

ABSTRACT

This report presents the results of the Esso Gippsland Shelf Seismic Survey.

Reflection quality was generally excellent. A network of very good seismic structural and stratigraphic control has been established. Nine structural prospects have been mapped.

On the shallow horizon "A", only one structural closure was mapped, but the lower horizons were uplifted much more. Appreciable closure on horizon "B" is present on seven separate prospects, and good stratigraphic traps of the wedgeout type are present in the "B"- "C" interval.

The most reliable horizon, "C", has appreciable closure on seven structural anomalies. Two horizon "C" prospects have closure that is partially due to erosion, thus they can be classified as preserved topographic highs.

While the survey technique was originally designed to explore the Tertiary section, a "bonus" of good pre-Tertiary data has been obtained.

On the eastern boundary of the survey a buried submarine canyon was mapped. The canyon in places appears to have eroded through the Eocene section and to be filled with marine sediments.