

672332

May 8, 1979

MEMO: RE SWAB PROGRAM

TO: RODE AND STANTA

FROM: JCS

(1) SURVEY GRID

A base line is to be established trending "up ice" parallel to the Mo - U anomaly on SWAB 2 & 3. The base line is to be well marked with stations at 100 metre intervals. Picket lines are to run at right angles with chainages to be marked at 50 metre intervals. Azimuth of the base line will be approximately $258^{\circ}30'$, with the co-ordinates 44+00E; 30+00N at the collar of drill hole SWAB No 1. At the time of establishment a shot should be taken along the casing left in the drill hole to get its bearing in relation to the new grid. Elevation of the drill hole collar (top of casing) may be taken as 977 metres.

Chaining will be done using the 100 metre polychain. Elevations of all chainage stations should be determined by levelling along the base line, and by either levelling or by stadia, as most convenient, along picket lines.

From the stations thus established stadia methods may be used to:-

- (a) locate identifiable soil sample locations from the 1978 program;
- (b) locate rock fragments and boulders (type,size,angularity);
- (c) locate rock outcrop areas (location,type,size,shape);
- (d) ground contours, road, edge of logged area;
- (e) drainage;

(2) MAP SHEETS

Plan size will be about 78 x 91 cm with a 1 cm border and a title block 6.5 x 12.5 cm in the lower right corner. Approximate outlines of the map sheets are shown on a print of the 1:6000 Geology, and the 1:2500 Detail Soil Sample Results. The title may be hand lettered in pencil temporarily.

Data may be plotted by protractor and scale for stadia work. Contours should be inked on the back of the map sheet. Pits and trenches will be plotted on these maps as work progresses.

(3) TRENCHING

We intend excavating pits and trenches to a maximum depth of 4 metres depending on equipment available and ground conditions. Most trenching will probably be to a depth of about 2 metres. Work will be done by a contractor on an hourly basis. It is presumed the contract rate will be \$40 - \$50 per hour and as a result a log of machine time should be maintained as a check on subsequent invoices.

An attempt will be made to trench through wet areas but care must be taken that deeper trenching be done in dry sections prior to, or separated from, trenches in wet areas so that flooding will not hamper collection of data.

Map the west wall of the trench and plot at a scale of 1:200 horizontally; 1:100 vertically. Show a profile of the soil horizons and location (attitude?) of larger boulders and rock fragments. Identify rocks as to type and note orientation of pebbles if possible. On a separate profile directly below the first, plot and contour scintillometer readings taken with the scintillometer directly on the trench wall. Readings should be from each soil horizon on vertical lines spaced at 5 metre intervals along the trench. Spray paint these lines. Spot check boulders and rock fragments. Photograph the trench wall.

Soil sample each soil horizon on every second vertical line used for scintillometer readings. Every second set of soil samples should be sent for analysis for Mo and U. Alternate sets will be stored for future examination. Soil sample results should be plotted on a third profile below the first two and contoured.