FORM APPROVED

DEPARTMENT OF	THE INTERIOR	OMB No. 1004-0136 Expires November 30, 2000 5. Lease Serial No. NMSF - 078390				
APPLICATION FOR PERMIT	Asis = # # # # # # # # # # # # # # # # # #	6. If Indian, Allottee or Tribe N	ame			
1a. Type of Work: 🛛 DRILL 🔲 REENTER	Constitution of the consti	7. If Unit or CA Agreement, Na	ame and No.			
<u> </u>		8. Lease Name and Well No. PRICE 4M				
Name of Operator Contact: BP AMERICA PRODUCTION COMPANY	MARY CORLEY E-Mail: corleyml@bp.com	300453				
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 Explorate BASIN DAKOTA/BLAN	CO MESAVERD			
, .	• • •		•			
At proposed prod. zone	FINE 1000FEE 30.39700 N Eat, 107.30900 W	SME: BLM	NWP			
		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) 760	16. No. of Acres in Lease 320.00	17. Spacing Unit dedicated to t	his well			
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1696 	19. Proposed Depth 7352 MD	20. BLM/BIA Bond No. on file WY2924	*			
21. Elevations (Show whether DF, KB, RT, GL, etc. 6298 GL	22. Approximate date work will start 01/05/2003	23. Estimated duration 7 DAYS				
	24. Attachments					
	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:				
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys 	Item 20 above). 5. Operator certification		•			
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 1a. Type of Work: DRILL REENTER REINTER 1b. Type of Work: DRILL REENTER REINTER 1c. Type of Work: RILL REENTER RILL REENTER 1c. Type of Work: DRILL REENTER RILL REENTER 1c. Type of Work: RILL REENTER RILL REENTER 1c. Type of Work: RILL REENTER 1c. Type of						
Approved by (Signature) /a/ David J. Manthewicz	Name (Printed/Typed)	μĀ	Ne 2 2 2004			
Title	Office					

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct 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 #24225 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is subject to technical and procedural review, pursuant to 40 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

** OPERATOR-SUBMITTED ** 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 Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

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

District IV PO Box 2088, Sar	nta Pe, NM 8	7504-2088							[] ам	ENDED REPORT
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30-04	S-3	1967	2 7/5	* Pool Cod 99 . * 7	2319	B	ASIN DAKE	TA & BA	<i>f</i> .		AVERDE
Property On A O.A.	Code	,	Price		¹ Pro	roperty N	iame	-			' Well Number # 41M
OCRID	No.		THE		• OI	perator N	lamo			•	Elevation
000112	8		BP AMI	ERICA	PRODU	JCTI	ION COMPA	NY			6298
					¹⁰ Surfac	ce Lo	ocation				
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	1	North/South line	Feet from the	East/West		County CAN THAN
G	14	28 N	8 W		2390		NORTH	1880	EA	51	SAN JUAN
³ UL or los no.	Section	Township	Bou	Lot Ida	Feet from		North/South line	n Surface Post from the	East/West	line	County
					1300		Afterest sources many				
13 Dedicated Acre	t i Joir	nt or Infill	Consolidatio	na Code is	Order No.		<u></u>	<u>.</u>	<u> </u>		
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5280(R)		 		1/3				l bereby o	ertify that the	e well loc	eation shown on this plat
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				 }	A Survey	Λ) correct to	the best of 1	my belief.	
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GLO Record

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Price

Lease: Price

Well No: 4M

Surface Location: 14-28N-8W, 2390 FNL, 1880 FEL Field: Blanco Mesaverde/Basin Dakota

County: San Juan State: New Mexico

Date: September 18, 2003

MET	HOD OF DRILLING	APPROXIMATE	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER				
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL:	Estimated K	B: 6312'			
Rotary	0 - TD	MARKER		MD	Subsea		
	LOG PROGRAM	Ojo Alamo	1 1	1863	4449		
TYPE	DEPTH INVERAL	Kirtland	1	2040	4272		
OPEN HOLE		Fruitland	1	2370	3943		
None		Fruitland Coal	*	2634	3678		
		Pictured Cliffs	*	2851	3461		
		Lewis	#	3051	3261		
CASED HOLE		Cliff House	#	4376	1936		
GR-CCL-TDT	TDT - TD to 7" shoe	Menefee	#	4624	1688		
CBL	Identify 4 1/2" cement top	Point Lookout	#	5047	1265		
	•	Mancos		5486	826		
		Greenhorn	} }	7003	-691		
		Bentonite marker	1 1	7064	-752		
		Two Wells Mbr.	#	7112	-800		
REMARKS:		Paguate Mbr	#	7207	-895		
· Please report any flares	(magnitude & duration).	Upper Cubero	#	7245	-933		
		Lower Cubero	#	7270	-958		
		Encinal Canyon	#	7320	-1008		
		TOTAL DEPTH		7352	-1040		
		# Probable completion interval * Possible Pay					
	SPECIAL TESTS	DRILL CUTTIN	DRILL CUTTING SAMPLES DRILLING T				
TYPE		FREQUENCY	DEPTH	FREQUENC	Y DEPTH		
None		10	3151-TD	Geolograph	0-TD		
REMARKS:	100						

	ROGRAM: . Interval		Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 120		Spud	8.6-9.2			
120	- 3151	(1)	Water/LSND	8.6-9.2		<6	
3151	- 7352		Gas/Air/N2/Mist	Volume su	ufficient to maint	ain a stable and clea	n wellbore

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)							
Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.		
Surface/Conductor	120	9 5/8"	H-40 ST&C	32#	13.5"	1		
intermediate	3151	7"	J/K-55 ST&C	20#	8.75"	1,2		
Production	7352	4_1/2"	J-55	11.6#	6.25"	3,4		

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe
- (4) 100' Overlap

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 18, 2003** HGJ/MNP/JMP Version 1.0

BP America Production Company BOP Pressure Testing Requirements

Well Name: Price

County: San Juan

4 M

State: New Mexico

Formation	Est. MD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1863		
Fruitland Coal	2634		
PC	2851		
Lewis Shale	3051	. 1	
Cliff House	4376	500	0
Menefee Shale	4624		
Point Lookout	5047	600	0
Mancos	5486		
Dakota	7112		
TD	7352	2600	1500

** 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.

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 $\frac{1}{2}$ " 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 impart a swirling action around the casing and 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.

BP is currently using 3% CaCl2 in our slurry and achieves 300 psi compressive strength after 1 hr 50 min and 500 psi after 3 hrs 8 min. We, therefore, request approval to initiate blowout preventer (BOP) nipple up operations after a 2 hour wait on cement time in lieu of the 6 hour time frame required by rule to achieve 300 psi compressive strength with Class B cement slurry at 80 deg F.

Cementing Program

Well Name: Location:	Price 4M 14-28N-08W, 23	90 FNL, 1880	FWL		Field: API No.		Blanco Me	save	rde / Basin Da	kota	
County:	San Juan	, , , , , ,			Well Flac						
State:	New Mexico				Formation:	:	Dakota Me	esaVe	erde		
					KB Elev (e	est)		6312			
					GL Elev. (est)		6298			
Casing Program:											<u></u>
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC		Stage Too		Cmt Cir. Out		
	(ft.)	(in.)	(in.)	0700	(ft.)		Or TOL (ft	.)	(bbl.)		
Surface ntermediate	120 3151	13.5 8.75	9.625 7	ST&C LT&C	Surface Surface		NA NA				
Production -	7352	6.75 6.25	4.5	ST&C	3051		NA NA				
Casing Propertie			actor Included)	0.00							
Casing String	Size	Weight	Grade	Burst	Collapse		Joint St.		Capacity	Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)		(1000 lbs.))	(bbl/ft.)	(in.)	
Surface	9.625	32	2 H-40	3370	" '	1400		254	0.0787		8.8
ntermediate	7	20	K-55	3740		2270		234	0.0405		6.4
Production -	4.5	11.6	i J-55	5350		4960		154	0.0155		3.87
Mud Program											
Apx. Interval	Mud Type	Mud Weight			nded Mud	Proper	ies Prio Ce	men	ting:		
(ft.)				PV YP	<20						
0 - SCP	Water/Spud	8.6-9.2	•	Fluid Loss	<10						
SCP - ICP	Water/LSND	8.6-9.2		ridia coss	~10						
ICP - ICP2	Gas/Air Mist	0.0-3.2 NA									
ICP2 - TD	LSND	8.6 - 9.2									
Cementing Progra	m:					71 12					
•			Surface		Intermed	diate			Production		
Excess %, Lead			100		75				40		
Excess %, Tail			NA		0				40		
BHST (est deg. F)			75		120				183		
Special Instruction	s 1. Do not wash p	umne and line	1,6,7		1,6,8	3			2,4,6		
	2. Wash pumps a	•	5.								
	3. Reverse out	and mics.									
	4. Run Blend Tes	t on Cement									
	5. Record Rate, I	Pressure, and	Density on 3.5"	disk							
	6. Confirm densit	ometer with pr	essurized mud	scales							
	7. 1" cement to s	urface if ceme	nt is not circula	ted.							
	8. If cement is no	t circulated to	surface, run ter	np. survey 10	-12 hr. afte	r landin	g plug.				
Notes:	10 1 b a				a productio	n ceme	nt ion to m	inmiz	e arillout.		
	*Do not wash up	on top of plug	. Wash lines be	fore displacin	9		,				
	*Do not wash up	on top of plug	. Wash lines be	fore displacin FreshWat							
			<u></u>	FreshWat					117	cuft	
Notes: Surface:	Preflush		20 bbl.	FreshWat					117	cuft	
	Preflush Slurry 1		20 bbl. sx Class G Ce	FreshWat ement accelerator)	er				117 0.4887		ЭН
	Preflush Slurry 1		20 bbl. sx Class G Ce + 3% CaCl2 (a	FreshWat ement accelerator)	er	ulation					ЭН
Surface:	Preflush Slurry 1	110 Density	20 bbl. sx Class G Ce + 3% CaCl2 (a	FreshWat ement accelerator) ellophane Flak Yield	er	ulation	additive) Water				ЭН
Surface:	Preflush Slurry 1	110	20 bbl. sx Class G Ce + 3% CaCl2 (a + 0.25 #/sk Ce	FreshWat ement accelerator) allophane Flai	er	ulation	additive) Water (gal/sk)	4.95			ЭН
Surface: Slurry Properties:	Preflush Slurry 1 TOC@Surface	Density (lb/gal)	20 bbl. sx Class G Ce + 3% CaCl2 (a + 0.25 #/sk Ce	FreshWat ement accelerator) ellophane Flai Yield (ft3/sk)	er	ulation	additive) Water (gal/sk)	4.95			ЭН
Surface:	Preflush Slurry 1 TOC@Surface	110 Density (lb/gal) 15.8 9-5/8", 8R, S	20 bbl. sx Class G Ce + 3% CaCl2 (a + 0.25 #/sk Ce	FreshWat ement accelerator) ellophane Flai Yield (ft3/sk)	er	ulation	additive) Water (gal/sk)	4.95			ЭН
Surface: Slurry Properties:	Preflush Slurry 1 TOC@Surface	Density (lb/gal) 15.8 9-5/8", 8R, S 1 Guide Shoe	20 bbl. sx Class G Ce + 3% CaCl2 (a + 0.25 #/sk Ce	FreshWat ement accelerator) ellophane Flai Yield (ft3/sk)	er	ulation	additive) Water (gal/sk)	4.95			ЭН
Surface: Slurry Properties:	Preflush Slurry 1 TOC@Surface	110 Density (lb/gal) 15.8 9-5/8", 8R, S	20 bbl. sx Class G Ce + 3% CaCl2 (a + 0.25 #/sk Ce	FreshWat ement accelerator) ellophane Flai Yield (ft3/sk)	er	ulation	additive) Water (gal/sk)	4.95			ЭН
Surface: Slurry Properties:	Preflush Slurry 1 TOC@Surface	Density (lb/gal) 15.8 9-5/8", 8R, S 1 Guide Shoot 1 Top Woode 1 Autofill inse	20 bbl. sx Class G Ce + 3% CaCl2 (a + 0.25 #/sk Ce T&C en Plug rt float valve	FreshWat ement accelerator) ellophane Flat Yield (ft3/sk) 1.16	er	ulation	additive) Water (gal/sk)	4.95			ЭН
Surface: Slurry Properties:	Preflush Slurry 1 TOC@Surface	Density (lb/gal) 15.8 9-5/8", 8R, S 1 Guide Shoot 1 Top Woode 1 Autofill inse	20 bbl. sx Class G Ce + 3% CaCl2 (a + 0.25 #/sk Ce	FreshWat ement accelerator) ellophane Flat Yield (ft3/sk) 1.16	er	ulation	additive) Water (gal/sk)	4.95			ЭН

Intermediate:

Cementing Program

20 bbl Fresh Water fresh water 270 sx Class "G" Cement 687 cuft Slurry 1 + 3% D79 extender TOC@Surface +1/4 #/sk. Cellophane Flake + 5 lb/sk Gilsonite Tail 60 sx 50/50 Class "G"/Poz 75 cuft Slurry 2 + 2% gel (extender) 0.1503 cuft/ft OH 500 ft fill +1/4 #/sk. Cellophane Flake + 2% CaCl2 (accelerator) 0.1746 cuft/ft csg ann + 5 lb/sk Gilsonite Yield Slurry Properties: Density Water (ft3/sk) (gal/sk) (lb/gal) Slurry 1 11.4 2.63 15.8 5.72 Slurry 2 13.5 1.27 Casing Equipment: 7", 8R, ST&C 1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud) 1 Stop Ring Centralizers one in middle of first joint, then every third collar 1 Top Rubber Plug 1 Thread Lock Compound Production: Fresh Water 10 bbl CW100 190 LiteCrete D961 / D124 / D154 473 cuft Lead Slurry 1 + 0.03 gps D47 antifoam TOC, 400' above 7" shoe + 0.5% D112 fluid loss + 0.11% D65 TIC Tail 140 sx 50/50 Class "G"/Poz 196 cuft Slurry 2 + 5% D20 gel (extender) 1366 ft fill + 0.1% D46 antifoam + 1/4 #/sk. Cellophane Flake + 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 (ft3/sk) (gal/sk) 0.1169 cuft/ft csg ann (lb/gal) Slurry 1 2.52 6.38 9.5 Slurry 2 13 1.44 6.5 Top of Mancos 5486 4-1/2", 8R, ST&C Casing Equipment: 1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud) 1 Stop Ring Centralizers, every 4th joint in mud drilled holes, none in air drilled holes.

1 Top Rubber Plug 1 Thread Lock Compound