



- ### LEGEND
- Mesozoic**
- Cretaceous**
 - Kqm** Quartz Monzonite
 - Grey weathering, coarse porphyritic biotite-muscovite quartz monzonite, white K-feldspar phenocrysts up to 10 cm in length, weakly developed but common porphyroblasts.
 - Kap** Aplite
 - White, fine to medium grained equigranular quartz-feldspar aplite.
 - Cretaceous ?**
 - En** 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)
- EP***
 - Pcs** Chlorite Schist
 - Dark green to black chlorite schist, often with biotite porphyroblasts, minor carbonate, altered feldspar, talc.
 - Pam** Amphibolite
 - Dark green to green and white banded amphibolite, often coarse grained with prominent mineral hornblende in a white feldspar groundmass.
 - Pbm** Biotite Marble
 - Dark brown weathering blocky fractured biotite marble, evenly decomposed weakly foliated biotite porphyroblasts, clay alteration common, may be altered back to igneous rock.
 - Pmcs** Muscovite-Chlorite Schist
 - Light brown rusty weathering muscovite-chlorite schist, locally grades to pelitic marble, 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 lower sections.
 - Pcss** Calc-Silicate Schist
 - Coloured 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?**
 - Wendernere? and Cambrian?**
 - ECsc** Muscovite-Garnet Marble
 - Light brown to olive weathering muscovite-garnet marble, commonly associated with chlorite-muscovite schist.
 - ECcm** Grey Marble
 - Light grey massive crystalline marble, occurs within ECsc.
 - ECbs** Siliceous Biotite Schist
 - Medium to dark olive weathering, fine grained siliceous biotite schist, occurs within ECsc.
 - Contact Metamorphosed Equivalents of above Units**
 - ECsk1** Vesuvianite Skarn
 - Medium to dark olive green vesuvianite-garnet skarn. Textures range from fine grained laminated to coarsely crystalline. Traces of chlorite common.
 - ECsk2** Pyroxene Skarn
 - Rusty weathering, very dark green, fine grained dense pyroxene skarn with minor amphibolite and chlorite.

Symbols

 - *** Schistite occurrence
 - Geological boundary, defined, approximate, assumed
 - Fault: defined, approximate
 - Foliation inclined
 - Fold axis
 - Highly deformed rock
 - Outcrop and suboutcrop limits: large, small
 - +** Claim post
 - Locities: defined, drill hole

FIG. GP80-M1
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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

To accompany report dated Jan/81

Professional Engineers of the Union Territory
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