

## SUMMARY REPORT

SOUP CLAIMS  
JOHANSON LAKE AREA  
OMINECA MINING DIVISION, B.C.INTRODUCTION

At the request of Dr. T. Rodgers, a two-day field examination of the Soup claims was undertaken in company with Noranda Exploration Company Limited in late September, 1982.

Noranda personnel were returning to the property to further investigate anomalous gold-copper values obtained from a soil sampling program conducted earlier in the field season.

PRELIMINARY RESULTS - NORANDA PROGRAM

Several northerly trending areas with anomalous gold and copper values in soils were defined during 1982. Three of these occur north of the rock glacier central to the Soup claims and one is situated on the southerly claims.

While soils yielded locally very high values (up to 8000 ppb Au), rock samples collected during the initial phase by Noranda returned generally low (0.003 ounces per ton gold) values.

ANOMALOUS AREAS

- (i) Southern Zone - a 200 metre square area on the Soup 8 claim has values in soils exceeding 500 ppb gold including several spot highs up to 8000 ppb.

North of, and on strike with this zone, are brecciated augite porphyries with shear zones containing rusty quartz and carbonate.

Malachite staining is widespread. The higher values in soils appear to be adjacent to and below the southernmost magnetite lode.

A number of rock chip samples in the area of this anomaly were collected by Noranda.

(ii) Northern Zones - three northwesterly trending zones with anomalous gold values in soils (+500 ppb) were defined on the Soup 2, 3 and 4 claims. The most extensive of these, at an elevation of 6650 feet, has an apparent length of 300 metres and a width of 50 to 100 metres and includes gold values in excess of 1000 ppb. This zone was found to be above the two parallel magnetite lodes and below quartz veins containing chalcopyrite found earlier by Noranda.

The strongly anomalous zone to the southwest is coincident with the magnetite lode. A 2 metre wide trench put in by Noranda had samples assaying 0.035 ounces gold per ton and 0.5% copper.

#### DISCUSSION

Many of the cross lines with anomalously high gold values follow the numerous dry drainages suggesting that mechanical concentration in poorly developed soils (talus fines) has taken place.

The source of most anomalous values is the magnetite lodes on which more work is warranted. The extensive anomalous area on the Soup 2 and 4 claims requires further investigation.

Additional rock sampling, carried out recently by Noranda, should assist in planning further work.

GENERAL COMMENTS

Barren siliceous pyrite rock appears to be a rhyolite with abundant pyrite. Augite porphyries are of several varieties including coarse flow breccias and obvious intrusive phases. Diorite is obviously comagmatic with the volcanic rocks while the quartz monzonite is later.

Magnetite bodies are possibly products of magmatic injection rather than of skarn origin. The coincidence of microdiorite sills with the magnetite perhaps corroborates this. Base and precious metal mineralization may be later, perhaps related to the quartz monzonite.

Drilling would be difficult due to lack of water (except Kliyul Creek) and the necessity of having to blast sites in extensive talus.

N. C. Carter, Ph.D., P.Eng.

October 7, 1982