Form 3160-3 (August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.

BORDIO OF DINO	VI XI VI ODIVIDI VI	NM-013686		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Name	
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement,	Name and No.	
		8. Lease Name and Well No.		
1b. Type of Well: ☐ Oil Well Gas Well ☐ Oth	ner Single Zone Multiple Zone	PRITCHARD C 1S		
	CHERRY HLAVA E-Mail: hlavacl@bp.com	9. API Well No.	. /	
3a. Address	3b. Phone No. (include area code)	30045 3		
P.O. BOX 3092 HOUSTON, TX 77253-3092	Ph: 281.366.4081 Fx: 281.366.0700	BASIN FRUITLAND		
4. Location of Well (Report location clearly and in accord	A SA	11. Sec., T., R., M., or Blk.	and Survey or Area	
At surface NESE Lot 9 1760FSL 1020 At proposed prod. zone	OFEL FEB 2004	Sec 34 T31N R9W M	ier NMP	
 Distance in miles and direction from nearest town or post MILES N/E FROM AZTEC, NM 	Va hand of	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 t	o this well	
1020'	1275.00	316.09 F/2		
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file		
75'	_3090 MD 2930	WY2924		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6132 GL	22. Approximate date work will start 03/01/2004	23. Estimated duration 7 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 Of 	Item 20 above). tem Lands, the 5. Operator certification	ons unless covered by an existin		
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA		Date 01/08/2004	
Title REGULATORY ANALYST				
Approved by (Signature)	Name (Printed/Typed)		Date	
Title	/all David J. Meskiewicz			
rue	Office	FEB	2 0 2004	
Application approval does not warrant or certify the applicant ho operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject le	ease which would entitle the app		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representate	make it a crime for any person knowingly and willfully to	o make to any department or ago	ency of the United	
	and the state of t			
Additional Operator Remarks (see next page)				

Electronic Submission #26621 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

*file ention is subject to technical and Locural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos R4., 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

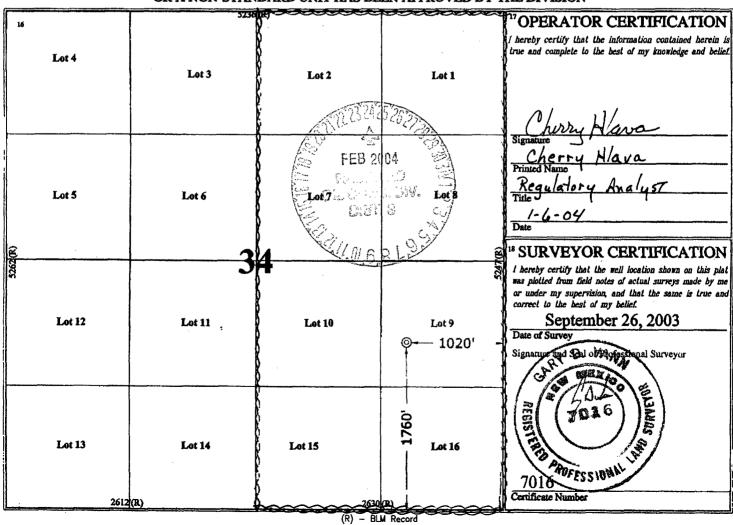
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-3	2123 71629	Basin Fruitland Coal	
Property Code	3	Property Name	* Well Number
023154	Pritchard C		# 1S
7 OGRID No.		Operator Name	Elevation
000778	BP AMERICA PROI	DUCTION COMPANY	6132

Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I (Lot 9)	34	31 N	9 W		1760	SOUTH	1020	EAST	SAN JUAN
	" Bottom Hole Location If Different From Surface								
⁷ UL or lot no.	Section	Township	Rango	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	il Join	t or Infill "	Consolidatio	n Code 15	Order No.				
316.09									

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



BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Pritchard C

Lease:

Well No: 1S

Surface Location: Section 34I, T31N, R9W; 1760' FSL, 1020' FEL

Field: Basin Fruitland Coal

County: San Juan State: New Mexico Date: December 15, 2003

Date: De									··		
OBJECTIVE: Drill to a T			ith 7" casin	g and air c							
	THOD OF D				APPROXIM						L L
TYPE OF TOOLS	D	EPTH OF I	DRILLIN	G		I GL: 61		Estima	ted KB	: 6145	
Rotary	0	- 3090' MI	D, 3103'	KB	MARKER	₹	;	SUBSEA	M	EAS. DE	EPTH
	LOG PROG	SRAM			Ojo Alamo			45	46		1599
					Kirtland			43	46		1799
					Fruitland				31		2614
TYPE	D	EPTH INVE	RAL		Fruitland Coa				29		2716
Mud log & gas	27	700 - TD			Pictured Cliffs	3 *		32	14		2931
chromatograph											1
(see Remarks section be	elow).										
REMARKS:					_						
At TD and prior to comp	oletion of th	e Fruitland	l coal inte	erval, the	e		1				
operator will FAX or em											
lower basal Fruitland co	oal seam ar	nd Pictured	I Cliffs Fo	ormation							İ
to the FFO-PMT geolog	jist (Chip H	arraden @	505-599	- 8997					- 1		
or chip harraden@nm.	blm.gov). ه	as well as tl	he bp en	gineer	1	1			- 1		-
(Dan Crosby @ 281-36	6-7099 or c	crosbyde@	bp.com).	. Note: i	t	İ	İ		1		1
is very important that th	e mud log i	include gas	chroma	tograph							
results.									Ì		293P
					TOTAL DEPT			30			-3090
					# Probable co				ible Pay		
	SPECIAL T	ESTS			DRILL CIT	TING SA	_			IG TIME	
TYPE							FREQUENCY DEPTH FREQUENCY DEPTH				
					FREQUENC		ΓH	1			
None						Y DEP	ГН 	FREQU Geologr			TH 90 29
TYPE None REMARKS:					FREQUENC		ГН ———	1			
None					FREQUENC		ГН	1			
None REMARKS:					FREQUENC		TH	1			
None	-	Type Mud		Veight, #/	FREQUENC	none	ГН :'s/30 m	Geologr	aph		298
None REMARKS: MUD PROGRAM: Approx. Interval 0 - 120	-	Type Mud Spud		3.6-9.2	FREQUENC	none		Geologr	aph	0-30	298
None REMARKS: MUD PROGRAM: Approx. Interval 0 - 120 120 - 2700	(1)	Type Mud	E D 8	3.6-9.2 3.6-9.2	FREQUENC none	W/L co	:'s/30 m	Geologr	aph er Spe	0-30	298
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BP America Production Company BOP Pressure Testing Requirements

Well Name: Pritchard C

County: San Juan

18

New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1599		
Kirtland	1799		
Fruitland Coal	2716	200	0
PC			
Lewis Shale			
Cliff House Menefee Shale			
Point Lookout		·	
Mancos Dakota			

** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 850 psi

SAN JUAN BASIN Fruitland Formation Pressure Control Equipment

Background

The objective Fruitland Coal 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. Fruitland Coat

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:	Pritchard C1S	7			Field:	Basin F	uitland	Coal		
Location:	Sec 34 - 31N - 0		21 1020' EE!		API No.	Dasiiii	uluario	l		
		09VV, 1700 F3	5L, 1020 FEL							
County:	San Juan	-			Well Flac					
State:	New Mexico				Formation					
					KB Elev (· ·	6145			
					GL Elev. ((est)	6132			
Casing Program		· · · · · · · · · · · · · · · · · · ·			·- · · · ·					
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage T		Cmt Cir. Out		
	(ft.)	(in.)	(in.)		(ft.)	Or TOL	(ft.)	(bbl.)		
Surface	120	12.5	9.625	₽T&C	Surface	NA				
Production -	2700	8.75	7	SLIFEC	Surface	NA				
Casing Properti	es:	(No Safety I	Factor Included)							-
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.		Capacity	Drift	
• •	(in.)	(lb/ft)		(psi.)	$\mathcal{O}_{(\mathrm{osi.})}$	(1000 lb		(bbl/ft.)	(in.)	
Surface	9.62		2 H-40	3370		1400	254	0.0787	(,	8.84
Production -			0 K-55	3740			234			6.45
rioddciioii -		, 2	0 K-33	3740		2210 235	<i>22</i> 34	0.0405		0.40
Mud Program				_						
Apx. Interval	Mud Type	Mud Weight	Ţ			Properties Prio (<u>:ementi</u>	ing:		
(ft.)				PV	<20					
				YP	<10					
0-SCP	Water/Spud	8.6-9.	2	Fluid Loss	<6					
SCP - TD	Water/LSND	8.6-9.	2							
SCP - TD	Gas/Air/N2/Mist	. N	A							
			=							
Cementing Progra	am:	,						-		
			Surface		Produc	tion				
Excess %, Lead			100		40					
Excess %, Tail			NA		40					
BHST (est deg. F)		75		120	1				
Special Instructio	ns		1,6,7		2,4,6	ô				
	1. Do not wash	pumps and lin	es.							
	2. Wash pumps	and lines.								
	3. Reverse out									
	4. Run Blend Te	est on Cement								
	5. Record Rate.	Pressure, and	Density on 3.5"	disk						
			pressurized mud							
			ent is not circulat							
			o surface, run ter		-12 hr afte	er landing plug				
			o darrado, rair tor			rianong plag.				
Notes:	*Da nat wash w		- 186-al- Ea	f!:!						
	Do not wash up	ou tob or bini	g. Wash lines be	rore displacin	g productic	n cement job to	minmiz	е аппоит.		
Surface:				*			·			
	Preflush		20 bbl.	FreshWate	r					
	Slurry 1	Ω/) sx Class G Cer	ment				02	ouff	
	TOC@Surface	0(63	cuft	
	100@Surrace		+ 3% CaCl2 (ad	•						_
			0.25 #/sk Cello 0.1% D46 antife		(lost circula	ition additive)		0.347	cuft/ft (OH
Slumu Dranamica:		Danaite	U. 170 DAG GIRLIN			\A!-4				
Slurry Properties:		Density		Yield		Water				
		(lb/gal)		(ft3/sk)		(gal/sk)				
	Slurry 1	15.8	3	1.16			4.95			
)!	•	0 E/Or								
Casing Equipmen	τ:	9-5/8", 8R, S								
		1 Guide Sho	е							

Schlumberger Private Page 1

Amoco

1/7/2004

Cementing Program

- 1 Top Wooden Plug
- 1 Autofill insert float valve

Centralizers, 1 per joint except top joint

- 1 Stop Ring
- 1 Thread Lock Compound

1 Thread Lock Compound

Production:	Fresh Water		10 bbl	CW100		
	Lead		1	80 sx Class "G" C	ement	459 cuft
	Slurry 1			+ 3% D79 exte	nder	
	TOC@Surface			+ 2% S1 Calciu	ım Chloride	
				+1/4 #/sk. Cello	ophane Flake	
				+ 0.1% D46 an	tifoam'	
	Tail			90 sx 50/50 Class	"G"/Poz	105 cuft
	Slurry 2			+ 2% gel (exter	nder)	
	50	00 ft fill		0.1% D46 antif	oam	0.1503 cuft/ft OH
				+1/4 #/sk. Cello	ophane Flake	0.1746 cuft/ft csg ann
				+ 2% CaCl2 (ad	ccelerator)	
Slurry Properties	3:	Density		Yield	Water	
		(lb/gal)		(ft3/sk)	(gai/sk)	
Slurry 1		11.4		2.61	17.77	
Slurry 2		13.5		1.27	5.72	
Casing Equipme	nt:	7", 8R, ST&C	;			
		1 Float Shoe	(autofill with m	ninimal LCM in muc	i)	
		1 Float Collar	r (autofill with r	minimal LCM in mu	d)	
		1 Top Rubber	r Plug			

BP American Production Company



