

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
Revised March 25, 1999

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO. 30-025- <u>00263</u>
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator State of New Mexico Oil Conservation Division		6. State Oil & Gas Lease No.
3. Address of Operator 1625 French Dr., Hobbs, NM 88240		7. Lease Name or Unit Agreement Name:  North Caprock Queen Unit
4. Well Location  Unit Letter <u>J</u> : <u>1650</u> feet from the <u>North</u> line and <u>1980</u> feet from the <u>West</u> line  Section <u>8</u> Township <u>13S</u> Range <u>32E</u> NMPM County <u>Lea</u>		8. Well No. <u>8-11</u>
10. Elevation (Show whether DR, RKB, RT, GR, etc.)		8. Pool name or Wildcat Caprock Queen North

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
<b>NOTICE OF INTENTION TO:</b> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/> OTHER: <input type="checkbox"/>	<b>SUBSEQUENT REPORT OF:</b> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/> CASING TEST AND CEMENT JOB <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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.	

OCD proposes to P&A per the attached procedure.

THE COMMISSION MUST BE NOTIFIED 24  
HOURS PRIOR TO THE BEGINNING OF  
PLUGGING OPERATIONS FOR THE C-103  
TO BE APPROVED.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE \_\_\_\_\_ TITLE Deputy Oil & Gas Inspector \_\_\_\_\_ DATE \_\_\_\_\_

Type or print name Gary Wink Telephone No. (505) 393-6161  
(This space for State use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE Jul 29 2002  
Conditions of approval, if any:

GARY W. WINK  
OIL FIELD COMPLIANCE INITIATIVE / STAFF MANAGER

## **Typical Well Plugging Procedure Sierra Blanca Orphan Wells**

### **Basis of Plugging Design:**

Review of the well files resulted in the following information about the condition of the wells and what is needed to properly plug them:

**Surface casing:** 7" – 10 ¾" set at approximately 300' and cemented with 150 sacks. Benterra has assumed that these casing strings were cemented all the way to surface. Not all of the well files contained this information, but many did confirm that cement was circulated.

**Base of Fresh Water:** Paul Kautz advised that the base of fresh water was at approximately 300' in this area. Benterra has assumed that the base of fresh water is at the surface casing setting depth or at a minimum of 250'.

**Production Casing:** 4 ½" to 7" set at approximately 3000' and cemented with 600 sacks. The top of cement was recorded on only a very few wells; however, many permits contained the requirement that the casing strings be cemented through the top of the salt section, which occurs at approximately 1500' in this area. Several temperature surveys were run and confirmed this. Benterra has assumed that all of the production casing strings are adequately cemented at least through the salt section as the OCD required at the time they were drilled.

### **Typical Plugging Procedure**

Make sinker bar run to check for obstructions and TD  
Displace or circulate wellbore with fresh water  
Surface pour a bentonite plug from TD to at least 100' above the production casing shoe or top perforation  
RIH with a wiper plug and set 50' below top of salt  
Surface pour a bentonite plug from 50' below to at least 50' above the top of salt  
RIH with wireline and perforate 50' below the surface casing shoe (minimum perf depth is 300')  
RU cementer and squeeze/circulate cement from surface down production casing to provide for a 100' min plug behind the production casing  
Leave production casing full of cement to surface and shut in  
Dig out and cut off wellhead and install dry hole marker  
Pack annulus with bentonite  
Attempt to locate and cut off deadmen  
Clean up location including any **above-ground** cement foundations

**WELL PLANNING SHEET  
PROPOSED P&A**

Well Name: North Caprock Queen Unit # 8-11  
API Number: 30-025- ?  
Coordinates: 1650' FNL + 1980' FWL  
S - T - R: S 8 - T13S - R32E  
County / State: Lea, New Mexico  
Drilled: 1947

Operator: OCD  
Field: \_\_\_\_\_  
Date: 7/19/02  
By: CRS

RKB = 8'?

**Formation Tops**

Salt 1620'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ZONITE/CEMENT PLUGS**

Surface (cement) 3' - 206'  
Shoe (cement) 206' - 306'  
Salt (Zonite) 1570' - 1670'  
Bottom/Perf (Zonite) 2935' - 3085'

**Legend**

Cement

ZONITE

Gravel

Pack annulus with ZONITE

Surface Plug @ 3' - 206'  
Pump 38 sx cmt

Shoe Plug @ 206' - 306'  
Perf & Sqz @ 306' w/ 49 sx cmt

Casing Size 10 3/4" Wt. 38#  
Set @ 256' w/ 150 sx cmt  
Cemented to Surf (V14)

Salt Plug (ZONITE) @ 1570' - 1670'  
24 cu ft ZONITE  
Wiper Plug @ 1670'

Bottom Plug (ZONITE) @ 2935' - 3085'  
36 cu ft ZONITE

OH 3035' - 3085'

TD 3085'

Casing Size 7" Wt. 24#  
Set @ 3035' w/ 100 sx cmt  
Cemented to surface?

Will re-check file.  
Internal plugs only if  
sufficient evidence that  
cement was circulated.