

INTRODUCTION.

This report covers both 1981 (16th March - 24th April) and 1982 (January 11th - March 3rd) field seasons, at this stage regional mapping of the Heemskirk granite has been completed.

Mapping in the 1981 season by vehicle - foot access, emphasis on readily accessible "white" granite on coastal plain and the main "Red-White" contact. Field work in the 1982 season was extended to inaccessible areas with helicopter support, initial emphasis placed on mapping contacts within the "Red" granite (difficult many contacts discontinuous - insignificant laterally) for regional coverage 600m spaced E.W. traverses used (compass and air photo control).

Emphasis in field work on:

- a) recognizing and mapping all granite types that could be consistently separated throughout the granite.
- b) shapes and inter relationships of different granites.
- c) location of alteration zones, mineralization, mines and prospects.
- d) locating granite - sediment contacts.

The proportion of time spent mapping in different areas in decreasing order - Heemskirk - Agnew Range in "Red" granite

- coastal plain "White" granite
- South Heemskirk - Federation/Agnew grid areas
- North of Tasman River and west of St. Dizier

Data collected in the field recorded on:-

- a) 1:25,000 color aerial photos Run 2 No. 0388-93
Run 3 No. 0440-45
Run 4 No. 0418-22
Run 5 No. 0413-14
- b) Field note books see appendices iii), locations at which geological notes were made numbered 1-620. At 255 of these locations rock samples were collected see appendices i). 87 of these samples of alteration/mineralization have been submitted for assay - Sa, W03, Sol. Sn. and Ag (all except nrm. for Ag.)
- c) Plotted on 1:5000 and 1:25000 topographic plans both derived from Lands Dept. 1:15840 scale.
 - D.W.G. .1 Geological Fact 1:5000
Sheets No. A3/2 & 4, A4/1-4 & C2/1-4
 - D.W.G. .2 Geological Interpretation 1:25,000
 - D.W.G. .3 a & b Geological Interpretation
Sections 1:15840
 - D.W.G. .4 Distribution of alteration & mineralization