Firm 3160-3 (August 1995)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND N	5. Lease Serial No. NMSF - 078336-B					
APPLICATION FOR PERMIT	APR 2002  O DRILL OR REENTER	6. If Indian, Allottee or Tribe Na	me			
la. Type of Work:		7. If Unit or CA Agreement, Na.  8. Lease Name and Well No.	ne and No.			
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	er Single Zone Multiple Zone	BARRETT LS 3B				
	MARY CORLEY E-Mail: corleym@bp.com	9. API Well No. 30-045-3	1035			
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 Explorato. BLANCO MESAVERDE				
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and	Survey or Area			
At surface WEAW Lot 12 2330FSL 10	00FWL 36.53000 N Lat, 107.48500 W Lon	L Sec 20 T31N R9W Mer	NMP			
At proposed prod. zone						
<ol> <li>Distance in miles and direction from nearest town or post of 13.5 MILES FROM AZTEC</li> </ol>	office*	12. County or Parish SAN JUAN	13. State 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				
1000	319.80	319.80 W/2				
18. 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				
completed, applied for, or this rease, it.	6060 MD					
21. Elevations (Show whether DF, KB, RT, GL, etc. 6562 GL	22. Approximate date work will start 04/10/2002	23. Estimated duration 7 DAYS				
This action is subject to technical and procedural review pursuant to 43 CFR 3166.3	24. Attachments DRIL	LING OPERATIONS AUTH	ORIZED ARE			
and appeal pursuant to 43 CFR 3185.4 The following, completed in accordance with the requirements of						
<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>	4. Bond to cover the operatio Item 20 above). em Lands, the 5. Operator certification	ns unless covered by an existing be formation and/or plans as may be re	· ·			
25. Signature (Electronic Submission My Solly)	Date 03/11/2002					
AUTHORIZED REPRESENTATIVE						
Approved by (Signature)  Approved David J. Mankiewicz	Name (Printed/Typed)	I	H/25/02			
Title AFM	Office FFO					
Application approval does not warrant or certify the applicant he operations thereon.  Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject le	ase which would entitle the application	ant to conduct			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representa		o make to any department or agenc	y of the United			
		7 7	· · · · · · · · · · · · · · · · · · ·			

Additional Operator Remarks (see next page)

Electronic Submission #10730 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

District I PO Box 1980, Hobbs NM 88241-1980

District II

Dedicated Acres

Joint or Infill

<sup>14</sup> Consolidation Code

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 - 3 Copies

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

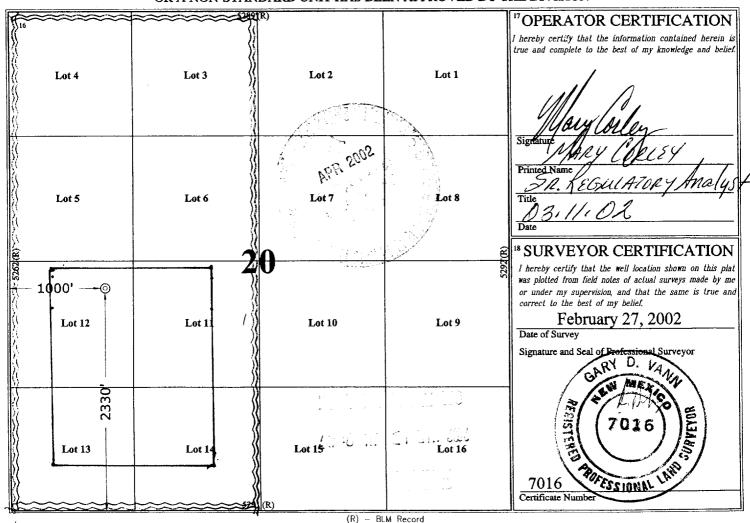
API Number	r	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name				
30-045-31	035	72319	BLANCO MESAVEROE				
Property Code		5 ]	Property Name	6 Well Number			
00305	Ba	#3.B					
<sup>1</sup> OGRID No.		* (	<sup>9</sup> Elevation				
000 718	BP	BP AMERICA PRODUCTION COMPANY					

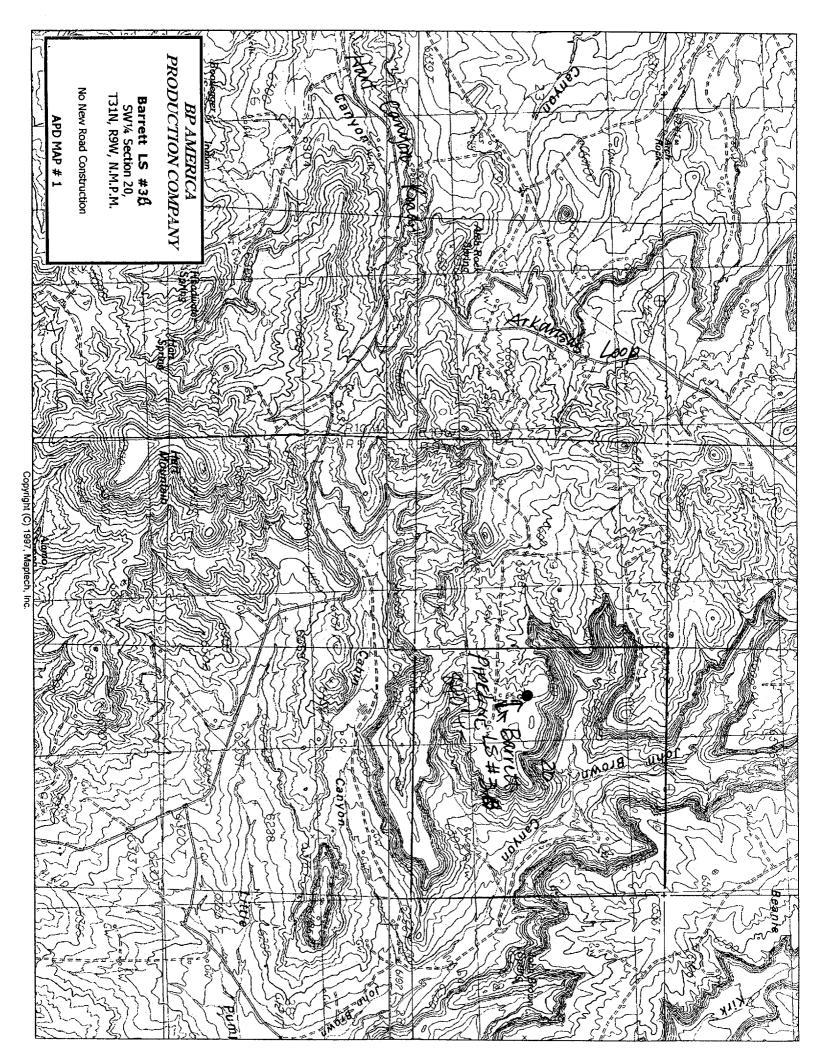
#### **Surface Location**

UL or Lot No. L (Lot 12)	Section 20	Township 31 N	Range 9 W	Lot Idn	Feet from the 2330	North/South line SOUTH	Feet from the 1000	East/West line WEST	SAN JUAN	
"Bottom Hole Location If Different From Surface										
<sup>1</sup> UL or lot no.	Section	Township	Range	Lot Idn	Peet from the	North/South line	Feet from the	East/West line	County	

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

15 Order No.





# AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Barrett LS

Form 46 12-00 MNP

Lease: Barrett LS County: San Juan

n Juan

State: New Mexico
Date: March 11, 2002

Well No: 3B

Surface Location: 20-31N-9W, 2330 FSL,1000 FWL

Field: Blanco Mesaverde

OBJECTIVE: Drill 50' bel	ow the base		s Shale, set 41/2"	product	ion liner. Stimul	ate LS. CH. N	MF and PL	interv	als	<del></del>	
		DRILLING								AL MA	ARKER
TYPE OF TOOLS	DEPTH OF DRILLING				APPROXIMATE DEPTHS OF GEOLOGICAL MA Estimated GL: 6564 Estimated KB:						
Rotary		0 - TD		F	MARKER			UBSI			AS. DEPTH
	OG PRO				Ojo Alamo			0001	4608	IVIL	1970
TYPE			PTH INVERAL		Kirkland				4464		-
	DE: 111 1144 E			Fruitland			3711			2114 2867	
					Fruitland Coa	ls *			3550		3028
					Pictured Cliffs				3198		3380
		a			Lewis Shale	#			3027		3551
CASED HOLE					Cliff House	#			1561		5017
GR-CCL-TDT		TDT – TD to			Menefee		# 1298 # 928				5280
CBL	i	Identify 4 1/2"	cement top		Point Lookout		928		5650		
REMARKS:					Mancos				568		6010
- Please report any flares	(magnitud	e & duration)	<b>\</b>								
- 1 loade report any nared	(magnitud	c a daration,	<b>'-</b>								
					TOTAL DEPT	Н			518		6060
					# Probable co		erval	*	ossible	Pav	
S	SPECIAL	TESTS			DRILL CUT						TIME
TYPE				-	FREQUENCY DEPTH			ES DRILLING TIME FREQUENCY DEPTH			
None					)				olograph 0-TD		
REMARKS:				1						•	
MUD PROGRAM:			<del>.</del> .							<del></del> -	
Approx. Interval		Type Mud	Weight	#/ga	Vis, sec/qt	W// 00	's/30 mi	n	Othor (	enaai	fication
0 - 120		Spud	8.6-9.2		Vis, seciqu	W/L CC	5/30 1111	1	Other .	speci	ncation
120 - 2978	(1)	Water/LSN				<6					
2978 - 6060	\''/	Gas/Air/N2			icient to mair	•	lo and a	loon	wallbar	_	
REMARKS:		CasiAiiii	ZAVIISC VOIGIT	ie sun	icient to man	itairi a Stat	ile and ci	ean	wellbol	<u> </u>	<del></del>
(1) The hole will require	2 CWAANS	to keen unk	naded while fre	sh wa	ter drilling 1	et hale car	ditions o	lictat	o frogue	2001	
(1) The note will require	. awccpa	to keep and	Jacca Willie He	SII Wa	ter triming. L	et noie coi	iuiuoris c	iiciai	e irequi	ency.	
CASING PROGRAM: (	Mormally to	ibular goods a	llocation letter and	oifiac ac	noing pizos to be	augad Hala	ما النب مين			<u> </u>	
Casing String	Fetima	ted Depth	Casing Size		rade	Weight	Hole S				
Surface/Conductor	Louna	120	9 5/8		-40 ST&C					ily F	, Cmt, Etc.
Intermediate 1		2978			K-55 ST&C	32#	ł	.25"	1 .		
Production Liner		6060	4 1/2	1	N-00 31&C 55	20# 10.5#		.75" .25"	1,2 -		
REMARKS:		0000	4 1/2	2 ] ]-		10.5#	. 0	.25	3		<del></del>
(1) Circulate Cement to	Surface										
(2) Set casing 50' abov		d Cool									
(3) Bring cement 100' a											
CORING PROGRAM:	above / s	snoe									
None COMPLETION PROGR	) A 3.0.								······································		
		Lhidrontia C									
Rigless, 3-4 Stage Limit		nyuraulic Fi	rac								
GENERAL REMARKS:			DOD 44"	^	-1						
Notify BLM/NMOCD 24	nours pri	or to Spud,									<del></del> ··
Form 46 Reviewed by:				oggin	g program re	eviewed by:	N//	٩			
PREPARED BY:		APPR	OVED:		DATE:						
									i		
HGJ/MNP					28 <sup>th</sup> Fell Version						

#### 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 these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.
- 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 zone.
- 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 Mesaverde Formation Pressure Control Equipment

#### **Background**

The objective Mesaverde 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. No abnormal temperature, pressure, or Hydrogen Sulfide gas is 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 head.

All ram type preventers and related control equipment will be hydraulically tested to 250 PSI (low pressure) and 750 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 at the appropriate intervals