Form 3160-3 (August 1999)

(August 1999)) STATES	\/	FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000						
DEPARTMENT (UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANGEMENT APPLICATION OFOR PERMIT TO DRILL OR REENETER? Fathers					5. Cease Serial No. SF - 078509			
APPLICATION OF OR PERV	III TO DRILL OR	CREEKETER O FOR THIS	TOA,-	112.4	If Indian, Allottee or tribe	Name			
la. Type of Work: DRILL	REENTE	R		7.	If Unit or CA Agreement,	Name and No			
lb. Type of Well: Oil Well Gas Well Gas [Other	Single Zone Multiple Zo	one		Lease Name and Well No				
2. Name of Operator				9.	API Well No.				
BP America Production Company	Attn:	Cherry Hlava			30045	31960			
3a. Address P.O. Box 3092 Houston, Tx 77253-3092	3b. Phon 281-366	e No. (include area code). -4081	700		Field and Pool, or Explore	atory			
4. Loction of Well (Report location clearly and in a	ccordance with any	State requirements.*)		11.	Sec., T., R., M., or Blk, a	nd survey or Area			
At surface NESE (Lot 13) 1585' FSL &	800' FEL	To Marie	, 1	Sec	. 30 T32N R9W				
At proposed prod. Zone same				- 1					
14. Distance in miles and direction from nearest town	or post office*			12.	County or Parish	13. State			
17.5 miles N/E from Aztec, NM		<u>V</u>	ļ	San Juan NM					
15. Distance from proposed* Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 800'	17.	Spacing Unit dedicated to this well 311.61							
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 200'		19. Proposed Depth 3570'	1	BLM/BIA Bond No. on file Y2924					
21. Elevations (show whether DF, KDB., RT, GL, etc.		22. Approximate date work v	vill start	art* 23. Estimated duration					
6636' GL	<u>,</u>	11/15/03		3 days					
		24. Attachments							
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on Natis SUPO shall be filed with the appropriate Forest Section 1. 	onal forest System	4. Bond to cove 20 above). 5. Operator certification 20 above 20 a	r the op ification site spec	eration	s unless covered by an ex	as may be required by the			
25. Signature					Pate 0/06/2003				
Title	,	·			-				
Regulatory Analyst									
Approved by (Signature)	Name (Printed/T)	yped)		I	Date				
Title	Office								
Application approval does not warrant or certify the approperations thereon. Conditions of approval, if any, are attached.	olicant holds legal or	r equitable title to those rights in the	he subje	ct leas	e which would entitle the	applicant to conduct			
Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section any false, fictitious or fraudulent statements or represent			willfull	y to m	ake to any department or a	agency of the United States			

*(Instructions on reverse)

and appealipursuant to 43 CFR 3185.4

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

Additional Operator Remarks:

Notice of Staking was submitted on 9/15/2003

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 3570' and complete into the Basin Fruitland Coal Pool as per the attached drilling and completion procedure.

SUPPLEMENTAL TO SURFACE USE PLAN

New Facilities:

A 4" diameter buried steel pipeline that is + or - 600 feet in length will be constructed. The pipe wall thickness is .156 and the pipe wall strength is 42,000#. It will be adjacent to the access road and tie the well into an existing gas meter operated by BP America Production Company. The pipeline will not be used to transport gas to drill the well. After the well is spud the pipeline will be authorized by a right-of-way issued by Williams Field Services.

Waiting On Cement Time:

Waiver of 6 hr. Rule: Because BP America uses 3% CaCl2 in our slurry, we achieve 300 psi compressive strength after 1 hr. 50 min. and 500 psi after 3 hrs. 8 min. Therefore we respectfully request a 2 hr. waiting on cement time (rather than 6 hrs.) prior to commencing any nipple up operations. Please see the attached Compressive Strength chart.

High Productivity Area Well

In reference to Order No. R-8768-F dated July 17, 2003 BP America Production Co. has notified offset operator: Burlington Resources of our intent to drill above mentioned well. Notification was sent 10/08/2003 by certified mail, return receipt requested.

District I
PO Box 1980, Hebbs 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 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

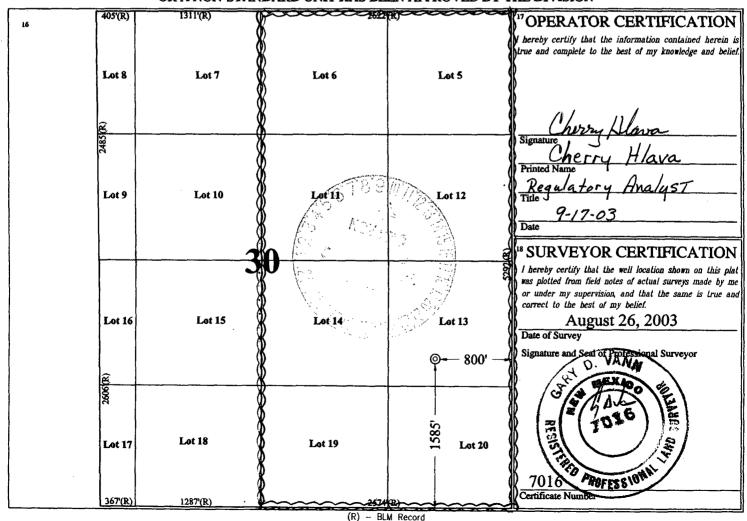
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	1960	1 Pool Code 71/229	Basin Fruitland Co	~~!
Property Code	7 7 00	11629	³ Property Name	• Well Number
000 710	Isa	bel A	# 1S	
7 OGRID No.			Operator Name	⁹ Elevation
000 778	BP	AMERICA PRO	ODUCTION COMPANY	6636

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 13)	30	32 N	9 W		1585	SOUTH	800	EAST	SAN JUAN
11 Bottom Hole Location If Different From Surface									
7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
]]						
¹³ Dedicated Acres 13 Joint or Infill H Consolidation Code 15 Order No.									
311.61		İ		ĺ					

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



Form 3160-5 (August 1999)

Final Abandonment Notice

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANGEMENT

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 (1)

Convert to Injection

FORM APPROVED
OMB No. 1004-0135
veniror Movember 20, 200

5. O Lease Serial No SF - 078509

If Indian, Allottee or tribe Name

		- 17			
SUBMIT IN TRIPLIC	CATE – Other instructions on reverse side	7. If Unit or CA/Agreement, Name and/or No.			
1. Type of Well Oil Well	Gas Well	8. Well Name and No. ISABEL A 1S			
2. Name of Operator BP AMERICA PRODUCTION C	OMPANY ATTN: Cherry Hlava	9. API Well No. 30045 31940			
3a. Address 501 WestLake Park Blvd Hou 77079	3b. Phone No. (include area code) 281-366-4081	10. Field and Pool, or Exploratory Area BASIN FRUITLAND COAL			
4. Location of Well (Footage, Section 30 T32N & R9W	c., T., R., M., or Survey Description) 1585' FSL & 800' FWL	11. County or Parish, State SAN JUAN, NM			
12. CHEC	CK APPROPRIATE BOX(ES) TO INDICATE NATURE OR NO	TICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF	ACTION			
Notice of Intent		oduction (Start/Resume)			
Subsequent Report		complete Other			

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Plug Back

On 10/6/03 BP America Production Company submitted, for BLM approval, Application for Permit Drill above mentioned well. On said application it was stated that Williams Field Services would be the transporting pipeline. This sundry is filed to revise that statement to Duke Energy will be the transporter.

If you have any questions please call me at 281-366-4081.

any false, fictitious or fraudulent statements or representations as to any matter witin its jurisdiction.

Title Regulatory Analyst
Date 10/10/03
ERAL OR STATE OFFICE USE
Title NOV - 5 2003
Office

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Isabel A #1S

Well No: 1S

Lease:

Surface Location: Section 30, T32N, R9W;

County: San Juan State:

New Mexico

Field: Basin Fruitland Coal

Date: September 30, 2003 OBJECTIVE: Drill to a TD of 3570' kb - topset FT with 7" casing and air drill the Fruitland Coal interval, run a 5 1/2" liner and perforate liner. METHOD OF DRILLING APPROXIMATE DEPTHS OF GEOLOGICAL MARKER Estimated GL: 6636 Estimated KB: 6649 TYPE OF TOOLS **DEPTH OF DRILLING** MEAS, DEPTH 0 - 3557' MD, 3570' KB MARKER SUBSEA Rotary 4546 Ojo Alamo LOG PROGRAM 2090 Kirtland 4428 2208 Fruitland 3521 3115 **TYPE DEPTH INVERAL Fruitland Coal** *# 3436 3200 **Pictured Cliffs** 3175 3461 Mud log & gas chromatograph 3180 - 3570 REMARKS: At TD and prior to completion of the Fruitland coal interval, the operator will FAX or email a copy of the mud log covering the lower basal Fruitland coal seam and Pictured Cliffs Formation to the FFO-PMT geologist (Chip Harraden @ 505-599- 8997 or chip harraden@nm.blm.gov). TOTAL DEPTH 3066 3570 # Probable completion interval * Possible Pay DRILL CUTTING SAMPLES DRILLING TIME **SPECIAL TESTS TYPE** FREQUENCY DEPTH FREQUENCY DEPTH None none none Geolograph 0-3570 **REMARKS**:

MUD PF Approx	ROGRAM . Interva			Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 12	20		Spud	8.6-9.2			
120	- 31	80	(1)	Water/LSND	8.6-9.2		<6	
3180	35	570 <u> </u>		Gas/Air/N2/Mist	Volume suff	ficient to maint	ain a stable and clea	in wellbore
DEMAD	KC.					<u></u>		

(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		Grade			Landing Pt, Cmt, Etc.		
Surface/Conductor	120	9 5/8"	H-40, 8 RND	32.3	12.5"	1		
Intermediate	3180	7"	J-55, 8 RND	20.0	8.75"	1		
Production Liner	2500 3130	5 ½"	J-55, 8 RND	15.5	11.0"	2 -		

REMARKS:

(1) Circulate Cement to Surface

(2) under-ream hole from 6.25" to 11.0" before running 5 1/2" liner.

CORING PROGRAM:

None

COMPLETION PROGRAM:			
No frac, perforated liner com	pletion. Run 2-3/8" reduced	l collar tubing to a depth of 3400' kb.	•
GENERAL REMARKS:			
Notify BLM/NMOCD 24 hours p	prior to Spud, BOP testing, and	d Casing and Cementing.	
Form 46 Reviewed by:	Lo	ogging program reviewed by: N/A	
PREPARED BY:	APPROVED:	DATE:	
Daniel Crosby		9/30/03	
Form 46 12-00 MNP			

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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 Coal

Equipment Specification

<u>Interval</u>

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 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 impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.

BOP Test Pressure

BP America Production Company BOP Pressure Testing Requirements

Well Name: Isabel

County: San Juan

15

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2090		
Kirtland	2208		
Fruitland Coal	3200	600	О
PC	3461	800	o
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

Basin Fruitland Coal Well Name: Isabel A #1S Field: API No. Location: Sec 30 - 32N - 9W Well Flac County: San Juan New Mexico Formation: Fruitland Coal State: KB Elev (est) 6649 GL Elev. (est) 6636 Casing Program: Casing String Hole Size Casing Size TOC Stage Tool Cmt Cir. Out Thread Est. Depth Or TOL (ft.) (ft.) (in.) (in.) (ft.) (bbl.) Surface 120 12.5 9.625 ST&C Surface Production -LT&C Surface NA 3180 8.75 Casing Properties: (No Safety Factor Included) Casing String Collapse Joint St. Capacity Drift Size Weight Grade Burst (psi.) (bbl/ft.) (lb/ft) (psi.) (1000 lbs.) (in.) (in.) Surface 9.625 32 H-40 3370 1400 254 0.0787 8.845 3740 2270 0.0405 Production -7 20 K-55 234 6.456 Mud Program Apx. Interval **Mud Type Mud Weight** Recommended Mud Properties Prio Cementing: (ft.) PV ΥP <10 Water/Spud 0 - SCP 8.6-9.2 Fluid Loss <6 SCP - TD Water/LSND 8.6-9.2 Gas/Air/N2/Mist SCP - TD NA Cementing Program: Surface Production Excess %. Lead 100 40 Excess %, Tail NA 40 BHST (est deg. F) 75 120 Special Instructions 1,6,7 2,4,6 1. Do not wash pumps and lines. 2. Wash pumps and lines. 3. Reverse out 4. Run Blend Test on Cement 5. Record Rate, Pressure, and Density on 3.5" disk 6. Confirm densitometer with pressurized mud scales 7. 1" cement to surface if cement is not circulated. 8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug. Notes: *Do not wash up on top of plug. Wash lines before displacing production cement job to minmize drillout. Surface: Preflush 20 bbl. FreshWater Slurry 1 110 sx Class G Cement 117 cuft TOC@Surface + 2% CaCl2 (accelerator) 0.25 #/sk Cellophane Flake (lost circulation additive) 0.4887 cuft/ft OH 0.1% D46 antifoam Slurry Properties: Density Yield Water (lb/gal) (ft3/sk) (gal/sk) Slurry 1 15.8 1.16 4.95 Casing Equipment: 9-5/8", 8R, ST&C 1 Guide Shoe 1 Top Wooden Plug 1 Autofill insert float valve Centralizers, 1 per joint except top joint 1 Stop Ring 1 Thread Lock Compound

Cementing Program

Production:						
	Fresh Water	10 bb	l	CW100		
	Lead		220	sx Class "G" Cement		560 cuft
	Slurry 1			+ 3% D79 extender		
	TOC@Surface			+ 2% S1 Calcium Chlorid	le	
				+1/4 #/sk. Cellophane Fla	ake	
				+ 0.1% D46 antifoam'		
	Tail		90	sx 50/50 Class "G"/Poz		105 cuft
	Slurry 2			+ 2% gel (extender)		
	500	ft fill		0.1% D46 antifoam		0.1503 cuft/ft OH
				+1/4 #/sk. Cellophane Fla		0.1746 cuft/ft csg ann
				+ 2% CaCl2 (accelerator))	
Slurry Properties	:	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 Equipmen	nt:	7", 8R, ST&C				
		1 Float Shoe (autofil	l with mini	mal LCM in mud)		
		1 Float Collar (autof	ill with min	imal LCM in mud)		
		1 Top Rubber Plug				
		1 Thread Lock Com	pound			