BOOT CLAIM GROUP

Richards Creek

W. L. Twoduck 4818 Lake

Hammer Creek

Soud Creek

CROSS SECTION SEE FIG. GP80-M5

CROSS SECTION SEE FIG. GP80-M5

BOOT CLAIM BOUNDARY

UNSTAKED

MARMOT CLAIM BOUNDARY

BOOT CLAIM BOUNDARY

UNSTAKED

B 9,100 E AZ 315°

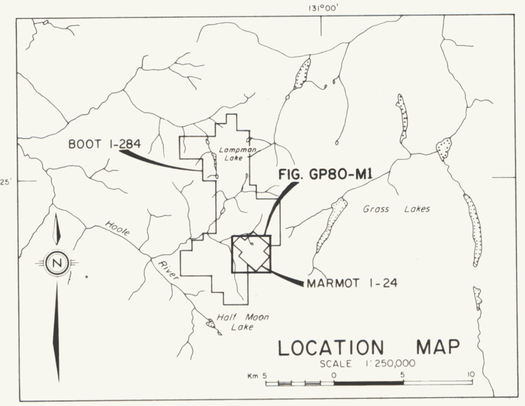
A 9,100 AZ 315°

131°00'

131°06'

61°23'

61°25'



LEGEND

Mesozoic

Cretaceous

Kqm — **Quartz Monzonite**
Grey weathering, coarse porphyritic biotite-muscovite quart monzonite, white K-feldspar phenocrysts up to 10 cm in length, weakly developed but common propylitic alteration.

Kap — **Aplite**
white, fine to medium grained equigranular quartz feldspar aplite.

Cretaceous ?

Pn — **Feldspar Augen Gneiss**
Grey weathering biotite-muscovite-feldspar-quartz augen gneiss with white porphyroblasts of K-feldspar up to 10 cm in length; thought to represent older deformed equivalent of quartz monzonite (Kqm).

Allochthonous Schist Assemblage

Age and Relationship Unknown (Probably Paleozoic)

PPK?

Pcs — **Chlorite Schist**
Dark green lustrous chlorite schist, often with biotite porphyroblasts, minor carbonate altered feldspar), talcy.

Pam — **Amphibolite**
Dark green to green and white banded amphibolite, often coarse grained with prismatic euhedral hornblende in a white feldspar groundmass.

Pbm — **Biotite Marble**
Dark brown weathering blocky fracturing biotite marble, evenly disseminated weakly foliated biotite porphyroblasts, clay alteration in groundmass, may be altered basic igneous rock.

Pmcs — **Muscovite-Chlorite Schist**
Light brown rusty weathering Muscovite chlorite schist, locally grades to gneissic equivalents, may contain biotite.

Pmm — **Micaceous Marble**
Light to dark grey differentially weathering micaceous marble occurs in Pmcs.

Pcp — **Carbonaceous Phyllonite**
Black carbonaceous phyllonite, occurs locally in Pmcs.

Contact Metamorphosed Equivalents of above Units

Pbmcs — **Biotite-Muscovite-Chlorite Schist**
Grey to brown weathering, chloritic biotite-muscovite schist, often garnet bearing with calc-silicate rock in limier sections.

Pcss — **Calc-Silicate Schist**
Colourful foliated calc-silicate schist. Garnet, vesuvianite, wollastonite, and minor pyroxene bearing chloritic biotite schist, interbedded marble common.

Psk — **Skarn**
Medium to dark-olive green fine grained pyroxene-vesuvianite-garnet skarn, confined to intrusive contacts.

Autochthonous?

Windermere? and Cambrian?

PEsc — **Muscovite-Garnet Marble**
Light brown and silvery weathering muscovite-garnet marble, commonly associated with chlorite-muscovite garnet schist.

PEcm — **Grey Marble**
Light grey massive crystalline marble, occurs within PEsc.

PEbs — **Siliceous Biotite Schist**
Medium silver weathering, fine grained siliceous biotite schist, occurs within PEsc.

Contact Metamorphosed Equivalents of above Units

PEsk1 — **Vesuvianite Skarn**
Medium to dark olive green vesuvianite garnet skarn. Textures range from fine grained laminated to coarsely crystalline. Traces of scheelite common.

PEsk2 — **Pyroxene Skarn**
Rusty weathering, very dark green, fine grained dense pyroxene skarn with minor pyrrhotite and chlorite.

Symbols

- Scheelite occurrence
- Geological boundary, defined, approximate, assumed
- Fault: defined, approximate
- Foliation inclined
- Fold axis
- Highly deformed rock
- Outcrop and subcutcrop limits: large, small
- Claim post
- Boulders diamond drill hole

FIG. GP80-M1

ARCHER, CATHRO & ASSOCIATES LTD

GEOLOGY

MARMOT SHOWING
BOOT AND MARMOT CLAIM GROUP
GRASS PROJECT

SCALE 1:5,000

100 50 0 50 100 200 300 400 500 Yards

100 50 0 50 100 200 300 400 500 Metres

Association of Professional Engineers of the Yukon Territory
R. J. CATHRO
GEOLOGICAL
ENGINEER
Jan/81

To accompany report dated Jan/81