

NAME OF PROPERTY }	Big Copper
DISTRICT	Greenwood
EXAMINED BY	E.E. Campbell
DATE	June 13th. 1912.

802001

SYNOPSIS.

NAME:

Big Copper

LOCATION:

Copper Camp, B.C. Eight miles from Greenwood,
B.C. Greenwood Mining Division.

OWNERS:

J. Moran, Danville, and associates.

TITLE:

ACCESS:

Wagon road from Greenwood, B.C.

TOPOGRAPHY:

Broad valleys and low-rolling hills. Timber
on adjoining claims.

GEOLOGY:

Limestone cut by numerous igneous dykes.

ORE:

Replacement in limestone.

DEVELOPMENT:

Open cuts.

CONCLUSION:

Worthy of development.

(COPY)

The Granby Consolidated Mining
Smelting & Power Company, Limited,
Grand Forks, B.C.

Dear Sirs,

The following is a brief report on the copper mine mineral claim, commonly known as the Big Copper, situated in Copper Camp, B.C.

The claim is located near the head of Copper Creek, about eight miles from Greenwood, to which it is connected by a good wagon road following up the valley of Copper Creek.

A railroad spur, five miles long, would connect the claims with the railroad from Greenwood to the Motherlode Mine following the grade of the creek.

TOPOGRAPHY:

The country here, on the whole, is mountainous, but there are several broad valleys and some low rolling hills which make this camp easy of access by either wagon road or railroad.

TIMBER AND WATER:

There is an abundance of good timber on the claims surrounding the Copper Mine, but on the claim in question timber is scarce.

Water in moderate quantities may be obtained from numerous springs on the property.

GEOLOGY:

The geological prevailing on this group are very simple, the rocks consisting of limestone, which has been cut by a number of igneous dykes. It is very probable that the above dykes have a genetic relation to the ore bodies, as all the ore found is either directly against the dyke or near to it. It is also noticeable that the limestones in the vicinity of the dykes, more especially where mineralization has taken place, has been silicified, that is, the lime has been

replaced by silica, probably during the period of ore deposition.

ORE BODY:

The ore body on the Copper Mine Claim has not been proved to any great depth, the extent of the work being some stripping and shallow open cuts. The ore in these cuts is very highly oxidized, showing in several places native copper, while the iron present in the ore has oxidized to a deep reddish ochre. No sulphide ores are present in the zone where the work is done, but these will probably come in with depth. At the place where the most work was done, the ore body has been stripped and open cut for a width of fifty feet. A sample taken across this gave: Copper 1.8%, Silver 0.4, Gold Trace.

About a hundred feet farther up the hill a small shaft was sunk and a trench made for fifteen feet from this shaft across the ore body. A sample from this work gives:- Copper 2.2%, Silver 0.6 Gold trace.

The owner has been mining some ore and sorting it ready for shipment, and a sample from the ore pile gave:- Copper 9.0%, Silver 1.9, Gold trace, while an average analysis of the three samples gives:- Silica 62.4, Iron 12.1, Lime 7.6. Sulphur trace.

There are several other open cuts still farther up the hill showing the same bright red iron capping.

This ore body seems to lie against a dyke which cuts the lime, but sufficient work has not been done to establish many facts concerning the amount of ore present, the continuity of the ore body in dip or strike, or the grade of the ore when the oxidized zone has been penetrated.

This ore body comes under the type known as replacement deposit in limestone, and as such, is subject to all the characteristics of its type, the chief of which is great variation in the size and form of the ore body.

This property is owned by J. Moran, Danville, Wash., Solon McMichael, Toronto, Ont., and Mrs. McAuley, Los Angeles, Cal.

The King Solomon Mine owned by D.C. Corbin of Spokane, adjoins the Copper Mine to the East, and here the same conditions hold as at the Copper Mine with respect to the geology and type of ore body except that the surface showing is much smaller.

Here was found a high grade outcrop which was worked out for about twenty feet deep for fifty feet along the strike and about twenty feet wide. The ore was sent to the Grand Forks Smelter and averaged 12% to 15% Copper by the carload.

Apparently there was no prospecting done for further ore bodies, but there is some ore in sight at both ends of this open cut and ore at the bottom of the cut, so the chance of developing a limited tonnage is favourable.

If a lease could be obtained, on a small Royalty, or a bond with a small purchase price, this property might be made to yield a good profit with small expenditure, but the possibilities of finding a large ore body are too small to work on a bond with a large purchase price.

CONCLUSIONS:

The Copper Mine is favourably situated for prospect work and if the ore body proves sufficiently large a spur could be built to the property at small cost per mile on account of the easy grade of the valley extending from the present railroad.

The surface showing, consisting of an iron capping, is large. The grade of the ore exposed is good, but the silica content is high. This silica will probably diminish with depth, as a leached zone is always high in silica, due to the quartz being more resistant to weathering than the other minerals.

The showing on the King Solomon, as stated before, is small, but on reasonable terms, it will be worth working on, and worked in conjunction with the Copper Mine, the prospects for developing considerable tonnage of valuable ore are favourable.

Respectfully submitted,

(Signed) E.E. Campbell.

Phoenix, B.C.
June 13th. 1912.

Canada Life Building,
46 King Street West,
Toronto, Canada.
Sept. 21, 1912.

Granby Cons. M. S. & P. Co.,
Phoenix, B.C.

Dear Sirs:-

Mr. S.W. McMichael of this City has asked us to reply to your recent letter regarding the Copper Mine Claim in Copper Camp. Mr. McMichael is prepared to accept an offer of \$10,000. for his share and Mrs. McAuley is prepared to sell her share for the same amount. If an option on the property were given, however, Mr. McMichael's price would be \$15,000. and Mrs. McAuley's the same. The option could run for a period of six months.

In your letter you say nothing as to the amount you would be willing to expend for development work before making a payment. Will you kindly write us stating what development work you would be prepared to undertake to do if the option were given.

Yours very truly,

(Signed) W.D. Gregory.

Phoenix, B.C.
October 16th. 1912.

Mr. W.D. Gregory,
The Canada Life Building,
46 King Street West,
Toronto, Ont.

Dear Sir:-

Referring to your letter of September 21st
regarding the Copper Mine Claim in Copper Camp.

I am obliged to state that we were not successful in making satisfactory arrangements for Mr. Moran's interest, and so, for the present at least, any further plans for obtaining Mrs. McAulay's and Mr. McMichael's interests must necessarily be dropped.

Thanking you for the trouble you have taken in this matter and hoping that we may be able to take up this matter at a later date.

I am,

Yours very truly,

(Signed) E.E. Campbell.