

## NAME OF PROPERTY

EMPRESS

OBJECT LOCATED - Showing, Fig. 11, Geological Fieldwork 1976.

UNCERTAINTY IN METRES 300. Lat. 51°06'20" Long. 123°24'00"

Mining Division Clinton

District Lillooet

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

## OWNER OR OPERATOR

## DESCRIPTION OF DEPOSIT

The property lies on an east-west contact between granodiorite of the Coast Range batholith and Cretaceous volcanics, about half a mile south of the Taseko river.

Rocks at the Empress showing are pervasively altered. Judging from regional relationships the country rocks are a mixed assemblage of massive to porphyritic andesitic flows, and variably fine to coarse-grained thick-bedded fragmental volcanic rocks. At Empress, bleaching, pervasive silicification, and sericitic alteration were accompanied by formation of pyrite, chalcopyrite, and magnetite. Alteration intensity and type vary as do amounts and proportions of magnetite and sulphides. In places the rock now consists primarily of granular quartz with disseminated magnetite and sulphides. Sericitic alteration is expressed as pale pink or green alteration of feldspars and as disseminated pockets and veinlets of flaky sericite. Where the flaky sericite is disseminated it generally accompanies magnetite, quartz, sulphides, and often feldspar. Specularite rather than magnetite and chlorite is locally present and occurs in p.t.o. ....

Associated minerals or products - Gold, silver.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located on the lower end of Granite Creek near its junction with the Taseko River approximately 7 miles east-southeast of Upper Taseko Lake.

The Empress group of 6 claims was owned in 1935 by J. Cuthbert, E.J. Taylor and associates. Limited trenching was reported on the east side of the creek.

Canadian Exploration Limited in 1956 optioned some 200 claims in this vicinity from the Gadara Copper Syndicate, of Williams Lake. One hole was drilled to a depth of 475 feet on the east side of Granite creek near its mouth.

Valnicla Copper Mine Ltd. and Cannoo Mines Ltd. in 1968 optioned the Empress 1-5 claims from E.E. Holbrook and L.J. Russell and staked 89 adjacent claims in the Taseko group. Late in 1968 Cannoo diamond drilled about 316 feet in 4 holes in the vicinity of Granite Creek. In February 1969 Cannoo and Valnicla re-optioned the property to Scurry-Rainbow Oil Limited. Work in 1969 under the option agreement included magnetometer and electromagnetic surveys.

National Nickel Ltd. in 1969 acquired a 53% interest in Cannoo Mines Ltd. In 1970 National optioned a 20% interest in the property to Sumitomo Metal Mining Canada Ltd. During the year Sumitomo carried out an extensive program including magnetometer, induced potential and geochemical soil surveys, and 12,340 feet of percussion drilling in 65 holes.

National Nickel in 1973 changed its name to Aberdeen Minerals Limited. In 1975 an option on the combined property was given to Quintana Minerals Corporation. Percussion drilling was done in 39 holes totalling 1,350 metres. Further work by Quintana in 1976 included diamond drilling in 6 holes totalling 1,025 metres on the Old & Rare claim, and 350 metres in 3 holes on Taseko 42 & 43 claims. Drilling to date outlined an inferred 5,500 000 tons grading 0.35% Cu, 0.031% molybdenum. A drill hole in 1976 cut 164.5 feet averaging 0.065 oz/t Au, 1.28% Cu (George Cross News Letter, 02/08/88).

Genoveva Resource Inc. in June 1984 optioned the property from Scurry-Rainbow Oil Limited and Aberdeen Minerals; work was confined to the adjacent Mohawk and other properties in the vicinity.

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## DESCRIPTION OF DEPOSIT (continued)

pockets and veinlets where it is often joined by quartz and sulphides.

Magnetite is predominantly disseminated but at the original Empress showing it forms irregular patches and massive zones in a strongly silicified outcrop. Sulphides are predominantly pyrite and chalcopyrite but there are minor amounts of molybdenite and pyrrhotite. Sulphides occur as disseminations, in fractures, and in veins. Gangue minerals in fractures and veins include calcite, quartz, and chlorite.

Drilling by Cannoo Mines Ltd. in 1968 cut the following values:

Hole	Length (Ft.)	Cu %	AU oz/t	AG oz/t
1 (at 45°)	98.5	2.72	.02	0.84
2 (vertical)	68	0.81	.002	0.16
3	62	0.297	trace	0.11
4	67	0.352	trace	0.11

(NM 31/07/69)

## MAP REFERENCES

Map 29-1963, Taseko Lakes, (Geol.), Sc. 1":4 miles, Geol. Surv. of Canada.

#Generalized geology of Granite Creek property, Sc. 1":1 mile (approx.), Fig. 11, Geological Fieldwork 1976, p. 48, B.C. Dept. of Mines.

\*Map 92 0/3, Warner Pass, (Topo.), Sc. 1:50,000.

## REMARKS

Comp./Rev. By	DMacR	DMacR	JL				
Date	02-80	08-88	01-91				

## REFERENCES

Reports of Minister of Mines, British Columbia:  
1935, p. F 24<sup>+</sup>; 1956, p. 35; 1968, p. 155.

Mineral Policy Sector; Corporation Files: "Cannoo Mines Ltd."; "Aberdeen Minerals Limited"; "Genoveva Resource Inc.". "Westley Mines Limited"; "Alpine Exploration Corporation"; "Westpine Metals Ltd."

Geological Fieldwork, British Columbia Dept. of Mines:  
1976, p. 52<sup>++</sup>.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 181; 1970, p. 213; 1975, p. E 119; 1976, p. E 132.

George Cross News Letter: 1988, No. 14, 66, 147.

PRODUCT  
PRODUIT

COPPER

PROVINCE OR  
TERRITORY

PROVINCE OU  
TERRITOIRE

British Columbia

N.T.S. AREA 92 0/3  
RÉGION DU S.N.R.C.

REF.  
RÉF. Cu 3

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

EMPRESS

HISTORY OF EXPLORATION AND DEVELOPMENT (con't)

HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

Alpine Exploration Corporation and Westley Mines Limited in 1988 acquired a joint venture option to acquire the property from a private firm which had restaked the showings in 1987 following the release of the property by Scurry-Rainbow. They carried out geochemical and geological surveys, prospecting and diamond drilling of 7 holes for 1,502 feet. Westpine Metals Ltd. purchased the option in 1989. ASARCO Exploration Company of Canada Ltd. optioned the property to get 60% interest. There were done airborne magnetometer and geological surveys and diamond drilling of 19 holes for 11,490 feet.