

NAME *05. Prospectus, Company*
MINISTRY OF ENERGY, MINES AND *Reports*
PETROLEUM RESOURCES
VICTORIA, BRITISH COLUMBIA

SUBJECT *82ESE147 Sapho, Cabin* ^{SUB} FILE No. *05*

001313

PROPERTY FILE

George O.M. Stewart
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Vancouver, B.C.
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July 6, 1976.

Canadian Superior Explorations
Smithers, B.C.

Attn: Mr. John Baker

Dear John,

I have two mineral properties which may be of interest to your company. These properties are located near the town of Greenwood in Southern British Columbia. They are both copper properties and can easily be examined during the summer and fall. A brief resume on each is listed below:-

Cabin Group (Sapho in old 1912 Report) 82ESE147

Location : Two claims located at the headwaters of Norwegian Creek several hundred yards from the American-Canadian border.

Economic Minerals : Cu, Au, Pt.

Geology : A diorite intrusive has been intruded by a pyroxenite plug, which in turn has been intruded by a syenitic feldspar porphyry dyke. The entire assemblage has been sheared and faulted.

Alteration : The diorite pyroxenite contact is altered to a dark hornfels composed of varying amounts of quartz, pyrite, magnetite, hematite, epidote, chlorite, and possibly secondary biotite.

Mineralization : Locally chalcopyrite mineralization grades up to 2.9% Cu in these areas and assays of .02% Pt have been reported.

Free gold has been noted in massive pyrite sections but no assays have been run for gold.

History : The property has been prospected by pit, shallow shaft and tunnel in the early days for copper and gold, but the early records are not available. During 1964 Silver Standard trenched

and drilled several percussion holes. The property does not fit the usual porphyry copper pattern nor does it fit the Phoenix skarn model, so further work was suspended.

Potential : A large portion of the pyroxenite, diorite contact is covered by overburden and this has never been tested (an area 1,000' x 300'). The three dimensional or depth potential of the area has never been tested.

I feel that a small (less than 10 million tons) tonnage of greater than 1% copper with gold and platinum credits could be developed by a sectional diamond drilling.

Deal : \$3,000.00 down with a 60/40 deal until a production decision is reached and then the owner must participate to his 40% by advancing 30% of the cash, if unable to do so a 10% carried interest is all that remains to the owner.

Gotcha Group (Tam Oshanter & Buckhorn in old Reports) 82ESE130

Location : Claims located in the Deadwood Copper Camp to the West of Motherlode Creek, three miles by road from the Town of Greenwood.

Economic Minerals : Copper, Molybdenum.

Geology : A large granodiorite intrusion has intruded a series of quartzites, arkoses, sand stones, and andesites. These rocks are overlain unconformably by post mineral tertiary river sediments.

It appears that the diorite contact with the intruded quartzites was roughly parallel to the present slope and that the diorite has been recently unroofed.

Several significant faults cross the property and the Buckhorn fault appears to have down dropped its northern section, leading to the preservation of a wedge sectioned area of post mineral river sediments. This wedge appears to have its thinnest end to the west or at the crest of the ridge.

Alteration : The main body of diorite is composed of weak propylitic alteration and contains local shear controlled alteration of higher grade. The copper content of this type of alteration would be about .05% Cu. Some "scabs" or roof pendants of contact material are exposed in this zone and confuse alteration mapping but the volume of these is not significant.

Near the contact with the post mineral rocks the alteration increases to a strong propylitic alteration. In this phase the granitic texture is gone, mafics are altered to chlorite, hematite and magnetite are common, fracturing increases and montmorillonite is noted. The copper content of this zone is greater than .1% copper and occasional MoS_2 is noted.

The contact area is noted by locally abundant malachite and native copper which decreases with depth suggesting a source beneath the post mineral cover.

The quartzite has locally been altered to hydrothermal quartz with sericite and pyrite. Several areas are essentially a quartz stockwork with all primary minerals leached away, leaving a leached capping.

A traverse around the post mineral capping shows alteration (Py, silica, sericite) of the intruded sediments over a very large area.

History : This intrusive has intrigued exploration people since the late 1890's. The roof pendants, shear zones, veins and transported copper mineralization have been trenched, pitted, diamond and percussion drilled almost every season since the early days to the present day, but no work has ever been done beneath the post mineral cover.

Potential : A study of the alteration indicates that a porphyry copper ore body of substantial size could lie 1,000 to 2,000' away from the contact beneath post mineral cover.

It is well documented in B.C. that the early tertiary cover was deposited on a well developed topography and the nature of the pre-tertiary topography beneath the post mineral sediments is a matter of conjecture.

A 400' hole was drilled in the lower part of the wedge of tertiary sediments and it did not pierce the sediments. It should be noted that at Afton a 2,000' hole was drilled in tertiary lavas several hundred feet from the Afton ore body.

In a situation such as this where tertiary cover has preserved any secondary enrichment of the indicated mineralized zone, a grade substantially greater than that normally found in B.C. can be expected.

It appears that a detailed alteration and geological study followed by a section line of deep diamond drill holes (rotary through the tertiary) would be a good exploration gamble.

Deal : \$3,300 down, \$7,700 upon commencement of drilling, remainder similar to Cabin proposal.

It is proposed to deal the property to a junior mining company trading on the Exchange if a deal is made. This would be between the property owner and the speculating company.

If you wish to examine the properties, phone 684-5126 for Mr. Adolf Petancic and arrangements can be made.

Yours truly,

A handwritten signature in cursive script, appearing to read "George O.M. Stewart". The signature is written in dark ink and is positioned above the typed name.

George O.M. Stewart