

5.3 WELL TIES

There is poor correlation of seismic horizons to nearby wells. Attempts have been made to run Cultus Pacific trade data from Hapuku 1 and Kingfish. However the Bass Canyon lies along the northern permit boundary, preventing any but jump correlations to T13P markers. These jump correlations were coupled with general character to identify the seismic markers.

This "general character" included the high reflectivity of and unconformity at the Top Latrobe Coal Measures, and the existence of volcanic extrusions at the near base Miocene level. These extrusions appear as lenses on seismic sections.

In the western part of the permit Mullet and Bluebone were drilled. These wells intersected a thin section of Latrobe group and running seismic results from these wells cannot reliably be extrapolated to the east.

The interpretation thus relies on jump correlations and marker horizon estimates based on North Gippsland characteristics.

5.4 SEISMIC MARKERS

The seismic markers were run on the sections and interpreted according to the following scheme.

Mid-Miocene

Yellow - a strong high frequency shallow continuous reflection.

Near Base Miocene

Green - strong high frequency and coincident with the top of volcanic lenses often present in the section.

Top Latrobe Coal Measures

Purple - very strong, medium frequency, and below volcanics. High amplitude due to impedance contrast between marls and coal, and a marked angular unconformity with downlapping miocene on top of a conformable Latrobe sequence.

Basement

Orange Low frequency, erratic amplitude.