

ABSTRACT

The Cape Nelson to Cape Otway Seismic Survey was shot by G.S.I. for Hematite in the offshore Otway Basin in September and October 1973.

Shooting used an airgun energy source to record 48 traces, 3 x 24 CDP, with a trace interval of 66.67 metres and a shot interval of 22.22 metres. A total of approximately 1800 miles was shot. The ship's location was determined by SR-Shoran. Shotpoint co-ordination was determined by Geonav II.

Processing was 24 fold, with either a 3:1 or 2:1 vertical stack and using continuous velocity analysis.

Record quality was improved over the Portland-King Island Seismic Survey, but not to the extent expected. Two horizons were mapped on a regional basis, resulting in several leads being developed and also allowing mapping of the section in deep water. Further seismic work will be necessary to fully evaluate the results of this survey.