

NAME OF PROPERTY

NI, FIRE

OBJECT LOCATED

UNCERTAINTY IN METRES

Lat. 59°27.8' Long. 132°47.5'

Mining Division Atlin

District Cassiar

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

A small Eocene ? porphyry stock intrudes northeasterly trending cherts, siliceous argillites, and argillites of the Cache Creek Group. The stock measures 350 by 1,200 feet and has its long axis parallel the trend of the bedded rocks. Contacts are difficult to recognize due to poor exposure, rock alteration, and weathering affects. A pronounced reddish brown gossan has formed over the mineralized zone and oxidation with some surficial leaching is known to depths of 90 feet. The intrusive rock is a weakly miarolitic, leucocratic, medium to coarse-grained (biotite) quartz feldspar porphyry with phenocrysts up to 1.5 centimetres set in a fine-grained quartz feldspar matrix.

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Molybdenum mineralization is found in a silicified zone encompassing the stock, its contact, and peripheral brecciated chert beds. Molybdenite occurs mainly in quartz veinlets but also in vuggy fractures lined with crystalline quartz, pyrite, and siderite. An extensive zone with disseminated pyrite and pyrrhotite presumably flanks the molybdenum-bearing intrusive core. Minor chalcopyrite and traces of galena, sphalerite, and arsenopyrite have been reported from drill core by company geologists and this study found traces of scheelite in the porphyry. (Panteleyev, 1972).

Associated minerals or products of value - Copper.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at elevations of 3,000 to 6,080 feet, 1.5 miles southeast of Mount Sanford and 35 miles east-southeast of Atlin.

Canadian Johns-Manville Company, Limited held the Ni, Fire, Dog, Line, KOW, TOW, Red, and Wind groups totalling some 520 claims. Work during 1971-72 included geological mapping, a magnetometer survey over 22 line-miles, a geochemical soil survey (560 samples) covering the Ni, Fire, and KOW claims, and diamond drilling in 6 holes totalling 4,904 feet on Ni 5, 10, 11, 30, Fire 5, and KOW 11.

HISTORY OF PRODUCTION

REFERENCES

Geology, Exploration, and Mining; British Columbia Dept. of
Mines: 1972, p. 556.

MAP REFERENCES

Map 1082 A, Atlin, (Geol.), Sc. 1":4 miles - accomp.
Memoir 307, Geol. Surv. of Canada, 1959.

Map 104 N/7 W, Bell Lake, (Topo.), Sc. 1:50,000.

REMARKS

Location from Geology, Exploration, and Mining, 1972,
p. 556, British Columbia Dept. of Mines.

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BCI - 104 N - 67, 68.