

**BIG LEDGE EXTENSION (ZINC)****SLOCAN MINING DIVISION  
BRITISH COLUMBIA**LOCATION

The BIG LEDGE EXTENSION property lies on the west shore of Upper Arrow Lake about 70 kilometers south of Revelstoke, access can be made by road.

GENERAL DESCRIPTION

The BIG LEDGE EXTENSION property consists of the southern and eastern extensions of Cominco's BIG LEDGE stratabound zinc deposit in the southern portion of the Thor-Odin gneiss dome. The property is being acquired by Esperanza under the provisions of an option agreement.

The property covers easterly-striking and southerly down-dip extensions of Cominco's 100 million ton deposit of 4 percent zinc, which contains a reported reserve of 10 million tons of 10 percent zinc.

Based on information available, Cominco appears to hold the best ground, but significant potential exists to the east of their holdings in near-surface deposits and to the south of their ground at depth. These areas are held by Esperanza. Here, as in Cominco's ground, it is probable that grades will be low but tonnage may be substantial.

The deposits are syngenetic bedded sulphide zones in a Shuswap age sedimentary sequence now altered to a mixture of schist, gneiss, quartzite, calc-silicate gneiss, marble and amphibolite.

Structurally the area has been folded into a series of east-west folds which appear to vary from moderately open to nearly isoclinal. One such tight fold appears to be involved in developing the large body of massive sulphide material exposed on Cominco's claims.

PREVIOUS WORK

Previous work by others indicates two separate areas of interest on the Esperanza ground. The eastern area extends from the Cominco ground some 4 kilometers to Upper Arrow Lake. Earlier work in this area has outlined a number of mineralized bands and showings which may represent as many as six mineralized stratigraphic horizons.

Most of these showings are too thin or of too low grade to constitute ore at the present time. However the area is large and has had only limited testing by drilling. In addition, high grade float has been reported in the area by Cominco. As yet the float source has not been located.

The other area of interest on the Esperanza ground lies to the south of the Cominco holdings and contains the southern extension of the stratigraphy which hosts their deposit. On the Cominco ground the folded mineralized horizon contains three large lenses up to 60 meters thick and extending at least 457 meters down dip to the south.

#### RECOMMENDATIONS

Although the sulphide horizons are very continuous and extensive, economic zones within them are irregularly located and are in part a function of folds and superimposed structures. Locating ore zones will require careful mapping and perhaps some diamond drilling solely for geological information.

An option payment of \$10,000 is due in 1980 and should be made by Esperanza.

Further geological mapping, sampling and drilling for geological information are warranted. The area of interest is extensive; the cost including 300 meters of BQ diamond drilling, would be about \$100,000. Consideration is being given to having this work performed by a participant under the provisions of an option agreement.

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