UNITED STATES	FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANGEMENT APPLICATION OFOR PERMIT TO DRILL OR REENETER 7 M 9: 1	5. Lease Serial No. SF - 080424
	6. If Indian, Allottee or tribe Name
1a. Type of Work: DRILL REENTER	7. If Unit or CA Agreement, Name and No
, Ib. Type of Well: A Oil Well A Gas Well Gas Other Single Zone Multiple Zone	8. Lease Name and Well No. Van Hook LS 1M
Name of Operator BP America Production Company Attn: Mary Corley	9. API Well No. 3004531895
3a. Address 3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
P.O. Box 3092 Houston, Texas 77253 281-366-4491	Basin Dakota & Blanco Mesaverde
4. Loction of Well (Report location clearly and in accordance with any State requirements.*)	11. Sec., T., R., M., or Blk, and survey or Area
At surface 1820' FSL & 2490' FWL At proposed prod. Zone	Sec. 27, T32N, R11W
14. Distance in miles and direction from nearest town or post office*	12. County or Parish 13. State
17.5 miles from Aztec, NM 15. Distance from proposed* 16. No. of Acres in lease 17.	San Juan New Mexico
Location to nearest Property or lease line, ft.	
(Also to nearest drig. Ujnit line, if any) 820' 320 18. Distance from proposed location* 19. Proposed Depth 20.	320 5/2
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	BLM/BIA Bond No. on file WY2924
21. Elevations (show whether DF, KDB., RT, GL, etc. 6367' GL 22. Approximate date work will state work will	art* 23. Estimated duration 7 Days
24. Attachments	, bays_
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). Such other site sp suthorized officer. 	operations unless covered by an existing bond on file (see Item
25. Signature Mary Corley Title Name (Printed/typed) Mary Corley	Date
Title Mary Corley	09/15/2003
Senior Regulatory Analyst	
Appropriet Appropriet Name (Printed/Typed)	DateNOV 1 3 2003
Title Office	
Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the sub Operations thereon. Conditions of approval, if any, are attached.	oject lease which would entitle the applicant to conduct
Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willful any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	ully to make to any department or agency of the United States

*(Instructions on reverse)

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

District, I
TO Box 1930, 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

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

30-0 G	API Number	1895	715		1	Basin	DAKO	TA			Ues	AUERDE
0011	199	,	an Hoo	k LS								# 1M
	أر	F	P AMI	ERICA	PRODU	CTION		ANY			-1	6367
				- 	¹⁰ Surfa				4			
UL or Lot No.	Section	Township		Lot Idn	i			1				1
K	27	32 N								WE	91	SAIN JUAIN
7 III or lot no	Section	Township			1			· · · · · · · · · · · · · · · · · · ·		East/West	line	County
· OL Or ROLLES.	500000	Townsing	2	Loc gon	Peet Hom	me North	/South mile	100.				
¹² Dedicated Acres	s ¹³ Join	t or Infill "	Consolidatio	n Code	Order No.			L,				<u> </u>
320		ļ										
NO ALLOV	VABLE V										N CO	NSOLIDATED
· · · · · · · · · · · · · · · · · · ·		OR A			D UNIT HA	S BEEN A	PPROVED	BYT				
**Survey County BP AMERICA PRODUCTION COMPANY 6367 **Surface Location UL. or Lot No. Section Towardia Range Lot Idn Feet from the North/South line Reet from the SOUTH 2490 WEST SAN JUAN **BOttom Hole Location If Different From Surface **UL or lot un. Section Towardia Range Lot Idn Peet from the North/South line Peet from the Ban/West line County **UL or lot un. Section Towardia Range Lot Idn Peet from the North/South line Peet from the Ban/West line County **Dedicarde Aeres ** Joint or Infill ** Consolidation Code ** Order No. **No ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNTIT HAS BEEN APPROVED BY THE DIVISION **SOUTH Peet from the location does not be located to the best of my hourledge and bell formation contained sorting from the location of the location does not be located to the best of my hourledge and bell formation for the location of the location												
38-0 (\$\frac{3}{8}\frac{1}{9}\fra												
LJ.	.4	, ;								•		
111	O S 3 (895 11999: 723319											
	Property Code											
									1/40	ary w	ill	es
					1				Signature	Alexa Li	1/1	g .
ř	5				Bi.		t in modernia		Printed N	Tarne	/00	7/1/
					(CC) -	,			Title	egua	NOR	y maryst
			** Consolidation Code BP AMERICA PRODUCTION COMPANY ** Sand Peet from the South Feet from the North/South line Peet from the SAN JUAN ** Consolidation Code ** Consolidation Code									
					16.32	1,000			Date			
8				27		Sam We		38				
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<b>}</b> }								}}			-,	
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			<u>~~~</u>	<b>1</b> 20000		R) - BLM Reco		<b>₩</b>	Camea	r Hutthel		<u>/</u>

# BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Van Hook LS

Lease: Van Hook LS

County: San Juan State: New Mexico

Date: September 2, 2003

Well No: 1M

**Surface Location: 27-32N-11W, 1820 FSL, 2490 FWL** 

Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 210' bel	ow the top of the	Upper T	wo Wells (DKOT), se	t 41/2" p	oduction ca	asing, S	Stimulate	CH, MF	, PL a	nd DK in	tervals	;	
	IOD OF DRII												
TYPE OF TOOLS			DRILLING		stimated					EOLOGICAL MARKER Estimated KB: 6381			
Rotary	0 - T		DIVILLING		MARKER		- 000.	SI	JBSE			TVD.	
	OG PROGRA				Alamo				4230'			2152'	
L	UG PRUGRA	/ IAI		, -	land	- 1			4140'			2241'	
					tland	1		i	3919'			2462'	
TYPE	NEDT	TH INVE	DAI		tland Coal	. 1	*		3700'			2681'	
	DEF	111 114 A C	IVAL		ured Cliffs		*		3271			3110'	
none					is Shale		#		3096			3285'	
					House	ł	#		1760'			4621'	
				Mer	efee Shal	e	#		1362	1		5019'	
CASED HOLE				1	nt Lookout	:	#		1008	' I		5373'	
GR-CCL-TDT					icos enhorn	1			666'	. 1		5715'	
CBL	Identify 4 1/2" cement top					ker			-1044			7425'	
DEMARKO	EMARKS: Please report any flares (magnitude & duration).						ш		-1094		7475'		
	(magnituda 9 c	luration\			Wells uate	Į.	#		-1161 -1236			7542'	
- Please report any hares (	magnitude & C	iui auoii)	•		uate ero Upper	- 1	#		-1230 -1267		7617' 7648'		
	MARKS: Please report any flares (magnitude & du  SPECIAL TEST  PE ne MARKS:  JD PROGRAM: prox. Interval				ero Copper ero Lower		#		-1304			7685'	
	ASED HOLE R-CCL-TDT BL Identify 4 ½" cerr  EMARKS: Please report any flares (magnitude & duration).  SPECIAL TESTS  YPE one EMARKS:  IUD PROGRAM: pprox. Interval  - 250 50 - 3800 (1) Water/LSND 600 - 7752 Gas/Air/N2/M  EMARKS:  I) The hole will require sweeps to keep unloade ASING PROGRAM: (Normally, tubular goods allocates) asing String Urface/Conductor otermediate  SPECIAL TESTS  YPE One Cashart (Magnitude & duration).  SPECIAL TESTS  YPE ONE Cashart (Magnitude & duration				AL DEPT				-1371			7752'	
	YPE lone						on inter			Possible	Pav		
	DECIAL TES	76			RILL CUT				ι <u></u>			TIME	
	FLOIAL ILS	13			EQUENC		DEPTH		CDE	EQUEN		DEPTH	
				10'	EQUEINO		385'-TD			lograph		0-TD	
				<del>-   ''-</del>		<u> </u>			Geo	lograpii		0-10	
REMARKS:				1									
MUD DDOCDAM		#										<del></del>	
	l Tve	oo Mud	Weight, #/	aa l Vii	s, sec/qt	Lan	L cc's	/20 mi	. l	Othar (	Snooi	ification	
			8.6-9.2	94   VI	s, sec/qt	1 44/	L CC 3	30 1111	1	Other .	speci	lication	
	, .					<6	•						
				aufficia	at ta main	-		and a	loon i	wallbar	_		
	J Ga	5/AII/IN2	ziviist volume	Sumcie	nt to main	italii a	stable	and c	ean v	velibor	=		
	owoone to ke	ماسى مە	adad while frach	water d	rillina La	st bala	. aandii	ادمم ط		frague			
	Estimated		Casing Size	Grade		Weig		Hole S			ng P	t, Cmt, Etc.	
· · · · · · · · · · · · · · · · · · ·			9 5/8"		ST&C		32#		3.5"	1		•	
			7"		5 ST&C		20#		.75"	1,2			
Production	L	7752	4 1/2"	J-55		1	1.6#	6	.25"_	3			
REMARKS:													
(1) Circulate Cement to													
(2) Set casing 515' into I													
(3) Bring cement 100' ab	ove 7" shoe									·····		-	
CORING PROGRAM:													
None													
COMPLETION PROGR	AM:						·						
Rigless, 3-4 Stage Limite	ed Entry Hydi	raulic Fr	rac										
<b>GENERAL REMARKS:</b>													
Notify BLM/NMOCD 24	hours prior to	Spud;	BOP testing, and	Casing	and Cen	nentin	g.						
Form 46 Reviewed by:					ogram re			N//	Ā				
PREPARED BY:		APPR	OVED:		DATE:								
					Septem	ber 2	2003						
HGJ/MNP/JMP					Version		,					•	
Form 46 12-00 MNP		·			- 3.3.411								

## **BP America Production Company BOP Pressure Testing Requirements**

Well Name: Van Hook LS

County: San Juan

**1M** 

**New Mexico** 

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2152		
Fruitland Coal	2681		
PC	3110		
Lewis Shale	3285		
Cliff House	4621	500	0
Menefee Shale	5019		
Point Lookout	5373	600	0
Mancos	5715		
Dakota	7542	2600	1002

** 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.

### **Cementing Program**

Well Name: Location: County:	Van Hook LS 1M 127-32N-11W, 18 San Juan	20 FsL, 2490		Field: API No. Well Flac		Blanco Mesa	lesaverde / Basin Dakota					
State:	New Mexico				Formation KB Elev (6 GL Elev. (	est)	638	esaverde/Basin Dakota 6381 6367				
Casing Program:					700		O		a: a :			
Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)		Stage Tool Or TOL (ft.)	(bbl.	Cir. Out			
Surface	120	13.5	9.625	ST&C	Surface		NA	(50.	,			
ntermediate	3800	8.75	7	LT&C	Surface		NA					
Production -	7752	6.25	4.5	ST&C	3700		NA					
asing Propertie	s:	(No Safety Fa	ctor Included)									
Casing String	Size	Weight	Grade	Burst	Collapse		Joint St.	Сар	-	Drift		
	(in.)	(lb/ft)		(psi.)	(psi.)		(1000 lbs.)	(bbl/	•	(in.)		
Surface	9.625		H-40	3370		1400	25		0.0787		8.84	
ntermediate	7	_	K-55	3740		2270	23		0.0405		6.45	
Production -	4.5	11.6	J-55	5350		4960	15	<b>)4</b>	0.0155		3.87	
Mud Program												
Apx. Interval	Mud Type	Mud Weight		Recomme	ended Mud	Proper	ties Prio Cem	enting:	-			
(ft.)				PV	<20							
				YP	<10							
O-SCP	Water/Spud	8.6-9.2		Fluid Los	:<15							
SCP - ICP	Water/LSND	8.6-9.2										
CP - ICP2	Gas/Air Mist	NA NA	•									
CP2 - TD	LSND	8.6 - 9.2										
Cementing Progra	am:							_				
C 0/ 1 and			Surface		Interme			Pro	oduction			
Excess %, Lead			100		75 0				40 40			
Excess %, Tail			NA 75		-							
BHST (est deg. F)			75 1 6 7		120				183			
Special Instruction	Do not wash p	umps and line	1,6,7		1,6,	0			2,4,6			
	2. Wash pumps a	-	<b>s</b> .									
	3. Reverse out	and intes.										
	4. Run Blend Tes	et on Cement										
	5. Record Rate, I		Density on 3.5	" disk								
	6. Confirm densit		•									
	7. 1" cement to s											
	8. If cement is no				0-12 hr. aft	er land	ing plug.					
Notes:												
	*Do not wash up	on top of plug	Wash lines be	efore displacii	ng producti	on cem	ent job to mini	nize dri	llout.			
Surface:	Preflush	· · · · · · · · · · · · · · · · · · ·	20 bbl.	FreshWa	ter		<u>-</u>					
	, rondon		20 VUI.	. 16311448								
	Slurry 1	110	sx Class G C	ement					117	cuft		
	TOC@Surface		+ 3% CaCl2	(accelerator)								
			+ 0.25 #/sk C	ellophane Fla	ake (lost cir	culation	n additive)		0.4887	cuft/fi	ОН	
Chama Deservation		Densit		<b>V</b> :-1-3			1A/mtns					
Slurry Properties:		Density (lb/cat)		Yield			Water					
		(lb/gal)		(ft3/sk)			(gal/sk)					
	Slurry 1	15.8	ì	1.16	·		4.	95				
		0.5/01.00.0	T00									
O1-6	ıt:	9-5/8", 8R, S										
Casing Equipmen		1 Guide Sho	е									
Casing Equipmen												
Casing Equipmen		1 Top Wood	•									
Casing Equipmen			•									
Casing Equipmen		1 Top Woode 1 Autofill inse	•	ept top joint								
Casing Equipmer		1 Top Woode 1 Autofill inse	ert float valve	ept top joint								