

3.0 OBJECTIVES

The generally poor quality of seismic data in the permit dictates that further modern seismic work be done to map structural and stratigraphic objectives prior to drilling.

The possible structural traps are highs at the Top Latrobe Coal Measures, sealed by Lakes Entrance Formation shales or the Gippsland Limestone. This model is similar to the known hydrocarbon reservoirs in the central Gippsland Basin.

Stratigraphic plays are possible where the Latrobe Group wedges out against basement highs. Both Mullet 1 and Bluebone 1 are unsuccessful stratigraphic tests to the west of the main area of interest where the Latrobe Group thins and onlaps Basement.

The 80F survey was performed with the following objectives :-

- 1) Stratigraphic
- 2) Reconnaissance
- 3) Data quality experiment

The stratigraphic objectives were to attempt to recognise the extent and nature of the Latrobe Group, Strzelecki Formation, Basement, Lakes Entrance Formation and Gippsland Limestone. The southern section of the permit had sparse seismic data, and the 80F survey was shot in a southward zig-zag pattern to maximize the stratigraphic detail along and across strike.

Reconnaissance objectives were also served by the survey. Knowledge of the far south of the permit was extremely sketchy, and based on only a few lines from 1970. In particular, 80F-7 and 80F-8 were intended as comparisons with M-23-T to M25T, and M40T, M41T & M60T.

The survey also included substantial areas of old, densely acquired data. Shooting was done through that to provide high quality data to assist in interpretation of the older sections.