Placement of rough coated and sand blasted pipe and centralizers follow:

Sand Blasted Casing:	Rough Coated Casing:
11,305' KB to 10,542' KB	11,748' KB to 11,305' KB
10,351' KB to 8,580' KB	10,542' KB to 10,351' KB

Centralizers
Placed on joint numbers, as follows (shoe joint No. 1); all Halliburton S-3:

One-half up from shoe on first joint and joint No. 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 17, 22, 24, 29, 30, 31, 32, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69 and 73 (Total of 29).

Halliburton Weld A thread lock was applied to the shoe, shoe joint, fill collar, and the DV tool, top and bottom threads.

Fluids were pumped as follows during cementing operations:

First Stage:

1. Circulated mud for 4 hours; gas bubble in 60 minutes; solid non-gas cut mud last 60 minutes circulating time.

2. 20 bbls. mud flush.

3. 20 bbls. fresh water with moroflo.

4. 300 sx. Class "H" cement containing 3/4 of 1% CFR-2 plus 5# of KCL per sack. Cement was mixed 15.6#/gallon and should have yielded 1.18 cubic feet per sack. This represents a 20% excess over theoretical volume required to fill the annular volume from the shoe to the DV tool.

5. Washed lines and pump.

6. Dropped bottom plug.

7. Displaced cement with:

   A. 30 bbls. fresh water.

   B. 240 bbls. mud.

NOTE: Maximum displacing pressure was 900 psig; plug bumped with 1250 psig. Pressure was released and floats held. Plug down at 12:30 a.m. May 1, 1975.