FAVORABLE EXPLORATORY AREAS (by Stratigraphic Unit)

Eight maps summarizing exploratory play potential of the several Gippsland Basin stratigraphic units have been prepared by utilization of the above-described regional maps of favorable parameters. It is again emphasized that these generalizations regarding play potential do not include consideration of local structure (as determined from seismic interpretation) or detailed geologic information on the productive fields.

Three maps depicting favorable intra-Latrobe play potential have been prepared: Lower Latrobe Group (Campanian)-Stratigraphic Plays; Lower Latrobe Group (Campanian) - Structural plays; and Upper Latrobe Group-Structural Plays. Two maps concern favorable Top Latrobe play potential: Top Latrobe Unconformity - Structural Plays; and Top Latrobe Unconformity - Stratigraphic Plays.

Two maps represent favorable structural and stratigraphic play areas for the Gurnard Formation greensands. A final map indicates favorable play areas with reference to the Lakes Entrance Formation and Gippsland Limestone. These maps are briefly discussed individually as follows.

Lower Latrobe Group (Campanian) - Structural Plays

The map represents two favorable parameters: regional structural highs of the Base Latrobe Delta-Front surface, (the deepest regional structure map) and distribution of Campanian Latrobe Group sands (sand percentage of Campanian section greater than 60).

Common occurrence of the two parameters is found in the vicinity of the Seahorse, Hammerhead, and Kahawai wells.

Lower Latrobe Group (Campanian) - Stratigraphic Plays

The map depicts two favorable parameters, both of which are structure-independent: Zones of "shaling out" of proximal pro-deltaic Campanian sediments by interdigitation with distal pro-deltaic shales; and limits of the