

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.  
NMSF077123

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
WARREN LS 2B9. API Well No.  
30-045-31969-00-X110. Field and Pool, or Exploratory  
BLANCO MESAVERDE11. 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 CO

Contact: MARY CORLEY

E-Mail: corleym@bp.com

3a. Address

P. O. BOX 3092  
HOUSTON, TX 77253

3b. Phone No. (include area code)

Ph: 281.366.4491  
Fx: 281.366.0700

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

Sec 12 T28N R9W SESE Lot P Tract P 1105FSL 1095FEL  
36.40300 N Lat, 107.44100 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       | 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 recomple 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 recomple 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 10/15/2003, APPROVED on 11/20/2003. Production casing amendment submitted and approved on 02/10/2004.

BP America submits for your approval amendments to our surface cementing program for the subject well. Please reference attached cementing report for detailed information.

However, should conditions change, BP request as an alternate to conventional drilling program to drill the subject well with air/air mist in lieu of drilling mud and preset the surface casing using approximately 90 CU/FT TYPE I-II, 20% FLYASH, 14.5 PPG, 7.41 GAL/SK, 1.61 CF/SK YIELD, 80 DEG BHST READY MIX CMT

|  |                                 |
|--|---------------------------------|
| 14. I hereby certify that the foregoing is true and correct.   |                                 |
| Electronic Submission #28042 verified by the BLM Well Information System<br>For BP AMERICA PRODUCTION CO, sent to the Farmington<br>Committed to AFMSS for processing by ADRIENNE GARCIA on 02/19/2004 (04AXG0649SE) |                                 |
| Name (Printed/Typed) MARY CORLEY   | Title AUTHORIZED REPRESENTATIVE |
| Signature (Electronic Submission)  | Date 02/18/2004                 |

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

|   |        |             |
|---|--------|-------------|
| Approved by <u>Adrienne 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 | FEB 19 2004 |

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 \*\*

NMOCD

# Cementing Program

Well Name: Warren LS 2B  
 Location: 12-28N-09W, 1140 FNL, 1095 FEL  
 County: San Juan  
 State: New Mexico

Field: Blanco Mesaverde  
 API No.  
 Well Flac  
 Formation: MesaVerde  
 KB Elev (est) 5759  
 GL Elev. (est) 5745

## Casing Program:

| Casing String | Est. Depth<br>(ft.) | Hole Size<br>(in.) | Casing Size<br>(in.) | Thread | TOC<br>(ft.) | Stage Tool<br>Or TOL (ft.) |
|---------------|---------------------|--------------------|----------------------|--------|--------------|----------------------------|
| Surface       | 120                 | 12 1/4             | 8 5/8                | ST&C   | Surface      | NA                         |
| Intermediate  | 1851                | 7 7/8              | 5 1/2                | ST&C   | Surface      | NA                         |
| Production -  | 4785                | 4 3/4              | 2 7/8                |        | 1751         | NA                         |

## Casing Properties:

(No Safety Factor Included)

| Casing String | Size<br>(in.) | Weight<br>(lb/ft) | Grade | Burst<br>(psi.) | Collapse<br>(psi.) | Joint St.<br>(1000 lbs.) | Capacity<br>(bbl/ft.) | Drift<br>(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<br>(ft.) | Mud Type     | Mud Weight | Recommended Mud Properties Prio 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           | 80 sx Class G Cement                                   |                                | 95 cuft           |
| TOC@Surface        | + 2% CaCl (accelerator)                                |                                |                   |
|                    | 0.25 #/sk Cellophane Flake (lost circulation additive) |                                | 0.3961 cuft/ft OH |
|                    | 0.1% D46 antifoam                                      |                                | 100 % excess      |
| Slurry Properties: | Density<br>(lb/gal)                                    | Yield<br>(ft <sup>3</sup> /sk) | Water<br>(gal/sk) |
| Slurry 1           | 15.2   | 1.27                           | 5.8               |

## Intermediate:

# Cementing Program

|             |        |                             |                        |
|-------------|--------|-----------------------------|------------------------|
| Fresh Water | 20 bbl | fresh water                 |                        |
| Lead        |        | 190 sx Class "G" Cement     | 470 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) | (ft <sup>3</sup> /sk) | (gal/sk) |
| Slurry 1           | 11.7     | 2.61                  | 17.77    |
| Slurry 2           | 13.5     | 1.27                  | 5.72     |

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## Production:

|               |        |                                  |          |
|---------------|--------|----------------------------------|----------|
| Fresh Water   | 10 bbl | CW100                            |          |
| Slurry        |        | 150 LiteCrete D961 / D124 / D154 |          |
|               |        | + 0.03 gps D47 antifoam          | 353 cuft |
|               |        | + 0.5% D112 fluid loss           |          |
| TOC@Liner Top |        | + 0.11% D65 TIC                  |          |

|                    |          |                       |          |                        |
|--------------------|----------|-----------------------|----------|------------------------|
| Slurry Properties: | Density  | Yield                 | Water    | 0.078 cuft/ft OH       |
|                    | (lb/gal) | (ft <sup>3</sup> /sk) | (gal/sk) | 40 % excess            |
| Slurry             | 9.5      | 2.52                  | 6.38     | 0.0886 cuft/ft csg ann |