Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Lease Serial No.

	SF 080247					
APPLICATION FOR PERMIT T	6. If Indian, Allottee or Tribe Name					
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Name and No.				
		8. Lease Name and Well No.				
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Othe		FLORANCE 117S				
	CHERRY HLAVA E-Mail: hlavacl@bp.com	9. API Well No. 045-32363				
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory				
P.O. BOX 3092 HOUSTON, TX 77253-3092	Ph: 281.366.4081 Fx: 281.366.0700	BASIN FRUITLAND COAL				
4. Location of Well (Report location clearly and in accordance	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area				
At surface SESE Lot 16 660FSL 950FI	EL 36.40600 N Lat, 107.44800 W Lon	∫ Sec 35 T29N R9W Mer NMP				
At proposed prod. zone		P				
14. Distance in miles and direction from nearest town or post of		12. County or Parish 13. State				
16.1 MILES SOUTH/EAST FROM BLOOMFIELD	(1) (2) (3)	SAN JUAN 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 Lease	17. Spacing Unit dedicated to this well				
660	AUG 2004	306.35 EL				
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond/No. on file				
100'	2300 MD (0) 000 0000	WY2924				
21. Elevations (Show whether DF, KB, RT, GL, etc. 5748 GL	22. Approximate date work will start 08/15/2004	723. Estimated duration 7 DAYS				
	24. Attachments	<u> </u>				
ne following, completed in accordance with the requirements of	Onshore Oil and Gas Order No. 1, shall be attached to	this form:				
Well plat certified by a registered surveyor.		ons unless covered by an existing bond on file (see				
A Drilling Plan.	Item 20 above).	ions unless covered by an existing bond on the (see				
A Surface Use Plan (if the location is on National Forest Syste. SUPO shall be filed with the appropriate Forest Service Office.	em Lands, the 5. Operator certification ice). 6. Such other site specific in	nformation and/or plans as may be required by the				
	authorized officer.	. , , .				
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA	Date 05/17/2004				
Title	CHENT HEAVA	05/17/2004				
REGULATORY ANALYST						
Approved by (Signature)	Name (Printed/Typed)	Date 9-13-4				
Title 1 E.11	Office FFC	10 12				
pplication approval does not warrant of certify the applicant hole	ds legal or equitable title to those rights in the subject	lease which would entitle the applicant to conduct				
perations thereon.	and are supported that the discount regimes in the subject in	, and would entitle the applicant to conduct				
onditions of approval, if any, are attached.						
	nake it a crime for any person knowingly and willfully	to make to any department or agency of the United				

Additional Operator Remarks (see next page)

Electronic Submission #30790 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is so your to rechard and proceduration or personant to 43 CFR 3165.3 are the conseant to 43 CFR 3165.4

DARLE WELL THE CLOSE A PROFESCORED AND SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL PEQUIREMENTS"

similar Teach of

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 Buergy, 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 - 3 Copies

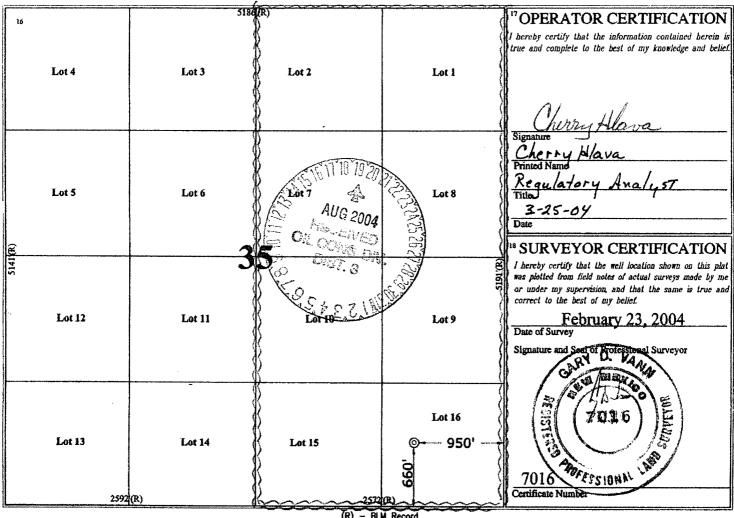
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 71629 Basin Fruitland Well Number # 117S Florance OGRID No. Elevation Operator Name **BP AMERICA PRODUCTION COMPANY** 000 778 5748 **Surface Location** Township Range East/West line County UL or Lot No. Section Lot Idn Feet from the Feet from the

SAN JUAN 35 29 N 9 W 660 SOUTH 950 EAST P (Lot 16) 11 Bottom Hole Location If Different From Surface East/West line Section Range Lot Idn Peet from the County UL or lot no. Township North/South line Feet from the 12 Dedicated Acres 13 Joint or Infill Consolidation Code 15 Order No. 3*06-35*

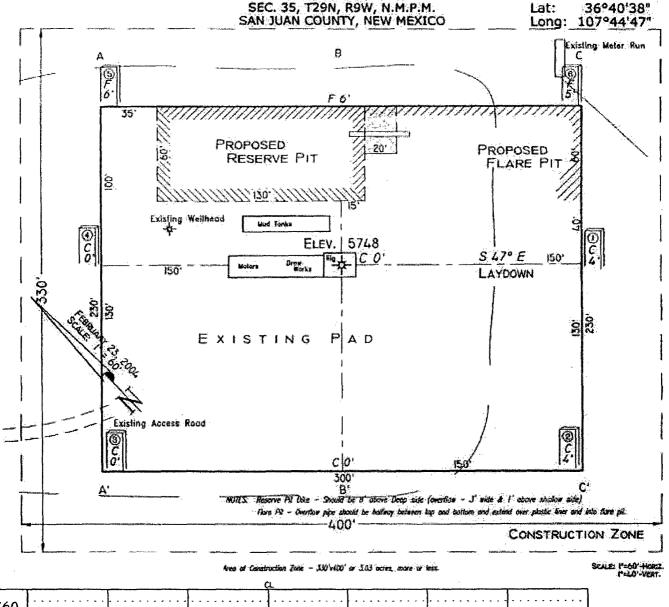
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

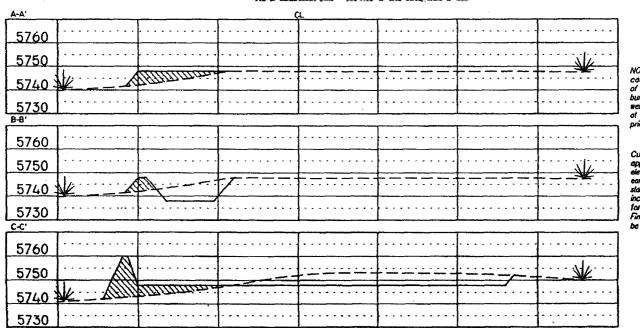
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Florance #1175 660' F/SL 950' F/EL SEC. 35, T29N, R9W, N.M.P.M.





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 belance. Corner states 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

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance 117S

Lease:

Well No: 117S

Surface Location: Section 35P, T29N, R09W; 660'

FSL, 950' FEL

County: San Juan

State: New Mexico
Date: April 26, 2004

Field: Basin Fruitland Coal

OBJECTIVE: Drill to a TE	of 2300' kb	set 7" casino	and nerf	and frac the	Fruit	land Coal inter	rval						
		DRILLING	and pon	and had the		APPROXIM		DEPT	HS OF	GEO	LOGIC	ΔΙ ΜΔΙ	RKER
TYPE OF TOOLS		DEPTH OF	DRILLI	ING	- 1	Estimated						KB: 5	
Rotary) – 2287' M			F	MARKER				UBS			DEPTH
	OG PRO		D, 2000	<u> </u>	┨,	Ojo Alamo	1		"	ODO	4692	WILAC	1069
-	.ou Fnot	GRAW				Kirtland			-		4581		1180
						Fruitland					3819		1942
TYPE	D	EPTH INVE	ERAL			Fruitland Coa	al	*#			3819		1942
OPEN HOLE						Pictured Cliffs	s	*	1		3610		2151
Run1: Run Platform Expre		D up to min	imum ch	narge.									
(array induction, 3-detector													
Density, compensated neu- caliper, microlog, SP and c									1				
ray). (see Remarks section					ŀ								
below).	V				1]	
					- 1		1		Ì				
Run 2: Run dipole sonic		D up to min	imum ch	narge.									
(compressional and shear					ľ								
required for frac gradient lo	og)												
REMARKS:			· · · · · · · · · · · · · · · · · · ·		\dashv				1			ĺ	
- Primary presentation is E	Bulk Density	/ Presentation	on (5"=1	00') with	-								
<1.75 g/cc shaded as coal	. High reso	lution pass	across th	he Fruitland	i t								
interval only. Three final p				ıston.									
Customer LAS file to Denn	nis Hilkewich	n in Houstor	1 —		- 1				}			1	
hilkewdn@bp.com					- -	TOTAL DEP	тн				3461		2300
					_	# Probable co		tion inte	erval	* [ossible	Pav	2000
S	PECIAL T	TESTS				DRILL CUT				<u> </u>		LING T	IME
TYPE						FREQUENC		DEPT		FRI	EQUEN		DEPTH
None						none	-	none			lograph		0-2300
REMARKS:													
													
MUD PROGRAM:	1	Type Mud		Weight, #/	na l	Vis, sec/qt	La	//L ^^'	s/30 mi:	n 1	Other 9	Specific	ation
Approx. Interval 0 - 120		Spud		8.6-9.2	ga	vis, sec/qi	. VI	//L CC	5/30 1111	11	Ouler .	Specific	auon
120 - 2300		Water/LSN	שו	8.6-9.2			<	6					
REMARKS:		TTGLOI/LOI		0.0 0.2				<u> </u>					
(1) The hole will require	sweeps to	o keep unl	oaded v	while fresh	ı wat	ter drillina.	Let h	ole cor	ditions	dictat	te freau	iency.	
CASING PROGRAM: (
Casing String		ed Depth				ade		ight	Hole S				Cmt, Etc.
Surface/Conductor		120		8-5/8"		40, 8 RND		20.0	12-	1/4"	1		-
Intermediate		2300		5-1/2"	J-5	5, 8 RND		15.5	7-	7/8"	1		
REMARKS:	_												
(1) Circulate Cement to	Surface												
CORING PROGRAM:													
None													
COMPLETION PROGR	AM:												
Rigless, Single Stage Li		y Hydraulid	Frac										
GENERAL REMARKS:			•										
Notify BLM/NMOCD 24	hours prio	r to Spud,	BOP te						N1//				
Form 46 Reviewed by: PREPARED BY:		ADDD	OVED-		ging	program re	view	ea by:	N/A	\			
FREFARED DI:		APPR	OVED:			DATE							
Daniel Crosby						4/26/20	04						
Form 46 12-00 MNP													

Additional Operator Remarks:

Notice of Staking was submitted on 03/10/2004

The above mentioned well is staked on the existing pad of the Florance 1A.

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 2300 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 - 300 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 BOP Pressure Testing Requirements

Well Name: Florance 117S

County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1069		
Kirtland	1180		
Fruitland Coal	1942	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

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

Interval

BOP Equipment

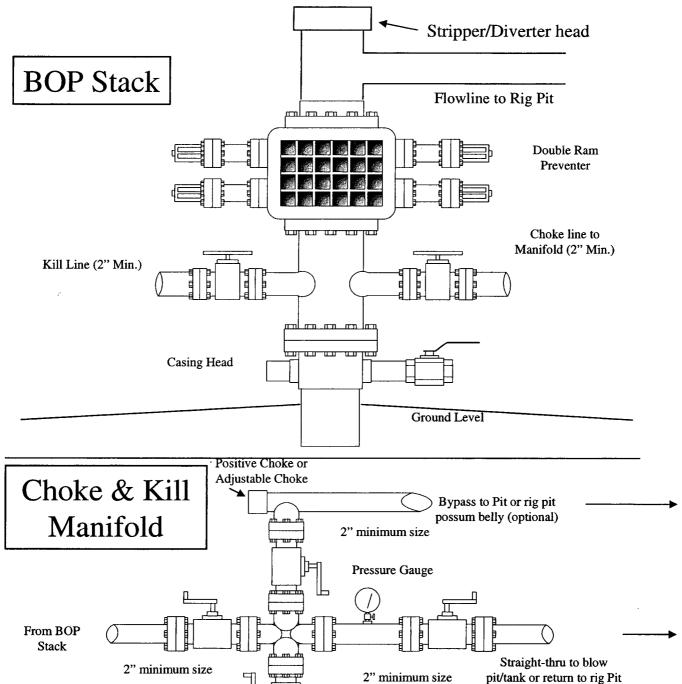
Below conductor casing to total depth

11" nominal or 7 1/16",3000 psi double ram preventer with rotating

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.

BP American Production Company Well Control Equipment Schematic





Adjustable Choke

Working Pressure for all equipment

is 2,000 psi or greater

2" minimum size

To Blow Tank or burn Pit