



LAND SURVEY REPORT

This program is in two parts; Otway Basin, South Australia and Otway Basin, Victoria, Tasmania.

A. OTWAY BASIN - SOUTH AUSTRALIA

This prospect used four Decca Hi-Fix navigation stations in the Range-Range mode. The stations were designated D_1 , D_2 , D_3 , D_4 with stations D_1 , D_2 to operate on high frequency and D_3 , D_4 on low frequency.

1. D_1 (Cape Jaffa)

This station is on a low ridge on the southern side of a track leading to the beach at Cape Jaffa. It is near one of a series of 40 ft high towers erected and surveyed for hydrographic surveys.

The distance from Jaffa Tower to the site was measured with a 300 ft steel tape and the azimuth observed using Midway Tower as R. O.

2. D_2 (Nora Creina Bay) - - Not Used

This station is on a low sand hill due west of some weekend cabins. A four-leg tellurometer traverse was run from Mt. Elgin 1st Order trig station. Initial azimuth was obtained from a solution of the triangle formed by Mt. Elgin trig, Beachport Light trig, and the first traverse station. On plotting the traverse on a topographical map, one traverse leg, which was completely across water, appeared too long. Assuming an error of 10 in the A crystal reading, recomputed results agree exactly with the Decca calibration check. However, because of the uncertainty, the station was not used.