

# CORPORATION FALCONBRIDGE COPPER

FILE  
MEMORANDUM

DATE: June 26th, 1983  
A. J. Davidson, D. H. Watkins  
TO:  
COPIES TO: I. D. Pirie  
DE FROM:  
FROM:  
SUJET SUBJECT: CHILLIWACK-HOPE RECONNAISSANCE - PROGRESS REPORT

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During the period May 25th to June 25th the following areas were investigated at a reconnaissance scale:

- 1) Tamih Creek area - Chilliwack Group Volcanics
- 2) Seneca Area and southern parts of the Harrison Lake Formation
- 3) Mount Woodside area - Harrison Lake Formation

In addition a brief visit was made to the Abo Oil gold property on Harrison Lake and 21 more units were staked for protection at the North Forks property (McCallum Option).

## Tamih Creek Area

Numerous old and active logging roads provide excellent access to the bulk of this area in which is located the Tan claim group. Data for the Mount McGuire side of the valley was obtained utilizing helicopter access.

The volcanic rocks of the area are mainly andesitic and fragmental in nature with debris flows, agglomerates and lapilli tuffs predominating. The sequence appears bounded at the base by a thrust fault separating the volcanics from argillitic rocks. In the upper parts of the sequence volcanic arenites become quite common, though again thrusting may be involved. All features point to a relatively shallow massive, active, shelf-type environment. However, local chert filled basins are found.

A mineralizing process involving silicification of all rock types accompanied by pyrite and, locally, sphalerite with minor chalcopyrite, has occurred. Andesites appear dacitic or even more felsic, cherts

have been hydrobrecciated and re-healed and primary textures have generally been lost. This event has been widespread in the area with sulphides at several different horizons, however no alteration pipe per se could be recognized.

Southern Harrison Lake Formation (incl. Seneca)

This area contains numerous roads and has overall excellent access. Coverage has so far been on fairly widespread lines but it is hoped to run fill in traverses later this summer.

Lithologically the area consists largely of basalt to dacite fragmentals, flows and related intrusives, many of them strongly feldspar porphyritic. Distinctly subaerial or shallow water flows characterized by less than 10% of massive lava and greater than 90% rubbly breccias, are present. These can be traced into distinctly massive pillow breccias and debris flows. Towards Harrison Lake interbedded, often limey, sediments are quite common.

Mineral occurrences are numerous. They invariably consist of pyrite, sphalerite and chalcopyrite in sericitic stockworks or stringers cutting previously silicified volcanics and intrusives. A definite correspondence with the occurrence of shallow intrusions (feldspar + quartz porphyritic) has been noted.

From the work done to date it is apparent that the property held by Chevron Standard is indeed covering the best ground. It should definitely be pursued when available.

Although geological activity is apparent throughout the area the only major project noted is on the claims of Aaron Mining, adjacent to the Morris Valley road just north of the Weaver Lake road turnoff. An adit has been driven under the highway and a drill is currently active close to this location. Wallrocks are dacitic pyroclastics and argillites, locally tectonically brecciated. Pyrite, often associated with Fe carbonate, quartz and calcite veins has been noted. A local prospector has reported finding dump material containing finely disseminated sphalerite and assaying 0.07 oz/t Au. No contact has yet been possible with the company.

Mount Woodside

Also part of the Harrison Lake formation, this area has several mineral occurrences and is made very attractive by it's location, adjacent to the Loughheed Highway just east of Harrison Mills, and by it's abundant outcrop.

Rocks present include abundant andesite-dacite talus breccias and debris flows, chert breccias, andesite flows and various intrusions of diabase and feldspar porphyry. Fe carbonate alteration is prevalent. Sulphide occurrences are mainly pyritic with minor chalcopyrite and sphalerite, and are once again accompanied by silicification and sericitization.

Abo Oil

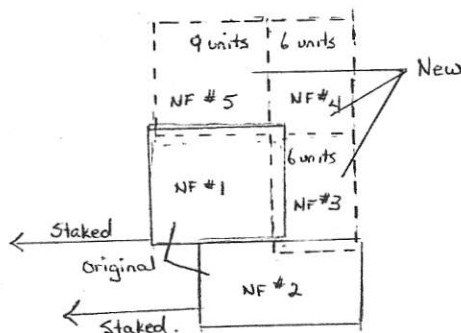
A brief visit was made to this property but no geologist could be found at that time.

Presumed ore, apparently hand cobbled, was found adjacent to an old pit and adit. It consisted of massive pyrrhotite and pyrite in quartz-carbonate veins in diorite. The veins are generally less than 20 cm across and may have minor alteration around them (bleaching). However, they appear very "tight" with the diorite being generally very massive and not fractured or brecciated. A more thorough examination is given low priority.

North Forks Staking

Twenty one additional units have been staked. They are in 3 claims of 9, 6 and 6 units respectively. These will be recorded next week.

It should be noted that the area west and adjacent to the original claims has recently been staked.



General

The base for the crew has now been moved to Hope for study of the Hozameen volcanics. Work is underway in the Sumallo Creek - Silvertip Mountain area south of Tashme, where sphalerite-chalcopyrite-pyrrhotite-pyrite bearing float was located during crew orientation.

It has recently been discovered that, although not officially withdrawn from staking, no new claims have been accepted and recorded in the Skagit Valley Recreation Area for at least 5 years. Since this covers a large part of the Hozameen volcanics north of Ross Lake this has had some effect on our planned reconnaissance. No concerted effort will be made in that area until the situation has been clarified.

Crew break will commence July 16th for 1 week. Upon restart it is planned to work from a trailer located at Bear Creek logging camp on Harrison Lake. Work will include reccy of the N. Fork claims prior to linecutting and a look at the volcanics of the so-called Chilliwack Group east of Harrison Lake.

I. D. Pirie

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