

PRODUCT GOLD
PRODUIT

PROVINCE OR TERRITORY PROVINCE OU TERRITOIRE

British Columbia

N.T.S. AREA 94 C/5
RÉGION DU S.N.R.C.

REF. AU 3
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

CROYDON (JANE)

OBJECT LOCATED
OBJET LOCALISÉ

UNCERTAINTY
FACTEUR D'INCERTITUDE

Lat. 56°27'30" Long. 125°59'

Lat.

Long.

Mining Division Omineca
Division minière

District
District

Cassiar

County
Comté

Township or Parish
Canton ou paroisse

Lot
Lot

Concession or Range
Concession ou rang

Sec
Sect.

Tp.
Ct.

R.
R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The deposits lie in nearly parallel shear zones that strike about N10°E and dip steeply southeast in medium-grained hornblende diorite. The shear zones vary in width from a few inches to about 30 feet, and contain lenticular bodies of vein quartz, usually with free walls. The individual quartz bodies are seldom more than 2 feet wide, but an interlacing network of them in many places occupies the entire width of the shear zone. The sheared hornblende diorite has been largely altered to a soft, green, chloritic material. The quartz is irregularly mineralized with massive to crystalline pyrite and chalcopyrite. Metallic minerals do not comprise more than about 5% of most of the veins examined, but local concentrations of almost solid sulphides form lenses up to 2 feet wide and 15 feet long. Small amounts of magnetite, molybdenite, gold, and an unidentified soft, silvery mineral accompany the pyrite and chalcopyrite. The ore minerals are confined mainly to the quartz bodies, but in a few places the sheared hornblende diorite is pyritized. A grab sample consisting of white fractured quartz containing massive pyrite and thin sheets of molybdenite assayed; gold, 0.06 ounce a ton;

p.t.o.

Associated minerals or products - Silver, copper, iron, molybdenum.
Minéraux ou produits associés

HISTORY OF EXPLORATION AND DEVELOPMENT

HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

This showing is located on Croydon Creek, about 7½ miles west-northwest of the west end of Aiken Lake.

The claims were owned and explored by Cominco Ltd. Operations ceased in 1938 but the company held 6 claims in good standing for a number of years following. Exploration work consisted of some 1,500 feet of drifts and crosscuts in 3 adits.

The Jane 1-17 claims were explored in 1958 as a joint effort by Noranda Exploration Company, Limited, Canex Aerial Exploration Ltd., and Bralorne Mines, Limited. Work included geological mapping, 35,000 feet of line cutting, and 1,537 feet of diamond drilling in 7 holes.

In 1963 the Croydon property, 62 recorded claims, was under option to Rio Tinto Canadian Exploration Limited. Work during the year included 23 miles of line cutting, a magnetometer survey over an area 3,000 by 3,500 feet, and induced potential and geochemical surveys.

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

silver, 0.35 ounce a ton; and copper, 0.71%. Several shear zones occur at intervals along Croydon Creek within 2,000 ft. upstream from those explored by underground workings. Some of them apparently contain considerable magnetite, for areas up to 400 feet wide of strong magnetic attraction have been outlined.

REFERENCES/BIBLIOGRAPHIE

Roots, E.F.; Geology and Mineral Deposits of Aiken Lake Map-Area, British Columbia; Memoir 274, pp. 213-217, Geol. Surv. of Canada, 1954.

Lay, Douglas; Aiken Lake Area, North-Central British Columbia; Bulletin No. 1, 1940, pp. 8-19, British Columbia Dept. of Mines.

Reports of Minister of Mines, British Columbia: 1958, p. 11; 1963, p. 38.

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, (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	09-74					