Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR RURFALL OF LAND MANAGEMENT

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

BUREAU OF LAND	5. Lease Serial No. NMSF - 078513				
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	e Name		
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement,	Name and No.		
1b. Type of Well: ☐ Oil Well Gas Well ☐ O	ther Single Zone Multiple Zone	8. Lease Name and Well No ARNAUD A 2S			
Name of Operator Contact BP AMERICA PRODUCTION COMPANY	: MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No. 3 0 045 31	432		
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 Explor BASIN FRUITLAND	ratory		
4. Location of Well (Report location clearly and in accord	lance with any State requirements.*)	11. Sec., T., R., M., or Blk. a	and Survey or Area		
At surface SENW Lot 6 2065FNL 16	70FWL 36.59200 N Lat, 107.48400 W Lon	Sec 17 T32N R9W M	ler NMP		
At proposed prod. zone	18 13 70 22 3	F			
 Distance in miles and direction from nearest town or post MILES TO AZTEC, NEW MEXICO 	t office*	12. County or Parish SAN JUAN	13. State NM		
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 905 	16. No. of Acres in Lease 317.44	317.44 W/2	o this well		
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1500 	19. Proposed Depth 3877 MD	20. BLM/BIA Bond No. on i	file		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6872 GL	22. Approximate date work will start 04/18/2003	23. Estimated duration 3 DAYS			
	24. Attachments				
he following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to the	his 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 Surveyors. 					
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 03/04/2003		
Title AUTHORIZED REPRESENTATIVE					
Approved by (Signature) /s/ David J. Mankiewicz	Name (Printed/Typed)	ΛPi	Date 3 1 5 2003		
Title	Office	AF	1 3 440		
application approval does not warrant or certify the applicant h perations thereon. Conditions of approval, if any, are attached.	I olds legal or equitable title to those rights in the subject leads	ase which would entitle the app	licant to conduct		
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representa	make it a crime for any person knowingly and willfully to tions as to any matter within its jurisdiction.	make to any department or ago	ency of the United		

Additional Operator Remarks (see next page)

Electronic Submission #19104 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".

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

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
District IV
PO Box 2088, Santa Pe, 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

Staté Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

		WE	LL LO	CATION	AND ACRE	EAGE DEDIC	ATION PL	AT		
30-04	API Number	3143	2 2/	· Pool Code	· E	Basin Fruis	Hand 1	O.A.		
Property of OOO &	195	A	rnaud	A	⁵ Property	Name	,			Well Number # 2S
1 OCRID No. Operator Name Poperator Name Poperator Name Poperator Name 1 Operator Name										
	¹⁰ Surface Location									
UL or Lot No.	Section	Township	Range	Lot Idn	Lot Idn Feet from the North/South line Feet from the		East/Wes		County	
F (Lot 6)	17	32 N	9 W		2065 NORTH 1670 WE			EST	SAN JUAN	
r	6	T		**************************************	T	Different From				
² UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	it line	County
© Dedicated Acre	i ii loir	i er Infili	Consolidatio	n Code 12	Order No.		<u></u>			
317.44	4									
	VABLE	WILL BE	ASSIGNI	ED TO TH	IS COMPLETIC	ON UNTIL ALL	INTERESTS	HAVE BE	EN CC	NSOLIDATED
	the state of the s	OR A	TR-NON	ANDARE	UNIT HAS BE	EN APPROVED	BY THE DI	VISION		•
16				7			17 O P	ERATOR	CER	TIFICATION
					10707373					ation contained herein is my knowledge and belief.
1014	21	2.7.64	Lot 3		15 15 CU 2	Lot 1		, u		
Lot 4	۵. ۲		300		10-50	A Lati		21	/	
		2065		18	1 1 APR 200	b (3)		ud/I	/	41
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				1	Land Ja	No State	Signaro	Nacell	3/1	ed .
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16	70'		,	ŀ	15 S	Jan 1	10	1/201	20 l	13
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				17			<u>~~</u>		_	TIFICATION
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	1	39.	V J	1:				r my supervisio to the best of		at the same is true and
Lot 1	2 3	2	ot 11		Let 10	Lot 9		Januar		
	,	f f v					Date of	Survey	-	
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× 13	•		Lot 14	1	Lot 15	Lot 16				\$ /
I							70	6 SIONA	LAND	
				_[]			701 Certific	te Number		

... BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Arnaud A

Form 46 12-00 MNP

Lease:

Well No: 2S

Surface Location: Sec 17F, T32N, R9W; 2065' FNL, 1670' FWL Field: Basin Fruitland Coal

State: New Mexico

County: San Juan

OBJECTIVE: Drill to a 1	TD of 3877' md, se	t 7" casing	g and perf and frac th	e Fruitland Coal int	erval.				
ME	THOD OF DRI	LLING		APPROXIM	ATE DEP	THS OF C	EOLOGIC	AL MARK	ER
TYPE OF TOOLS	DEP	TH OF	DRILLING	Estimate	d GL: 68	72	Estimated	KB: 688	34
Rotary	0 - 3	3877' MI	D, 3889' KB	MARKE	₹	St	JBSEA	MEAS. I	DEPTH
	LOG PROGRA	ΔM		Ojo Alamo			4737		2135
				Kirtland			4599	}	2273
			_	Fruitland	.		3685		3187
TYPE	DEP	TH INVE	RAL	Fruitland Coa			3532		3340
<u>OPEN HOLE</u> Run 3-detector Litho-Den	Pictured Cliff	S		3143		3729			
(see Remarks section b									
CASED HOLE					,				
REMARKS:									
- Primary presentation is				.					
<1.75 g/cc shaded as coa interval only. Three final						1			
interval only. Three infar	prints to Dan Ore	Joby Mili	ousion.						
									·
				TOTAL DEP	· · · · · · · · · · · · · · · · · · ·	4	2995	Davi	3877
	SPECIAL TES	TC		# Probable co			* Possible		
TYPE	SPECIAL 1ES	13		FREQUENC			FREQUEN	LING TIM	PTH
None				none	none	וח	Geolograph		17 I II 1877
REMARKS: Obtain re	servoir press	uras hv	individual coal						
seam perore starting	production.								
seam before starting MUD PROGRAM: Approx. Interval		ne Mud	│ Weight, #/	ga Vis. sec/qt	. ∣ W/L co	:'s/30 mir	Other \$	Specificat	tion
MUD PROGRAM: Approx. Interval	Тур	oe Mud		ga Vis, sec/qt	: W/L co	c's/30 mir	Other §	Specificat	ion
MUD PROGRAM: Approx. Interval 0 - 120	Тур Spt		8.6-9.2	ga Vis, sec/qt	W/L c c	c's/30 mir	Other S	Specificat	ion
MUD PROGRAM: Approx. Interval 0 - 120	Typ Spu (1) Wa	bı	8.6-9.2 D 8.6-9.2	ga Vis, sec/qt	<6				ion
MUD PROGRAM: Approx. Interval 0 - 120 120 - 3877	Typ Spu (1) Wa	ud ter/LSN	8.6-9.2 D 8.6-9.2		<6				tion
MUD PROGRAM: Approx. Interval 0 - 120 120 - 3877 - REMARKS:	Typ Spu (1) Wa Gas	ud ter/LSN s/Air/N2	8.6-9.2 D 8.6-9.2 /Mist Volume s	sufficient to mai	<6 ntain a sta	ble and cl	ean wellbor	e	ion
MUD PROGRAM: Approx. Interval 0 - 120 120 - 3877 - REMARKS: (1) The hole will requir	(1) Spu (3) Wa Gas re sweeps to ke	ud ter/LSN s/Air/N2 eep unlo	8.6-9.2 D 8.6-9.2 /Mist Volume standed while fresh	sufficient to mai water drilling.	<6 ntain a sta Let hole co	ble and cl	ean wellbor	e iency.	
MUD PROGRAM: Approx. Interval 0 - 120 120 - 3877 REMARKS: (1) The hole will requir CASING PROGRAM: Casing String	(1) Spu (3) Wa Gas re sweeps to ke	ud ter/LSN s/Air/N2 eep unlo goods all Depth	8.6-9.2 D 8.6-9.2 /Mist Volume s paded while fresh ocation letter specific Casing Size	sufficient to mai water drilling.	<6 ntain a sta Let hole co	ble and cloonditions of sizes will be Hole Si	ean wellbordictate frequences governed by care Landi	e iency.	
MUD PROGRAM: Approx. Interval 0 - 120 120 - 3877 REMARKS: (1) The hole will require CASING PROGRAM: Casing String Surface/Conductor	(1) Spu (3) Wa Gas re sweeps to ke	ter/LSN s/Air/N2 eep unlo goods all Depth	8.6-9.2 D 8.6-9.2 /Mist Volume standed while fresh ocation letter specific Casing Size 9 5/8"	sufficient to mai water drilling.	<6 ntain a sta Let hole co	ble and clonditions of sizes will be Hole Si	ean wellbordictate frequence governed by control to the control to	e iency.	
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Cementing Program

Well Name: Location: County: State:	Arnaud A 2S Sec 17 - 32N - 9 San Juan New Mexico] W, 2065' FN	L, 1670" FWL		Field: API No. Well Flac Formation KB Elev (e GL Elev. (e	est)			Coal		
Casing Program Casing String	: Est. Depth	Hole Size	Casing Size	Thread	TOC		Stage Too	 i	Cmt Cir. Ou		
	(ft.)	(in.)	(in.)		(ft.)		Or TOL (ft		(bbl.)		
Surface Production -	120 3877	12.5 8.75	9.625 7	ST&C LT&C	Surface Surface		NA NA				
Casing Propertie	es:	(No Safety	Factor Included)								
Casing String	Size	Weight	Grade	Burst	Collapse		Joint St.		Capacity	Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)		(1000 lbs.)		(bbl/ft.)	(in.)	
Surface	9.625		2 H-40	3370		1400		254	0.078		8.845
Production -	7	' 2	0 K-55	3740		2270		234	0.040	5	6.456
Mud Program										:	
Apx. Interval	Mud Type	Mud Weigh	!	Recommer PV YP	<20	ropert	ies Prio Ce	menti	ing:		
0 - SCP	Water/Spud	8,6-9.	2	Fluid Loss	<10						
SCP - TD	Water/LSND	8.6 - 9.		riulu Loss	~0						
SCP - TD	Gas/Air/N2/Mist	0.0 U.									
			-								
Cementing Progra	am:										
			Surface		Product	tion					
Excess %, Lead			100		40						
Excess %, Tail			'NA		40						
BHST (est deg. F Special Instruction	•		75 1,6,7		120 2,4,6						
Special instruction	ns 1. Do not wash p	umne and lin			2,4,0	,					
	2. Wash pumps	•	6 3.								
	3. Reverse out	ana mioo.									
	4. Run Blend Te	st on Cement	i .								
	5. Record Rate,	Pressure, an	d Density on 3.5"	disk							
	6. Confirm densi	tometer with	pressurized mud s	scales							
	7. 1" cement to s	surface if cem	ent is not circulate	ed.							
•	8. If cement is no	ot circulated t	o surface, run tem	np. survey 10)-12 hr. afte	r landi	ng plug.				
			· · · · · · · · · · · · · · · · · · ·								
Notes:	*Do not wash up	on top of plu	g. Wash lines befo	ore displacin	g productio	n cem	ent job to m	inmiz	ze drillout.		
Surface:											
	Preflush		20 bbl.	FreshWate	r						
	Slurry 1	8	0 sx Class G Cem	nent					83	cuft	
	TOC@Surface		+ 2% CaCl2 (ac	celerator)							
			0.25 #/sk Cellop		(lost circula	tion ac	dditive)		0.347	cuft/ft	ОН
Slurry Properties:		Density		Yield			Water				
- ·		(lb/gal)		(ft3/sk)			(gal/sk)				
	Slurry 1	15.	8	1.16				4.95			
Casing Equipmen	t:	9-5/8", 8R, \$									
		1 Guide Sho									

Schlumberger Private

Amoco

Page 1

2/27/2003

Cementing Program

- 1 Top Wooden Plug
- 1 Autofill insert float valve

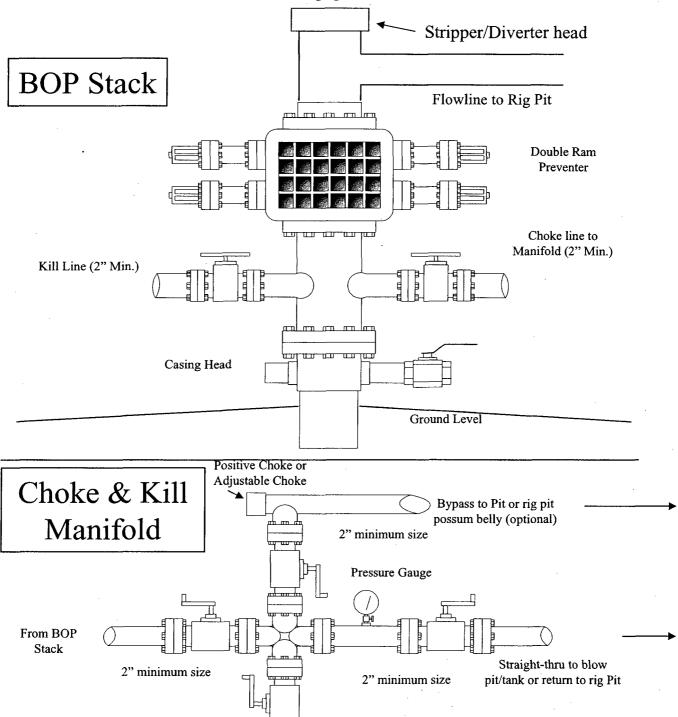
Centralizers, 1 per joint except top joint

- 1 Stop Ring
- 1 Thread Lock Compound

Production:						
	Fresh Water	1	0 bbl	CW100		
	Lead		280	sx Class "G" Cem	ent	706 cuft
	Slurry 1			+ 3% D79 extende	er	
	TOC@Surface			+ 2% S1 Calcium	Chloride	
				+1/4 #/sk. Celloph	ane Flake	
				+ 0.1% D46 antifo	am'	
	Tail		90	sx 50/50 Class "G	"/Poz	105 cuft
	Slurry 2			+ 2% gel (extende	r) ·	
	50	O ft fill		0.1% D46 antifoar	n	0.1503 cuft/ft OH
				+1/4 #/sk. Celloph	ane Flake	0.1746 cuft/ft csg ann
				+ 2% CaCl2 (acce	lerator)	
Slurry Properties	3:	Density		Yield	Water	
		(lb/gal)		(ft3/sk)	(gal/sk)	
Slurry 1		11.4		2.61	17.77	
Slurry 2		13.5		1.27	5.72	
Casing Equipme	ent:	7", 8R, ST&C				
		1 Float Shoe (a	utofill with min	imal LCM in mud)		
	•	1 Float Collar (a	autofill with mir	nimal LCM in mud)		
		1 Top Rubber P	lug			
		1 Thread Lock (Compound			

BP American Production Company Well Control Equipment Schematic





Adjustable Choke

Working Pressure for all equipment

is 2,000 psi or greater

2" minimum size

To Blow Tank or burn Pit