

PRODUCT COPPER
PRODUIT

PROVINCE OR TERRITORY PROVINCE OU TERRITOIRE

British Columbia

N.T.S. AREA 94 C/5
RÉGION DU S.N.R.C.

REF. CU 1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

PORPHYRY CREEK

HISTORY OF EXPLORATION AND DEVELOPMENT
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

OBJECT LOCATED
OBJET LOCALISÉ

UNCERTAINTY
FACTEUR D'INCERTITUDE

Lat. 56°27' Long. 125°59'30"
Lat. Long.

Mining Division Omineca
Division minière

District Cassiar
District

County Township or Parish
Comté Canton ou paroisse

Lot Concession or Range
Lot Concession ou rang

Sec. Tp. R.
Sect. Ct. R.

Porphyry Creek is a southerly flowing tributary of Kliyul Creek about $\frac{1}{2}$ mile west of Croydon Creek and about 8 miles west northwest of the west end of Aiken Lake. A number of claims near the mouth of the creek were explored by Cominco Ltd. prior to 1940. Workings include open-cuts and an adit 10 feet long.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The mineral occurrences consist of narrow veins and disseminated deposits of pyrite, chalcopyrite, and molybdenite, associated with large masses of white quartz in medium-grained, dark green hornblende diorite of the Omineca intrusions. Stripping and natural erosion have uncovered quartz at intervals over an area 200 feet long and 60 feet wide, but because of the large quantity of stream gravels that blanket the deposit, it could not be determined whether the quartz belongs to one large or several smaller bodies. Within the quartz are lensy veins of pyrite and molybdenite up to 4 inches wide, the best exposed of which can be traced for about 20 feet. Stringers of chalcopyrite up to $\frac{1}{2}$ inch wide cut both the quartz and the hornblende diorite, and appear to represent a stage of mineralization distinct from that of the pyrite-molybdenite veins. The average sulphide content of the deposit is very low, and assays for precious metals have not been encouraging.

The stream gravels contain boulders of rusty, porous magnetite, which, when crushed and panned, show a few 'colours' of gold. These boulders probably came from the vicinity of the Shell property, near the headwaters of Porphyry Creek.

Associated minerals or products - Molybdenum.
Minéraux ou produits associés

Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa
Secteur de la politique minérale, ministère de l'Énergie, des Mines et des Ressources, Ottawa
503344 *

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

REFERENCES/BIBLIOGRAPHIE

Roots, E.F.; Geology and Mineral Deposits of Aiken Lake Map-Area, British Columbia; Memoir 274, p. 211, Geol. Surv. of Canada, 1954.

Lay, Douglas; Aiken Lake Area, North-Central British Columbia; Bulletin No. 1, 1940, p. 14, British Columbia, Dept. of Mines.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

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

Preliminary Map 48-5 A, Aiken Lake, B.C., (Geol.), Sc. 1":2 miles - accomp. GSC Paper 48-5.

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

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par							
Date Date	01-67						