

882159 CROY

RUN DATE: 08/21/96  
RUN TIME: 14:39:15MINFILE / pc  
MASTER REPORT  
GEOLOGICAL SURVEY BRANCH - MINERAL RESOURCES DIVISION  
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCESPAGE: 1  
REPORT: RGEN0100

TOS Aug. 30/96

MINFILE NUMBER: 094D 015

NATIONAL MINERAL INVENTORY: 094D0 Cui,Aul

NAME(S): CROY, SHELL, CROY 1-17

STATUS: Showing  
NTS MAP: 094D08E  
LATITUDE: 56 28 52  
LONGITUDE: 126 02 36  
ELEVATION: 1650 Metres  
LOCATION ACCURACY: Within 500MMINING DIVISION: Omineca  
UTM ZONE: 09  
NORTHING: 6263325  
EASTING: 682085

COMMENTS: Centre of known mineralization (Assessment Report 2862).

COMMODITIES: Gold Copper Silver Molybdenum Zinc  
Lead

## MINERALS

SIGNIFIANT: Chalcopyrite Pyrite Magnetite Pyrrhotite Galena  
Sphalerite Molybdenite  
ASSOCIATED: Quartz Calcite Chlorite  
ALTERATION: Chlorite Carbonate Quartz  
ALTERATION TYPE: Chloritic Silicification Carbonate  
MINERALIZATION AGE: Unknown

## DEPOSIT

CHARACTER: Shear Vein Massive Disseminated  
CLASSIFICATION: Hydrothermal Epigenetic  
TYPE: Subvolcanic Cu-Ag-Au (As-Sb) Polymetallic veins Ag-Pb-Zn  
Gold-quartz veins

## HOST ROCK

DOMINANT HOST ROCK: Volcanic

## STRATIGRAPHIC AGE

Triassic-Jurassic

GROUP  
Takla

## FORMATION

Unnamed/Unknown Formation

## IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Volcanic Flow  
Breccia  
Tuff  
Feldspar Porphyry Dike

## GEOLOGICAL SETTING

TECTONIC BELT: Intermontane  
TERRANE: Queenel

PHYSIOGRAPHIC AREA: Omineca Mountains

## INVENTORY

ORE ZONE: 2

CATEGORY: Assay/analysis YEAR: 1980  
SAMPLE TYPE: Grab  

COMMODITY	GRADE
Silver	78.5100 Grams per tonne
Gold	42.0680 Grams per tonne
Copper	20.3000 Per cent

REFERENCE: Property File - Pacific Rim Mining Corp., Prospectus, 1988.

ORE ZONE: VEIN

CATEGORY: Assay/analysis YEAR: 1991  
SAMPLE TYPE: Grab  

COMMODITY	GRADE
Silver	5.2000 Grams per tonne
Gold	2.0000 Grams per tonne

COMMENTS: From a pyritic milky quartz vein, about 800 metres to the southwest.  
REFERENCE: Assessment Report 21521.

## CAPSULE GEOLOGY

The Croy occurrence is located on the northeast slope of a ridge separating Croydon and Kliylul creeks, approximately 17 kilometres east-northeast of Dortatelle Peak (Assessment Report 2862).

Regionally, the area is underlain by a northwest-trending assemblage of Middle Triassic to Lower Jurassic Takla Group volcanics and sediments. The Takla Group rocks are intruded by the Early Jurassic Hogen batholith, to the south. To the east, the rocks are intruded by leucocratic granodiorite of the Early Cretaceous Kliylul Creek body. Three northwest-trending, elongate, Alaskan-type, Late Triassic ultramafic bodies also occur in the general area.

Locally, the property is underlain by gently folded volcanic flows, breccias and thin bedded tuffs intruded by feldspar porphyry dykes. The major structure in this area is the north trending Dortatelle fault. Smaller faults trend northwest.

MINFILE NUMBER: 094D 015

RUN DATE: 08/27 '96  
RUN TIME: 14:35 15

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PAGE: 2  
REPORT: RGEN0100

CAPSULE GEOLOGY

Mineralization occurs in north-northwest trending sulphide-rich shear zones and in veins. The zones, cutting the volcanics at angles, appear to be related to the acidic feldspar porphyry dykes (Property File - Pacific Rim Mining Corp., Prospectus, 1988). Six mineralized zones have been identified and are commonly offset by north-northeast cross faults.

The mineralization is massive to disseminated and consists of chalcopyrite, pyrite, magnetite and pyrrhotite with lesser amounts of galena, sphalerite and molybdenite. The shear zones also contain quartz, calcite and chlorite. Within the quartz-carbonate veins, mineralization consists primarily of chalcopyrite with associated pyrite and pyrrhotite.

A grab sample from Zone 2 assayed 42.068 grams per tonne gold, 78.51 grams per tonne silver and 20.30 per cent copper (Property File - Pacific Rim Mining Corp., Prospectus, 1988).

Similar veins and fractures occur approximately 800 metres to the southwest. A grab sample from a pyritic, milky, quartz vein assayed 2.0 grams per tonne gold and 5.2 grams per tonne silver (Assessment Report 21521). Numerous chalcopyrite showings occur over the 800 metres.

BIBLIOGRAPHY

EMPR AR 1947-103  
EMPR GEM 1970-186; 1972-480  
EMPR ASS RPT 2862, \*21521  
EMPR PF (In 094D General - Canadian Superior Exploration Limited, Maps from Company Files, c. 1973; \*Pacific Rim Mining Corp., Prospectus, Nov. 14, 1988)  
GSC MEM 251, p. 60; 274, p. 212  
GSC MAP 962A, 1030A  
GSC OF 342  
GSC P 76-29  
EMR MP CORPFILE (Barymin Company Ltd.; Beaver Resources Inc.)

DATE CODED: 850724  
DATE REVISED: 920316

960828

CODED BY: GSB  
REVISED BY: DMM

TGS

FIELD CHECK: N  
FIELD CHECK: M Y

Note! Drilled in 1989 - private report on Athlone's files  
~~update~~