Location/Identification

MINFILE Number: 092B 140
Name(s): **QUARRY**
WEST 2, CROFT 2, PHOENIX

Status: Showing
Regions:
BCGS Map: 092B082
NTS Map: 092B13E
Latitude: 48 51 39 N
Longitude: 123 40 17 W
Elevation: 204 metres
Location Accuracy: Within 500M

Mining Division: Victoria
Electoral District: Nanaimo-North Cowichan
Resource District: South Island Natural Resource District

UTM Zone: 10 (NAD 83)
Northing: 5412203
Easting: 450756

Comments: Located about 400 metres north of the northwest end of Crofton Lake, on Mount Richards (Assessment Report 11433, Compilation Map).

Mineral Occurrence

Commodities: Copper, Zinc

Minerals
Significant: Pyrite, Chalcopyrite, Bornite
Associated: Quartz
Alteration: Malachite
Alteration Type: Oxidation
Mineralization Age: Unknown

Deposit
Character: Disseminated, Vein
Classification: Epigenetic, Hydrothermal
Type: L04: Porphyry Cu +/- Mo +/- Au

Host Rock

Dominant Host Rock: Metasedimentary

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Devonian	Sicker	McLaughlin Ridge	------
Upper Triassic	------	------	Unnamed/Unknown Informal

Isotopic Age	Dating Method	Material Dated
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Lithology: Meta Sediment/Sedimentary, Schist, Gabbro

Comments: Mineralization is in metasediments near a gabbro intrusive that is coeval with Karmutsen Formation (Vancouver Group).

Geological Setting

Tectonic Belt: Insular
Terrane: Wrangell
Physiographic Area: Georgia Depression

Inventory

Ore Zone: DRILLHOLE
Year: 1985

Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Drill Core

Commodity	Grade
Copper	0.13 per cent
Zinc	0.01 per cent

Comments: drilling intersected small , 25 to 60 centimetre, zones of semi-massive magnetite with trace pyrrhotite. The best of these assayed 0.13 per cent copper and 0.01 per cent zinc over 0.80 metres.

Reference: Assessment Report 13853

Capsule Geology

The Quarry and Phoenix occurrences are located on the eastern slope of the ridge north west of Crofton Lake, and overlooking Crofton

The area is underlain by pyritic silicified metasediments of the Upper Devonian McLaughlin Ridge Formation (Sicker Group) and a gabbro intrusive (informally called the Mount Hall Gabbro) that is coeval with the Upper Triassic Karmutsen Formation, Vancouver Group, (Massey, N.W.D., Personal Communication, 1991).

Two small quarries are reported to exist about 400 metres north of Crofton Lake. Some of the more heavily pyritized rocks in the area contain chalcopyrite along with malachite and bornite. In the lower quarry, where gabbro is in contact with the metasediments, extensive pyritization occurs in silicified sediments 20 metres north of the contact, along with minor amounts of copper minerals. The pyrite occurs as disseminations and as masses in fractures. At the contact is an altered chloritic schist with quartz veining confined mainly to bedding. Chalcopyrite and minor amounts of pyrite are found in the quartz. In 1985, drilling intersected small , 25 to 60 centimetre, zones of semi-massive magnetite with trace pyrrhotite. The best of these assayed 0.13 per cent copper and 0.01 per cent zinc over 0.80 metres (Assessment Report 13853).

At the Phoenix showing a pit, 6 metres wide and 1.5 metres deep, exposes a 1-metre wide quartz vein trending west through sheared gabbro. The vein is virtually barren except for an occasional speck of malachite (Notes by Wright, 1969).

In 1969, Canpac Minerals explored the area as the Sirius claims. A program of geological mapping and a ground magnetic survey was completed. In 1978, the area was staked as the Croft 2 claim and a program of geological mapping and soil sampling was completed. In 1983, the area was staked as the West claims by R.J. Bilquist and a program of prospecting was completed. In 1984 and 1985, Falconbridge optioned the property and completed programs of geochemical sampling, a airborne geophysical survey and two diamond drill holes, totalling 327.7 metres. In 1987, Falconbridge completed a drilling program of 10 holes, totalling 3170.7 metres, in the vicinity of Breen Lake on the West 1 claim.

Bibliography

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Date Coded: 1990/09/18 **Coded By:** Garry J. Payie (GJP) **Field Check:** N

Date Revised: 2020/06/24 **Revised By:** Karl A. Flower (KAF) **Field Check:** N