

The Margaret area is underlain by the Tertiary Sooke Gabbro, which forms the basement of the Metchosin Volcanics and is composed of coarse grained gabbro with about equal parts of bytownite and diopside and with about 5 per cent olivine. Dykes of leucogranite contain up to 80 per cent bytownite. Local amigmatization, amphibolitization and mineralization of the gabbro occurred later along shear zones, concurrent with the emplacement of Catface Intrusions.

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A mineralized, sheared and fractured honblendite "vein" striking 043 degrees and dipping 85 degrees southeast attains a width of about 60 metres and has been traced for about 1370 metres. The ore zone along this feature has an indicated length of 380 metres and width of up to 50 metres. Fracturing is most extensive near the intersection of the main shear with a smaller one 30 metres wide which strikes 010 degrees. As a consequence, the majority of the higher grade copper ore has been localized in this vicinity over a known length of 75 metres.

Mineralization consists chiefly of disseminated chalcopyrite with minor amounts of pyrite, pyrrhotite and magnetite. Chalcopyrite also occurs in small lenses and stringers and in numerous quartz veins. A few small scales of native copper were seen. Three chip samples over 23 metre gave an average grade of 0.97 per cent copper (Page, 1950). Values in nicker up to 0.6 per cent and cobalt up to 0.5 per cent have been obtained but are erratic. Gold and silver values are present but seldom over 0.34 grams per tonne and 17.14 grams per tonne respectively. Traces of palladium have also been obtained.

1950
5-1850

The main group of workings, consisting of two short adits and two opencuts, is about 150 metres south of the northwest corner of the Copper King Crown granted claim (Lot 139). About 30 metres southwest of these workings is a 30 metre long trench with a 7.5 metres shaft at its south end. A crosscut has been driven about 18 metres from the shaft. About 300 metres farther southwest along the major shear zone is a second group of workings consisting of several opencuts and a shaft. The zone has also been tested between these two groups of workings by several opencuts and a shaft.

The deposit was actively mined in 1917 and 1918 producing 507 tonnes of ore from which was extracted 19,162 kilograms of copper, 186 grams of gold and 2,862 grams of silver (Mineral Policy data).