

shaley "ratty" sands were allocated to the major 'F' sandstone unit.

- RFT analysis, which is ineffective for determining permeability data in the Bass Basin sedimentary environment, was used to "confirm" low permeability in the 'F' reservoir.

For the 72 feet of log interpreted net pay in the 'F' reservoir unit ( $\emptyset$  .131; Sw.41) to be allocated a theoretical deliverability of 3.27 MMCFD appears conservative and can only be confirmed by flow tests on appraisal wells. Production rates in excess of 3.27 MMCFD could be expected.

### 2.8.3 Gas Composition

The BMR Report uses the gas composition (Table 2.3) presented in an earlier study (Ozimic and Donald 1977).

The source of that information is unstated.

There is no question that the gas is rich in liquids but the field average composition remains unknown. In multiple reservoir sands it is highly likely that the composition will vary between the sandstone units. This is even more complicated in the Pelican Field which is subdivided into independent fault blocks where compositions are likely to vary significantly in the one sand, between each of the fault blocks.

To obtain representative samples of the reservoir fluid is difficult, particularly in a retrograde condensate field where changes of state occur with changes of temperature and