

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. RIDDLE 2B
2. Name of Operator BP AMERICA PRODUCTION CO		9. API Well No. 30-045-31949-00-X1
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 Exploratory BLANCO MESAVERDE
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 17 T30N R9W NESW 1670FSL 2540FWL		11. County or Parish, and State SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 recompleat 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.)

Original APD submitted on 10/06/2003, and approved on 11/26/2003.

BP America submits for your approval amendements to the casing size and cementing program for the subject well as per the attached documents.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #26831 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by ADRIENNE GARCIA on 01/21/2004 (04AXG0206SE)	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 01/14/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Original Signed: Stephen Mason	Title	DATE JAN 22 2004
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOcn

**BP AMERICA PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Riddle
Lease: Riddle
County: San Juan
State: New Mexico
Date: January 7, 2004

Well No: 2 B
Surface Location: 17-30N-9W, 1670 FSL, 2540 FWL
Field: Blanco Mesaverde

OBJECTIVE: Drill 400' below the top of the Point Lookout Sandstone, set 2 7/8" production longstring, Stimulate CH, MF and PL intervals																																										
METHOD OF DRILLING				APPROXIMATE DEPTHS OF GEOLOGICAL MARKER																																						
TYPE OF TOOLS		DEPTH OF DRILLING		Estimated GL: 6100'		Estimated KB: 6114'																																				
Rotary		0 - TD																																								
LOG PROGRAM																																										
TYPE		DEPTH INVERAL																																								
<u>OPEN HOLE</u>																																										
None																																										
<u>CASED HOLE</u>																																										
GR-CCL		TD to 5 1/2" shoe																																								
REMARKS: - Please report any flares (magnitude & duration).				MARKER																																						
				SUBSEA																																						
				TVD																																						
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Ojo Alamo</td> <td></td> <td>4521</td> <td>1593</td> </tr> <tr> <td>Kirtland</td> <td></td> <td>4467</td> <td>1647</td> </tr> <tr> <td>Fruitland</td> <td></td> <td>3930</td> <td>2184</td> </tr> <tr> <td>Fruitland Coal</td> <td>*</td> <td>3555</td> <td>2559</td> </tr> <tr> <td>Pictured Cliffs</td> <td>*</td> <td>3305</td> <td>2809</td> </tr> <tr> <td>Lewis</td> <td>*</td> <td>3088</td> <td>3026</td> </tr> <tr> <td>Cliff House</td> <td>#</td> <td>1797</td> <td>4317</td> </tr> <tr> <td>Menefee</td> <td>#</td> <td>1470</td> <td>4644</td> </tr> <tr> <td>Point Lookout</td> <td>#</td> <td>1057</td> <td>5057</td> </tr> <tr> <td>Mancos</td> <td></td> <td>701</td> <td>5413</td> </tr> </table>			Ojo Alamo		4521	1593	Kirtland		4467	1647	Fruitland		3930	2184	Fruitland Coal	*	3555	2559	Pictured Cliffs	*	3305	2809	Lewis	*	3088	3026	Cliff House	#	1797	4317	Menefee	#	1470	4644	Point Lookout	#	1057	5057
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				TOTAL DEPTH																																						
				657																																						
				5457																																						
				# Probable completion interval																																						
				* Possible Pay																																						
SPECIAL TESTS				DRILL CUTTING SAMPLES		DRILLING TIME																																				
TYPE				FREQUENCY	DEPTH	FREQUENCY																																				
None				None	Production hole	Geolograph																																				
						0-TD																																				
REMARKS:																																										
MUD PROGRAM:																																										
Approx. Interval		Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification																																				
0 - 120 200		Spud	8.6-9.2																																							
120 - 2509 (1)		Water/LSND	8.6-9.2		<6																																					
2509 - 5457		Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean 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	200-120	8 5/8"	X-42 ST&C	20#	12.25"	1																																				
Intermediate 1	2509	5 1/2"	J-55 ST&C	15.5#	7.875"	1,2																																				
Production	5457	2 7/8"	J-55	6.5#	4.75"	3,4																																				
REMARKS:																																										
(1) Circulate Cement to Surface																																										
(2) Set casing 50' above Fruitland Coal																																										
(3) Bring cement 100' above 5 1/2" 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:																																						
HGJ/MNP/JMP				January 7, 2003																																						
				Version 2.0																																						
Form 46 12-00 MNP																																										

BOP Test Pressure

BP America Production Company BOP Pressure Testing Requirements

Well Name: Riddle
County: San Juan

2 B
State: New Mexico

Formation	Estimated TVD/MD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1593		
Fruitland Coal	2559		
PC	2809		
Lewis Shale	3026		
Cliff House	4317	500	0
Menefee Shale	4644		
Point Lookout	5057	600	0
Mancos	5413		
Dakota	-		

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

Requested BOP Pressure Test Exception: 750 psi

Cementing Program

Well Name: Riddle 2B
 Location: 17-30N-09W, 1670 FSL, 2540 FWL
 County: San Juan
 State: New Mexico

Field: Blanco Mesaverde
 API No.
 Well Flac
 Formation: MesaVerde
 KB Elev (est) 6114
 GL Elev. (est) 6100

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)
Surface	120 200	12 1/4	8 5/8	ST&C	Surface	NA
Intermediate	2509	7 7/8	5 1/2	ST&C	Surface	NA
Production -	5457	4 3/4	2 7/8		2409	NA

Casing Properties:

(No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface	8 5/8	24	X42	2950	1370	244	0.06368	7.972
Intermediate	5 1/2	15.5	J55	4810	4040	202	0.0238	5.067
Production -	2 7/8	6.5	J-55	7264	7676	72	0.00579	2.375

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prior Cementing:
0 - SCP	Water/Spud	8.6-9.2	Fluid Loss <6
SCP - ICP	Water/LSND	8.6-9.2	
ICP - TD	Gas/Air Mist	NA	

Cementing Program:

	Surface	Intermediate	Production
Excess %, Lead	100	100	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	72	110	159
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6	1,6	2,6

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.

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	90 sx Class G Cement		95 cuft
TOC@Surface	+ 3% CaCl2 (accelerator)		
	0.25 #/sk Cellophane Flake (lost circulation additive)		0.3961 cuft/ft OH
	0.1% D46 antifoam		100 % excess
Slurry Properties:	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	15.8	1.16	4.95

Cementing Program

Intermediate:

Fresh Water	20 bbl	fresh water		
Lead		270 sx Class "G" Cement		679 cuft
Slurry 1		+ 3% D79 extender		
TOC@Surface		+ 1/4 #/sk. Cellophane Flake		
		+ 0.1% D46 antifoam'		
Tail		70 sx 50/50 Class "G"/Poz		87 cuft
Slurry 2		+ 2% gel (extender)		
		0.1% D46 antifoam		
500 ft fill		+ 1/4 #/sk. Cellophane Flake		0.1733 cuft/ft OH
		+ 2% S1 Calcium Chloride		0.2009 cuft/ft csg ann
				80 % excess
Slurry Properties:	Density	Yield	Water	
	(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry 1	11.7	2.61	17.77	
Slurry 2	13.5	1.27	5.72	

Production:

Fresh Water	10 bbl	CW100		
Slurry		140 LiteCrete D961 / D124 / D154		334 cuft
		+ 0.03 gps D47 antifoam		
		+ 0.5% D112 fluid loss		
TOC@Liner Top		+ 0.11% D65 TIC		
				0.078 cuft/ft OH
				40 % excess
Slurry Properties:	Density	Yield	Water	
	(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry	9.5	2.52	6.38	0.0886 cuft/ft csg ann

BLM CONDITIONS OF APPROVAL

Operator: BP America Production Company

Well Name: Riddle 2B

Legal Location: 1670' FSL, 2540' FWL; sec. 17, T30N, R9W

Lease No.: NMSF 080244

Please adhere to the previously issued stipulation:

This well is located within a “venerable area”. In order to protect the integrity of the alluvium aquifer, a MINIMUM surface casing setting depth of 200’ is stipulated as a condition of approval for this APD.