

NAME OF PROPERTY GALORE CREEK-SOUTH BUTTE ZONE

OBJECT LOCATED - mineralized zone.

UNCERTAINTY IN METRES 200. Lat. 57°06' Long. 131°27'30"

Mining Division Liard District Cassiar

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

Stikine Copper Limited.

DESCRIPTION OF DEPOSIT

The Galore Creek deposits occur in highly fractured zones within and adjacent to a complex syenite body that cuts Upper Triassic sedimentary and volcanic rocks. The syenite and the surrounding rocks are intensely altered. The original mafic constituents and feldspars are replaced by hydrothermal biotite, potash feldspar and epidote with minor gypsum and anhydrite, garnet, chlorite and carbonate.

According to Barr (1965), "The copper deposits at Galore Creek share many of the characteristic features common to both the porphyry copper type of mineralization and that of pyrometasomatic deposits. Features common to porphyry copper deposits include the disseminated character of much of the mineralization, and its relationship to hydrothermal biotite and potash feldspar alteration in shattered and brecciated areas. The prevailing linearity, in plan, of the deposits and their proximity to contacts of porphyritic masses with attendant skarn mineral assemblages are features indicative of a pyrometasomatic origin. The relationships of the deposits to intrusive contacts, and

see Card 2 ....

Associated minerals or products of value

HISTORY OF EXPLORATION AND DEVELOPMENT

The South Butte mineralized zone is located at elevations of 4,500 to 5,000 feet at the head of West Fork glacier, on the West Fork of Galore Creek, 2 miles south of the Central Zone. The zone is only partly accessible as it lies on the flanks and summit of a nunatak which rises precipitously for 1,300 feet from its base. For the history of the Galore Creek property see Ref. CU 1.

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HISTORY OF PRODUCTION

REFERENCES

Barr, D.A.; The Galore Creek Copper Deposits; The Canadian Mining and Metallurgical Bulletin, Vol. 59, No. 65, pp. 841-853, July 1966. +

Jeffery, W.G.; Geology of Upper Galore Creek; Report of Minister of Mines, British Columbia, 1965, pp. 19-29. ++

Souther, J.G.; Telegraph Creek Map-Area, British Columbia; Paper 71-44, p. 24, Geol. Surv. of Canada, 1972. +++

MAP REFERENCES

Map 11-1971, Telegraph Creek, (Geol.), Sc. 1:250,000 - accomp. Paper 71-44, Geol. Surv. of Canada.

#Geology of Upper Galore Creek, Sc. 1":4,000 ft., Fig. 2, Report of Minister of Mines, British Columbia, 1965.

\*Map 104 G/3, Sphaler Creek, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	4-76						

PRODUCT

COPPER

PROVINCE OR  
TERRITORY

British Columbia

N.T.S. AREA 104 G/3

- Card 2 -  
REF. CU 12

NAME OF PROPERTY

GALORE CREEK-SOUTH BUTTE ZONE

## DESCRIPTION OF DEPOSIT (continued)

zones of weakness indicate the importance of structural controls."

The South Butte zone lies on the flanks and summit of a nunatak which is composed of sheared metavolcanic rocks intruded by northerly-trending dykes of epidotized syenite porphyry. Later sericitized basalt dykes strike northwesterly across the area. Chalcopyrite and pyrite occur as irregular replacements and fracture fillings in skarn and, to a lesser extent, in northerly-trending shear zones.