Form 3160-3

FORM APPROVED

(August 1999)  UNITED S' DEPARTMENT OF BUREAU OF LAND	OMB No. 1004-0136 Expires November 30, 2000  5. Lease Serial No. SF - 078039				
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tri	be Name		
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreemen	t, Name and No.		
1b. Type of Well: 🔲 Oil Well 🔀 Gas Well 🔲 Ot	her Single Zone Multiple Zone		0.		
2. Name of Operator Contact BP AMERICA PRODUCTION COMPANY	: MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No.	31740		
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 Expl BASIN DAKOTA/BL	oratory		
4. Location of Well (Report location clearly and in accord	lance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area		
At surface NWNE Lot B 955FNL 240 At proposed prod. zone	0FEL 36.57600 N Lat, 107.58600 W Lon	Sec 27 T32N R11W	Mer NMP		
14. Distance in miles and direction from nearest town or post 16 MILES TO AZTEC, NEW MEXICO	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) 955	16. No. of Acres in Leage 320.00 JUL 2003	17. Spacing Unit dedicated	to this well		
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>1300</li> </ol>	7900 MD OIL CONS. DIV.	BLM/BIA Bond No. on WY2924	file		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6505 GL	22. Approximate date work will start 09/01/2003	23. Estimated duration 7 DAYS			
	24. Attachments				
<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 Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	4. Bond to cover the opera Item 20 above).  5. Operator certification	to this form: tions unless covered by an existi- information and/or plans as may			
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 06/25/2003		
Title AUTHORIZED REPRESENTATIVE			. <del></del>		
Approved by (Signature) Mankiewicz	Name (Printed/Typed)		JUL 1 4 2003		
Title	Office		1		
Application approval does not warrant or certify the applicant h operations thereon.  Conditions of approval, if any, are attached.	I olds legal or equitable title to those rights in the subject	t lease which would entitle the ap	oplicant 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	make it a crime for any person knowingly and willfully tions as to any matter within its jurisdiction.	y to make to any department or a	gency of the United		

Additional Operator Remarks (see next page)

Electronic Submission #23656 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is subject to technical and procedural feview pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

District I PO Box 1980, Hobbs NM 88241-1980 District II

1000 Rio Brazos Rd., Aztec, NM 87410

District III

District IV

Energy, Minerals & Natural Resources Department PO Drawer KK, Artesia, NM 87211-0719

Form C-102 Revised February 21, 1994 Instructions on back

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

State of New Mexico

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

PO Box 2088, Santa Fe, NM 87504-2088

		WE	LL LO	CATION	I AND	ACRE	EAGE DEDIC	ATIC	N PLA	AT		
ウィッグ	API Number	1/2		Pool Cod		0	. / ).		Pool i		11	* * * *
30-04		740	1115	<u> 1957</u>	2319	Property !	15/A DAKO 7	A_	2 BC	ANCO	148	SAVELOE Well Number
000 29		В	arnes	A		• •						# 18M
OGRID :	No.	Operator Name Selevation										
00011	8								6505			
		<sup>10</sup> Surface Location										
UL or Lot No.	Section 27	Township	Range 11 W	Lot Idn	Feet from		North/South line	Feet from the Rast/We 2400 EA		1	ST SAN JUA	
В	41	32 N	L	om Hol			NORTH Different From	L		LA	201	BAIN OUTEN
7 UL or lot no.	Section	Township	Range	Lot Ida	Feet from		North/South line		urrace  eet from the   East/West lit			County
Dedicated Acre	s <sup>13</sup> Ioin	t or Infill 14	Consolidation	n Code 15	Order No.		<u> </u>	<b>4.</b>	***************************************	<u></u>		
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<b>X</b>								χ	I hereby c	ertify that th	e informa	tion contained herein is
X				995				8	true and c	complete to th	e best of	my knowledge and belief.
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l <b>X</b>						19.	المعالمة المالية	X)	Date			
	***	2222	~~~	97	2222	2	~~~~		" SUR	VEYOR	CER	TIFICATION
230				4/				5292				ation shown on this plat tual surveys made by me
										my supervision the best of		at the same is true and
	-			l						May		
				1					Date of S	•		
									Signature	and Seal of	B. W	ind-Surveyor
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Certificate Number

# BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

OBJECTIVE: Drill 210' below the top of the Upper Two Wells (DKOT), set 41/2" production casing, Stimulate CH, MF, PL and DK intervals

Prospect Name: Barnes A

Lease: Barnes A

Well No: 18M

**Surface Location:** 27-32N-11W, 995 FNL, 2400 FEL

Field: Blanco Mesaverde/Basin Dakota

County: San Juan State: New Mexico Date: June 6, 2003

MFT	HOD OF DRILLIN	G	APPROXIM	ATE DEP	THS OF (	GEOLOGIC	ΔΙ Μ	ARKFR	
TYPE OF TOOLS				Estimated GL: 6505					
Rotary	0 - TD		MARKER			SUBSEA		TVD.	
	OG PROGRAM	Ojo Alamo	`		4547'	ł	1972'		
_	Kirkland	1		4342'		2177'			
			Fruitland			3894		2625'	
TYPE	DEPTH IN	Fruitland Coa			3681'		2838'		
OPEN HOLE			Pictured Cliffs			3265'	į	3254'	
none			Lewis Shale	#		3090'		3429'	
			Cliff House	#		1756'		4763'	
			Menefee Sha			1358'		5161'	
CASED HOLE			Point Lookout	t   #	1	998,		5521'	
GR-CCL-TDT		to 7" shoe	Mancos			661'		5858'	
CBL	Identify 4	½" cement top	Greenhorn			-1052'		7571'	
DEMARKS			Bentonite Ma	1	<b>\</b>	-1102'	1	7621'	
REMARKS:	/maanituda 9 durati	nn)	Two Wells	#		-1171' -1246'		7690' 7765'	
- Please report any flares	(magnitude & duratio	וון.	Paguate Cubero Uppe			-1246 -1287'		7765 7806'	
			Cubero Coppe			-1207 -1317'		7836'	
			TOTAL DEPT		_	-1381'		7900'	
			# Probable co		 lerval	* Possible	Pav	,,,,,	
	PECIAL TESTS		DRILL CUT				LING	TIME	
TYPE	PECIAL ILOIS		FREQUENC			FREQUEN		DEPTH	
None			none		tion hole	Geolograph		0-TD	
			1 110110			Coologiapi	<u>'</u>	0.15	
			·						
REMARKS:									
REMARKS:	Type M	ud   Weight, #/g	a   Vis, sec/qt	W/L co	's/30 mii	n Other	Speci	fication	
REMARKS:  MUD PROGRAM: Approx. Interval	Type M Spud	ud Weight, #/g 8.6-9.2	ıa   Vis, sec/qt	│ W/L co	's/30 mii	n Other	Speci	fication	
REMARKS:  MUD PROGRAM: Approx. Interval	Spud	8.6-9.2	ıa ∣ Vis, sec/qt	<b>W</b> /L cc	.'s/30 mii	n Other	Speci	fication	
MUD PROGRAM: Approx. Interval 0 - 200	Spud (1) Water/L	8.6-9.2 SND 8.6-9.2	ua	<6				fication	
MUD PROGRAM: Approx. Interval 0 - 200 200 - 3529 3529 - 7900	Spud (1) Water/L	8.6-9.2 SND 8.6-9.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<6				fication	
MUD PROGRAM: Approx. Interval 0 - 200 200 - 3529 3529 - 7900 REMARKS:	(1) Spud Water/L Gas/Air	8.6-9.2 SND 8.6-9.2 (N2/Mist Volume s	ufficient to mair	<6 ntain a stal	ole and c	lean wellbor	'e		
REMARKS:  MUD PROGRAM: Approx. Interval 0 - 200 200 - 3529 3529 - 7900 REMARKS: (1) The hole will require	(1) Spud Water/L Gas/Air sweeps to keep to	8.6-9.2 SND 8.6-9.2 (N2/Mist Volume s	ufficient to main	<6 ntain a stal Let hole co	ole and c	lean wellbor dictate frequ	e uency.		
REMARKS:  MUD PROGRAM: Approx. Interval 0 - 200 200 - 3529 3529 - 7900  REMARKS: (1) The hole will require CASING PROGRAM: (1)	(1) Spud Water/L Gas/Air sweeps to keep u Normally, tubular good	8.6-9.2 SND 8.6-9.2 (N2/Mist Volume sunloaded while fresh sallocation letter specifie	ufficient to main water drilling.	<6 ntain a stat Let hole co	ole and cl	lean wellbor dictate freque governed by	e uency. Contrac	ct)	
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MUD PROGRAM: Approx. Interval 0 - 200 200 - 3529 3529 - 7900 REMARKS: (1) The hole will require CASING PROGRAM: (I) Casing String Surface/Conductor Intermediate 1	Spud (1) Water/L Gas/Air, e sweeps to keep u Normally, tubular good Estimated Dept	8.6-9.2 SND 8.6-9.2 /N2/Mist Volume sunloaded while fresh allocation letter specifie h Casing Size 0 9 5/8" 9 7"	water drilling. s casing sizes to be Grade H-40 ST&C J/K-55 ST&C	<6 ntain a state Let hole co used. Hole Weight 32# 20#	onditions sizes will b Hole S	dictate freque governed by ize   Land   3.5"   1,75"   1,2	e uency. Contrac	ct)	
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# **BP America Production Company BOP Pressure Testing Requirements**

Well Name: Barnes A

County: San Juan

18M

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1972		
Fruitland Coal	2838		
PC	3254		
Lewis Shale	3429		
Cliff House	4763	500	0
Menefee Shale	5161		
Point Lookout	5521	600	0
Mancos	5858		
Dakota	7690	2600	1449

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

Requested BOP Pressure Test Exception: 1500 psi

SAN JUAN BASIN **Dakota Formation Pressure Control Equipment** 

#### **Background**

The objective Dakota 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 Basin Dakota. 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.