

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

**OIL CONSERVATION DIVISION**  
P.O. Box 2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

|  |  |
|--|--|
| WELL API NO.                                       | 3004510168   |
| 5. Indicate Type of Lease                          | STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No.                       |  |
| 7. Lease Name or Unit Agreement Name               | Wallace Gas Com  |
| 8. Well No.  | 1A   |
| 9. Pool name or Wildcat                            | Blanco Mesaverde   |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | 5695' GR   |

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL  GAS WELL  OTHER

2. Name of Operator: Amoco Production Company Attention: Patty Haeefe

3. Address of Operator: P.O. Box 800 Denver Colorado 80201 (303) 830-4988

4. Well Location: Unit Letter C : 990 Feet From The North Line and 1650 Feet From The West Line  
Section 35 Township 31N Range 11W NMPM San Juan County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO:                                   |   | SUBSEQUENT REPORT OF:                               |   |
|---|---|---|---|
| PERFORM REMEDIAL WORK <input checked="" type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/>              | ALTERING CASING <input type="checkbox"/>      |
| TEMPORARILY ABANDON <input type="checkbox"/>              | CHANGE PLANS <input type="checkbox"/>     | COMMENCE DRILLING OPNS. <input type="checkbox"/>    | PLUG AND ABANDONMENT <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/>             |   | CASING TEST AND CEMENT JOB <input type="checkbox"/> |   |
| OTHER: <input type="checkbox"/>                           |   | OTHER: <input type="checkbox"/>                     |   |

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Amoco Production Company requests your approval of the attached casing and cementing revisions to the APD approved on January 10, 1996.

**RECEIVED**  
APR - 4 1996  
**OIL CON. DIV.**  
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.  
SIGNATURE Patty Haeefe TITLE Staff Assistant DATE 04-01-1996  
TYPE OR PRINT NAME Patty Haeefe TELEPHONE NO. (303) 830-4988

(This space for State Use)  
APPROVED BY Johnny Robinson TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE APR - 4 1996  
CONDITIONS OF APPROVAL, IF ANY:

**AMOCO PRODUCTION COMPANY**  
**DRILLING and COMPLETION PROGRAM**

Lease/Well#: Wallace Gas Com #1A (Deepening)  
 County: San Juan New Mexico  
 Former name: Surface Location: 990' FNL & 1650' FWL of Section 35, T31N, R11W  
 Field:

OBJECTIVE: Mesa Verde Gas

METHOD OF DRILLING  
 TYPE OF TOOLS DEPTH OF DRILLING  
 Rotary Base of 5.5" casing (2388') - TD

| LOGGING PROGRAM             |        | APPROXIMATE DEPTHS OF GEOLOGICAL MARKER |             |                |
|-----------------------------|--------|---|-------------|----------------|
| TYPE                        | DEPTH  | Actual GL-----Estimated KB              | 5695        | 5707           |
|                             |        | Marker                                  | Depth (ft.) | SS Elev. (ft.) |
| No open hole logs required. |        | Ojo Alamo                               | 847         | 4,860          |
|                             |        | Kirtland                                | 897         | 4,810          |
|                             |        | Fruitland Coal                          | 1,884       | 3,823          |
|                             |        | PC *                                    | 2,275       | 3,432          |
|                             |        | Lewis Shale                             | 2,487       | 3,220          |
|                             |        | Cliff House                             | 3,807       | 1,900          |
|                             |        | Menefee Shale *                         | 3,972       | 1,735          |
|                             |        | Point Lookout *                         | 4,557       | 1,150          |
|                             |        | Mancos                                  | 4,950       | 757            |
|                             |        | Gallup                                  |             |                |
|                             |        | Greenhorn                               |             |                |
|                             |        | Graneros                                |             |                |
|                             | Dakota |   |             |                |
|                             |        | TOTAL DEPTH                             | 5,007       | 700            |

Logging Program Remarks:  
 \* Possible pay  
 \*\* Probable completion  
 Ojo Alamo is possible usable water

| SPECIAL TESTS |                     | DRILL CUTTING SAMPLES |       | DRILLING TIME |          |
|---------------|---------------------|-----------------------|-------|---------------|----------|
| TYPE          | DEPTH INTERVAL, ETC | FREQUENCY             | DEPTH | FREQUENCY     | DEPTH    |
|               |                     |                       |       | Geograph      | Int - TD |
| None          |                     |                       |       |               |          |

Remarks:  
 Mud Logging Program: None  
 Coring Program: None

**MUD PROGRAM:**

| Approx. Interval | Type Mud | Weight, #/gal | Vis, sec/qt | W/L, cc's/30 min. |
|------------------|----------|---------------|-------------|-------------------|
| 2388' - TD       | Air/Mist |               |             |                   |

Mud Program Remarks:

**CASING PROGRAM:**

| Casing String | Estimated Depth             | Casing Size | Hole Size | Landing Point, Cement, Etc |
|---------------|-----------------------------|-------------|-----------|----------------------------|
| Conductor     |                             |             |           |                            |
| Surface       | 5-1/2" already set at 2388' |             |           |                            |
| Production    | 5,007                       | 3-1/2"      | 4.75"     | 1                          |

Casing Program Remarks:  
 1 - Circulate cement to at least 2000'

**GENERAL REMARKS:**  
 Business Unit Engineering staff to design completion program.

|                            |                              |
|----------------------------|------------------------------|
| Form 46 Reviewed by:       | Logging program reviewed by: |
| PREPARED BY:<br>Webb/Ovitz | APPROVED:                    |
| Form 46 7-84bw             | APPROVED:                    |
| Date: 4/1/96               | For Production Dept          |
| Rev. Date: 4/1/96 9:57     | For Exploration Dept         |
|                            | File: wallgc1a.xlw           |

Revision No. 1  
 4/01/96  
 ~ME2920.XLS

**CEMENTING PROGRAM**  
**Wallace Gas Com #2**  
 (Deepening from PC to MV)

rn

|                   |                                       |                        |                  |
|-------------------|---------------------------------------|------------------------|------------------|
| <b>Well Name:</b> | <b>Wallace Gas Com 1A (deepening)</b> | <b>Field:</b>          | Blanco Mesaverde |
| <b>Location:</b>  | Sec. 35, T31N, R11W                   | <b>API No.</b>         |                  |
| <b>County:</b>    | San Juan                              | <b>Well Flac</b>       |                  |
| <b>State:</b>     | New Mexico                            | <b>Formation:</b>      | Mesaverde        |
|                   |                                       | <b>KB Elev. (est.)</b> | 5007 ft.         |
|                   |                                       | <b>GL Elev. (est.)</b> | 5007 ft.         |

**Casing Program:**

| Casing String | Est. Depth (ft.) | Hole Size (in.) | Casing Size (in.) | Thread             | TOC (ft.) | Stage Tool Or TOL (ft.) | Cmt Circ. Out (bbl.) |
|---------------|------------------|-----------------|-------------------|--------------------|-----------|-------------------------|----------------------|
| Surface       |                  |                 |                   |                    |           |                         |                      |
| Intermediate  |                  |                 |                   |                    |           |                         |                      |
| Production    | 5,007            | 4.750           | 3.500             | 102 NUE<br>68; EUE | 2088      | 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       |            |                 |       |              |                 |                       |                    |             |
| Intermediate  |            |                 |       |              |                 |                       |                    |             |
| Production    | 3.500      | 9.3             | J-55  | 6980         | 7400            | 142                   | 0.00579            | 2.867       |

**Mud Program:**

| Apx. Interval (ft.) | Mud Type | Mud Weight (lb/gal) | <u>Recommended Mud Properties Prior Cementing:</u> |      |
|---------------------|----------|---------------------|--|------|
|                     |          |                     | PV   | < 20 |
|                     |          |                     | YP   | < 10 |
| 2325-TD             | Air/Mist |                     | Fluid Loss   | < 15 |

**Cementing Program:**

|                               | Surface | Intermediate | Production |
|-------------------------------|---------|--------------|------------|
| Excess %, Bit                 |         |              | 50         |
| Excess %, Caliper             |         |              | 30         |
| BHST (est. deg. F)            |         |              | 140        |
| Pipe Movement                 |         |              | NA         |
| Rate, Max. (bpm)              |         |              | 4          |
| Rate, Recommended (bpm)       |         |              | 4          |
| Pressure, Max. (psi)          |         |              | 2000       |
| Shoe Joint                    |         |              | 40         |
| Batch Mix                     |         |              | NA         |
| Circulating prior cmtng (hr.) |         |              | 1          |
| Time Between Stages,(hr.)     |         |              | NA         |
| Special Instructions          |         |              | 2,4,6      |

- 1 Do not wash pumps and lines
- 2 Wash pumps and lines.
- 3 Do not reverse out
- 4 Run Blend Test on Cement
- 5 Record Rate , Pressure, and Density on 3.5" disk
- 6 Confirm densometer with pressurized mud scales
- 7 1" cement to surface if cement is not circulated.
- 8 If cement is not circulated to the surface, run temp. survey 10-12 hr. after landing plug.

**Notes:**

- \*\*\* Displace top plug on the production casing job with 0.2% Clay Fix II or 2% KCl water.
- \*\*\* Do not wash up on top of plug. Wash pumps and lines. We want to do rigless completions.

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## CEMENTING PROGRAM

rn

Wallace Gas Com #2

(Deepening from PC to MV)

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**Production:**

|               |    |                      |             |
|---------------|----|----------------------|-------------|
| Preflush      | 10 | Chemical Wash        |             |
|               | 5  | Fresh Water          |             |
| Lead Cement   |    | 50/50 Std. Cmt/Poz A | 250 cu. ft. |
| Slurry 1      |    | + 2% gel (total)     |             |
| TOC @ 2088 ft |    | + 5 lb/sk gilsonite  |             |
|               |    | + 0.4% Halad-344     |             |
|               |    | + 1/4 lb/sk flocele  |             |

| Slurry Properties: | density<br>(lb/gal) | yield<br>(ft <sup>3</sup> /sk) | water<br>(gal/sk) |
|--------------------|---------------------|--------------------------------|-------------------|
| slurry 1           | 13.50               | 1.32                           | 5.59              |

**Note:** The job should be pumped at 4 bpm max rate. Do not exceed 2 bpm on displacement. Slow to 2 bpm for the displacement. Displace with 2% KCl or 0.2% Clay Fix II water. This is to be a rigless completion. Wash pumps and lines before displacing.

**Casing Equipment:** Halliburton 3 1/2", 8R, EUE

- 1 Super Seal II Float Shoe
- 10 S-4 Fluidmaster Centralizer
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle