T-561 P.002/007 F-347

Form 3160-5 (August 1999)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

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	Lcase S	Scrial	No.		
	NMS	= - V.	785	13	

6.	If Indian.	Allottec -	or Tribc	Namo

BD8//DO//4G Wo/	, 030 10/11/01/00-0 (7/1/ 2)	, o, oco, p, opouzie.			
SUBMIT IN TRII	7. If Unit or CA/Agreement, Name and/or No.				
1. Type of Well ☐ Oil Well	8. Well Name and No. ARNAUD A 2S				
Name of Operator     BP AMERICA PRODUCTION	Contact: Ch	HERRY HLAVA Mail: hlavad@bp.com		9. API Well No. 30-045-31432	
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	ļ F	b. Phone No. (include area code) Ph: 281.366,4081 x: 281,366,0700	,	10. Field and Pool, or E BASIN FRUITLA	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)			11. County or Parish. a	nd State
Sec 17 T32N R9W SENW 206 36.59200 N Lat, 107.48400 W				SAN JUAN COU	NTY, NM
12. CHECK APPR	OPRIATE BOX(ES) TO I	NDICATE NATURE OF 1	NOTICE, RE	PORT, OR OTHER	DATA
TYPE OF SUBMISSION		TYPE O	FACTION		
Notice of Intent	☐ Acidize	☐ Deepen	Producti	on (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Fracture Treat	□ Reclama	ation	Well Integrity
☐ Subsequent Report	Casing Repair	■ New Construction	□ Recomp	lete	<b>⊗</b> Other
Final Abandonment Notice	☐ Change Plans	Plug and Abandon	☐ Tempor	arily Abandon	Change to Original A PD
	□ Convert to Injection	□ Plug Back	□ Water D	isposal	
determined that the site is ready for fi CHANGE TO 7" CASING DEF BP America production Compa Approval was granted 4/15/03 following:  We request to change the 7" c 280 sxs cement to 230 sxs cer It is our intent to drill into the P the lowest coal seam. At TD & FAX or e-mail a copy of the me	PTH; AIR DRILL & UNDER Fany made application to drill. We respectfully request to sg depth from 3877' to 3300 ment. ictured Cliffs and under rear prior to completion of the Fud log covering the lower batture and correct.	the above mentioned well change our drilling plan as by. This will change the lead me the Fruitland Coal to the ruitland Coal interval, the osal Fruitland coal seam and	on 3/04/03. I slurry from base of perator will d PC formati	on Carlon on Ex	Chip 6/30/03 3 4 5 6 70 00 00 00 00 00 00 00 00 00 00 00 00
Namo (Printed/Typed) CHERRY 1	For BP AMERICA PROD	714 verified by the BLM Well DUCTION COMPANY, sent to Title AUTHO	the Faming		1505 81 81 TB 20
Numeri Timed Typed) CHERRY	KIZEU KEP	RESENTATIVE			
Signature (Electronic S	ubmission)	Date 06/26/2	003		
	THIS SPACE FOR	FEDERAL OR STATE	OFFICE US	E	
Approved By  Conditions of approval, if any, are attached certify that the applicant holes logal or coul which would entitle the applicant to conduct the second of the se	t operations thereon.	Office 15	elng f	ે	60 ac l a
States any false, fictitious or fraudulent st	atements or representations as to a	iny matter within its jurisdiction.	williand to maj	ic to uny department or ag	gency of the United

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#### Jun-30-2003 11:07am From-BP AMOCO

# Additional data for EC transaction #23714 that would not fit on the form

#### 32. Additional remarks, continued

to the FFO-PMT geologist (Chip Harraden) We will also run a chromatograph to provide gas analysis of FC & PC formations.

If you have any technical questions please call Dan Crosby @ 281-366-0769.

#### UKILLING AND COMPLETION PROGRAM

Prospect Name: Arnaud A

Lease:

6-26-03

Well No: 2S

Surface Location: Section 17F, T32N, R9W; 2065'

FNL, 1670' FWL

County: San Juan

State: New Mexico February 20, 2003 Date:

Field: Basin Fruitland Coal

OBJECTIVE: Drill to a TD of 3877'	OBJECTIVE: Drill to a TD of 3877' md - topset FT with 7' casing and air drill the Fruitland Coal interval.								
METHOD O	FDRILLING	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER							
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL:		Estimated					
Rotary	0 – 3877' MD, 3889' KB	MARKER		SUBSEA	MEAS. DEPTH				
LOG PR	OGRAM	Ojo Alamo	}	4737	2135				
		Kirtiand		4599	2273				
		Fruitland		3685	3187				
TYPE	DEPTH INVERAL	Fruitland Coal	*#	3532	3340				
Mud log & gas chromatograph	<u> 3000 - 3750</u>	Pictured Cliffs		3143	3729				
REMARKS: At TD and prior to completion of operator will FAX or email a coplower basal Fruitland coal seam to the FFO-PMT geologist (Chipchip_harraden@nm.blm.gov).	TOTAL DEPTH # Probable comple		2995 * Possible						
SPECIAL	. 1E212	DRILL CUTTING			LING TIME				
TYPE			DEPTH	FREQUEN					
None	· · · · · · · · · · · · · · · · · · ·	none	none	Geolograph	0-3877				
REMARKS: Obtain reservoir productions seam before starting productions.									

_	ROGRAM: . Interval		Type Mud	Weight, #/ga   Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 120		Spud	8.6-9.2		
120	- <u>(3</u> 300.	(1)	Water/LSND	8.6-9.2	<6	
3300	- 3877		Gas/Air/N2/Mist	Volume sufficient to maint	tain 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)										
Estimated Depth	Casing Size	Grade			Landing Pt, Cmt, Etc.					
120	9 5/8"	_		12.5"	1					
3300 3877	7"			8.75"	1					
					•					
	Estimated Depth 120	Estimated Depth Casing Size 120 9 5/8"	Estimated Depth   Casing Size   Grade   120   9 5/8"	Estimated Depth   Casing Size   Grade   Weight   120   9 5/8"	Estimated Depth   Casing Size   Grade   Weight   Hole Size   12.5"					

#### REMARKS:

(1) Circulate Cement to Surface

CO	DIR	10		2	<b>`D</b>	AM:
$\mathbf{v}$	1711	10	ГN	S	$\mathbf{r}$	MIAI.

None

COMPLETION PROGRAM:

Rigless, Single 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

# **BP America Production Company BOP Pressure Testing Requirements**

Well Name: Arnaud A

County: San Juan

25

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2135 2273		
Kirtland Fruitland Coal	3340	500	o
PC	3729	1300	480
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

### **Cementing Program**

6-26-03

				-		<del></del>						
Mail blooms	Arnaud A 2S	٦٠			Fleid:	ė	asin Frui	tier.	C021			
Well Name:	Sec 17 - 32N - 9		1670° EIM		API No.	<u> </u>	13117 F141	Hand	1			
Location:		79, 2005 FNL,	IOIO LAAC		Well Flac	⊢			-			
County:	San Juan New Mexico	-∤			Formation	. 6	uitland (	021	1			
State:	Mem Mexico	_ <b>;</b> :			KB Elev (e			6884	1			
					GL Elev.	· —		5872	ł			
•					GL EIBY, (	- L		00/2	1 ·			
Casing Program	· · · · · · · · · · · · · · · · · · ·											
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Si	age Too	d	Cmt Cir.	Out		
ocoming owning	(ft.)	(in.)	(in,)	***************************************	(ft.)		TOL (f		(bbl.)			
Surface	120	12.5	9,625	ST&C	Surface	N.		,	(00.1)			
Production -	<u>(3300</u> )	8.75	7	LT&C	Surface	N.						
Casing Propertie			actor Included)									
Casing String	Size	Weight	Grade	Burst	Collapse	Jo	sint St.		Capacity	, [	Orift	
	(in,)	(lb/ft)		(psi.)227		(1	000 ibs.	)	(bbl/ft.)		in.)	
Surface	9,62	• •	2 H-40	-3370		1400	,	254		0787	•	8.845
Production -			K-55	3740		2270		234		0405		6.456
, , , , , , , , , , , , , , , , , , , ,								_				
Mud Program		<del></del>										
Apx. Interval	Mud Type	Mud Weight		Recommen	ded Mud P	Properties	Prio Ce	menti	ua.			
(ft.)				PV	<20							
				YP	<10							
0 - SCP	Water/Spud	8,6-9,2	<b>:</b>	Fluid Loss	<6							
SCP - TD	Water/LSND	NA.	<b>\</b>									
SCP - TD	Gas/Air/N2/Mist	Ai	<u>r</u>									
<u></u>						· //· /     -   -   -   -   -   -   -   -   -		···				
Cementing Progra	am:											
			Surface		Product	tion						
Excess %, Lead			100		40							
Excess %, Tail	,		NA 75		40							
BHST (est deg. F	•		75		120							
Special Instructio			1.6,7		2.4,6	5						
	1. Do not wash	•	5.									
	2. Wash pumps	and lines.										
	3. Reverse out											
	4. Run Biend Te		Danales 0 F#	alar.								
	5. Record Rate,		•									
	6. Confirm dens	•										
•	7. 1" coment to: 8. If coment is n				12 hr ofter	tandina a	l					
	O. 11 College 1 15 11	or chicking to	20118CA' (711 fait	ip. solvey 10-	16 · 11. and	sarroing p	ıvy.					
Notes:	*****								**************************************	- Signat	IN W. Names	
	*Do not wash up	on top of plug	. Wash lines befo	ore displacing	production	cement j	ob to mir	nmize	drillout.			
				_								
Surface:			-									
	Preflush		20 bbl.	FreshWate	r					$\bigcirc$ 2		
	÷									93		
	Slurry 1	80	sx Class G Cer	nent						83 c	uft	
	TOC@Surface		+ 2% CaCI2 (ad	ocelerator)								
			0.25 #/sk Cello	phane Flake (	lost circulat	ion additiv	√e)		٥	.347 ci	uft/ft O	н
			0.1% D46 antife						_			
Slurry Properties:		Density		Yield		γv	ater					
•		(lb/gal)		(ft3/sk)			1/sk)					
	Slurry 1	15.8		1.16		(8)		4,95				
	•							-,,				
Casing Equipmen	t:	9-5/8", 8R, S	T&C									
_ , , ,		1 Guide Shoe										
		1 Top Woode										
		1 Autofill inse	-									
			n noat valve 1 per joint excep	d ran inine								
		1 Stop Ring	i poi jonit excep	r rob loug								
		• •	k Comment									
		1 Thread Loc	k Compound									

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→ Jun-30-2003 11:08am From-BP AMOCO

### **Cementing Program**

Production:						
Production.	Fresh Water		10 bbi	CW100		
						400
	Lead			230 sx Class "G" Ceme	ent	585 cuft
	Slurry 1			+ 3% D79 extende	r	
	TOC@Surface	ı		+ 2% S1 Calcium C	Chloride	
	•			<ul><li>1/4 #/sk. Cellopha</li><li>+ 0.1% D46 antifox</li></ul>		114
	Tail			90 sx 50/50 Class "G"	/Poz	105 cuft
	Slurry 2			+ 2% gel (extender	")	
	5	00 ft fill		0.1% D46 antifoam	ļ	0.1503 curvit OH
				+1/4 #/sk. Cellopha	ine Flake	0.1746 cuft/ft csg ann
				+ 2% CaCI2 (accel	erator)	
Slurry Propertie	s:	Density		Yield	Water	714 /23
		(lb/gal)		(ft3/sk)	(gal/sk)	114 150
Slurry 1		11,4		2.61	17.77	
Sturry 2		13.5		1.27	5.72	
Casing Equipme	ent:	7", 8R, ST&	c			
		1 Float Sho	e (autofill with	minimal LCM in mud)		
		1 Float Colla	er (autofill with	minimal LCM in mud)		
		1 Top Rubb	er Plug			
		1 Thread Lo	ick Compound	<b>3</b>		