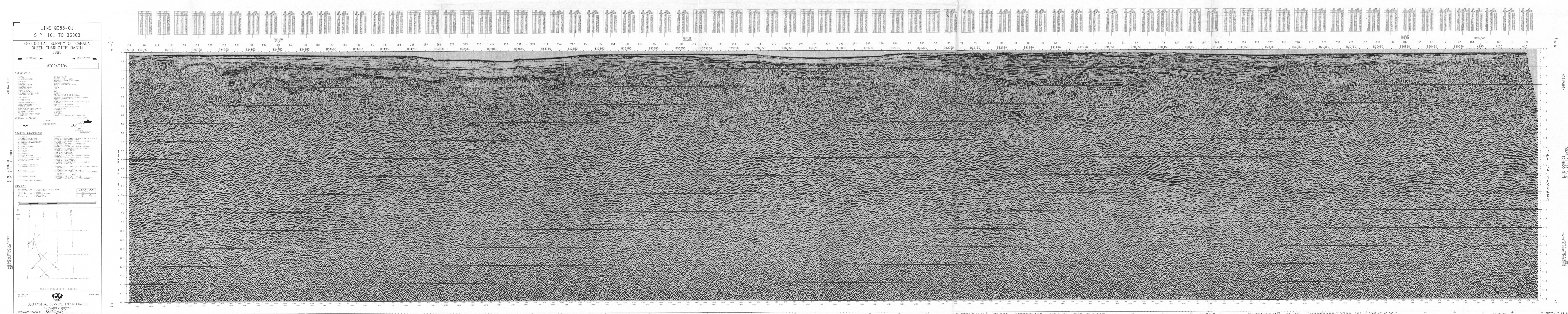
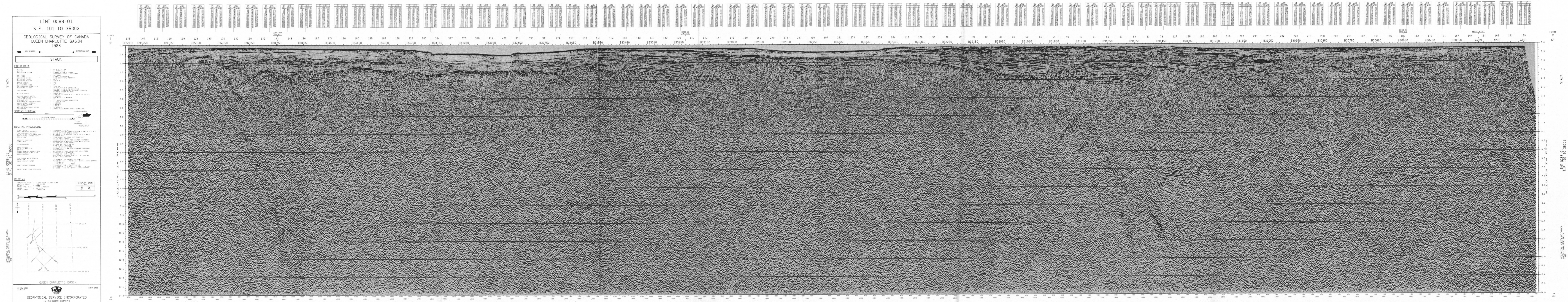


As part of the Geological Survey of Canada's Frontier Geoscience Program (FGP) in the Queen Charlotte Island region, 1000 km of 14 second marine reflection seismic data were acquired in July, 1988. The data were recorded at 40 fold, with a 6400 in² airgun source. The seismic lines are regional in extent, crossing both Hecate Strait and Queen Charlotte Sound, with direct ties to several of the locations of the offshore wells drilled in the late 1960's. Two of the southern lines extend across the present day plate boundary and subduction zone adjacent to the Queen Charlotte Sound.

The seismic profiles provided excellent images of the Neogene sediments that form the Queen Charlotte Basin fill. The Neogene section (Skonun Formation) varies in thickness from less than a kilometre to over 5 km in local fault-bounded grabens and sub-basins. Beneath Hecate Strait the Skonun section is extensively folded and faulted. In contrast, the sediments are less deformed in the Queen Charlotte Sound area. In both Hecate Strait and the southern Queen Charlotte Sound, lower crustal and Moho reflections are locally well imaged at reflection times of 6.0 to 8.0 seconds.



Line 1
DEEP SEISMIC SURVEY OF QUEEN CHARLOTTE BASIN
 K. Rohr, Pacific Geoscience Centre and J.R. Dietrich, Institute of Sedimentology and Petroleum Geology

This document was produced by scanning the original publication. Ce document est le produit d'une numérisation par balayage de la publication originale.