

sands.

2.4.1 Log Analysis

Log analysis was attempted on Pelican 1, 2 and 4 but results were inconclusive. This is due to poor log quality and insufficient data, such as reliable formation water resistivities. The poor log quality is largely a function of bad hole conditions. Also, the poor quality copies available to SAOGC were impossible to read in many instances.

In the final analysis, reservoir parameters were determined by a compilation of results from reports by Schlumberger, Esso, BHP, BMR, and from SAOGC hand calculated estimates.

2.4.2 Pay Thickness, Net Pay Maps and Field Limits

Net gas pay for Pelican 1, 2 and 4 is 255', 147' and 158' respectively. Individual pay thicknesses on a sand by sand basis are listed in Table 2.1.

Net gas pay isopachs for each sand were constructed in order to determine reserves (see Figures 2.7-2.15). Gas/water contacts were recognized in only three of the nine sands and these only on the Pelican 1 structure. The sands with recognisable gas/water contacts occur in units A,E, and F. The field limits for the remaining sands in Pelican 1 and all sands in Pelican 2 and 4 were determined by extending the pay downdip to a point midway between the Lowest Known Gas (LKG) and the High Known Water (HKW) or simply to the LKG. In all cases, the HKW was in a different sand to that containing the gas, so conceivably