UNIT	ED STATES			OMB No. 1 Expires Novem			
DEPARTMEN BUREAU OF I	T OF THE INTERIOR LAND MANGEMENT		5.	05.05000			
APPLICATION OFOR PER	COL	CENE I ER	6.	If Indian, Allottee or tribe	Name		
ia. Type of Work: X DRILL	REENTER		7.	If Unit or CA Agreement,	Name and No		
1b. Type of Well: Oil Well Gas Well Gas	Other C	Single Zone X Multiple 2		Lease Name and Well No Barnes			
Name of Operator BP America Production (Company Attn:	Mary Corley	9.	API Well No. 30045	31936		
3a. Address P.O. Box 3092 Houston, Texas 77253		10. (includerarea code) 2 3 > 281-366-4491	1 X	Field and Pool, or Explores Blanco	•		
Loction of Well (Report location clearly and in At surface 845' FNL & 2115' FEL At proposed prod. Zone	n accordance with any Si	ald Stady iremen 1970 2003	17 B 17 B	Sec., T., R., M., or Blk, a			
14. Distance in miles and direction from nearest to	wn or post office* from Aztec, NM		712.	County or Parish San Juan	13. State New Mexico		
 Distance from proposed* Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 845' 		6. No. of safes of lights 1	17. Spacir	ng Unit dedicated to this v			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	1200'	19. Proposed Depth 7900'	20. BLM/	BLM/BIA Bond No. on file WY2924			
21. Elevations (show whether DF, KDB., RT, GL, 6519' GL		22. Approximate date work w December 01, 200		23. Estimated duration 7	n Days		
		24. Attachments		······································			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on Na SUPO shall be filed with the appropriate Forest 	ational forest System La	4. Bond to cover 20 above). 5. Operator certii	the operation fication. ite specific in	s unless covered by an ex	as may be required by t		
25. Signatur (17 leur	Name (Printe	d/typed) Mary Corley	C	Pate 10/0	1/2003		
Title	Seni	or Regulatory Analyst					
Approved by (Signature) Approved by (Signature) Approved by (Signature) Approved by (Signature)	Name (Printed/Type		I	DEC - 1	2003		
Title	Office						
Application approval does not warrant or certify the a	applicant holds legal or ed	quitable title to those rights in th	ne subject leas	e which would entitle the	applicant to conduct		

*(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 J. 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 4 72319 ESAUERDE. Well Number # 18. R Barnes A Elevation ¹ Operator Name 6519 **BP AMERICA PRODUCTION COMPANY Surface Location** North/South line East/West line County III. or Lot No. Section Township Range Lot Idn Feet from the Feet from the SAN JUAN 845 NORTH 2115 **EAST** 27 32 N 11 W B "Bottom Hole Location If Different From Surface Section Township East/West line County UL or lot no. Feet from the North/South line Dedicated Ac 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 UNIT HAS BEEN APPROVED BY THE DIVISION "OPERATOR CERTIFICATION hereby certify that the information contained herein is 84 true and complete to the best of my knowledge and belief. 2115' DEC 2003 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. September 3, 2003 Date of Survey Signature and Seal of Professional S TOIG POFESSIONAL 7016

5056 R

Certificate Number

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Barnes A

Well No: 18R

Lease: Barnes A

Surface Location: 27-32N-11W, 845 FNL, 2115 FEL

County: San Juan

Field: Blanco Mesaverde/Basin Dakota

State: New Mexico

Date: September 8, 2003

METH	ADDROYIMATE	11/2" production casing, Stimulate CH, MF, PL and DK intervals APPROXIMATE DEPTHS OF GEOLOGICAL MARKER				
TYPE OF TOOLS	Estimated GL:					
	DEPTH OF DRILLING		0019			
Rotary	0 - TD	MARKER		SUBSEA	TVD.	
L	OG PROGRAM	Ojo Alamo		4561'	1972	
		Kirkland		4356'	2177	
		Fruitland		3908'	2625	
TYPE	DEPTH INVERAL	Fruitland Coal	*	3695'	2838	
OPEN HOLE		Pictured Cliffs	*	3279'	3254	
None		Lewis Shale	#	3104'	3429	
		Cliff House	#	1770'	4763	
		Menefee Shale	#	1372'	5161	
CASED HOLE		Point Lookout	#	1012'	5521	
GR-CCL-TDT	TDT – TD to 7" shoe	Mancos		675'	5858	
CBL	Identify 4 1/2" cement top	Greenhorn		-1038'	7571	
		Bentonite Marker		-1088'	7621	
REMARKS:		Two Wells	#	-1157'	7690	
- Please report any flares (magnitude & duration).	Paguate	#	-1232'	7765	
		Cubero Upper	#	-1263'	7806	
		Cubero Lower	#	-1296'	7836	
		TOTAL DEPTH		-1367'	7900	
	# Probable comple	# Probable completion interval		* Possible Pay		
S	DRILL CUTTIN	DRILL CUTTING SAMPLES		DRILLING TIME		
TYPE		FREQUENCY	DEPTH	FREQUENCY		
None		10'	3929' - TD	Geolograph	0-TD	
REMARKS:				<u> </u>	······································	
•						

MUD PE	ROGRAM:						
Approx	. Interval		Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 .	- 280		Spud	8.6-9.2			
280	- 3929	(1)	Water/LSND	8.6-9.2		<6	
3929	- 7900		Gas/Air/N2/Mist	Volume suf	ficient to maint	ain a stable and clea	n wellbore
551445	1/0					•	

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) Weight | Hole Size | Landing Pt, Cmt, Etc. Casing String Estimated Depth | Casing Size Grade Surface/Conductor 280 H-40 ST&C 32# 13.5" 9 5/8" 1 Intermediate 1 3929 J/K-55 ST&C 20# 8.75" | 1,2 4 1/2" 7900 11.6# 6.25" 3 Production J-55

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 500' 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: Logging program reviewed by: N/A PREPARED BY: APPROVED: DATE: September 8, 2003 HGJ/MNP/JMP Version 4.0

Form 46 12-00 MNP

BP America Production Company BOP Pressure Testing Requirements

Well Name: Barnes A

County: San Juan

18R

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1972		
Fruitland Coal	2838		
PC	3254		
Lewis Shale	3429		
Cliff House	4763	500	0
Menefee Shale	5161		
Point Lookout	5521	600	0
Mancos	5858		
Dakota	7690	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.

Cementing Program

Field: Blanco Mesaverde / Basin Dakota Barnes A 18R Well Name: 27-32N-11W, 845 FNL, 2115 FEL API No. Location: County: San Juan Well Flac State: **New Mexico** Formation: Blanco Mesaverde/Basin Dakota 6381 KB Elev (est) GL Elev. (est) 6367 Casing Program: **Casing String** Est. Depth Hole Size Casing Size Thread TOC Stage Tool Cmt Cir. Out Or TOL (ft.) (bbl.) (ft.) 280 (in.) (in.) (ft.) Surface Surface 13.5 9.625 ST&C NA 120 Intermediate 3929 8.75 7 STICHTEC Surface NA Production -6.25 4.5 3829 NA 7900 ST&C (No Safety Factor Included) Casing Properties: Weight **Burst** Collapse Joint St. Drift Casing String Grade Capacity (1000 lbs.) (bbl/ft.) (lb/ft) (in.) (in.) (psi.) (psi.) 9.625 2270 2370 1400 254 Surface 32 H-40 0.0787 8.845 Intermediate 20 K-55 3740 2270 234 -234 0.0405 6.456 0.0155 Production -4.5 11.6 J-55 5350 4960 154 3.875 Mud Program **Mud Weight** Apx. Interval Mud Type Recommended Mud Properties Prio Cementing: (ft.) PV ΥP <10 0 - SCP 8.6-9.2 Water/Spud Fluid Los: <15 SCP - ICP Water/LSND 8.6-9.2 ICP - ICP2 Gas/Air Mist NA ICP2 - TD LSND 8.6 - 9.2 Cementing Program: Surface Intermediate Production Excess %, Lead 100 75 40 Excess %, Tail NA 0 40 BHST (est deg. F) 75 120 183 Special Instructions 2,4,6 1,6,7 1,6,8 1. Do not wash pumps and lines. 2. Wash pumps and lines. 3. Reverse out 4. Run Blend Test on Cement 5. Record Rate, Pressure, and Density on 3.5" disk 6. Confirm densitometer with pressurized mud scales 7. 1" cement to surface if cement is not circulated. 8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug. Notes: *Do not wash up on top of plug. Wash lines before displacing production cement job to minmize drillout. Surface: Preflush 20 bbl. FreshWater 278 240 Slurry 1 110 sx Class G Cement 117-cuft TOC@Surface + 3% CaCl2 (accelerator) + 0.25 #/sk Cellophane Flake (lost circulation additive) 0.4887 cuft/ft OH Slurry Properties: Density Yield Water (lb/gal) (ft3/sk) (gal/sk) Slurry 1 15.8 4 95 1.16 9-5/8", 8R, ST&C Casing Equipment: 1 Guide Shoe 1 Top Wooden Plug 1 Autofill insert float valve Centralizers, 1 per joint except top joint 1 Stop Ring 1 Thread Lock Compound

Cementing Program

Intermediate:						
	Fresh Water	20 bbl		fresh water		- · •
						894
	Lead		340	sx Class "G" Cement		891 cuft
	Slurry 1			+ 3% D79 extender		
TOC@Surfa				+1/4 #/sk. Cellophane Fla		
	100@00			+ 5 lb/sk Gilsonite		
				+ 3 lb/sk Gilsoffice		74
				HOHID		•
	Tail		60	sx 50/50 Class "G"/Poz		,75 cuft
	Slurry 2			+ 2% gel (extender)		
	500	ft fill		+1/4 #/sk. Cellophane Fla	ke	0.1503 cuft/ft OH
				+ 2% CaCl2 (accelerator)		0.1746 cuft/ft csg ani
				+ 5 lb/sk Gilsonite		
Slurry Properties:		Density		Yield	Water	
bidity i toperties.		•			(gal/sk)	
01		(lb/gal)		(ft3/sk)	·-	
Slurry 1		11.4		2.63	15.8	
Slurry 2		13.5		1.27	5.72	
Casing Equipment	:	7", 8R, ST&C				
		1 Float Shoe (autofill with	mini	mal LCM in mud)		
		1 Float Collar (autofill with	h min	imal LCM in mud)		
		1 Stop Ring				
		• •	le of f	irst joint, then every third o	ollar	
		1 Top Rubber Plug		not joint, alon overy aims o	ona.	
		1 Thread Lock Compound	d			
		T THE BULLOCK COMPOUN	.			
Production:						
	Fresh Water	10 bbl		CW100		. laa
						428
	Lead		170	LiteCrete D961 / D124 / [D154	414 cuft
	Slurry 1			+ 0.03 gps D47 antifoam		
	TOC, 400' above	7" shoe		+ 0.5% D112 fluid loss		
				+ 0.11% D65 TIC		
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		020
	7 -0		400	50/50 OI 11011/D		230
	Tail		160	sx 50/50 Class "G"/Poz		221_cuft
	Slurry 2			+ 5% D20 gel (extender)		
	1542	ft fill		+ 0.1% D46 antifoam		
				+ 1/4 #/sk. Cellophane FI	ake	
				+ 0.25% D167 Fluid Loss	•	
				+ 5 lb/sk Gilsonite		
				+0.1% d800, retarder		
				+0.15% D65, dispersant		
						0.1026 cuft/ft OH
Slurry Properties:		Density		Yield	Water	
-		(lb/gal)		(ft3/sk)	(gal/sk)	0.1169 cuft/ft csg and
Slurry 1		9.5		2.52	6.38	
=						Ton of Marrow
Slurry 2		13		1.44	6.5	Top of Mancos 5858
Casing Equipmen	t:	4-1/2", 8R, ST&C				1
		1 Float Shoe (autofill with	n mini	mal LCM in mud)		
		1 Float Collar (autofill wit		•		
		•		and com in mou		
		1 Stop Ring	•			
		Centralizers, every 4th joint in mud drilled holes, none in air drilled holes.				
		1 Top Rubber Plug				
		1 Thread Lock Compoun	d			