Form 3160-3 (August 1999)

# UNITED STATES

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

DEPARTMENT OF BUREAU OF LAND	5. Lease Serial No. SF - 078415		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Ot		Lease Name and Well No.     ROELOFS 3M	
2. Name of Operator Contact: BP AMERICA PRODUCTION COMPANY	MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No. 3004531639	
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 Exploratory BASIN DAKOTA/BLANCO MESAVERDE	
4. Location of Well (Report location clearly and in accord  At surface NESE Lot I 2100FSL 660F  At proposed prod. zone	ance with any State requirements.*) EL 36.44300 N Lat, 107,40400 W Lon	11. Sec., T., R., M., or Blk. and Survey or Area  Sec 9 T29N R8W Mer NMP	
<ol> <li>Distance in miles and direction from nearest town or post</li> <li>MILES FROM BLOOMFIELD, NEW MEXICO</li> </ol>		12. County or Parish 13. State SAN JUAN NM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660	16. No. of Acres in Lease 320.00	17. Spacing Unit dedicated to this well  320.00	
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>700</li> </ol>	19. Proposed Depth 7682 MD	20. BLM/BIA Bond No. on file WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc 6456 GL	22. Approximate date work will start 06/28/2003	23. Estimated duration 7 DAYS	
	24. Attachments		
The following, completed in accordance with the requirements of	of 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 Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	Item 20 above). 5. Operator certification	ormation and/or plans as may be required by the	
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY	Date 04/23/2003	
Title AUTHORIZED REPRESENTATIVE			
Approved by (Signature)  /a/ David J. Mankiewicz	Name (Printed/Typed)	Date	
Title	Office	MAY 2 9 2003	
Application approval does not warrant or certify the applicant he operations thereon. Conditions of approval, if any, are attached.	lolds legal or equitable title to those rights in the subject le	ase which would entitle the applicant to conduct	

Additional Operator Remarks (see next page)

Electronic Submission #20970 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 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
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

PO Box 2088, Santa Fe, NM 87504-2088

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## State of New Mexico Energy, Minerals & Natural Resources Department

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

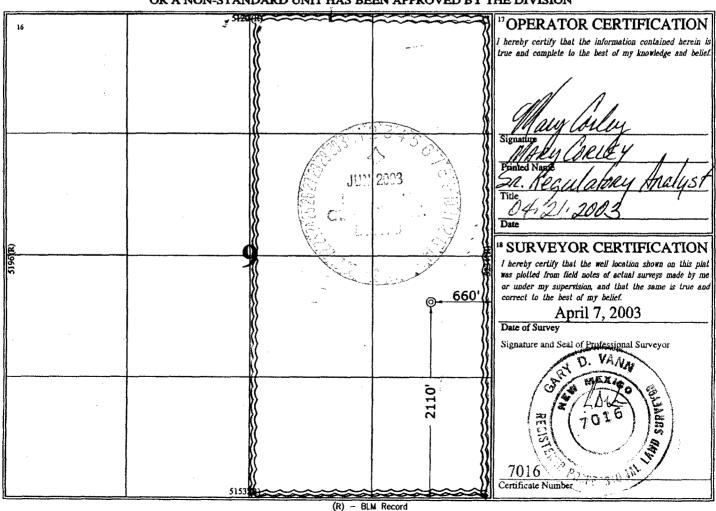
Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

MENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

	'API Number			· Pool Cod	•	, Poel Name				
3004	5-3	31639 71599 & 72319 BASIN DAKOTA & BLANCO MESAVERDE								
Property		5 Property Name								
000 99	0	R	loelofs						# 3M	
OGRID	No.	Operator Name Selevation								
00011	18	BP AMERICA PRODUCTION COMPANY 6456							6456	
<sup>10</sup> Surface Location										
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County	
I	9	29 N	8 W		2110	SOUTH	660	EAST	SAN JUAN	
" Bottom Hole Location If Different From Surface										
	T 62-22-2	70	Dana.	7 Y.A	7	1	12 . 6	Tant Olast line	Country	

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: Roelofs

Lease: Roelofs

County: San Juan
State: New Mexico
Pate: April 8 2003

Well No: 3M

Surface Location: 9-29N-8W, 2110 FSL, 660 FEL

Field: Blanco Mesaverde/Basin Dakota

Date: April 8, 2003

Date: Ap	rii 8, 2003								
OBJECTIVE: Drill 70' be production casing, Stimulate				ne top of the Two W	/ells), if in sa	nd, drill to r	ext underlying sha	ale; set 41/2"	
METHOD OF DRILLING				APPROXIMATE DEPTHS OF GEOLOGICAL MARKER					
TYPE OF TOOLS DEPTH OF DRILLING Rotary 0 - TD				Estimated			Estimated KI		
Rotary	MARKEF	₹	S	UBSEA	TVD.				
LOG PROGRAM				Ojo Alamo		l	4395'	2075'	
ĺ				Kirkland	[		4233'	2237'	
				Fruitland			3795'	2675'	
TYPE	DEPT	LH INVE	RAL	Fruitland Coa	l l		3510′	2960'	
OPEN HOLE				Pictured Cliffs	- 1		3329'	3141'	
none				Lewis Shale	#		3235'	3235'	
				Cliff House	#		1827'	4644'	
0405511015				Menefee Sha		· ·	1537'	4933'	
CASED HOLE	TOT	TD4	7" ahaa	Point Lookou	t   #		1120' 752'	5350' 5719'	
GR-CCL-TDT CBL		- TD to		Mancos Greenhorn			-870'	7340'	
CBL	identi	lly 4 /2 t	cement top	Bentonite Ma	rkor		-929 <sup>'</sup>	7340 7399'	
REMARKS:				Two Wells	#		-974'	7444'	
- Please report any flares	(magnitude & d	uration\		Paguate	"#		-1084'	7554'	
i - 1 leade report any naies	(magintude & u	aradon).	•	Cubero Uppe			-1107'	7577'	
				Cubero Lowe			-1142	7612'	
				TOTAL DEPT			-1212'	7682'	
				# Probable co		terval	* Possible Pa		
S	SPECIAL TES	TS		DRILL CUT				NG TIME	
TYPE	or Longe 120	. •		FREQUENC			FREQUENC		
None				none		ction hole	Geolograph	0-TD	
REMARKS:							- Coolegiapii		
MUD PROGRAM:						<del></del>			
Approx. Interval	Typ	e Mud	Weight, #/g	ıa │Vis, sec/qt	W/L co	c's/30 mi	n  Other Sp	ecification	
0 - 200	Spu	ıd	8.6-9.2						
200 - 3335		ter/LSN	ID 8.6-9.2		<6				
3335 - 7682		s/Air/N2	2/Mist Volume s	ufficient to mair	ntain a sta	ble and c	lean wellbore		
REMARKS:									
(1) The hole will require	sweeps to ke	ep unk	paded while fresh	water drilling.	Let hole co	onditions	dictate frequer	ncv.	
CASING PROGRAM:									
Casing String	Estimated [		Casing Size	Grade	Weight	Hole S		Pt, Cmt, Etc.	
Surface/Conductor									
	1	200 !	9 5/8" 1	H-40 ST&C	32#	1 1	3.5"   1	, , , , , , , , , , , , , , , , , , , ,	
Intermediate 1		200 3335	9 5/8" 7"	H-40 ST&C J/K-55 ST&C	32# 20#		0.0   .		
Intermediate 1 Production		3335	7"	J/K-55 ST&C	20#	8	.75" 1,2		
Production						8			
Production REMARKS:	Surface	3335	7"	J/K-55 ST&C	20#	8	.75" 1,2		
Production REMARKS: (1) Circulate Cement to		3335	7"	J/K-55 ST&C	20#	8	.75" 1,2		
Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into	Lewis Shale	3335	7"	J/K-55 ST&C	20#	8	.75" 1,2		
Production  REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a	Lewis Shale	3335	7"	J/K-55 ST&C	20#	8	.75" 1,2		
Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a CORING PROGRAM:	Lewis Shale	3335	7"	J/K-55 ST&C	20#	8	.75" 1,2		
Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a CORING PROGRAM: None	Lewis Shale above 7" shoe	3335	7"	J/K-55 ST&C	20#	8	.75" 1,2		
Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a CORING PROGRAM: None COMPLETION PROGR	Lewis Shale above 7" shoe	3335 7682	7" 4 1/2"	J/K-55 ST&C	20#	8	.75" 1,2		
Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a CORING PROGRAM: None COMPLETION PROGR Rigless, 3-4 Stage Limit	Lewis Shale above 7" shoe AM: ed Entry Hydr	3335 7682	7" 4 1/2"	J/K-55 ST&C	20#	8	.75" 1,2		
Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a CORING PROGRAM: None COMPLETION PROGR Rigless, 3-4 Stage Limit GENERAL REMARKS:	Lewis Shale above 7" shoe AM: ed Entry Hydr	3335 7682 aulic Fr	7" 4 1/2"	J/K-55 ST&C J-55	20# 11.6#	8	.75" 1,2		
Production  REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a  CORING PROGRAM: None  COMPLETION PROGR Rigless, 3-4 Stage Limit GENERAL REMARKS: Notify BLM/NMOCD 24	Lewis Shale above 7" shoe AM: ed Entry Hydr	3335 7682 aulic Fr	7" 4 1/2" rac BOP testing, and	J/K-55 ST&C J-55	20# 11.6# menting.	8 6	.75"   1,2 .25"   3		
Production  REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a  CORING PROGRAM: None  COMPLETION PROGR Rigless, 3-4 Stage Limit GENERAL REMARKS: Notify BLM/NMOCD 24 Form 46 Reviewed by:	Lewis Shale above 7" shoe AM: ed Entry Hydr	3335 7682 aulic Fr	7" 4 1/2" eac BOP testing, and c	J/K-55 ST&C J-55 Casing and Cen	20# 11.6# menting.	8 6	.75"   1,2 .25"   3		
Production  REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a  CORING PROGRAM: None  COMPLETION PROGR Rigless, 3-4 Stage Limit GENERAL REMARKS: Notify BLM/NMOCD 24	Lewis Shale above 7" shoe AM: ed Entry Hydr	3335 7682 aulic Fr	7" 4 1/2" eac BOP testing, and c	J/K-55 ST&C J-55  Casing and Cerging program re DATE:	20# 11.6# menting.	8 6	.75"   1,2 .25"   3		
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Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into (3) Bring cement 100' a CORING PROGRAM: None COMPLETION PROGR Rigless, 3-4 Stage Limit GENERAL REMARKS: Notify BLM/NMOCD 24 Form 46 Reviewed by: PREPARED BY:	Lewis Shale above 7" shoe AM: ed Entry Hydr	3335 7682 aulic Fr	7" 4 1/2" eac BOP testing, and c	J/K-55 ST&C J-55  Casing and Cerging program re DATE:	20# 11.6# menting. viewed by	8 6	.75"   1,2 .25"   3		
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## **BP America Production Company BOP Pressure Testing Requirements**

Well Name: Roelofs

3M

County: San Juan

State: New Mexico

Formation TVD		Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **		
Ojo Alamo	2075				
Fruitland Coal	2960				
PC	3141	·			
Lewis Shale	3235				
Cliff House	4644	500	0		
Menefee Shale	4933	;			
Point Lookout	5350	600	0		
Mancos	5719				
Dakota	7444	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.