

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

BUREAU OF LAND	5. Lease Serial No. SF - 078049		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Na	ame
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Na	me and No.
1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Oth		8. Lease Name and Well No. HUGHES A 4M	
2. Name of Operator Contact: BP AMERICA PRODUCTION COMPANY	MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No. 30 045 31	415
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 Explorato BASIN DAKOTA/BLANG	TY CO MESAVERD
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and	Survey or Area
At surface SWNE Lot G 2525FNL 196 At proposed prod. zone	60FEL 36.41000 N Lat, 107.39700 W Lon	Sec 34 T29N R8W Mer	NMP
14. Distance in miles and direction from nearest town or post 22 MILES FROM BLOOMFIELD, NEW MEXICO	office* FEB 2003	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) 660	16. No. of Acres in Lease 320.00	Spacing Unit dedicated to the 320.00 E/2	ns well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 900 	19. Proposed Depth 7553 MD	y20. BLM/BIA Bond No. on file WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6501 GL	22. Approximate date work will start 03/08/2003	23. Estimated duration 7 DAYS	······································
	24. Attachments	<u> </u>	
The following, completed in accordance with the requirements of	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 Forest Syst SUPO shall be filed with the appropriate Forest Service Of 	Item 20 above).	ons unless covered by an existing be formation and/or plans as may be re	
25. Signature (Electronic Submission)	Name (Printed/Typed)		pate 01/23/2003
Title AUTHORIZED REPRESENTATIVE			
Approved by (Signature) /s/ David J. Mankiewicz	Name (Printed/Typed)	D	vate
Title	Office	FEB 2	2 4 2003
Application approval does not warrant or certify the applicant ho operations thereon. Conditions of approval, if any, are attached.	lolds legal or equitable title to those rights in the subject le	ease which would entitle the application	ant 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 representations.	make it a crime for any person knowingly and willfully to	o make to any department or agenc	y of the United
Additional Operator Personal Construction			
Additional Operator Remarks (see next page)			

Electronic Submission #17909 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

BRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "BENERAL REQUIREMENTS". This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4

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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

Form C-102

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

☐ AMENDED REPORT

		WE	ELL LO				EAGE DEDIC	ATION	V PLA	\T		
30-04	API Number	1415	1723		ol Code	1599 BA	SIN DAKOT	A È	BL.		MES	AUERDE
¹ Property	Code	1	Tuebas			¹ Property	Name					* Well Number # 4M
000 (C) / No.		Hughes	A		Operator	Name				•	##IVE
1000 77	B	1	BP AM	ERIC	CA	•	ION COMPA	NY				6501
				· · · · · · · · · · · · · · · · · · ·		¹⁰ Surface L	ocation		·			
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¹ UL or lot no.	Section	Township	Range	Lot	Idn	Feet from the	North/South line	Feet fro	um the	East/Wes	t line	County
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BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Hughes A

Lease: Hughes A County: San Juan

Well No: 4M

Surface Location: 34-29N-8W, 2525 FNL, 1960 FEL

Field: Blanco Mesaverde/Basin Dakota

State: New Mexico

Date: December 17, 2002

OBJECTIVE: Drill 50' below the top of the Lower Cubero (DKOT Mbr.), set 41/2" production casing, Stimulate CH, MF, PL and DKOT intervals							
METH	IOD OF DRILLING	APPROXIMATE	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER				
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL:	6501'	Estimated KB:	6515'		
Rotary	0 - TD	MARKER		SUBSEA	TVD		
LOG PROGRAM		Ojo Alamo		4452'	2063'		
TYPE	DEPTH INVERAL	Kirtland		4300'	2215'		
OPEN HOLE		Fruitland		3910'	2605'		
None		Fruitland Coal	*	3679'	2836'		
		Pictured Cliffs	*	3448'	3067'		
		Lewis	#	3246'	3269'		
CASED HOLE		Cliff House	#	1944'	4571'		
GR-CCL-TDT	TDT – TD to 7" shoe	Menefee	#	1679'	4836'		
CBL	Identify 4 1/2" cement top	Point Lookout	#	1244'	5271'		
		Mancos]	803'	5713'		
REMARKS:		Greenhorn		-718	7233'		
- Please report any flares (magnitude & duration).	Graneros		-781'	7296'		
		DKOT/Two Wells	#	-825'	7340'		
		Paguate	#	-923'	7438'		
		U. Cubero	#	-962'	7477'		
Special Tests		L. Cubero	#	-988'	7503'		
Tests: none		TOTAL DEPTH	ĺ	-1038	7553'		
Remarks		# Probable complet	ion interval	* Possible Pay			
		DRILL CUTTING	SAMPLES	DRILLING	TIME		
		Frequency D	epth	Frequency	Depth		
			Production hole)-TD		
MIID DDOCDAM:							

Approx	. Interval		Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 200		Spud	8.6-9.2			
200	- 3369	(1)	Water/LSND	8.6-9.2		<6	
3369	- 7553	, ,	Gas/Air/N2/Mist	Volume su	ufficient to maint	ain a stable and clea	n wellbore

REMARKS:

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)									
Casing String	Estimated	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.			
	Depth								
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	13.5""	1			
Intermediate 1	3369	7"	J/K-55 ST&C	20#	8.75"	1,2			
Production	7553	4 1/2"	J-55	11.6#	6.25"	3,4			

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 3-4 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud; BOP testing, and Casing and Cementing. Form 46 Reviewed by:

1 Offit 40 INEVIEWED by.	L\	ogging program reviewed by. N/A	
PREPARED BY:	APPROVED:	DATE:	
		December 17, 2002	
HGJ/MNP/JMP		Version 1.0	•
Form 46 12-00 MNP			

BP America Production Company BOP Pressure Testing Requirements

Well Name:

Hughes A

County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2062'		
Fruitland Coal	2836'		
PC	3067'		
Lewis Shale	3269'		
Cliff House	4571'	500	0
Menefee Shale	4836'	· ·	
Point Lookout	5271'	600	0
Mancos	5713'	·	
Dakota	7340'	2600	1400

** 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