

3 WELL HISTORY - KING 1

Please note all depths in this Well History are drillers depths from RT unless otherwise annotated as loggers' depth (L).

3.1 Drilling Summary

The first anchor was dropped at 0830 hours 28 October 1992 and the Ocean Epoch was moved onto location. King 1 spudded at 1500 hours on 30 October 1992, some 3m from the intended location and in 72.5m of water.

The 914mm (36") hole was drilled using a 660mm (26") bit and 914mm (36") hole opener to 133m. Seawater and high viscosity pills were used to clean the hole with returns to the sea floor. 762mm (30") casing and the permanent guide base were run and cemented with the shoe at 127m.

A 445mm (17½") bit and bottom hole assembly were run in to drill out the cement, float shoe and drill to the next casing point at 405m. Seawater and high viscosity pills were used to keep the hole clean with returns to the sea floor. No problems were encountered during drilling, but rough weather prevented the unloading of the 340mm (13⅜") casing from the supply boat resulting in some 26.5 hours of waiting on weather.

After the 340mm (13⅜") casing was run to 394.4m and cemented, the BOP stack and riser were run and the flowline nipped up. The stack and surface equipment were satisfactorily pressure tested. A 311mm (12¼") bit and bottom hole assembly were picked up and run in the hole and the cement tagged at 359m. The cement, float collar, shoe, shoe track and two metres of new formation were drilled to 407m. After displacing the hole to seawater gel polymer mud, an FIT was performed. The EMW obtained was 1.723SG (14.38ppg).

Drilling continued to 1017m, where the annulus packed off and 80 barrels of mud were lost to the formation. The bit was pulled to 758m, with a maximum overpull of 30000 lbs, where full returns was re-established. After washing and reaming to bottom, drilling continued to 1246m without any further problems. A wiper trip back to 394m encountered tight hole at 1130m, 1101m and 1092m and 3m of fill on bottom. Once the hole had been cleaned a multishot survey tool was dropped and the pipe pulled out of the hole.

Halliburton Logging Services (HLS) were rigged up and ran Suite 1 of logs. This consisted of one run comprising the DLL-MSFL-LSS-GR-SP-DTD. Another wiper trip was run prior to running the 244mm (9.625") casing.

The 244mm (9⅝") casing was run and cemented with the shoe at 1237m. The plug was bumped at 2000 psi and the casing was pressure tested. The pack off was set and pressure tested to 5000 psi. The BOP stack and surface equipment were pressure tested satisfactorily.