

sealed by these early faults.

- (h) Remigration to young structural culminations may be inhibited in areas where sand percentages are low and early fault seals remain effective.

8.0 HYDROCARBON POTENTIAL

Five play types have been interpreted for the Bass Basin. These are outlined on the Prospect Map (Encl. 8.1). The plays are described in order of prospectivity.

8.1 The Pelican-Type Play

Key elements of the Pelican gas/condensate field are:

- (a) Reserves are confined by intraformational seals.
- (b) Fault separation of the field into discrete pools indicates fault sealing is effective for pay intervals.
- (c) Ratio of wet sands to gas sands probably correlates with percentage of sand in gross reservoir interval.
- (d) The overall trapping of hydrocarbons in Pelican Field may be due to either:
 - i) fault juxtaposition of the gross reservoir interval against tight sands below the L. balmei zone, or
 - ii) sealing of the interval by tight unsorted alluvial fan complexes adjacent to the major bounding fault.
- (e) The interval from the M. diversus Unconformity to the L. balmei zone increases in thickness by approximately