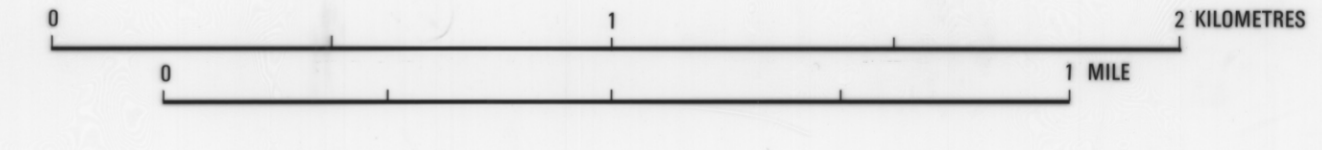


### GEOLOGY OF THE ROSEBERY AREA

G. R. GREEN B.Sc. (Hons.)



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| <p><b>QUATERNARY</b></p> <ul style="list-style-type: none"> <li> Differentiated glacial, fluvio-glacial, periglacial and fluvial deposits. Minor deposits indicated (black outline symbol)</li> </ul> <p><b>CAMBRIAN</b></p> <ul style="list-style-type: none"> <li> Acid intrusive rocks, mainly quartz-feldspar porphyry.</li> <li> Metis to intermediate, generally fine grained, intrusive rocks.</li> </ul> <p><b>MOUNT BLACK VOLCANICS</b></p> <ul style="list-style-type: none"> <li> Crystal tuff and lava of andesite to dacite composition (Agglomerate indicated (A))</li> <li> Massive, flow-banded, and autochthonous rhyolite-phyric rhyolite lava, with minor pyroclastic units. Breccias indicated (B)</li> </ul> <p><b>FRASERSIDE PYROCLASTICS</b></p> <ul style="list-style-type: none"> <li> Volcanic crystal and lithic tuff and breccias of mainly rhyolite composition. Ductile sandstone horizons indicated (SH); breccias indicated (B). Quartz-phyric rocks indicated (Q)</li> </ul> <p><b>North Pikes Area</b></p> <ul style="list-style-type: none"> <li> Quartz-feldspar bearing, graded breccias to banded tuff units</li> <li> Ductile crystal tuff.</li> </ul> <p><b>West Peak and Corralies</b></p> <ul style="list-style-type: none"> <li> Black ultra-ultra-sandstone horizons. Volcanic breccias indicated (V)</li> <li> Quartz-phyric volcanic rock indicated (Q)</li> </ul> <p><b>FRASERSIDE PYROCLASTICS</b></p> <ul style="list-style-type: none"> <li> Ductile ignimbrite rhyolite tuff-phyric rhyolite crystal lapilli tuff. Zones of quartz-phyric to obsidian to andesite to granite and/or indicated (granite symbol)</li> </ul> <p><b>CRIMSON CREEK FORMATION CORRELATE</b></p> <ul style="list-style-type: none"> <li> Massive or grey ultra-ultra-sandstone sequence with horizons of mafic volcanoclastic sandstone.</li> </ul> <p><b>ROSEBERY GROUP</b></p> <ul style="list-style-type: none"> <li> Black slate, quartz waste sandstone. Minor dolomite units indicated (D)</li> <li> Massive quartzite</li> <li> Quartz-phyric rhyolite tuff (Williamsford Volcanics)</li> <li> Quartz-phyric rhyolite tuff and breccia (Mount Black Volcanics)</li> <li> Polymict, feldspar-bearing conglomerate and sandstone (Callibary Conglomerate)</li> <li> Dolomitic siltstone and shale, minor siltstone conglomerate units indicated (siltstone symbol); minor sandstone (Williamsford Volcanics)</li> <li> Quartz waste, lithic waste, black shale. Minor conglomerate (Callibary Quartzite). Strongly deformed zone indicated (deformed symbol)</li> <li> Black slate with acid volcanoclastic sandstone indicated (stratified) (Chamberlain Shale)</li> </ul> | <ul style="list-style-type: none"> <li> Geological boundary observed. Dip shown by tick where measured.</li> <li> Geological boundary inferred.</li> <li> Fault, approximate.</li> <li> Fault, inferred.</li> <li> Strike and dip of bedding. Facing known from sedimentary features.</li> <li> Strike and dip of overturned bedding. Facing known from sedimentary features.</li> <li> Strike and dip of bedding. Facing unknown.</li> <li> Strike and dip of primary foliation in volcanic rocks.</li> <li> Strike and dip of oblique change, spaced change in volcanic rocks.</li> <li> Vertical cleavage.</li> <li> Strike and dip of construction change.</li> <li> Axial trace of major anticline, syncline, observed.</li> <li> Axial trace of major anticline, syncline, approximate.</li> <li> Axial trace of major anticline, syncline, inferred.</li> <li> Axial trace of inferred faulted anticline.</li> <li> Axial trace of overturned syncline.</li> <li> Minor fold, early generation with plunge, dip of axial surface shown.</li> <li> Minor fold, late generation with plunge, dip of axial surface shown.</li> <li> Minor fold with vertical, or, structural asymmetry looking down plunge.</li> <li> Prospect or abandoned mine.</li> <li> Mine.</li> <li> Diamond drill hole.</li> </ul> |
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CONTOUR INTERVAL 100 METRES  
BASE MAP ADAPTED FROM ELECTROLYTIC ZINC CO. COMPILATION.  
Geology by G.R. Green except for Fraserie West east of 80500 E (Anderson, 1972) and Rosebery Group — Mt. Read Volcanics contact north of 78000 N (from Barton et al., 1966).

CARTOGRAPHY BY P.A. HANVELL