

006003

ASSAY CERTIFICATE

... FROM ...

The Tye Copper Company, Limited

SMELTING WORKS

Brewer's Samples

Waterhouse's S. det. from Alberni.

LADYSMITH, B. C.

Dec. 6 190*6*

DATE	No.	DESCRIPTION OF SAMPLE	COPPER PER CENT. WET	Ozs. PER 2,000 Lbs.					
				SILVER	GOLD				
<i>Nov 30.</i>	<i>6793</i>	<i>Open cut # 2.</i>	<i>1.89</i>	<i>.80</i>	<i>Trace</i>				
<i>..</i>	<i>6794</i>	<i>Open cut from which tunnel is being driven</i>	<i>.20</i>	<i>.18</i>	<i>Trace</i>				
<i>..</i>	<i>6795</i>	<i>North of Tunnel in contact</i>	<i>2.75</i>	<i>.94</i>	<i>Trace</i>				

CH. \$

Henry C. Allen

PROVINCIAL ASSAYER.

Alberni Canal

ASSAY CERTIFICATE

... FROM ...

The Tye Copper Company, Limited

SMELTING WORKS

Brewer's Samples

LADYSMITH, B. C.

See

DATE	No.	DESCRIPTION OF SAMPLE	COPPER PER CENT. WET	Ozs. PER 2,000 Lbs.				
				SILVER	GOLD			
<i>Dec 1.</i>	<i>6792</i>	<i>Steele's Tunnel Alberni Canal</i>	<i>5.45</i>	<i>.20</i>	<i>Trace</i>			

CHA- - \$

Jenny Blum PROVINCIAL

F. Bern Canal

REPORT ON THE "EDITH" GROUP OF MINERAL CLAIMS SITUATED AT HELLGATE, ALBERNI CANAL, VANCOUVER ISLAND.

This group of mineral claims consists of three locations, each having an area of about 50 acres. The group is situated on the easterly side of the Alberni Canal about 14 miles southerly from the wharf at New Alberni.

One claim in the group extends to the waterfront and includes within its boundaries a small bay where wharf and bunkers for shipping ore can be constructed at a reasonable cost and guarantee the loading of deep draught ocean-going vessels.

The distance from the wharf site to the location of the present mine workings is in a direct line about 2000 feet; the altitude of the adit level is about 400 feet above sea level. Consequently this proposition is admirably located so far as regards shipping facilities.

The Edith group of claims is the property of A.E. Waterhouse of New Alberni. They are held under the provisions of the British Columbia Mineral Act but have not yet been Crown Granted. They are not located within the boundaries of the railroad belt.

GEOLOGY.

The geological conditions surrounding this property indicate a fairly well defined contact between limestone and an igneous rock, probably diorite.

The ore bodies which have so far been discovered apparently belong to two distinct types, to wit:- one a contact deposit between limestone and the igneous rock, the other a vein filling a fissure in the igneous rock.

CHARACTERISTICS OF ORE BODIES.

The ore body mentioned as a contact deposit has not yet been sufficiently developed to enable one to designate exactly the line of strike or dip, but apparently the former is north easterly and south westerly and the latter almost vertical with the limestone on the foot wall side, and the igneous rock on the hanging wall side.

The ore body which may be described as filling a fissure in the igneous rock has up to the present time received the most attention so far as development is concerned, having been opened in several places by open cuts for a distance along the line of strike of about 200 feet. The line of strike of this ore body is ^{also} apparently nearly ^{north} east and ^{south} west, the dip being almost vertical.

The only exposure on the contact deposit is at the mouth of an adit which was started with the intention of cross cutting the other ore body.

The open out work immediately at the portal of the adit cross cuts the contact ore deposits where the ore is exposed for about two and a half feet in width. The character of this ore is chalcopyrite with which is associated considerable iron pyrite together with some magnetite. Beyond this exposure no development has been attempted on this ore body.

The character of the ore filling the vein is chiefly pyrrhotite with some iron pyrite and has the appearance of being quite low grade so far as copper values are concerned, but the enclosed assay certificate shows the results of assays made from typical samples taken by myself from two open cuts in which ore bodies have been exposed.

In my opinion if a mine of value is developed on this property it will be on the contact deposit rather than on the other ore body.

DEVELOPMENT WORK.

The development work on this property consists of surface stripping along the outcropping of the vein like ore body, together with open out work at places along the line of strike where the indications pointed to a strong and well defined body, and an adit about 37 feet in length which was evidently started to cross out the ore body under the outcroppings that have been stripped. This adit though should never have been driven for the reason that even should the ore body prove strong and well defined where cross out the ~~adit~~ adit level is only about 60 feet below the outcrop and the portal of the adit is nearly 200 feet distant from the point where intersection of the body should be made.

CONCLUSIONS.

In my opinion the bulk of development work on this property should have been done on the contact deposit where it is apparently possible to open up an ore body of commercial value. It is impossible of course to form a reliable estimate of the results of such work but with all the conditions surrounding the property taken into consideration I consider this group of claims well worthy of further exploitation.

So far as concerns the ore body which I have referred to as filling a fissure I do not consider that the occurrence of this enhances the value of the property to any considerable extent, because so far as my experience goes these fissures in the diorite or other igneous rock of the West Coast of Vancouver Island do not maintain continuity to any considerable depth. In fact these fissures are so far as my observation has gone very erratic and usually disappointing.

Wm. M. Brewster

MEMO REPORT ON THE STEEVER PROSPECT, ALBERNI CANAL.

This property is situated inside of the Railroad belt on Alberni Canal about three miles distant down the Canal from New Alberni.

It has been opened up by a short tunnel about 200 feet above sea level and about six hundred feet from deep water. In this tunnel has been exposed a ledge of quartz about 14 feet wide, much of which is impregnated with copper ore, and one portion of the ledge the copper ore (chalco-pyrite) is solid for about two feet in thickness.

The foot wall of this ledge material is a greenstone, the hanging wall black slate.

Mixed in with the quartz is quite a little garnette.

This ledge matter can be traced in a south easterly direction for a distance about 1000 feet and in tracing this matter I found that the outcroppings in several places contained a good deal of copper ore, much of which on the surface was carbonate.

The prospect as it stands today is well worth a more thorough exploitation but Mr Steever the owner declines at the present time to discuss any terms for a transfer of the property. He has however promised me that should he change his mind on this subject he will advise me of the fact before any ^{one} else.

J. W. Steever