Between Stages:

1. Dropped DV opening bomb; no fluids were pumped for 43 minutes to allow bomb to reach DV tool.

2. Circulated mud for 6 hours with Halliburton and rig pump. Approximately 80 bbls. of mud were pumped to the reserve pit in an attempt to prevent contamination of mud by cement above the DV tool. Mud condition was checked periodically while circulating. For the last 90 minutes, the mud had stabilized at 10.2#/gallon.

Second Stage:

1. 20 bbls. mud flush.

2. 20 bbls. fresh water with moroflo.

3. 825 sx. Class "H" cement containing 3/4 of 1% CFR-2 with 5# salt 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 DV tool to 8,600' KB.

4. Washed line and pump.

5. Dropped DV closing plug.

6. Displaced cement with 249 bbls. of fresh water.

NOTE: Maximum displacing pressure was 2200 psig; plug pumped with 3200 psig. Pressure was released and the DV tool held. Plug down at 8:40 a.m. May 1, 1975.

The casing string weighed 184,000# according to rig indicator. Approximately 94,000# was set on bottom after first stage cementing was completed. Balance of string weight was set on the slips approximately five hours after second stage cementing was completed.

A temperature survey was conducted by Bennett 6 hours after the second stage cementing was completed. Indicated top of cement was 7,940' KB. Bennett found a plug back depth of 10,754' KB.

Yours very truly,

James F. O'Briant

James F. O'Briant
Registered Professional Engineer

JFO:css
Attach.

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