Specification**

#### Interval

#### **BOP Equipment**

Below conductor casing to total depth 11" nominal or 7 1/16", 2000 psi Single ram preventer with 3000 psi annular preventer and rotating head.

All ram type and annular preventers as well as related control equipment will be hydraulically tested to 250 psi (low pressure) and 1500 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.

## **BP American Production Company**

Well Control Equipment Schematic



