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

5. Lease Serial No.

	· · · · · · · · · · · · · · · · · · ·	SF - 078040	
APPLICATION FOR PERM	MIT TO DRILL OR REENTER	6. If Indian, Allottee or T	ribe Name
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreeme	ent, Name and No.
		8. Lease Name and Well	No.
, – –	Other Single Zone Multiple Zone	MUDGE A 11M	
2. Name of Operator Company BP AMERICA PRODUCTION COMPANY	ntact: MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No.	31378
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 Ex BASIN DAKOTA/E	ploratory BLANCO MESAVERD
4. Location of Well (Report location clearly and in ac	ccordance with any State requirements.*)	11. Sec., T., R., M., or Bl	k. and Survey or Area
At surface SENW Lot F 1780FNL At proposed prod. zone	1715FWL 36.54900 N Lat, 107.58900 W Lon	Sec 10 T31N R11V	W Mer NMP
14. Distance in miles and direction from nearest town or 8 MILES TO AZTEC, NEW MEXICO		12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed location to nearest property lease line, ft. (Also to nearest drig. unit line, if any) 745'	or 16. No. of Acres in Lease MAR 2003	17. Spacing Unit dedicate	ed to this well
 Distance from proposed location to nearest well, dril completed, applied for, on this lease, ft. 1300' 	ling, 19. Proposed Depth	20. BLM/BIA Bond No. 6	on file
21. Elevations (Show whether DF, KB, RT, GL, etc. 6118 GL	22. Approximate date work will start 03/30/2003	23. Estimated duration 7 DAYS	
	24. Attachments		
The following, completed in accordance with the requirement	ents of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Fores SUPO shall be filed with the appropriate Forest Service. 	t System Lands, the ce Office). 4. Bond to cover the operation ltem 20 above). 5. Operator certification 6. Such other site specific in authorized officer.		
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 02/06/2003
Title AUTHORIZED REPRESENTATIVE			
Approved by (Signature) Approved by (Signature) Approved by (Signature) Approved by (Signature)	Name (Printed/Typed)		WAR = 7, 200
Title	Office		<u> </u>
Application approval does not warrant or certify the applications thereon. Conditions of approval, if any, are attached.	ant holds legal or equitable title to those rights in the subject le	ease which would entitle the	applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section I States any false, fictitious or fraudulent statements or representations.	212, make it a crime for any person knowingly and willfully to sentations as to any matter within its jurisdiction.	o make to any department or	agency of the United
Additional Operator Remarks (see next page)		

Electronic Submission #18364 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is subject to technical and procedural review 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".

District I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 District III

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088

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

Submit to Appropriate District Office

State Lease - 4 Copies

District IV	Rd., Aztec, I	VM 87410		2	santa Fe,	, NM	87504-2088			Fe	ee Lease - 3 Copies
PO Box 2088, Sa	nta Fe, NM 8	37504-2088								□ am	ENDED REPORT
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* Property	Code				s <u>s</u>	Property 1	Name				Well Number
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(R) - BLM Record

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Mudge A Lease: MUDGE A County: San Juan State: New Mexico

Well No: 11M

Surface Location: 10-31N-11W, 1780 FNL, 1715FWL

Field: Blanco Mesaverde/Basin Dakota

Date: January 27, 2003

L.A.F.			duction casing, Stin	nulate (CH, MF, P	L and D	K intervals		
METHOD OF DRILLING			APPROXIMATE DEPTHS OF GEOLOGICAL MARKER						
TYPE OF TOOLS	DEPTH	Estimate				Estimated			
Rotary	0 - TD	MARKE			Ś	UBSEA	TVD.		
LOG PROGRAM			Ojo Alamo				4419'	17	
			Kirkland			ļ	4271'	18	
			Fruitland				4017	21	
TYPE	DEPTH !!	NVERAL	Fruitland Coa	al	*		3762'	23	
OPEN HOLE		•	Pictured Cliff	s	*		33311	28	
none			Lewis Shale		#		3167'	29	
			Cliff House Menefee Sha	.	# #		1817'	43	
CASED HOLE		•	Point Lookou		#		1507' 1073'	46 50	
GR-CCL-TDT	TDT – TD	to 7" shoe	Mancos	"	π-		760'	53	
CBL		½" cement top	Greenhorn				-971'	71	
			Bentonite Ma	arker			-1018'	71	
REMARKS:			Two Wells		#		-1078'	72	
- Please report any flares	(magnitude & durati	on).	Paguate		#		-1162'	72	
•			Cubero Uppe		*		-1187'	73	
			Cubero Lowe				-1205'	73	
			TOTAL DEP		·	1	-1275'	74	
	SPECIAL TESTS		# Probable co				* Possible		
TYPE	BELCIAL TESTS	•		DRILL CUTTING SAMPLI FREQUENCY DEPTH					
None			none		DEPTH Production	, bole	FREQUEN		
REMARKS:			Hone	··········	10000000	111016	Geolograph	0-TD	
TEMPARO.		•							
MUD PROGRAM:				,					
Approx. Interval	Type M	ud Weight, #/g	12 Min. no. 14	. 144	// 1 - <i>i</i>		م بیما		
0 - 200	Spud	8.6-9.2	a Vis, sec/qt	VV.	<u>/L cc's/</u>	30 min	Other S	pecification	
200 - 3163	(1) Water/L								
		SMI) 86.02		-0	•				
1.3103 - /40/			ufficient to main	<6>		الماست	· · · · · · · · · · · · · · · · ·		
3163 - 7407 REMARKS:			ufficient to mair	_		and cle	ean wellbore		
REMARKS:	Gas/Air	/N2/Mist Volume s		ntain a	stable				
REMARKS: (1) The hole will require	Gas/Air	N2/Mist Volume s	water drilling . 1	ntain a	stable	itions d	lictate freque	ency.	
REMARKS: (1) The hole will require CASING PROGRAM: (Gas/Air	N2/Mist Volume supplies valued while fresh sallocation letter specifies	water drilling. I	ntain a	stable le cond Hole size	itions d	lictate freque	ency.	
REMARKS: (1) The hole will require CASING PROGRAM: (Casing String	Gas/Air	N2/Mist Volume s unloaded while fresh s allocation letter specifie h Casing Size	water drilling. s casing sizes to be Grade	Let ho	a stable le cond Hole size ght H	itions o	lictate freque governed by C ze Landir	ency.	
REMARKS: (1) The hole will require CASING PROGRAM: (Casing String Surface/Conductor	Gas/Air sweeps to keep u Normally, tubular good Estimated Dept	N2/Mist Volume sunloaded while fresh sallocation letter specifies (Casing Size) 9 5/8"	water drilling. s casing sizes to be Grade H-40 ST&C	Let ho used.	e stable ble cond Hole size ght H 32#	itions des will be	lictate freque governed by C ze Landir 25" 1	ency.	
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BP America Production Company BOP Pressure Testing Requirements

Well Name: Mudge A

County: San Juan

11M

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1713		
Fruitland Coal	2370		
PC	2801		
Lewis Shale	2963		
Cliff House	4315	500	0
Menefee Shale	4625		
Point Lookout	5059	600	o
Mancos	5372		
Dakota	7210	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 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.