Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT

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.

2005 JUN 27 PM 2 06

SUBMIT IN TRIPLICATE – Other instructions on reverse side

RECEIVED
070 FARMINGTON NM
JUL 2005
OIL CONS. DIV.
DIST. 3

1. Type of Well ☐ Oil Well ■ Gas Well ☐ Other	5. Lease Serial No. **NMSF 078138A**
	6. If Indian, Allottee or tribe Name
	7. If Unit or CA/Agreement, Name and/or No.
	8. Well Name and No. **STOREY B 1M**
2. Name of Operator **BP AMERICA PRODUCTION COMPANY**	9. API Well No. **30-045-32324**
3a. Address **PO BOX 3092 HOUSTON, TX 77253** 3b. Phone No. *(include area code)* **281-366-4081**	10. Field and Pool, or Exploratory Area **BASIN DAKOTA & BLANCO MESAVERDE**
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* **720' FSL & 1735' FEL; SEC 11 T30N R11W SWSE Mer NMP**	11. County or Parish, State **SAN JUAN, NM**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	■ Other **Chng Csg Depths**
	☐ Change Plans	☐ Plug and Abandon	☐ Water Disposal	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back		

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.

Request to change well bore from directional to vertical was approved 5/31/05

BP respectfully requests BLM approval to change casing depths and cement program due to well being on the edge of the Cliffhouse waterline. (Offset wells have set intermediate pipe through the Mesaverde formation) Please see the attached drilling program and cement report.

14. I hereby certify that the foregoing is true an dcorrect
Name (Printed/typed)

Cherry Hlava **281-366-4081** | Title **Regulatory Analyst**

Signature Cherry Hlava | Date **06/23/2005**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Adrienne Brumley | Title Pet. Eng | Date 6/30/05

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 FFO

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 witin its jurisdiction.

NMOCD

BP AMERICA PRODUCTION COMPANY

DRILLING AND COMPLETION PROGRAM

5/24/2005 Revision 6/22/05

Lease:	Storey B	**Well Name & No.**	Storey B #1M	**Field:**	Blanco Mesaverde/Basin Dakota
County:	San Juan, New Mexico	**Surface Location:**	11-30N-11W: 720' FSL, 1735' FEL		
Minerals:	State	**Surface:**	Lat: 36.8211600 deg; Long: -107.9569823 deg		
Rig :	Aztec 184	**BH Location:**	same		

OBJECTIVE: Drill 270' below the top of the Two Wells Mbr, set 4-1/2" production casing, Stimulate DK, MF, and PL intervals.

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	0 - TD

LOG PROGRAM

Type	Depth Interval
Single Run	
Cased Hole	
TDT- CBL	TD to 7" shoe
	Identify 4 ½" cement top

REMARKS:

- Please report any flares (magnitude & duration).

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Actual GL: 5827 Estimated KB: 5,841.0'

Marker		SUBSEA	TVD	APPROX. MD
Ojo Alamo		4,892'	949'	949'
Kirtland		4,826'	1,015'	1,015'
Fruitland	*	4,097'	1,744'	1,744'
Fruitland Coal	*	3,813'	2,028'	2,028'
Pictured Cliffs	*	3,503'	2,338'	2,338'
Lewis	*	3,269'	2,572'	2,572'
Cliff House	#	1,953'	3,888'	3,888'
Menefee	#	1,711'	4,130'	4,130'
Point Lookout	#	1,214'	4,627'	4,627'
Mancos		877'	4,964'	4,964'
Greenhorn		-792'	6,633'	6,633'
Graneros (bent,mkr)		-845'	6,686'	6,686'
Two Wells	#	-899'	6,740'	6,740'
Paguate	#	-975'	6,816'	6,816'
Cubero	#	-1,024'	6,865'	6,865'
L. Cubero	#	-1,079'	6,920'	6,920'
Encinal Cyn	#	-1,127'	6,968'	6,968'
TOTAL DEPTH:		-1,269'	7,110'	7,110'

Probable completion interval * Possible Pay

SPECIAL TESTS

TYPE
None

DRILL CUTTING SAMPLES

FREQUENCY	DEPTH
30'/10' intervals	2,672' to TD

DRILLING TIME

FREQUENCY	DEPTH
Geolograph	0 - TD

REMARKS:

MUD PROGRAM:

Interval	TypeMud	#/gal	Vis, sec/qt	/30 min	Other Specification
320'	Spud	8.8 - 9.0	Sufficient to clean hole.		
5,064'	Water/LSND	8.4 - 9.0		<9	Sweep hole while whilst water drilling, LCM onsite
7,110'	Air	1	1000 cfm for hammer		Volume sufficient to maintain a stable and clean wellbore

CASING PROGRAM:

CasingString	Depth	Size	Casing Size	Grade, Thread	Weight	Landing Point	Cement
Surface/Conductor	320'	13 1/2"	9-5/8"	H-40 ST&C	32#		cmt to surface
Intermediate 1a	4,000'	8-3/4"	7"	J/K-55 ST&C	20#		
Intermediate 1b	1,064'	8-3/4"	7"	J/K-55 ST&C	23#	100' below MCS	cmt to surface
Production	7,110'	6-1/4"	4-1/2"	J-55	11.6#	DKOT	150' inside Intermediate - TOC survey required

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 2-3 Stage Limited Entry Hydraulic Frac, FMC Unihead

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

BOP Pressure Testing Requirements

Formation	Depth	Anticipated bottom hole pressure	Max anticipated surface pressure**
Cliffhouse	3,888'	500	0
Point Lookout	4,627'	600	0
Dakota	6,740'	2600	1117.2

Requested BOP Pressure Test Exception = 1500 psi

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

Form 46 Reviewed by:	Logging program reviewed by:			
PREPARED BY:	**APPROVED:**	**DATE:**	**APPROVED:**	**DATE:**
HGJ JMP		/24/2005 Revision > 6/22/0		
Form 46 7-84bw	For Drilling Dept.		For Production Dept.	

Cementing Program

Revision 6/23/05

Well Name:	Storey B1M	Field:	Blanco Mesaverde / Basin Dakota
Location:	11-30N-11W, 720 FSL, 1735 FEL	API No.	
County:	San Juan	Well Flac	
State:	New Mexico	Formation:	Dakota MesaVerde
		KB Elev (est)	5841
		GL Elev. (est)	5827

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	320	13.5	9.625	ST&C	Surface	NA	
Intermediate	5064	8.75	7	~~ST~~ LT&C	Surface	NA	
Production -	7110	6.25	4.5	?	4964	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	~~3870~~ 2270	1400	254	0.0787	8.845
Intermediate	7	20	K-55	3740	2270	~~254~~ 284	0.0405	6.456
Production -	4.5	11.6	J-55	5350	~~4960~~	154	0.0155	3.875

see drilling program for tapered intermediate casing.

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight
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

Recommended Mud Properties Prio Cementing:

PV	<20
YP	<10
Fluid Los:	<15

Cementing Program:

	Surface	Intermediate	Production
Excess %, Lead	100	75	N/A
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 minmize drillout.

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	170	sx Class G Cement	200 cuft
TOC@Surface		+ 3% CaCl2 (accelerator)	
			0.3132 cuft/ft OH

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)		Water (gal/sk)
Slurry 1	15.8	1.18		4.98

Casing Equipment: 9-5/8", 8R, ST&C

Cementing Program

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	470	LiteCrete D961 / D124 / D154	1172	cuft
Slurry 1		+ 0.03 gps D47 antifoam		
TOC@Surface		+ 0.5% D112 fluid loss		
		+ 0.11% D65 TIC		
		+ 0.1% D46 antifoam'		
Tail	60	sx 50/50 Class "G"/Poz	75	cuft
Slurry 2		+ 2% gel (extender)		
500 ft fill		0.1% D46 antifoam	0.1503	cuft/ft OH
		+1/4 #/sk. Cellophane Flake	0.1746	cuft/ft csg ann
		+ 2% CaCl2 (accelerator)		

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	9.5	2.52	6.38
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
14 Centralizers (one in middle of first joint, then every third collar)
2 Fluidmaster vane centalizers @ base of Ojo
1 Top Rubber Plug
1 Thread Lock Compound

Production:

Fresh Water	10 bbl	CW100		
Lead	N/A			cuft
Slurry 1				
TOC, 100' above 7" shoe				
Tail	216	sx 50/50 Class "G"/Poz	311	cuft
Slurry 2		+ 5% D20 gel (extender)	+ 5 #/sk D24 gilsonite	
1646 ft fill		+ 0.1% D46 antifoam	+ 0.15% D65 TIC	
		+ 1/4 #/sk. Cellophane Flake	+ 0.1% D800 retarder	
		+ 0.25% D167 Fluid Loss		
			0.1026	cuft/ft OH

Slurry Properties:	Density (lb/gal)		Yield (ft3/sk)	Water (gal/sk)	0.1169 cuft/ft csg ann
Slurry 1	0	0	0	0	
Slurry 2	13		1.44	6.5	Top of Mancos 4964

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

Cementing Program

Centralizers, every 4th joint in mud drilled holes, none in air drilled holes.

1 Top Rubber Plug

1 Thread Lock Compound