



8 1/2" HOLE SECTION

While pressure testing and picking up pipe 160 cu.m of FRESHWATER/IDBOND (PHPA) was mixed in the active and reserve pits. A pit of SEAWATER/GEL/POLYMER mud was kept to drill out the cement. The concentration of the IDBOND was kept low in the premix to avoid losses over the shakers. The cement, float, shoe and two metres of new formation were drilled with the old fluid before displacing to the FRESHWATER/IDBOND system.

Approximately 10 cu.m of contaminated new fluid was dumped in the process. An F.I.T. was carried out to an equivalent mud weight of 1.72 SG.

The 8 1/2" hole was then drilled to 1634 m with each connection reamed. After displacing the hole a further 74 cu.m of premix was mixed containing sufficient IDBOND to raise the concentration in the active system over several circulations. The top shaker screens (S40) were partially bypassed to minimise losses. The one mud cleaner was run with a 250 screen until it ripped and was then changed to a 325 screen. A four stand wiper trip was made without problems and drilling continued to 1775 m where a bit trip was made. No hole problems were encountered on the trip out or in. The sand trap and settling pit were dumped and cleaned out during the trip.

After drilling to 2031 m, a wiper trip encountered 20 - 50 k drag up to 1662 m, with no drag to the shoe. On running into the hole, 30k was tagged at 2017m and the hole reamed to 2031 m. The hole was reamed on each connection with wiper trips made from 2317, 2482, 2609 and 2666 m. A trip for a new bit was made from 2382 m. All trips encountered tight hole and 50 - 80 k drag over the new hole sections due to clay hydration in gauge hole. Back reaming was required on the first pass through the intervals 2456 - 2322, 2580 - 2439 and 2610 - 2525 m. The interval 1592 - 2382 m was reamed while running into the hole with a new bit to prevent bit damage by undergauge hole.

A dilution rate of 10 - 15 bbls/hr was required to prevent mud solids build up and control the mud weight at 1.09 SG to 2356 m and to 1.12 SG thereafter. At 2609 m DRILLING DETERGENT and freshwater dilution was used to prevent a hole packoff and bit balling, after a pump pressure increase.

A total depth of 2723 m was reached on 16 December, 1992 at 11.15 am. The hole was circulated and a wiper trip to the shoe indicated a clean stable hole with no drag or fill. The hole was again circulated and POOH to log with no drag.

Four logging runs were completed to TD. The fifth run for side wall cores (CST) encountered a bridge at 2273 m and was unable to pass. The bridge possibly resulted from progressive clay hydration over a three day period as indicated by successive calliper runs. The well was plugged and abandoned on the 19 - 21 December, 1992.