

1. INTRODUCTION

EL 11/76 and SPL 129 are adjacent licences west of Zeehan on the coast of Western Tasmania (Plan 1). Vegetation varies from large expanses of button grass plain and marshland to deeply dissected ranges and valleys sheltering dense mature rainforest and regrowth areas. The licence areas cover most of the Devonian Heemskirk Granite, and a faulted and deformed sequence of Upper Proterozoic and Paleozoic sediments, volcanics and basic intrusives south and south-east of the granite.

Known mineralisation within the licence areas consists of cassiterite in alteration dykes within granite and in tourmaline veins just south of the granite contact (Kelvin and Maynes), stanniferous polymetallic sulphides within granite at Sweeneys, Anomaly 1 and the Globe and Ag-Pb-Zn veins and fault infillings in sediments at the eastern end of SPL 129 (Zeehan Field).

Since licences were granted (SPL 129 in 1973, EL 11/76 in 1976) systematic exploration for tin and base metals has been carried out over both areas. In previous years, work has been concentrated on the southern part of the granite (Federation and Sweeneys) and hornfelsed sediments adjacent to its south and south-eastern contact. In 1981-82 work involved gridding, soil and bedrock sampling, geophysics and diamond drilling on the Agnew, Globe and federation Grids, geological mapping of the Heemskirk Granite and airborne EM-magnetics over parts of SPL 129.

As in 1980-81 the Annual Report for the two areas has been combined, to allow efficient reporting of areas with essentially similar exploration targets and because the Agnew Grid covers parts of both SPL 129 and EL 11/76.