

NAME OF PROPERTY TOAD RIVER

OBJECT LOCATED - #2 - BCI Map.

UNCERTAINTY IN METRES 1,000. Lat. 58°32'30" Long. 125°43'20"

Mining Division Liard District

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR

DESCRIPTION OF DEPOSIT

Map 1343 A indicates the area is underlain by the Aida Formation of Helikian age, locally cut by gabbroic dykes.

In the vicinity of the mineralized showings the rocks consist of grey slate and silty argillite; these rocks strike north and dip 12 degrees west; axial plane cleavage strikes north 30 degrees west and dips 35 degrees southwestward. Numerous dark greenish-black diabase dykes a few tens to a few hundreds of feet wide are intruded parallel to the regional cleavage.

Copper mineralization is on both sides of a diabase dyke which is about 20 feet wide and is parallel to the cleavage. The mineralization lies in a shear which to the south is on the west side of the dyke, crosses it without perceptible offset of the dyke, and extends for several hundred feet on the east side of the dyke. The shear strikes about 10 degrees east of north and dips 70 degrees west.

Copper mineralization, consisting essentially of chalcopyrite and a little quartz, occurs in the shear across widths

p.t.o.

Associated minerals or products

HISTORY OF EXPLORATION AND DEVELOPMENT

This property is located at about the 4,200 foot elevation on the west side of the Toad River, some 29 miles south of Muncho Lake and 20 miles south of the Alaska Highway.

Reports brought back by Indian hunters of the occurrence of copper-bearing float on the west side of the Toad River led to the staking of the showings by Oscar MacDonald, of Mile 442 Alaska Highway, and Hans Kvikstad, of Fort St. John, in May 1956. Considerable trenching was done by the owners in 1957.

Fort Reliance Minerals Limited optioned the Toad Nos. 1-8 claims from Mr. Kvikstad in February 1958 and staked 19 claims adjoining. Three other claims, including the Beaver Lake Nos. 2 and 3, were optioned by the company in May 1958 from L.N. Johnson, of Anchorage, and O. MacDonald. The company carried out diamond drilling on two claims, the Toad No. 2 and Beaver Lake No. 2. Exploration work in 1958 included trenching along a strike length of 640 feet to the south of the shear-dyke intersection and 1,452 feet of diamond drilling in 10AX size holes. During 1959 a further 1,509 feet of diamond drilling was done in 5 holes using BXF bit to enable a high core recovery. This work indicated 100,000 tons averaging 4.5% copper over a strike length of 450 feet and to a depth of 200 feet (A.D. Wilmot - in TSE Prosp 28/09/71, Fort Reliance Minerals L).

Churchill Copper Corporation Ltd in about 1965 optioned a 55% working interest in 10 claims from Fort Reliance. In 1970 the property comprised the Toad 1-6, Toad River, IT and AT claims. Grid lines were cut and surveyed during the year preparatory to further exploration work.

DESCRIPTION OF DEPOSIT (continued)

ranging from 3 to 14 feet. In the outcrop and surface trenches the chalcopyrite is altered to malachite, and it is estimated that one-quarter to one-half the copper occurs as secondary malachite.

In 1958 nine trenches were put in on the shear along a length of 640 feet to the south of the shear-dyke intersection. The average copper content of the exposed mineralized shear is about 6 per cent across an average width of almost 8 feet.

Diamond drilling in 1958 disclosed that at a depth of about 100 feet mineralization in the shear consisted essentially of chalcopyrite and included little secondary malachite. For the most part the shear was found to extend to depth and to maintain its width, but the average content of the primary copper mineralization was considerably less than that obtained in surface sampling.

The shear was traced for a few hundred feet north of the shear-dyke intersection, but the widths were narrow and the grade low.

REFERENCES

Reports of Minister of Mines, British Columbia: 1958, p. 13; 1959, p. 19⁺.
 Mineral Policy Sector; Corporation Files: "Fort Reliance Minerals Limited"; "Consolidated Churchill Copper Corporation Ltd."
 Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 41.

MAP REFERENCES

- Map 1343 A, Tuchodi Lakes, (Geol.), Sc. 1:125,000 - accomp. Memoir 373, Geol. Surv. of Canada, 1973.
- #Map 94 K (MI), Mineral Inventory Map, B.C. Dept. of Mines.
- *Map 94 K/12 E, Upper Toad River, (Topo.), Sc. 1:50,000.

REMARKS

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