A3 - LOG ANALYSIS

A3.1 Introduction

Quicklook log analysis was initially carried out at the rig site using Bridge Oil Ltd's HP41CV calculator system. It was intended to transmit the log data from the rig site to the Schlumberger centre in Sydney immediately after the logs were run and log analysis was to be done on the computer there. This was not possible due to poor telephone communication links from the rig. As a consequence tapes were made of each run and sent, via helicopter, into the nearest Schlumberger centre, in Sale, for transmission via land line to Sydney where Schlumberger Cyberlook evaluation was carried out as soon as the data had arrived. Subsequently, a full edit tape of the logs was sent to Sydney and a more detailed Cyberlook evaluation was carried out. Finally, a full edit tape of both logging suites was forwarded to Bridge Oil Ltd, and selected zones were analysed in more detail on the in-house HP9000 computer using the Terralog analysis system.

Log Suite 1 was programmed to run in the 17-1/2" open hole below the 20" casing shoe from 243.0m KB to 914.0m KB and consisted of the following:

Run	Programmed	Actual	Interval
1	DIL-LSS-CAL-GR-SP	DIL-LSS-CAL-GR-SP	256.0m-928.5m

There was no significant lost time during this log run. The hole was slightly over-gauge throughout this section with severe washouts over the interval 700.0m to 710.0m. The hole is up to 1-1/2" under-gauge between 510.0m and 537.0m and some severe cycle skipping of the sonic log is seen between 507.0m and 517.0m.

Log Suite 2 was programmed to run in the 12-1/2" open hole from 914.0m KB to total depth and was to consist of the following:

Run	Programmed	Actual	Interval
1	DIL-LSS-CAL-GR-SP	DIL-MSFL-LSS-CAL-SP-GR	913.5m-5103.0m
2	LDT-CNL-GR-CAL	LDL-CNL-GR-CAL	913.5m-3106.0m
3	CST	CSTC-GR	1177.0m-3099.0m

This logging suite suffered from telemetry and equipment failures. An hour was lost during Run 1 due to the telemetry failing, while three and a half hours were lost during Run 3 as a result of a Gamma Ray tool failure due to overheating at depths greater than 2500m. Only five cores were recovered out of a total of 30 attempted on the CST run. The following is a time breakdown of the second logging suite.

2nd February, 1986

02:30 hrs Rig up and run in hole with DIL-MSFL-LSS-GR-SP-CAL to 100m, attempt a calibration and fail. Pull out of hole to repair tool and calibrate.