Form 3160-3 (August 1999) UNITED ST	2/81 1 /0 /2/4	FORM APPR OMB No. 100 Expires Novembo	04-0136
DEPARTMENT OF T BUREAU OF LAND I		5. Lease Serial No. SF 078096	
APPLICATION FOR PERMIT	TO DRILL OR REENTER 2009	6. If Indian, Allottee or Tribe	Name
1a. Type of Work: 🛛 DRILL 🔲 REENTER	Contraction of the second	7. If Unit or CA Agreement,	
1b. Type of Well: Oil Well 🔀 Gas Well 🔲 Otl	ner Single Zone Multiple Zone	Lease Name and Well No.     MUDGE B 10 M	
BP AMERICA PRODUCTION COMPANY	CHERRY HLAVA E-Mail: hlavacl@bp.com	9. API Well No. 30-045-3	7367
3a. Address P.O. BOX 3092 HOUSTON, TX 77253-3092	3b. Phone No. (include area code) Ph: 281.366.4081	10. Field and Pool, or Explor BASIN DK & BLANCO	
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. a	and Survey or Area
At surface NESE 1630FSL 830FEL 30 At proposed prod. zone	6.54600 N Lat, 107.59400 W Lon	Sec 9 T31N R11W M	ler NMP
14. Distance in miles and direction from nearest town or post 7.2 MILES NORTH FROM AZTEC	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) 830'</li> </ol>	16. No. of Acres in Lease	17. Spacing Unit dedicated to 319.80 3)0 E	o this well
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>1200¹</li> </ol>	19. Proposed Depth 7353 MD	20. BLM/BIA Bond No. on f WY2924	ile
21. Elevations (Show whether DF, KB, RT, GL, etc. 6026 GL	22. Approximate date work will start 07/25/2004	23. Estimated duration 7 DAYS	
:	24. Attachments	<u> </u>	
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to	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 Of</li> </ol>	Item 20 above).  Some Lands, the Some Lands, t	ons unless covered by an existing formation and/or plans as may b	
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA		Date 05/21/2004
Title REGULATORY ANALYST			
Approved by (Signature)	Name (Printed/Typed)		Date

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #30956 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is subject to technical and procedural viview pursuant to 43 CFR 3185.3 and aprical cursuant to 43 CFR 3185.4

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

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

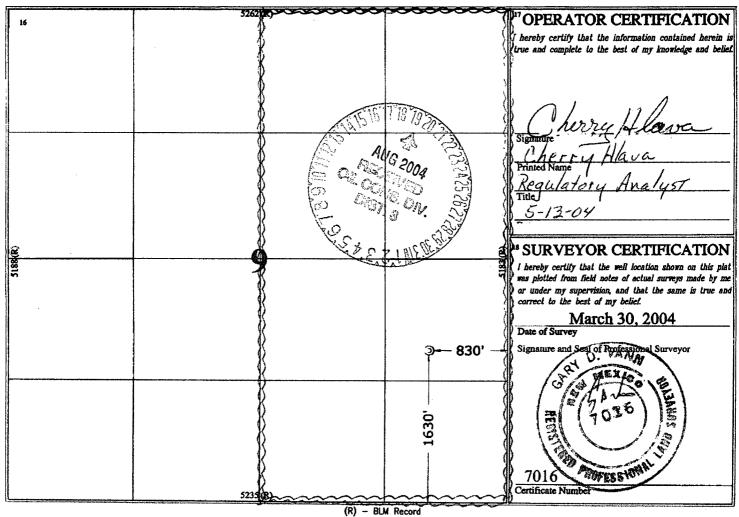
API Number	r	Pool Code			Pool Name	
30-045-32	367	71599	72359	Basin Dakota ;	Blanco Mesaverdo	0
Property Code	•		3 3	Property Name	Well Number	
000906	Mı	ıdge	В	,	# 10M	ſ
7 OGRID No.			1 (	Operator Name	* Elevation	
000778	BP	AMERIC	CA PROD	UCTION COMPANY	6026	
			4.00			

# <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
I	9	31 N	11 W		1630	SOUTH	830	EAST	SAN JUAN
"Bottom Hole Location If Different From 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 Joint or Infill 14 Consolidation Code 15 Order No.									
319-80	320			į					

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

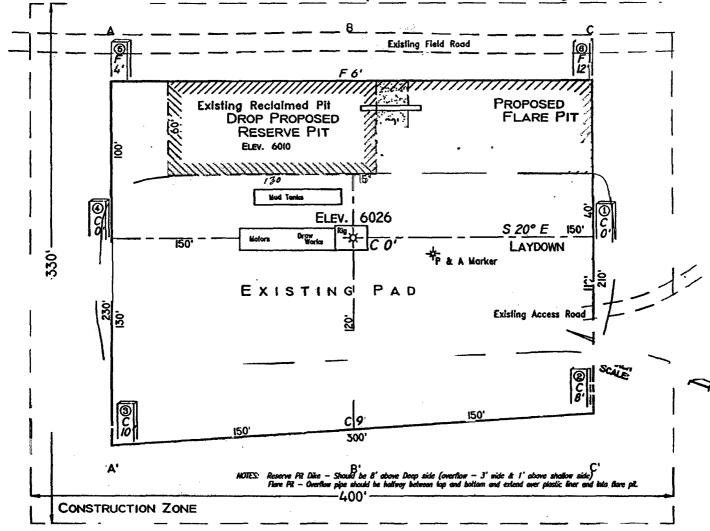


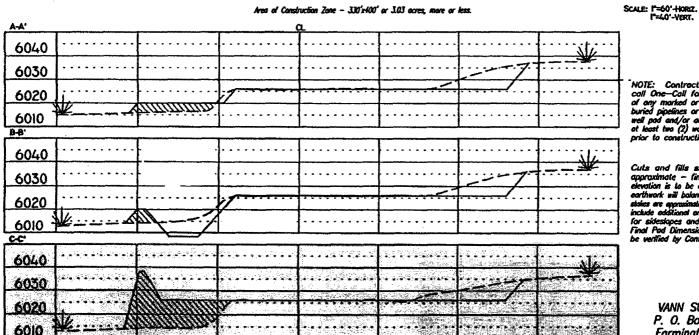
Submit 3 Copies To Appropriate District	State of New M	exico	_	Form C-1	.03	
Office District I	nergy, Minerals and Nat	ural Resources _		March 4, 20	004	
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.			
District II	OII CONSEDUATION	IDIVISION	N	EW WELL		
1501 W. Grand 2110., 7110512, 1117 60210				5. Indicate Type of Lease		
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.			FEE	l l	
District IV	Santa Fe, NM 8	7505	6. State Oil & G	as Lease No.		
1220 S. St. Francis Dr., Santa Fe, NM						
87505						
	ND REPORTS ON WELLS			or Unit Agreement Name	e	
(DO NOT USE THIS FORM FOR PROPOSALS TO DIFFERENT RESERVOIR. USE "APPLICATION"		OD OTTOTT		Mudge B	}	
PROPOSALS.)	TORTERIMIT (FORM C-101)			n BLM 5/20/04 SF		
1. Type of Well:		<u></u>	078194)	·····		
Oil Well Gas Well Other	1	8. Well Number	•			
			10 M			
2 Name of Owenton			OCDID Norm	L		
2. Name of Operator BP AMERICA PRODUCTION CO		-	9. OGRID Num	.bei		
			10. Pool name o	XX/1.1.a.4		
3. Address of Operator	2074				-	
P.O. BOX 3092 HOUSTON, TX 77079-	-2004		basin Dakota &	Blanco Mesaverde		
4. Well Location						
Unit Letter I: 1630 feet	from the <u>SOUTH</u>	line and <u>830</u>	feet from the EA	STline		
S4: 0	T	Dan 11337	NIMEDIA C	ANT WITANI Commen		
		Range 11W	NMPM S	SAN JUAN County		
	levation (Show whether DR		NEW L			
Pit or Below-grade Tank Application (For pit or be	602		1.50			
					- 1	
Pit Location: UL I Sect 9 Twp 31N Rng	_11W_ Pit type_Drilling_Dep	th to Groundwater <u>&gt;100°</u>	_Distance from nea	arest fresh water well <u>&gt;1000'</u>	_	
Distance from nearest surface water_>1000' Be	elow-grade Tank Location UL	I Sect 9 Twp 311	N Rng 11W	:	1	
				······································		
1800 4 4 0 00000000000000000000000000000						
1720 feet from the SOUTH line and 960	feet from the <u>EAST</u> line PL	EASE SEE ATTACHED	PAD LAYOUT			
1720 feet from the SOUTH line and 960	feet from the <u>EAST</u> line PL	EASE SEE ATTACHED	PAD LAYOUT			
				r Data	_	
12. Check Approp	riate Box to Indicate N	Nature of Notice, R	eport or Other			
12. Check Approp	riate Box to Indicate N	Vature of Notice, R	eport or Other	PORT OF:	_	
12. Check Approp	riate Box to Indicate N	Nature of Notice, R	eport or Other			
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# PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY B #10M

Mudge 1630'/F/SL 830' F/EL SEC. 9, T31N, R11W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

36°54'36" Lat: Long: 107°59'22" FLARE PIT S 20° E 150' LAYDOWN Scile





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 eurinum: will palance. Corner stales 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



Prospect Name: Mudge B

Lease: Mudge

County: San Juan State: New Mexico Well No: 10 M

Surface Location: 9-31N-11W, 1630 FSL, 830 FEL

**Bottom Location:** 

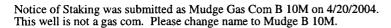
Field:

Blanco Mesaverde/Basin Dakota

Date: May 7, 2004

METHOD C	top of the I wo W	ells; set 41/2" production	on casing. Sumulai	te CH, MF. Pl	_ and DK int	ervais	
,						**	AL MARKER
TYPE OF TOOLS	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER Estimated GL: 6026 Estimated KB: 6040						
	DEPTH OF 0 - TD	Dritting	MARKER		MD	Subsea	MD/TVD
Rotary			Ojo Alamo	י ו			1614'
LOG PA	ROGRAM		Kirkland			11120	1689'
			Fruitland		,	4001	2039'
ТҮРЕ	DEDTH INT	:DVAI	Fruitland Coa	.   *	,		2316'
OPEN HOLE	DEPTH INTE	TVAL	Pictured Cliffs	E .	,	0, - 1	2710'
None			Lewis Shale	'   #	,		2958'
			Cliff House	#	,	1882	4158'
İ			Menefee Sha		,		4558'
CASED HOLE			Point Lookou			1144	4896'
GR-CCL-TDT	TDT - TD to	7" shoe	Mancos			799	5241'
CBL	Identify 4 1/2"	cement top	Greenhorn	1	'	-964	7004'
			Bentonite Ma	rker		-1018	7058'
REMARKS:			Two Wells	#			7113'
- Please report any flares (magnit	ude & duration)	•	Paguate	#		,,,,,	7200'
			Cubero Uppe		'	.,.,	7231'
			Cubero Lowe				7254'
			Encinal Cany		_	-1254	7294'
			TOTAL DEPT		'	1010	7353'
			# Probable co			* Possible	
	AL TESTS		DRILL CUT				LING TIME
TYPE			FREQUENC			FREQUEN	
None			10'	3058' -	TD	Geolograph	0-TD
REMARKS:							
<u> </u>							
MUD PROGRAM:				ų			
Approx. Interval	Type Mud	Weight, #/g	a   Vis, sec/qt	W/L cc	's/30 min	Other 9	Specification
0 - 120 200	Spud	8.6-9.2	1	1 :::= 00			
120 - 3058 (1)	Water/LSN			<6			
3058 - 7353	Gas/Air/Na		sufficient to mair	_	and cla	an wellhor	۵
REMARKS:	J Gas/All/14	E/MIGE VOIGITIES	dinoient to man	itani a stat	no and on	Sair Wellbon	
DEIVIADAS.							
(1) The hole will require eween	s to koop unk	adad while frach	water drilling L	at hala aar	aditione di	otata frague	onov
(1) The hole will require sweep							
CASING PROGRAM: (Normally	y, tubular goods a	llocation letter specifie	s casing sizes to be	used. Hole	sizes will be	governed by	Contract)
CASING PROGRAM: (Normally Casing String Estin	y, tubular goods a <b>nated Depth</b>	llocation letter specifie Casing Size	s casing sizes to be <b>Grade</b>	used. Hole : <b>Weight</b>	sizes will be Hole Siz	governed by c	
CASING PROGRAM: (Normally Casing String Estin	y, tubular goods a nated Depth 2001 <del>20</del>	llocation letter specifie Casing Size 9 5/8"	s casing sizes to be <b>Grade</b> H-40 ST&C	used. Hole : Weight 32#	sizes will be Hole Siz 13	governed by ce Landi .5" 1	Contract)
CASING PROGRAM: (Normally Casing String Estin Surface/Conductor Intermediate 1	y, tubular goods a nated Depth 200126 3058	llocation letter specifie Casing Size 9 5/8" 7"	s casing sizes to be <b>Grade</b> H-40 ST&C J/K-55 ST&C	wsed. Hole: Weight 32# 20#	sizes will be Hole Siz 13	governed by 6 ze Landi .5" 1 75" 1,2	Contract)
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## **Additional Operator Remarks:**



BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 7353'. Complete in the Basin Dakota Pool, isolate the Dakota; complete into the Blanco Mesaverde, establish a production rate; drill out the bridge plug and commingle production downhole.

Application for Downhole Commingling authority (NMOCD order R-11363) will be submitted to all appropriate for approval after Permit to Drill has been approved.

#### SUPPLEMENTAL TO SURFACE USE PLAN

#### New Facilities:

A 4" 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.

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 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 we will follow the approved cement program.



Well Name:

Mudge B

10 M

County:

San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1614		
Fruitland Coal	2316		
PC	2710		
Lewis Shale	2958		
Cliff House	4158	500	0
Menefee Shale	4558		
Point Lookout	4896	600	0
Mancos	5241		
Dakota	7113	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**

#### <u>Interval</u>

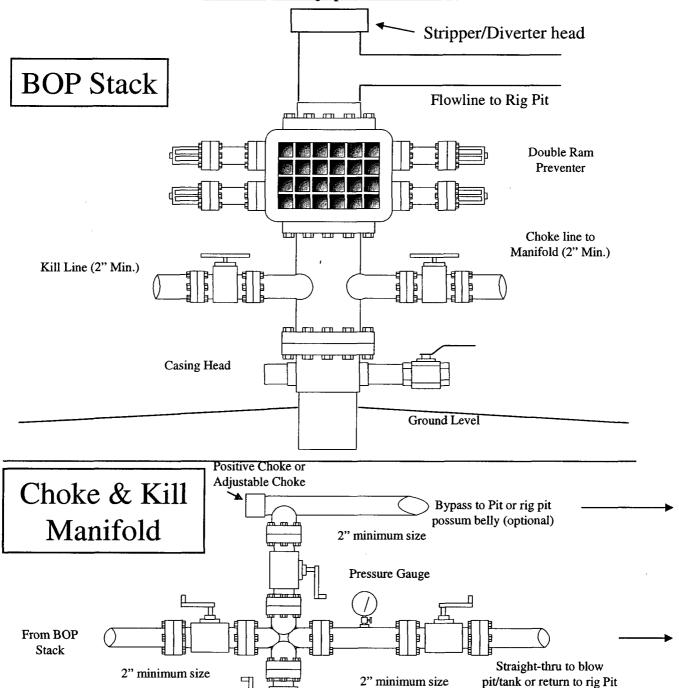
#### **BOP Equipment**

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 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