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

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

ξ. I	ease Serial No.		
A	MSF - 076337 		,
3.5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	A
<u>~ ^</u>	0//500	_	\boldsymbol{T}

APPLICATION FOR PERMIT	TO DRILL OR REENTER	65 If Indian, Allottee or Tri	be Name
☐ Ia. Type of Work: ☑ DRILL ☐ REENTER	E A STATE	77.3 If Unit or CA Agreemen	it, Name and No.
U lb. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Ot	her Single Zone Multiple Zone	8. Lease Name and Well N SHAW GAS COM 1B	0.
BP AMERICA PRODUCTION COMPANY	MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No. 30 045	
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 Expl BLANCO MESAVE	
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 NENW Lot C 1130FNL 22 At proposed prod. zone	60FWL 36.48900 N Lat, 107.45100 W Lon	Sec 14 T30N R9W SME: BLM	Mer NMP
 Distance in miles and direction from nearest town or post 19.7 MILES FROM AZTEC, NEW MEXICO 		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)	16. No. of Acres in Lease	17. Spacing Unit dedicated	
1130	317.65	317.65 N/3-3	20
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. or	i file
1389	5424 MD	WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6077 GL	22. Approximate date work will start 03/03/2004	23. Estimated duration 5 DAYS	
	24. Attachments		
The following, completed in accordance with the requirements	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 Sys SUPO shall be filed with the appropriate Forest Service O 	tem Lands, the ffice). 4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific infauthorized officer.	•	
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 02/16/2004
Title AUTHORIZED REPRESENTATIVE			
Approved by (Signature) /a/ David J. Mankiewicz	Name (Printed/Typed)		MAN - 3 2004
Title	Office		
Application approval does not warrant or certify the applicant he	lds legal or equitable title to those rights in the subject le	ace which would entitle the ar	inlicant to conduct

Application approv operations thereon. Conditions of approval, if any, are attached.

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.

Additional Operator Remarks (see next page)

Electronic Submission #27942 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

LIGHT 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

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

1'U Box 1980, Hobbs NM 88241-1980

Districit II

PO Drawer KK, Artesia, NM 87211-0719 Oistriet III

1000 Rio Brazos Rd., Azrec, NM 87410

District IV

PO Box 2088, Santa Re, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

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

P.006/013 F-860 T-856

> 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 BLANCO MESAVERDE 72319 Well Number Shaw Gas Com #1B Operator Name Elevados 00077*9* **BP AMERICA PRODUCTION COMPANY** 6077 Surface Location UL or Lot No. Section Township Range Lot Ida Peer from the Nooth/South line Feet from the Bust/West line County C 14 30 N 9 W 1130 WEST SAN JUAN NORTH 2260 "Bottom Hole Location If Different From Surface Section UL or lot no. Township Lot Ida Bast/West line Post from the County Foot from the North/South line Dadigated Acces Joint or Infill Conselidation Code U Order No. 317.65 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED 32*0* OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION "OPERATOR CERTIFICATION I hereby certify that the information contained berein is true and complete to the best of my knowledge and belief. 1100 FNL 1605' F&L 30.045 30.045.30228 890'FNL Offic. 1915' FNL 855' FEL SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat sou plotted from field notes of setuni surveys made by me or under my supervision, and that the same is true and correct to lac best of my belief. December 10, 2003 Date of Survey 1865 1129 ANDISSION A 7016 57.681/T (R) - BLM Record

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Shaw GC

Well No: 1 B

Lease: Florance

Surface Location: 14-30N-9W; 1130 FNL, 2260 FWL

County: San Juan

Field: Blanco Mesaverde

State: New Mexico January 19, 2004

Date: Ja	nuary 19	, 2004											
OBJECTIVE: Drill 400' b	elow the to	o of the Point L	ookout Sa	ndstone, se	et 2 7/8" I	roduction	long st	ring, St	imulate CH	, MF	and PL int	ervals	
MET		DRILLING			AP	PROXIN	MATE	DEPT	THS OF	GEO	LOGICA	AL MA	RKER
TYPE OF TOOLS		DEPTH OF	DRILLI	NG	1	Estimated GL: 6040			0 Estimated KB: 6054				6054
Rotary		0 - TD				MARKE	R		SUBS		SEA		TVD
	LOG PRO	GRAM			Ojo	Alamo				4494	4		1560
TYPE		DEPTH INVI	ERAL.		Kirl	land				4373	3		1681
OPEN HOLE					Fru	itland				3842	2		2212
None						itland Coa		*		3559			2495
•					1 ' ' '	tured Cliff	s	*		326			2794
0.4.0=D 1.101.=					Lev					3058			2996
CASED HOLE		TD to 5 1/2"	-6-0		ı	f House		#		1733 1441			4321 4613
GR-CCL		10 10 5 1/2	snoe			nefee nt Lookou	ıt İ	#		103			5024
						ncos	"	π	1	715	1		5339
REMARKS:					┦‴								0000
- Please report any flares	(magnitud	le & duration)).		Į								
, ,	` •	· ·	•		ŀ								
						TAL DEP				631			5424
						robable co				*	Possible		
	SPECIAL	TESTS				RILL CU					DRILI		
TYPE					FR	EQUEN		DEPT		FR	REQUENCY DEPTH		DEPTH
None						ne		Produc	uction hole Geolograph			0-TD	
REMARKS:													
				·									
MUD PROGRAM:													
Approx. Interval		Type Mud		Weight, #/gal	Vi	s, sec/qt	t W	//L cc	's/30 mi	1	Other S	pecif	ication
0 - 120		Spud		8.6-9.2									
120 - 2445	(1)	Water/LSN		8.6-9.2			<	-					
<u> 2445 - 5424 </u>		Gas/Air/N	2/Mist	Volume	sufficie	nt to mai	ntain	<u>a stab</u>	le and c	ean	wellbore)	
REMARKS:					•								
(1) The hole will require	sweeps	to keep unk	oaded wl	hile fresh	water	drilling. I	_et ho	le cor	nditions o	lictat	te freque	ncy.	
040000000000000000000000000000000000000													
CASING PROGRAM: (ubular goods a I ted Depth											
Casing String Surface/Conductor	Estima		Casing		Grad		Wei		Hole S		1	ıg Pt,	Cmt, Etc
Intermediate 1		120		8 5/8" 5 ½"	X-42		1	20#		25" 75"	1		
Production		2445 5424		2 7/8"	J-55 S J-55	σιαυ		5.5# 6.5#		75" 75"	1,2 3,4		
REMARKS:	<u> </u>	5424	<u> </u>	2 110	1 3-55			0.5#	4.	15	3,4		
(1) Circulate Cement to	Surface												
(2) Set casing 50' above		d Cool											
(3) Bring cement 100' a													
(4) 100' Overlap	DOVE 3 17	2 31106											
CORING PROGRAM:							-						
None		•											
COMPLETION PROGR	ΔM·												
Rigless, 2-3 Stage Limit		Hydraulia E	rac										
GENERAL REMARKS:		i iyuraulic F	iac										
Notify BLM/NMOCD 24		or to Soud	ROP too	ting and	Casino	and Co	menti	na .					
Form 46 Reviewed by:	nours pri	or to Spud,	DOF les			ogram re			N/A				
PREPARED BY:		ADDD	OVED:	Log	iging pr	DATE:	MIGME	υy.	19//	<u> </u>	·		
TREFARED DI:		APPR	OVED:				40	2004			•		
HGJ/MNP/JMP						Januar Version		Z UU4					
						version	1 1.0				L		
Form 46 12-00 MNP													

SAN JUAN BASIN Mesaverde Formation Pressure Control Equipment

Background

The objective Mesaverde 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 rigs 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 Mesaverde. No abnormal temperature, pressure, or H2S anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth

9", 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 750 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

FEDERAL CEMENTING REQUIREMENTS

- 1. All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.
- 2. The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. across all water zones.
- 3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.
- 4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.
- 5. Centralizers will be used just below and into the base of the lowest usable water zone.
- 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.

Cementing Program

Well Name: Location: County:	Shaw GC 1B 14-30N-09W, 11 San Juan	30 FNL, 2260 F	=WL		Field: API No. Well Flac	Blanco Me	esaverd	e		
State:	New Mexico				Formation:	MesaVer	de			
					KB Elev (est)		6054			
					GL Elev. (est)		6040			
				•						
Casing Program:		-								
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage Too				
	(ft.)	_(in.)	(in.)		(ft.)	Or TOL (fi	:.)			
Surface	120	12 1/4	8 5/8	ST&C	Surface	NA				
Intermediate	2445	7 7/8	5 1/2	ST&C	Surface	NA				
Production -	5424	4 3/4	2 7/8		2345	NA				
Casing Propertie			ctor Included)	Durat	Callanas	laint Ct	_	`anaeitu	Deiff	
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.		apacity	Drift	
Curfore	(in.)	(lb/ft)	V40	(psi.)	(psi.)	(1000 lbs.)	,	obl/ft.)	(in.)	7.07
Surface Intermediate	8 5/8 5 1/2		X42	2950 4810	1370 4040		244 202	0.06368 0.0238		7.97 5.06
Intermediate Production -	5 1/2 2 7/8			7264	7676		202 72			-
FIOUUCION -	2 118	0.5	J-55	/ 204	10/6	•	12	0.00579		2.37
Mud Program									···································	
Apx. Interval	Mud Type	Mud Weight		Recomme	nded Mud Prope	rties Prio Ca	ementin	a:		
(ft.)	Mad Typo	Mud Weight		recomme	indea waa i Tope	nies i no oc	Silionali	3.		
O-SCP	Water/Spud	8.6-9.2		Fluid Loss	<6					
SCP - ICP	Water/LSND	8.6-9.2								
ICP - TD	Gas/Air Mist	NA								
Cementing Progra	m:									
			Surface		Intermediate			Production		
Excess %, Lead			100		100			40		
Excess %, Tail			NA 		0			40		
BHST (est deg. F)			72		110			159		
Time Between Sta	•		NA 1.0		NA 1.5			NA		
Special Instructions			1,6		1,6			2,6		
	1. Do not wash p	•	i							
	 Wash pumps a Reverse out 	ina lines.								
	4. Run Blend Tes	t on Coment								
	5. Record Rate, F		Consity on 3 5" di	ink .						
			•							
	6 Confirm densit	NUMBER WHILE THE	sssurized midd sc							
	6. Confirm densit	urface if comen	t ie not circulator	4						
	7. 1" cement to se				-12 hr. after landi	na nlua				
					-12 hr. after landi	ng plug.				
	7. 1" cement to se				-12 hr. after landi	ng plug.				
Surface:	7. 1" cement to se				-12 hr. after landi	ng plug.				
Surface:	7. 1" cement to se	t circulated to s				ng plug.			•	
Surface:	7. 1" cement to si 8. If cement is no	t circulated to s	surface, run temp	FreshWat		ng plug.	·	95	cuft	
Surface:	7. 1" cement to si 8. If cement is no Preflush	t circulated to s	surface, run temp	FreshWat		ng plug.		95	cuft	
Surface:	7. 1" cement to si 8. If cement is no Preflush Slurry 1	t circulated to s	20 bbl. sx Class G Cem + 3% CaCl2 (acc	FreshWat	er					DH.
Surface;	7. 1" cement to si 8. If cement is no Preflush Slurry 1	t circulated to s	20 bbl. sx Class G Cem + 3% CaCl2 (acc 0.25 #/sk Cellop	FreshWatent celerator)				0.3961	cuft/ft C	
	7. 1" cement to si 8. If cement is no Preflush Slurry 1	t circulated to s	20 bbl. sx Class G Cem + 3% CaCl2 (acc	FreshWatent celerator) hane Flake	er	dditive)		0.3961		
Surface: Slurry Properties:	7. 1" cement to si 8. If cement is no Preflush Slurry 1	t circulated to s	20 bbl. sx Class G Cem + 3% CaCl2 (acc 0.25 #/sk Cellop	FreshWatent celerator)	er			0.3961	cuft/ft C	

Cementing Program

	Fresh Water	20 bbi	fresh water		
	Lead		260 sx Class "G" Cer	nent	657 cuft
	Slurry 1		+ 3% D79 extend	ter	
4	TOC@Surface		+1/4 #/sk. Cellop	hane Flake	
			+ 0.1% D46 antif	oam'	
			70 sx 50/50 Class "(3"/Poz	
	Tail		+ 2% gel (extend		87 cuft
	Slurry 2		0.1% D46 antifo		
	500 ft fill		+1/4 #/sk. Cellop		0.1733 cuft/ft OH
			+ 2% S1 Calcium	n Chloride	0.2009 cuft/ft csg ann
					80 % excess
Slurry Properties:	Den	sitv	Yield	Water	•
	(lb/g	•	(ft3/sk)	(gal/sk)	
Slurry 1	, ,	11.7	2.61	17.77	
Slurry 2		13.5	1.27	5.72	
Production:	·		· · · · · · · · · · · · · · · · · · ·		
	Fresh Water	10 bbl	CW100		
	Slurry		140 LiteCrete D961 /	D124 / D154	
			+ 0.03 gps D47 a	ntifoam	338 cuft
			+ 0.5% D112 fluid	d loss	
	TOC@Liner Top		+ 0.11% D65 TIC	;	
	_				0.078 cuft/ft OH
lurry Properties:	Den	•	Yield	Water	40 % excess
	(lb/g	•	(ft3/sk)	(gal/sk)	0.0886 cuft/ft csg ann
Slurry		9.5	2.52	6.38	