

NAME OF PROPERTY **WILLOW**

OBJECT LOCATED - Location from Geology, Exploration, and Mining, 1973.

UNCERTAINTY IN METRES Lat. 56°33' Long. 126°36'

Mining Division **Omineca** District **Cassiar**

County Township or Parish

Lot Concession or Range

Sec Tp. R.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located between elevations of 3,500 and 6,700 feet on the north side of Willow Creek, 2.5 miles south of Sustut Peak.

Wesfrob Mines Limited held the Willow group during 1973 and carried out 3,100 feet of diamond drilling in 2 holes on Willow 3 and 4.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The geology is similar to that of the Sustut property, although the mineralized beds are different lithologically and at a lower horizon. At the Willow property the Takla augite porphyry breccias are overlain by a sequence of thinly bedded aphanitic basalt lavas, and in turn a thickness of a few hundred feet of fossiliferous shales, chert, and carbonate beds, and, uppermost, a thick volcanoclastic unit. The strata are offset locally by faults subparallel to a strong set of cross-joints striking 025 degrees and dipping 85 degrees southeast.

The mineralization is in the sedimentary band in a thin discontinuous tuffaceous argillite bed just below the base of the volcanoclastic unit. Both chalcopryrite and chalcocite have been identified forming discrete grains, often less than 1 millimetre in diameter disseminated in varying concentrations but constituting as much as 30 per cent by weight of some rock samples.

Associated minerals or products of value

120501

Mineral Development Sector, Department of Energy, Mines and Resources, Ottawa.

HISTORY OF PRODUCTION

REFERENCES

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1973, p. 432.

MAP REFERENCES

Geological Cross-Sections in the Sustut Area, Sc. 1":
1 1/4 miles, Fig. 34 - accomp. Geology, Exploration, and
Mining, 1973.

Geology of the Sustut Area, Sc. 1":1-2/3 miles, Fig. 33 -
accomp. Geology, Exploration, and Mining, 1974.

Map 962 A, McConnell Creek, (Geol.), Sc. 1":4 miles - accomp.
Memoir 251, Geol. Surv. of Canada, 1948.

Map 94 D, McConnell Creek, (Topo.), Sc.1:250,000.

REMARKS

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| Comp./Rev. By | DMacR | | | | | | |
| Date | 10-76 | | | | | | |