

NAME OF PROPERTY STOCK (COPPER QUEEN)

OBJECT LOCATED - shaft.

UNCERTAINTY IN METRES 400. Lat. 54°41'35" Long. 127°27'25"

Mining Division Omineca District Range, 5 Coast

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The area is underlain by red, purple, and grey tuffs and flows of the Hazelton Group. They are probably mainly dacites and andesites. In the vicinity of the old workings they strike north 25 degrees east and dip 25 degrees southeast.

On the Stock No. 1 claim at 5,250 feet elevation on a ridge overlooking the west branch of Winfield Creek, there is an old caved shaft with a caved adit and a large open cut about 200 feet below the shaft. At these localities chalcocite, bornite, digenite (?), and chalcopyrite occur along fractures and in calcite veinlets related to a fault zone that strikes approximately south 60 degrees east and dips about 75 degrees southwest. Chip samples of weathered outcrops taken in the vicinity of the old workings gave the following results:-

see Card 2 ....

Associated minerals or products of value - Silver, gold.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at the 5,200 foot elevation on the east side of the west fork of Winfield Creek, 13 miles southwest of Smithers.

The Copper Queen group of 3 claims was owned from prior to 1917 by Ben Peterson and Fred Griffin. A small amount of ore was shipped from small high-grade lenses during the period 1917-1919. The workings at that time included a shaft between 50 and 75 feet deep sunk on the fault zone, and an adit, collared about 95 feet below and 225 feet west of the shaft, driven nearly 100 feet.

The Stock group of 15 claims, covering the Copper Queen showings, were acquired by Carl Glover, of Smithers, in about 1960. In the fall of 1960 X-ray drilling in 3 holes was done on newly discovered showings of disseminated chalcocite southeast of the old workings.

Copper Queen Explorations Ltd. in September 1966 optioned the Stock 1-3 claims from Mr. Grover and staked 86 adjacent claims, including the Janet 1, Table 1-12, Lorne 1-10, and other groups. Work during 1967-1969 included geochemical and induced potential surveys, and bulldozer trenching. In 1970 about 2 acres was stripped on Table 3 and 4 claims, trenching was done on the Janet claim and on Table 3, 4, and 6 claims, and 962 feet of diamond drilling in 5 holes was done on the Janet and Table 3 and 4 claims.

Texas Gulf, Inc., held an option on the property in 1972 and carried out geological mapping and a geochemical survey.

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**HISTORY OF PRODUCTION**

During the period 1917-1919, 12 tons of ore were shipped from this property. From this ore 1 ounce of gold, 91 ounces of silver, and 6,465 pounds of copper were recovered. This production is listed as "Copper Queen, Hudson Bay Mountain".

**REFERENCES**

Reports of Minister of Mines, British Columbia: 1917, p. 119; 1919, p. 365; 1961, p. 18; 1967, p. 100.  
 Kirkham, R.V.; Stock, Lorne, etc.; Report of Minister of Mines, British Columbia, 1968, p. 128.  
 Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 160; 1972, p. 418.

**MAP REFERENCES**

#Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological compilation), Sc. 1":4 miles, British Columbia Dept. of Mines.  
 Preliminary Map 44-23, Smithers, (Geol.), Sc. 1":2 miles, Paper 44-23, Geol. Surv. of Canada.  
 Map 5310 G, Telkwa, (Aeromag.), Sc. 1":1 mile.  
 \*Map 93 L/11 W, Telkwa, (Topo.), Sc. 1:50,000.

**REMARKS**

Comp./Rev. By	DMacR						
Date	12-75						

## NAME OF PROPERTY

## STOCK (COPPER QUEEN)

## DESCRIPTION OF DEPOSIT (continued)

Location	Width Ft.	Gold Oz. per ton	Silver Oz. per ton	Copper Per Cent
1. Above the adit .....	8	Nil	Trace	0.33
2. 15 to 30 feet north of the adit .....	15	Nil	Trace	0.45
3. 30 to 45 feet north of the adit .....	15	Trace	Trace	0.31
4. Above the shaft .....	12	Trace	0.5	3.40

About three-quarters of a mile south of the old workings on Table No. 3 claim, bornite, chalcocite, and digenite (?) in veinlets and disseminated in amygdules have been exposed in trenches along a fault zone between light-grey, spherulitic, flow-layered felsite and purple amygdaloidal lava. The fault strikes south 50 degrees east and dips 75 degrees southwest. A chip sample taken across 5 feet of weathered material from the fault zone assayed: Gold, nil; silver, trace; copper, 0.33 per cent.

About one-quarter of a mile farther south on Table No. 5 claim, minor amounts of chalcocite (?) and malachite occur along fractures in bleached and altered, maroon, siliceous volcanic rocks. This fault or fracture zone also strikes about south 50 degrees east.

During the course of regional mapping in the area, the writer found a few specks of chalcopyrite and pyrite in a 2- to 4-foot cherty tuff horizon exposed near a small lake about one-half mile northeast of the old workings. Although the concentration of copper in this horizon must be extremely low, it is noteworthy that no fracture-controlled mineralization was observed. (Kirkham, 1968).