

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.**5. Lease Serial No.  
NMSF - 078051

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
MUDGE COM B 2M9. API Well No.  
30-045-3189810. Field and Pool, or Exploratory  
BASIN DAKOTA/BLANCO MESAVERI11. County or Parish, and State  
SAN JUAN COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

BP AMERICA PRODUCTION COMPANY

Contact:

CHERRY HLAVA

E-Mail: hlavacl@bp.com

## 3a. Address

P.O. BOX 3092  
HOUSTON, TX 77253

## 3b. Phone No. (include area code)

Ph: 281.366.4081

Fx: 281.366.0700

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 14 T31N R11W SESW 2370FNL 1680FWL  
36.54000 N Lat, 107.57800 W Lon

## 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	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 filed on 09/17/2003, was approved on 11/25/2003.

BP America submits for your approval our amended cement report. On Feb. 10, 04 the BLM approved a new surface ement slurry. This new type C slurry with 2% CaCl achieves a compressive strenth of 275 psi in 4 hrs and 615 psi in 8 hrs. Therefore all BLM & OCD requirements are met to commence N/U operations after 4 hrs. and pressure testing after 8 hrs.

Please see the revised cement program.

**CONDITIONS OF APPROVAL**

Adhere to previously issued stipulations.

14. Thereby certify that the foregoing is true and correct. <b>Electronic Submission #27946 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington</b>	
Name (Printed/Typed) CHERRY HLAVA	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 02/16/2004

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>Ind. Adherence Garcia</u>	Title	Date
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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

NMOCD

# Cementing Program

Well Name: Mudge Com B2M	Field: Blanco Mesaverde / Basin Dakota
Location: 14-31N-11W, 2370 FNL, 1680 FWL	API No.
County: San Juan	Well Flac
State: New Mexico	Formation: Blanco Mesaverde/Basin Dakota
	KB Elev (est) 6003
	GL Elev. (est) 5989

## Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	120	13.5	9.625	ST&C	Surface	NA	
Intermediate	2968	8.75	7	ST-LT&C	Surface	NA	
Production -	7342	6.25	4.5	ST&C	2868	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	9.625		32 H-40	3370	1400	254	0.0787	8.845	
Intermediate	7		20 K-55	3740	2270	234	0.0405	6.456	
Production -	4.5		11.6 J-55	5350	4960	154	0.0155	3.875	

## Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prio Cementing:
			PV <20
			YP <10
			Fluid Loss <15
0 - SCP	Water/Spud	8.6-9.2	
SCP - ICP	Water/LSND	8.6-9.2	
ICP - ICP2	Gas/Air Mist	NA	
ICP2 - TD	LSND	8.6 - 9.2	

## Cementing Program:

	Surface	Intermediate	Production
Excess %, Lead	100	75	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	75	120	183
Special Instructions	1,6,7	1,6,8	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 minimize drillout.

## Surface:

Preflush 20 bbl. FreshWater

Slurry 1 100-sx Class C Cement  
TOC@Surface + 2% CaCl2 (accelerator)

127  
117 cuft

0.4887 cuft/ft OH

## Slurry Properties:

	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.2	1.27	5.8

# Cementing Program

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

## Intermediate:

Fresh Water	20 bbl	fresh water	
Lead	250 sx Class "G" Cement		658 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)		
500 ft fill	+ 1/4 #/sk. Cellophane Flake		0.1503 cuft/ft OH
	+ 2% CaCl2 (accelerator)		0.1746 cuft/ft csg ann
	+ 5 lb/sk Gilsonite		

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.63	15.8
Slurry 2	13.5	1.27	5.72

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	
Lead	190 LiteCrete D961 / D124 / D154		479 cuft
Slurry 1	+ 0.03 gps D47 antifoam		
TOC, 400' above 7" shoe	+ 0.5% D112 fluid loss		
	+ 0.11% D65 TIC		
Tail	160 sx 50/50 Class "G"/Poz		230 cuft
Slurry 2	+ 5% D20 gel (extender)		
1560 ft fill	+ 0.1% D46 antifoam		
	+ 1/4 #/sk. Cellophane Flake		
	+ 0.25% D167 Fluid Loss		
	+ 5 lb/sk Gilsonite		

# Cementing Program

+0.1% d800, retarder  
+0.15% D65, dispersant

0.1026 cuft/ft OH

## Slurry Properties:

	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water (gal/sk)	
Slurry 1	9.5	2.52	6.38	0.1169 cuft/ft csg ann
Slurry 2	13	1.44	6.5	Top of Mancos 5282

## Casing Equipment:

4-1/2", 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, every 4th joint in mud drilled holes, none in air drilled holes.  
1 Top Rubber Plug  
1 Thread Lock Compound

## **BLM CONDITIONS OF APPROVAL**

**Operator:** BP America Production Company

**Well Name:** Mudge Com B 2M

**Legal Location:** 2370' FNL, 1680' FWL; sec. 14, T31N, R11W

**Lease No.:** NMSF 078051

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.**