

## NAME OF PROPERTY

POLARIS

## OBJECT LOCATED

## UNCERTAINTY IN METERS

Lat. 56°27'45" Long. 125°44'30"

Mining Division **Qmineca**District **Cassiar**

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

## OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

The formation consists of a complex assemblage of slaty argillite, impure limestone, tuffs, and andesitic flows cut by many small dykes and stocks of acidic to intermediate composition. Near a small stock of quartz-biotite porphyry, slaty argillites are cut by a network of small quartz and quartz-calcite veins. The veins in places are well mineralized with disseminated, banded or blebby pyrite, arsenopyrite, and pyrrhotite with very minor chalcopyrite. The network of veins has an observed width of as much as 3 feet with individual veins being mostly less than 2 inches wide. Remarkably high gold assays are reported to have been obtained from samples across narrow widths of some of these veins, but it is understood that the average gold content across mineable widths did not approach commercial grade. Also exposed in the Polaris Creek gorge are several lens-like replacement bodies of pyrrhotite, with minor pyrite and chalcopyrite. The largest of these is about 30 feet wide, and is exposed on both sides of the canyon wall for a vertical distance of at least 100 feet. None of these bodies has shown a significant precious metal content.

Associated minerals or products of value - **Copper.**

## HISTORY OF EXPLORATION AND DEVELOPMENT

This showing is located on Polaris Creek about a mile above its junction with Lay Creek, some 41 miles west-southwest of Fort Grahame. The Polaris group of 8 claims was staked by The Consolidated Mining & Smelting Company of Canada Limited in 1932. Exploration work was carried out on the showings during 1932 and 1933; the initial sampling returned high gold assays.

HISTORY OF PRODUCTION

REFERENCES

Roots, E.F.; Geology & Mineral Deposits of Aiken Lake Area, British Columbia; Memoir 274, p. 221, Geol. Surv. of Canada, 1954.

Lay, Douglas; Aiken Lake Area, North-Central British Columbia; Bulletin No. 1, pp. 22-24, British Columbia Dept. of Mines, 1940.

Reports of Minister of Mines, British Columbia: 1932, p. 86; 1933, p. 100.

Mineral Policy Sector; Corporation Files: "Cominco Ltd." - 1933 Annual Report.

MAP REFERENCES

Map 1030 A, Aiken Lake, (Geol.), Sc. 1":4 miles - accomp. Memoir 274.

Prel. Map 48-5A, Aiken Lake, (Geol.), Sc. 1":2 miles - accomp. G.S.C. Paper 48-5.

Map 94 C, Fort Grahame, (Topo.), Sc. 1:250,000.

REMARKS

Comp./Rev. By

DMacE

Date

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