# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

DIDEALORIAND	( , ) ( , O D) ( D) ( D)				
BUREAU OF LAND N	5. Lease Serial No. NMSF 078319 - A				
APPLICATION FOR PERMIT	FO DRILL OR REENTER	6/9f Indian, Allottee or Tribe I	Name		
la. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, N	lame and No.		
lb. Type of Well: ☐ Oil Well	ner ☑ Single Zone ☐ Multiple Zone	Lease Name and Well No.     BARRETT LS 1C			
	MARY CORLEY E-Mail: corleym@bp.com	9. API Well No. 30-045-310	クスフ		
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 Explorat BLANCO MESAVERD	tory		
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and	d Survey or Area		
At surface NENW Lot 6 190FNL 810F	WL 36.52600 N Lat, 107.49500 W Lon	Sec 30 T31N R9W Me	•		
At proposed prod. zone NENW Lot 6 190FNL 1040		C	a trivir		
<ol> <li>Distance in miles and direction from nearest town or post of 12 MILES FROM AZTEC, NEW MEXICO</li> </ol>	office*	12. County or Parish SAN JUAN	13. State NM		
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ol>	16. No. of Acres in Lesson	17. Spacing Unit dedicated to	this well		
> 810	309.09 MAY 2002	309.09			
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depti	20. BLM/BIA Bond No. on file	e		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6538 GL	22. Approximate date work will start 04/20/2002	23. Estimated duration 6 DAYS			
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3	24. Attachments	NG OPERATIONS AUTHOR			
The Anowing completed in accordance with the requirements o	SUBJECT TO	CT TO COMPLIANCE WITH	H ATTACHED		
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached in	o 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 Off</li> </ol>	em Lands, the South Step 1 Step 20 above).	tions unless covered by an existing to information and/or plans as may be	·		
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 03/19/2002		
Title AUTHORIZED REPRESENTATIVE					
Approved by (Signature)_	Name (Printed Typed) Ch. D. Harraden		Date 5/16/07		
Title Geologist PMT	Office BLM +FO				
Application approval does not warrant or certify the applicant he operations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject	lease which would entitle the applic	cant to conduct		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, t States any false, fictitious or fraudulent statements or representat	nake it a crime for any person knowingly and willfully ions as to any matter within its jurisdiction.	to make to any department or agen	cy of the United		

Additional Operator Remarks (see next page)

Electronic Submission #10826 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

HOLD C104 FOR Directional Survey

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

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 - 3 Copies

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

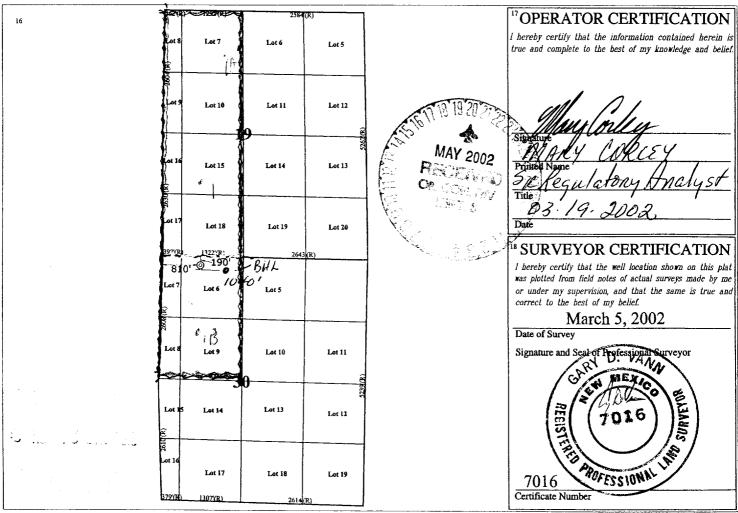
<sup>1</sup> API Numbe	r_	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name			
30-045-	3/037	72319	BLANCO MESAVERDE			
Property Code		5	Property Name	Well Number		
000 305	Barrett LS					
1 OGRID No.		•	<sup>9</sup> Elevation			
000778	BP	6538				

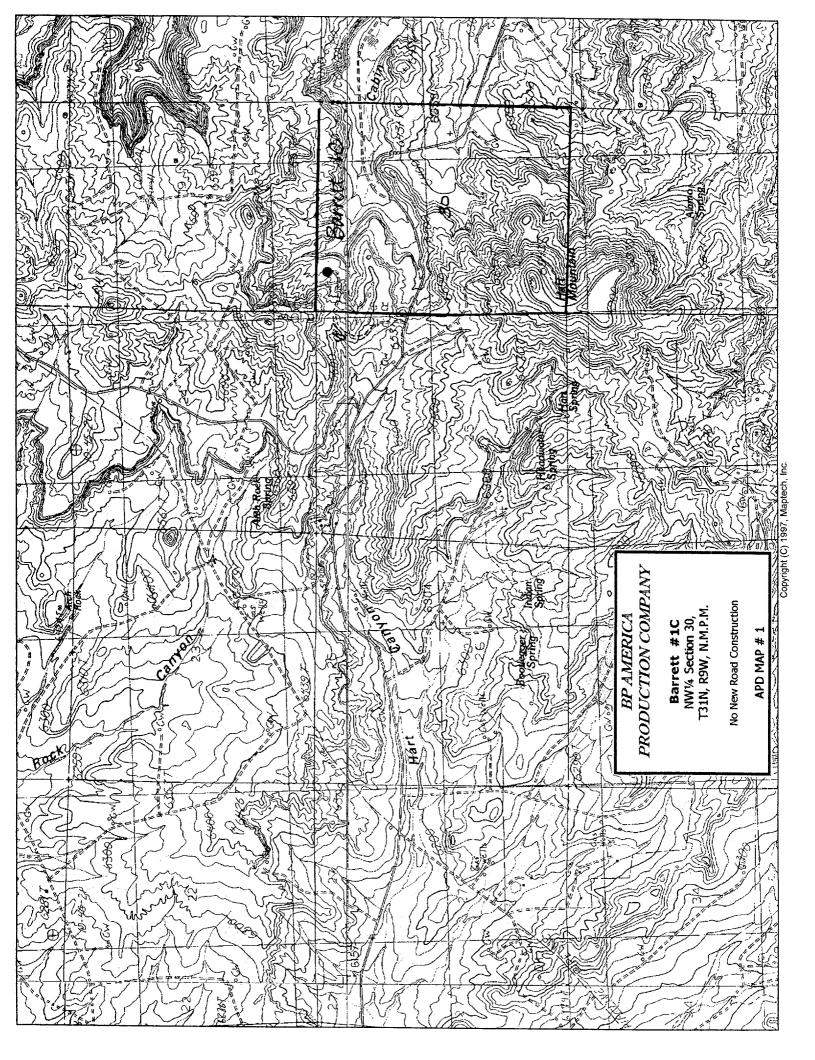
Surface Location

OL OI LOUNG.	Section	Township	Kange   Lot tun		reet from the		reet from the	1545U West line	County	
C (Lot 6)	30	31 N	9 W		190	NORTH	810	WEST	SAN JUAN	
" Bottom Hole Location If Different From Surface										
<sup>1</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
6	30	311	900		190	NORTH	1040	West	SANJUAN	
12 Dedicated Acre	g 13 Toin	t or Infill 4	Consolidatio	n Code 15	Order No					

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





# **BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM**

Prospect Name: Barrett LS

Lease: Barrett LS

Well No: 1C

Surface Location: 30-31N-9W, 190 FNL,810 FWL

County: San Juan

Field: Blanco Mesaverde

Bottom Location: 30-31N-9W, 190FNL, 1040 FWL

State: New Mexico **Date:** March 19, 2002

OBJECTIVE: Drill 50' belo	ow the base	of the Manco	s Shale, set 41/2'	productio	n liner, Stimula	ite LS, CH, N	IF and PL	intervals				$\neg$
METHOD OF DRILLING					APPROXIMATE DEPTHS OF GEOLOGICAL MARKER							
TYPE OF TOOLS	DEPTH OF DRILLING				Estimated				nated I		3552	
Rotary	(	0 - TD			MARKER			TVD	T		S. DEPTI	
	OG PRO	GRAM		0	jo Alamo				1896	1 <b>4</b> 11, (	ים . 190	
					, irkland				2080		209	
				F	ruitland				2772		279	
TYPE	1	DEPTH INVE	RAL	F	ruitland Coal	*			2976		299	
<u>OPEN HOLE</u>					ictured Cliffs	*		:	3315		333	
None					ewis Shale	#			3500		351	
					liff House enefee Shale	# #			4824		484	
CASED HOLE					oint Lookout	9   #			5197 5576		521	
GR-CCL-TDT	-	TDT – TD to	7" shoe	1	ancos	, m			5931		559 594	
CBL	l	dentify 4 1/2"	cement top								00-	ر ا
SELLENO.												
REMARKS:	( '4 I	- 0 -1 1										
- Please report any flares	(magnitud	e & duration)	).						ŀ			
									}			
				<del> </del>	OTAL DEPTH				5004			=
							enval		5981	Davi	599	19
9	PECIAL	TESTS			# Probable completion interval			PC	ssible DRILI		TIBAT	$\dashv$
TYPE	LOIAL	12010			DRILL CUTTING SAMPL FREQUENCY DEPTH			EDE				-
None				1	one		ion hole		QUEN graph	C Y	DEPTH	
REMARKS:			<del></del>		JIIC	- 1100000	.ion noie	Georg	grapn		0-TD	_
reliand acco.				1								
MUD PROGRAM:	<del></del>											
Approx. Interval	ı	Type Mud	Weigh	t. #/na   \	/is, sec/qt	W//L 00	s/30 mir		4h a C		4:	ı
0 - 120		Spud	8.6-9		ris, secret	WIL CC	5/30 11111	<u> </u>	mer 5	ресш	cation	
120 - 2944	(1)	Water/LSN				<6						
2944 - 5999	`''	Gas/Air/N2			ent to maint		le and al	oon w	allbara			
REMARKS:		0007 117712		ic ourno	che to main	lairi a Stab	ie and ci	call w	SIIDOLE		····	$\dashv$
(1) The hole will require	sweeps	to keep unk	paded while fre	esh wate	r drilling Le	et hole con	ditions d	ictate	frenue	nev		
, , , , , , , , , , , , , , , , , , , ,				, , , , , , , , , , , , , , , , , , ,	. Grilling. Ec	)	antionio a	iciale	псчис	ilcy.		
CASING PROGRAM: (I	Normally, tu	ıbular goods al	llocation letter spe	cifies casi	na sizes to be	used Hole	sizes will h	e nover	ned by (	ontrac	1	$\dashv$
Casing String	Estima	ted Depth	Casing Size	Gra		Weight	Hole Si				, Cmt, Etc	.
Surface/Conductor		120	9 5/		O ST&C	32#			<u> </u>	<u>19 1 t,</u>	Cint, Ett	<u></u>
Intermediate		2944		4	55 ST&C	20#		75"				
Production Liner		5999	4 1/			10.5#			3,4			
REMARKS:				<u> </u>					<u> </u>			$\dashv$
(1) Circulate Cement to	Surface											
(2) Set casing 50' above												1
(3) Bring cement 100' a	bove 7" s	hoe										
(4) 100' Overlap		<del> </del>										
CORING PROGRAM:					· · · · ·							$\neg$
None						<del> </del>						
COMPLETION PROGR												$\neg$
Rigless, 3-4 Stage Limit	ed Entry I	Hydraulic Fr	ac	- 11.								
GENERAL REMARKS:		_									-	
Notify BLM/NMOCD 24	hours pric	or to Spud, I										
Form 46 Reviewed by:				ogging	program rev	viewed by:	N/A	\				$\neg$
PREPARED BY:		APPR	OVED:		DATE:							ヿ
				19 <sup>th</sup> March 2002								
HGJ/MNP Form 46 12-00 MNP					Version 1	1.0						_ 1

### 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  $\frac{1}{2}$ " 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**

### <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 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