

## **Cementing Program**

### **4-1/2" Production Casing**

Depth:	3600'
Casing Size:	4-1/2"
Hole Size:	7-7/8"
Calculated Cement Fill:	3600' (In Two Stages)
Excess Calculated	
1st Stage:	15% over caliper
2nd Stage:	100%
Cementing Company:	Halliburton

#### **Cement Recommendation:**

##### **1st Stage:**

*Slurry:* 150 sacks Premium Plus + 2.5 #/sk Salt (Accelerator) + 0.4% HALAD-322 (Fluid Loss)

Slurry Weight:	14.8 ppg
Slurry Yield:	1.36 cu.ft./sack

##### **2nd Stage:**

*Lead Slurry:* 720 sacks Premium Plus + 1% CaCl<sub>2</sub> + 15 #/sk Salt

Slurry Weight:	14.0 ppg
Slurry Yield:	1.75 cu.ft./sack

*Tail Slurry:* 80 sacks Premium Plus

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 cu.ft./sack

#### **Procedure:**

Cement the 4 1/2" casing string as follows:

- A. Reciprocate the casing during the first stage circulation and cementation.