FORM APPROVED

(August 1999) UNITED			1004-0136 mber 30, 2000		
DEPARTMENT OF BUREAU OF LANI APPLICATION FOR PERMI	MANAGEMENT MAP CO.	5. Lease Serial No. NMSF - 076337 6. If Indian, Allottee or Tr	23/A ibe Name		
1a. Type of Work: ☑ DRILL ☐ REENTER	2 0 0 0 0	7. If Unit or CA Agreeme			
1a. Type of work. M DRIED REENTER					
	Other Single Zone Multiple Zone	8. Lease Name and Well N SHAW GAS COM 10			
Name of Operator Conta BP-AMERICA PRODUCTION COMPANY	ct: MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No. 30045	32184		
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 BLANCO MESAVERDE			
4. Location of Well (Report location clearly and in acco	rdance with any State requirements.*)	11. Sec., T., R., M., or Bl	•		
At surface SENE Lot H 1915FNL 85 At proposed prod. zone	55FEL 36.48800 N Lat, 107.44600 W Lon	H Sec 14 T30N R9W SME: BLM	Mer NMP		
 Distance in miles and direction from nearest town or portion. MILES FROM AZTEC, NEW MEXICO 	ost office*	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) 725	16. No. of Acres in Lease 317.65	17. Spacing Unit dedicate	d to this well		
18. Distance from proposed location to nearest well, drillin	g, 19. Proposed Depth	20. BLM/BIA Bond No. c	on file		
completed, applied for, on this lease, ft. 1108	5450 MD	WY2924			
21. Elevations (Show whether DF, KB, RT, GL, etc. 6010 GL	22. Approximate date work will start 03/08/2004	23. Estimated duration 5 DAYS			
	24. Attachments				
 The following, completed in accordance with the requirement Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service 	4. Bond to cover the operati Item 20 above). System Lands, the 5. Operator certification	ons unless covered by an exis	· ·		
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 02/16/2004		
Title AUTHORIZED REPRESENTATIVE					
Approved by (Signature) Approved by (Signature) Mankiewicz	Name (Printed/Typed)		MAR - 4 200		
Title	Office		·		
Application approval does not warrant or certify the applicant operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those rights in the subject l	ease which would entitle the	applicant to conduct		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121 States any false, fictitious or fraudulent statements or represent	2, make it a crime for any person knowingly and willfully tations as to any matter within its jurisdiction.	o make to any department or	agency of the United		
					

Additional Operator Remarks (see next page)

Electronic Submission #27940 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 "SHEET AL 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 **

ORGANIC OF COMPLIANCE WITH ATTACHED

SELNERAL MEQUIREMENTS.

MMOCD

- Feb-19-2004 11:53am From-BP AMOCO Po Box 1980, Hobbs NM 88241-1980

District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Azzeo, NM 87410
District IV

PO Box 2028, Sunta Fo, NM 87504-2088

Energy, Minorals & Natural Resources Department

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

T-856 P.002 F-86

Form C-102 Revised February 21, 1994

Revised February 21, 1994
Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

			LL LO		N AND ACI	REAGI	DEDIC	ATION	N PLA	AT		
36-04	S-32	184		123/0		BLA	NOD ,	MESI	Pool N		_	:
DO 104	3		how C	as Con	•	Ty Name		1,000	<u>- </u>			' Well Number #1C
OU FORD I	No.		шам. С	745 CUL		tor Nume						# IC
000 118	3	В	P AMI	ERICA	PRODUC	TION		NY				6010
		A			Surface					Eust/West		
UL or Lot No.	5000ian 14	30 N	Rango 9 W	Lot Ida	Poet from the 1915	1	North/South line NORTH		Feet from the 855		ST	SAN JUAN
<u>n</u>	14	3014		om Wal				1		EA	21	BALITOAL
' UL or lot no.	Section	Township	Range	Iot ldn	Post from the		South line	Rest to		East/Wes	t line	County
Dodicated Acres	,]	t ot įvųji h	Consolidatio	s. Code 13	Order No.	······						
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	#14	113	30' N .	H LE	110011	IR	1915	- ₽	A		1	/
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7367				14				劉 /	hereby oc	cruity that the	e well loc	ration shown on this plat
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				268(R)	/O)	BLM Record			ertificate	Number.	-	

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Shaw GC

Lease: Florance County: San Juan Well No: 1 C

Surface Location: 14-30N-9W; 1915 FNL, 855 FWL

State: New Mexico

Date: January 19, 2004

Field: Blanco Mesaverde

	anuary 19,			·							
OBJECTIVE: Drill 400'			ookout Sandstone								
		DRILLING		A					OGICAL		
TYPE OF TOOLS DEPTH OF DRILLING					Estimated		060	Estimated KB: 6074			
Rotary		0 - TD			MARKER	₹	S	SUBSEA T			
* 1 /44 0	LOG PROGRAM							4449		1625	
TYPE	į	DEPTH INVE	RAL	K	irtland		ľ	4346		1728	
OPEN HOLE				F	ruitland		3826		2248		
None		ruitland Coa	"	*	3554		2520				
•					ictured Cliffs ewis	S	*	3242	1	2832	
04050 1101 5							<u>, </u>	3067	I	3007	
CASED HOLE GR-CCL		TD to 5 1/2" :	haa		liff House lenefee		# #	1726 1414		4348 4660	
GR-CCL		10 10 5 1/2 3	Silve		oint Lookou		# 1414 # 1024		I	5050	
					lancos	` '	"			5370	
REMARKS:											
 Please report any flares 	s (magnitud	e & duration)	•								
					OTAL DEP			624			
	ODEC!A!	TEOTO			Probable co			* F	ossible Pay		
	SPECIAL	15212			DRILL CUT				DRILLIN		
TYPE				ľ	REQUENC			•			
None REMARKS:	N	None Production hole Geolograph 0-TD									
REWARNS:											
MUD PROGRAM:			1					,			
Approx. Interval		Type Mud	Weigh	it, \	/is, sec/qt	: W/L (cc's/30 mi	n (Other Spe	cification	
0 - 120		Spud	8.6-9	.2							
120 - 2470	(1)	Water/LSN	ND 8.6-9	.2		<6					
2470 - 5450	• • •	Gas/Air/N2	2/Mist Volur	ne suffic	ent to mai	ntain a st	able and c	lean v	wellbore		
REMARKS:									**		
(1) The hole will require	e sweeps t	o keep unic	aded while fre	esh wate	r drilling. L	et hole c	onditions	dictate	e frequency	/ .	
CASING PROGRAM:	(Normally, tu	bular goods a	location letter spe	ecifies casi	ng sizes to be	used. Ho	le sizes will b	e gove	rned by Conti	ract)	
Casing String		ted Depth	Casing Size			Weight				Pt, Cmt, Etc	
Surface/Conductor		120	8 5/		2 ST&C	20		.25"	1	.,	
Intermediate 1		2470		1	ST&C	15.5		375"	1,2		
Production		5450	27/			6.5		.75"	3,4		
REMARKS:	<u> </u>							L			
(1) Circulate Cement to	Surface				•						
(2) Set casing 50' abov		d Coal	*								
(3) Bring cement 100'	above 5 1/3	2" shoe									
(4) 100' Overlap											
CORING PROGRAM: None											
COMPLETION PROG											
COMPLETION PROG Rigless, 2-3 Stage Lim		Hydraulic F	rac						<u> </u>		
Rigless, 2-3 Stage Lim GENERAL REMARKS	ited Entry								· · · · · · · · · · · · · · · · · · ·		
Rigless, 2-3 Stage Lim GENERAL REMARKS Notify BLM/NMOCD 24	ited Entry i: I hours pri			and Casi	ng and Ce	menting.					
Rigless, 2-3 Stage Lim GENERAL REMARKS	ited Entry i: I hours pri		BOP testing, a		ng and Cei program re		y; N//	4			
Rigless, 2-3 Stage Lim GENERAL REMARKS Notify BLM/NMOCD 24 Form 46 Reviewed by:	ited Entry i: I hours pri	or to Spud,	BOP testing, a				y; N/	<u>Α</u> Ι			
Rigless, 2-3 Stage Lim GENERAL REMARKS Notify BLM/NMOCD 24	ited Entry i: I hours pri	or to Spud,	BOP testing, a		program re	eviewed b		A			
Rigless, 2-3 Stage Lim GENERAL REMARKS Notify BLM/NMOCD 24 Form 46 Reviewed by:	ited Entry i: I hours pri	or to Spud,	BOP testing, a		program re	viewed b y 19, 200		Α			

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:	Shaw GC 1C			Field:	Bland	o Mesave	rde			
Location:		1915 FNL, 855	FWL		API No.					
County:	San Juan				Well Flac					
State:	New Mexico				Formation:	Mes	aVerde			
					KB Elev (es	st)	6074			
					GL Elev. (e	est)	6060			
Casing Program										
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage	e Tool			
	(ft.)	(in.)	(in.)		(ft.)	Or To	OL (ft.)			
Surface	120	12 1/4	8 5/8	ST&C	Surface	NA				
Intermediate	2470	7 7/8	5 1/2	ST&C	Surface	NA				
Production -	5450	4 3/4	2 7/8		2370	NA NA				
Casing Propertie Casing String	s: Size	(No Safety Weight	Factor Included) Grade	Burst	Collapse	Joint	C+	Capacity	Drift	
Casing Suning	(in.)	(ib/ft)	Giade	(psi.)	(psi.)) ibs.)	(bbl/ft.)	(in.)	
Surface			24 X42	2950		1370	244	0.06368	(111.)	7.972
Intermediate			.5 J55	4810		4040	202			5.067
Production -		-	.5 J-55	7264		7676	72			2.375
	_		.0 0 00				-	3,000		2.070
Mud Program										
Apx. Interval	Mud Type	Mud Weigh	t	Recomme	ended Mud F	Properties P	rio Cemen	ting:		
(ft.)							•			
0 - SCP	Water/Spud	8.6-9	.2	Fluid Loss	· <6					
SCP - ICP	Water/LSND	8.6-9	.2							
ICP - TD	Gas/Air Mist	N	<u>IA</u>							
Cementing Progra	ım'									
comontang r regio			Surface		Intermed	liate		Production		
Excess %, Lead			100		100			40		
Excess %, Tail			NA		.0			40		
BHST (est deg. F)		72		110			159		
Time Between Sta	ages, (hr)		NA'		NA			NA		
Special Instruction			1,6		1,6			2,6		
		sh pumps and lin	es.							
	2. Wash pum	•								
	3. Reverse of									
		Test on Cement		بام: ا						
			d Density on 3.5" pressurized mud :							
			ent is not circulat							
			o surface, run ten		1-12 hr after	· landing nlu	n			
	o. a cement i	o not on culated to		ip. survey re	7-12 III. aitei	landing plu				
Surface:										
	Preflush		20 bbl.	FreshWat	ter					
	Slurry 1		00 sx Class G Ce	-				95	cuft	
	TOOOLUG	e	+ 3% CaCl2 (a	ccelerator)		•				
	TOC@Surfac	.0								
	· ·		0.25 #/sk Cello	phane Flake	(lost circula	ition additive))	0.3961	cuft/ft	ОН
	_		0.25 #/sk Cello 0.1% D46 antii	•	(lost circula	ition additive))		cuft/ft (
Slurry Properties:	_	Density		oam Yield	(lost circula	ation additive Wate	,			
Slurry Properties:	_		0.1% D46 antii	oam			r			

Slurry 1

4.95

Cementing Program

Fresh Water 20 bbl fresh water 260 sx Class "G" Cement 665 cuft Lead + 3% D79 extender Slurry 1 TOC@Surface +1/4 #/sk. Cellophane Flake + 0.1% D46 antifoam' 70 sx 50/50 Class "G"/Poz Tail + 2% gel (extender) 87 cuft Slurry 2 0.1% D46 antifoam 500 ft fill +1/4 #/sk. Cellophane Flake 0.1733 cuft/ft OH + 2% S1 Calcium Chloride 0.2009 cuft/ft csg ann 80 % excess Density Yield Slurry Properties: Water (lb/gal) (ft3/sk) (gal/sk) Slurry 1 11.7 2.61 17.77 5.72 Slurry 2 13.5 1.27 Production: Fresh Water 10 bbl CW100 Slurry 140 LiteCrete D961 / D124 / D154 + 0.03 gps D47 antifoam 338 cuft + 0.5% D112 fluid loss TOC@Liner Top + 0.11% D65 TIC 0.078 cuft/ft OH Slurry Properties: Density Yield Water 40 % excess

(ft3/sk)

2.52

(gal/sk)

6.38

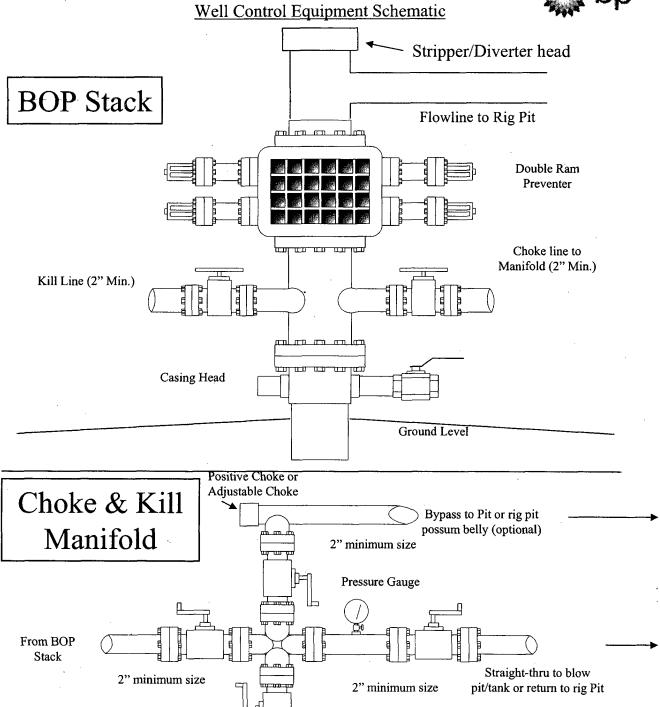
0.0886 cuft/ft csg ann

(lb/gal)

Slurry

BP American Production Company





Adjustable Choke

Working Pressure for all equipment

is 2,000 psi or greater

2" minimum size

To Blow Tank or burn Pit