

PRODUCT

COPPER

PROVINCE OR  
TERRITORY

British Columbia

N.T.S. AREA 82 E/2

REF. Cu 5

NAME OF PROPERTY

EMMA

LOCATION of mine symbol on Map 82 E/2.

Lat. 49°07'50"

Long. 118°32'52"

Radius of uncertainty - 50 meters.

Mining Division

Greenwood

District

Similkameen

County

Township or Parish

Lot

Concession or Range

Sec.

Tp.

R.

OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

The mineralized zone is vertical, sharply defined, and occurs on a limestone-granodiorite contact. The ore is basic, iron and lime with some copper sulphide. The contact is parallel to the original bedding and strikes northerly. The orebody was a lens several hundred feet long and up to 25 feet wide dipping almost vertically. It is bounded on the west and south by diorite, on the east by skarn, and to the north it pinches into barren limestone. Garnet and magnetite are the chief skarn minerals.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The Emma claim group is located about 6 miles northeast of Greenwood in what was known as the Summit Camp. The Oro Denoro claim adjoins on the south.

In 1894 the Emma group, comprising the Emma (Lot 591), Minnie Moore (Lot 593), Mattie Davis, Jumbo (Lot 592), and Mountain Rose claims, was sold to Messrs. Farrel and Midgeon of Butte, Montana. The workings in 1895 consisted of a shaft 110 feet deep with a crosscut at the 50 foot level. The McKenzie and Mann syndicate, of Toronto, purchased the property in 1897. Work was resumed on the property in 1900 after about 4 years of idleness. Ore shipments were begun from surface showings which had apparently been exposed during railroad construction through the property. Hall Mining and Smelting Company, Limited, leased the property in 1902 and ore mined from open cuts and inclines was shipped to the company smelter at Nelson. In 1904 a  $\frac{3}{4}$  interest in the property was acquired by The British Columbia Copper Company, Limited; Hall Mining held the other  $\frac{1}{4}$  interest. The changeover to underground mining was made in 1905. A double compartment shaft was sunk to 272 feet and levels established at 150 and 250 feet. An adit was driven 387 feet. The mine operated until a fire destroyed the headframe in February 1912. The property was then put up for sale as the ore was not suited to the Greenwood smelting operation. The Consolidated Mining and Smelting Company of Canada Limited purchased the property and in 1916 began shipping ore, valued chiefly as a flux, to the Trail smelter. Underground development work during the following years included 170 feet of shaft sinking, 2,522 feet of drifting and crosscutting, 936 feet of raising, and 3,056 feet of diamond drilling. The mine was closed in 1921 after the mining of sills and pillars.

The Emma, Jumbo, and Minnie Moore were part of a group of 5 Crown-granted and 16 recorded claims held in the name of Guaranty Trust Company of Canada in 1967 and under option to West-Coast Resources Ltd. (see: Oro Denoro, 82 E/2, Cu 4). Diamond drilling was reported on the Emma in 1969 and 1970.

*New Frontier 1970*

## HISTORY OF PRODUCTION

From 1901 to 1921, inclusive, 254,597 tons of ore were shipped from this property. From this ore 6,804 ounces of gold, 78,065 ounces of silver, and 5,132,118 pounds of copper were recovered.

## REFERENCES

Reports of Minister of Mines, British Columbia: 1894, p. 757; 1895, p. 702; 1897, p. 594; 1898, p. 1124; 1900, p. 878; 1901, p. 1064; 1902, p. 183; 1903, p. 173; 1904, p. 221; 1905, p. 178; 1906, p. 162; 1907, p. 112; 1911, p. 176; 1915, p. 199; 1916, pp. 253, 256; 1917, p. 211; 1918, p. 207; 1919, p. 164; 1920, p. 155; 1921, p. 180; 1967, p. 232.

Geology, Exploration and Mining, British Columbia Dept. of Mines: 1969, p. 306; 1970, p. 430.

Mineral Resources Branch; Corporation Files: "The British Columbia Copper Company, Limited"; "Cominco Ltd."

Keefer, F.; The Emma Mine; Transactions, The Canadian Institute of Mining and Metallurgy, Vol. 10, 1907, pp. 188-194.

Seraphim, R.H.; Geology and Copper Deposits of the Boundary District, British Columbia; The Canadian Institute of Mining and Metallurgy, Transactions, Vol. 59, October 1956, p. 394. (In Attwood Copper Mines Limited file).

## MAP REFERENCES

Map 6-1957, Kettle River, (Geol.), Sc. 1":4 miles.

Map 749 G, Aeromagnetic Survey adjacent to the Forty-Ninth Parallel, Sc. 1":4 miles.

\*Map 82 E/2, Greenwood, (Topo.), Sc. 1:50,000.

## REMARKS

NOV 1972  
FEB 1973