

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

|  |   |  |
|--|---|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 5. Lease Serial No.<br>SF-078266   |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone |   | 6. If Indian, Allottee or Tribe Name   |
| 2. Name of Operator<br>CONOCO INC.   |   | 7. If Unit or CA Agreement, Name and No.<br>29089                              |
| Contact: VICKI WESTBY<br>E-Mail: Vicki.R.Westby@conoco.com   |   | 8. Lease Name and Well No.<br>WOOD WN FEDERAL COM 1M                           |
| 3a. Address<br>10 DESTA DR., ROOM 608W<br>MIDLAND, TX 79705  | 3b. Phone No. (include area code)<br>Ph: 915.686.5799 Ext: 5799   | 9. API Well No.<br>30-045-30900  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements)<br>At surface NENW 835FNL 1805FWL<br>At proposed prod. zone  |   | 10. Field and Pool, or Exploratory<br>BLANCO MESAVERDE/BASIN DAKO              |
| 14. Distance in miles and direction from nearest town or post office*  |   | 11. Sec., T., R., M., or Blk. and Survey or Area<br>C Sec 21 T29N R10W Mer NMP |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)   | 16. No. of Acres in Lease   | 12. County or Parish<br>SAN JUAN   |
| 17. Spacing Unit dedicated to this well<br>320.00 N/2  | 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. | 13. State<br>NM  |
| 19. Proposed Depth<br>6680 MD  | 20. BLM/BIA Bond No. on file  |  |
| 21. Elevations (Show whether DF, KB, RT, GL, etc.)<br>5684 GL  | 22. Approximate date work will start  | 23. Estimated duration   |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

|   |                                      |                    |
|---|--------------------------------------|--------------------|
| 25. Signature<br>(Electronic Submission)      | Name (Printed/Typed)<br>VICKI WESTBY | Date<br>11/01/2001 |
| Title<br>AUTHORIZED SIGNATURE                 |                                      |                    |
| Approved by (Signature)<br><i>[Signature]</i> | Name (Printed/Typed)                 | Date<br>11/14/01   |
| Title<br>AFM                                  | Office                               |                    |

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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.

Additional Operator Remarks (see next page)

Electronic Submission #8391 verified by the BLM Well Information System  
For CONOCO INC., sent to the Farmington  
Committed to AFMSS for processing by Maurice Johnson on 11/07/2001 ( )

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

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

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |   |   |   |
|---|---|---|---|
| <sup>1</sup> API Number<br>30-045-30900 |   | <sup>2</sup> Pool Code<br>72319 / 71599 | <sup>3</sup> Pool Name<br>BLANCO MESAVERDE / BASIN DAKOTA |
| <sup>4</sup> Property Code<br>29089     | <sup>5</sup> Property Name<br>WOOD WN FEDERAL COM |   | <sup>6</sup> Well Number<br>1M                            |
| <sup>7</sup> GRID No.<br>005073         | <sup>8</sup> Operator Name<br>CONOCO, INC.        |   | <sup>9</sup> Elevation<br>5684'                           |

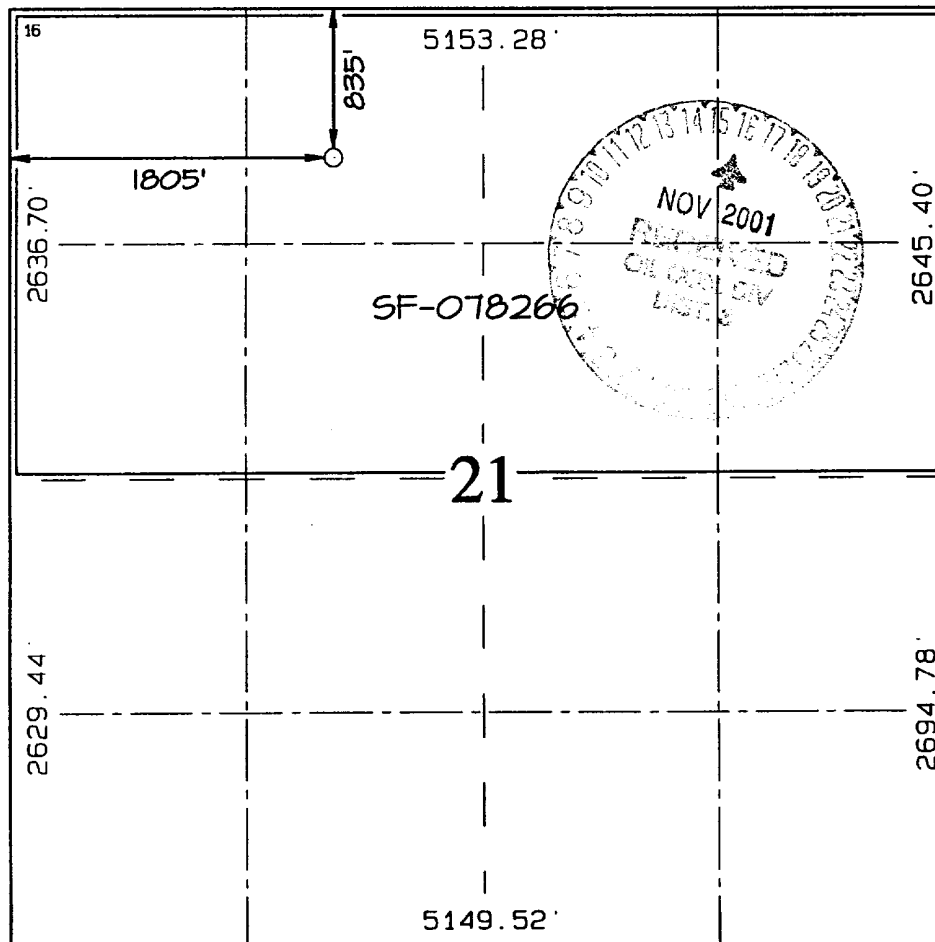
<sup>10</sup> Surface Location

| UL or Lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| C             | 21      | 29N      | 10W   |         | 835           | NORTH            | 1805          | WEST           | SAN JUAN |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or Lot no.                                    | Section | Township | Range | Lot Idn | Feet from the                 | North/South line                 | Feet from the           | East/West line | County |
|--|---------|----------|-------|---------|-------------------------------|----------------------------------|-------------------------|----------------|--------|
|  |         |          |       |         |                               |                                  |                         |                |        |
| <sup>12</sup> Dedicated Acres<br>320 Acres (N/2) |         |          |       |         | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |                |        |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<sup>17</sup> OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Vicki R. Westby*  
Signature  
Vicki R. Westby  
Printed Name  
Sr. Title Analyst  
Title  
Date  
*October 31, 2001*

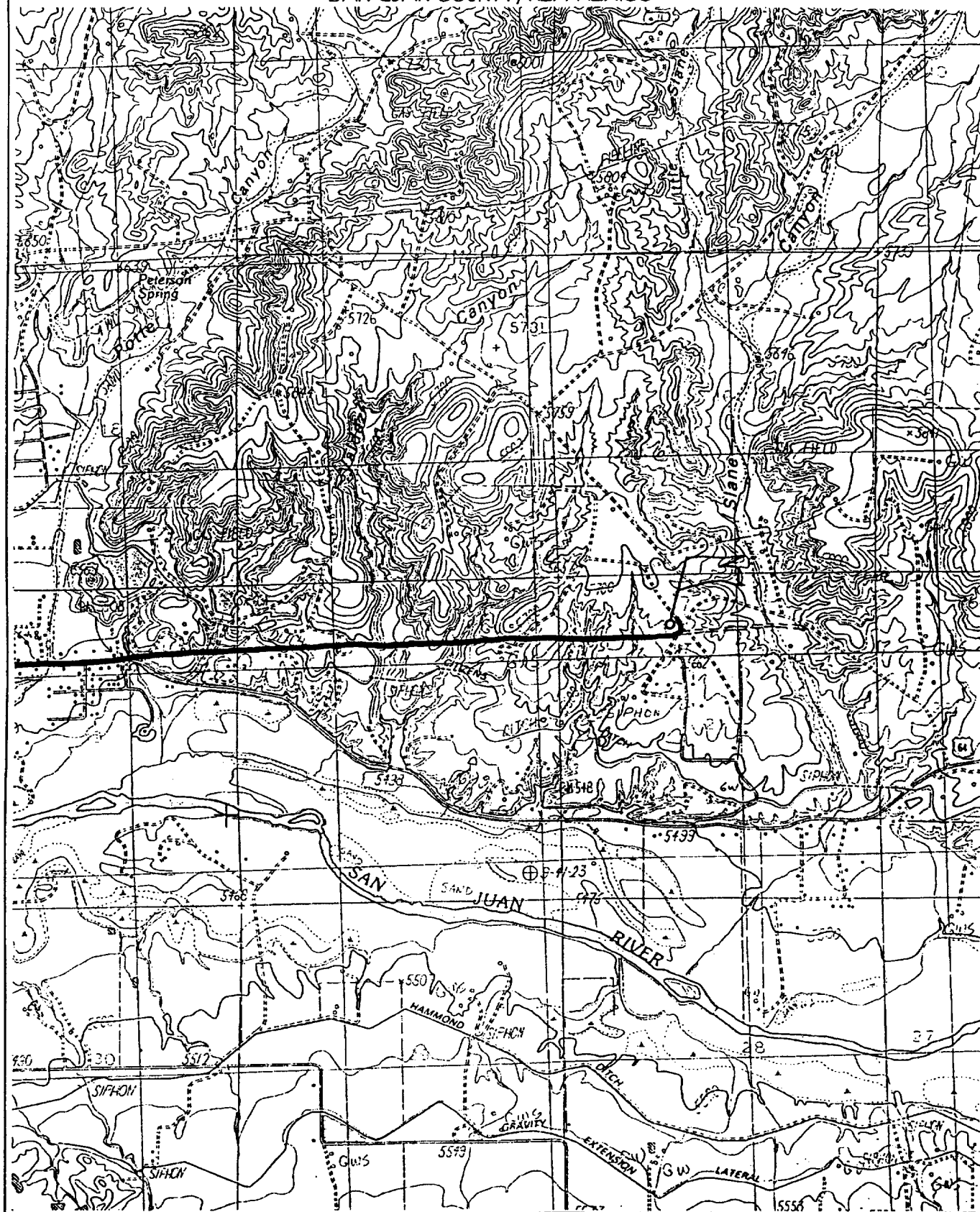
<sup>18</sup> SURVEYOR CERTIFICATION  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: JULY 14, 2001  
Signature and Seal of Professional Surveyor



*JASON C. EDWARDS*  
Certificate Number 15269

CONOCO, INC. WOOD WN FEDERAL COM #1M  
835' FNL & 1805' FNL, SECTION 21, T29N, R10W, N.M.P.M.  
SAN JUAN COUNTY, NEW MEXICO



# PROJECT PROPOSAL - New Drill / Sidetrack



Well : WOOD WN FEDERAL    Lease : WOOD WN FEDERAL    AFE # :    AFE \$ :  
 Field Name : WEST    Rig : Key 49    State : NM    County : San Juan    API # :  
 Geoscientist : Campbell, Lisa M.    Phone : (281) 293 - 6527    Prod. Engineer : Durkee, Marc    Phone : (281) 293 - 6530  
 Res. Engineer : Boneau, Trent C.    Phone : (281) 293-6520    Proj. Field Lead :    Phone :

## Primary Objective (Zones) :

|      |                                 |
|------|---------------------------------|
| Pool | Pool Name                       |
| FRR  | BASIN DAKOTA (PRORATED GAS)     |
| RON  | BLANCO MESAVERDE (PRORATED GAS) |

*"Hud Drill"*

## Surface Location :

Latitude : 36.7168    Longitude : -107.8922    X :    Y :    Section : 21nw    Survey : 29N    Abstract : 10W  
 Footage X : 1805 FWL    Footage Y : 835 FNL    Elevation : 5684 (FT)

## Bottom Hole Location :

Latitude :    Longitude :    X :    Y :    Section :    Survey :    Abstract :

Location Type :    Start Date (Est.) :    Completion Date :    Date In Operation :

Formation Data : Assume KB = 5697    Units = FT

| Formation Call & Casing Points | Depth (TVD in Ft) | SS (Ft) | Depletion (Yes/No)                  | BHP (PSIG) | BHT | Remarks   |
|--------------------------------|-------------------|---------|-------------------------------------|------------|-----|---|
| Surface Casing                 | 500               | 5197    | <input checked="" type="checkbox"/> |            |     | Severe lost circulation is possible. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface.               |
| OJAM                           | 810               | 4887    | <input checked="" type="checkbox"/> |            |     | Possible water flows"   |
| KRLD                           | 980               | 4717    | <input checked="" type="checkbox"/> |            |     |   |
| FRLD                           | 1506              | 4191    | <input checked="" type="checkbox"/> |            |     | Possible gas  |
| PCCF                           | 2021              | 3676    | <input checked="" type="checkbox"/> |            |     |   |
| LEWS                           | 2110              | 3587    | <input checked="" type="checkbox"/> |            |     |   |
| CLFH                           | 3665              | 2032    | <input checked="" type="checkbox"/> |            |     | Gas; possibly wet   |
| MENF                           | 3735              | 1962    | <input checked="" type="checkbox"/> |            |     | Gas   |
| PTLK                           | 4309              | 1388    | <input checked="" type="checkbox"/> |            |     | Gas   |
| GRHN                           | 6261              | -564    | <input checked="" type="checkbox"/> |            |     | Gas possible, highly fractured  |
| GRRS                           | 6324              | -627    | <input checked="" type="checkbox"/> |            |     |   |
| TWLS                           | 6373              | -676    | <input checked="" type="checkbox"/> |            |     | Gas   |
| PAGU                           | 6415              | -718    | <input checked="" type="checkbox"/> |            |     | Gas   |
| CBBO                           | 6470              | -773    | <input checked="" type="checkbox"/> |            |     | Gas   |
| BRRO                           | 6580              | -883    | <input checked="" type="checkbox"/> |            |     |   |
| Total Depth                    | 6680              | -983    | <input checked="" type="checkbox"/> |            |     | 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement a minimum of 100' inside the previous casing string. No open |

## Cementing Summary

Wood WN Fed Comm. #1

|                         | OH    |        |                     |               |                |               |
|-------------------------|-------|--------|---------------------|---------------|----------------|---------------|
|                         | Depth | Excess |                     |               |                |               |
| 9-5/8" Sfc.<br>Casing   | 0     |        | Class 'H' Cement    | 313 sx        | Slurry Volume  | 331.4 cu ft   |
|                         |       |        | Flocele (if req'd)  | 0.25 lb/sk    |                | 59.0 bbl      |
|                         |       |        | CaCl <sub>2</sub>   | 2.00% bwoc-db | Slurry Density | 16.5 ppg      |
|                         |       |        | Defoamer (if req'd) | 0.05 gal/bbl  | Slurry Yield   | 1.06 cu ft/sk |
|                         |       |        |                     |               | Mix Fluid      | 4.2 gal/sk    |
| 9-5/8" shoe             | 500   | 100%   |                     |               |                |               |
|                         |       |        | Cement Blend        | 630 sx        | Slurry Volume  | 1782.3 cu ft  |
|                         |       |        | Class 'H' Cement    | 84 lb/sk      |                | 317.4 bbl     |
|                         |       |        | San Juan Poz        | lb/sk         | Slurry Density | 11.4 ppg      |
|                         |       |        | Econolite           | 3.00% bwob    | Slurry Yield   | 2.83 cu ft/sk |
|                         |       |        | CaCl <sub>2</sub>   | bwob          | Mix Fluid      | 17.29 gal/sk  |
|                         |       |        | CFR-3               | bwob          |                |               |
|                         |       |        | HR-5                | bwob          |                |               |
|                         |       |        | Silicalite-blended  | 10 lb/sk      |                |               |
|                         |       |        | Flocele             | 0.5 lb/sk     |                |               |
|                         |       |        | Defoamer (if req'd) | 0.05 gal/bbl  |                |               |
| DV Tool #2<br>Stage #3  | 3,515 | 75%    |                     |               |                |               |
|                         |       |        | Cement Blend        | 793 sx        | Slurry Volume  | 1348.9 cu ft  |
|                         |       |        | Class 'H' Cement    | 47 lb/sk      |                | 240.3 bbl     |
|                         |       |        | San Juan Poz        | 24 lb/sk      | Slurry Density | 12.8 ppg      |
|                         |       |        | Bentonite           | 3.00% bwob    | Slurry Yield   | 1.70 cu ft/sk |
|                         |       |        | Halad-344           | 0.40% bwob    | Mix Fluid      | 8.26 gal/sk   |
|                         |       |        | CFR-3               | 0.20% bwob    |                |               |
|                         |       |        | HR-5                | 0.10% bwob    |                |               |
|                         |       |        | Silicalite-blended  | 20 lb/sk      |                |               |
|                         |       |        | Flocele             | 0.25 lb/sk    |                |               |
|                         |       |        | Defoamer (if req'd) | 0.05 gal/bbl  |                |               |
| DV Tool #1<br>Stage #2  | 6,160 | 60%    |                     |               |                |               |
|                         |       |        | Cement Blend        | 184 sx        | Slurry Volume  | 312.2 cu ft   |
|                         |       |        | Class 'H' Cement    | 47 lb/sk      |                | 55.6 bbl      |
|                         |       |        | San Juan Poz        | 24 lb/sk      | Slurry Density | 12.8 ppg      |
|                         |       |        | Bentonite           | 3.00% bwob    | Slurry Yield   | 1.70 cu ft/sk |
|                         |       |        | Halad-344           | 0.40% bwob    | Mix Fluid      | 8.26 gal/sk   |
|                         |       |        | CFR-3               | 0.20% bwob    |                |               |
|                         |       |        | HR-5                | 0.10% bwob    |                |               |
|                         |       |        | Silicalite-blended  | 20 lb/sk      |                |               |
|                         |       |        | Flocele             | 0.25 lb/sk    |                |               |
|                         |       |        | Defoamer (if req'd) | 0.05 gal/bbl  |                |               |
| 4-1/2" Shoe<br>Stage #1 | 6,680 | 60%    |                     |               |                |               |
|                         |       |        |                     |               |                |               |