

Core 2 1402m to 1410.5m (1404.5m-1413.0m(L)). Cut 8.5m, recovered 5.7m (67%).

This was cut immediately below Core 1 based upon the fluorescing sands recovered in the base of Core 1. Core 2 jammed off after cutting 8.5m and only 5.7m were recovered. The observed fluorescence was duller and of a poorer quality than the previous core.

Coring was suspended due to jamming, poor recoveries and a decrease in show quality. The jamming is attributed to the weakly cohesive sand being unable to support its own weight under downhole coring conditions once lateral support has been removed. The result is the compaction of the sand in the shoe or base of inner barrel, preventing newly cut core from entering the barrel.

Core 3 1423.5m to 1434m (1426.8m to 1437.3m(L)). Cut 10.5m, recovered 9.4m 89%.

This was cut in an effort to intersect a sandstone that had yielded oil from an FIT at Cormorant 1. At 1434m the core jammed, but an improved recovery of 9.4m (89%) was achieved. Shows were restricted to the base of the core and included a 0.6m interval of very coarse sand with good traces of free oil.

Core 4 1434m to 1440m (1437.3m to 1443.3m(L)). Cut 6m, recovered 5.0m (83%). After cutting 6 metres the core jammed off in a coal and 5 metres of silt and silty sandstone were recovered without any shows.

Based on the lack of shows in core 4 and the presence of well developed coal indicative of the secondary objective, no further cores were cut in King 1.

Upon arrival at Amdel Ltd (Adelaide) the core was frozen to minimise damage during further handling and small plugs taken for porosity and permeability measurements.

The cores were subsequently slabbed, one quarter being dispatched to the AGSO in Canberra and the remaining portions being sent for storage at Challenger Geological Services Edwardstown, South Australia.

Core descriptions are contained in Appendix 6.4, core analysis in 6.1 and core photographs in Appendix 6.5, the Amdel petrology report in Appendix 6.3 and the Sedimentology Report in Appendix 6.2.

### 3.5 **Sidewall Cores**

No sidewall cores were shot on King 1.

### 3.6 **Wireline Logging**

(All depths are logger's depths)

Two suites of logs were run by Halliburton Logging Services utilising a PLS II surface unit. Suite 1 was conducted at the 244mm (9<sup>5</sup>/<sub>8</sub>" ) casing point from 1246.8m to the mudline, while Suite 2 was conducted at TD from 2225.3m to 1239.2m, as detailed below.