Work was done on the claims between August 10, 1966 and September 15, 1966.

Report by: T.W. MURARD, P. ENG.

Supervised by: T.W. MURARD, P. ENG.
Geochemical report on the Claxx 1 to 16 mineral claims in the Whitehorse Mining Division [WIS 105-X-1]

Lat. W 62° 05', Long. W 132° 51'

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(1) Plate 1 - Plan of Geochemical Survey, Claxx Group, 1" = 50'.

(2) Statement of Expenditures.

(3) Statutory Declaration relating to Expenditures.
INTRODUCTION

The Olgie 1 to 16 mineral claims are in one group south of the east end of Olgie Lake, eight miles north-northwest of Ross River Post, Yukon Territory.

The Olgie claims 1 to 5 were staked on July 22, 1966 by Laurence Macy of Cominco Ltd. and Olgie claims 9 to 16 were staked on July 24, 1966 by Theodore Muraro of Cominco Ltd. The 16 claims were recorded on August 2, 1966.

GEOLOGY

To date no bedrock exposures have been located on the Olgie Group. A projection of geological information from adjacent claims to the west (Snowcap and South Groups) suggests that the group is traversed by an easterly trending contact between sediments and volcanics on the south and a granodiorite mass on the north. The sediments represent a part of the group of rocks which contain the known sulfide deposits in the Six Lakes-Yangora area.

An airborne geophysical survey on the Snowcap Group to the west indicated a moderate E.N.W. anomaly extending onto the present Olgie Group. The soil sampling program was designed to test the possibility of a sulfide conductor on the Olgie ground.

LINE CUTTING

During August 1966 the firm of White, Hosford and Impy Ltd. of Whitehorse, Y.T. cut lines on the Olgie Group which included 2.7 miles of transit-controlled baseline with right-angle turnoffs at 100-foot intervals and 17 miles of pro-alines chained and picketed at 100-foot intervals.

With the baseline work rated at $250 per line mile and the crosslines at $100 per line mile, the total expenditure including transportation charged to this work is $2,605 broken down as follows:

Baseline 2.7 miles at $250/line mile = $675
Crosslines 17 at $100/line mile = $1,700
Transportation - line cutting crew from Whitehorse = $230
Total: $2,605

SOIL SAMPLING

Between August 10 and September 15 of 1966 Robert Chouinard of Teslin, Y.T. and Terry Hansen of Vancouver, B.C. collected 328 soil samples on the Olgie claims. Samples were collected at 100-foot intervals on the baselines and 400-foot intervals on the crosslines (see attached plan).

The samples were collected from a brown colored zone in the soil profile which is located immediately below the white to grey Yukon Ash layer which is present in this part of the Yukon. The samples
were prepared and analyzed by Atlas Exploration in their lab at Ross River. Atlas Exploration use a Perkin-Elmer Atomic Absorption unit for geochemical analyses of soil and silt. The charge to Cominco for the analyses was as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Charge</th>
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<tr>
<td>328 samples analyzed for Zn</td>
<td>$102.00</td>
</tr>
<tr>
<td>328 analyses prepared for analysis</td>
<td>$50.20</td>
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Expenditures incurred in the collection of samples are as follows:

<table>
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<tr>
<td>Labour - 6 man-days</td>
<td>$120.00</td>
</tr>
<tr>
<td>Supplies - camp and equipment</td>
<td>20.00</td>
</tr>
<tr>
<td>Transportation from Ross River</td>
<td>30.00</td>
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</table>

**RESULTS**

The significant threshold value for Zn in soils in this area is taken as 200 parts per million. The plotted results exhibit two areas in which Zn in the soil exceeds 200 ppm by a maximum factor of about 3. These are not regarded as particularly interesting anomalous values.

The northernmost area outlined by the closed 200 ppm contour is coincident with a low-lying seepage course with a relatively high proportion of organic material in the soil. The general tendency for metal ions to absorb more readily on organic material may constitute the full explanation of this weak anomaly.

The second area within the 200 ppm contour is topographically higher ground and from information to the west is most likely underlain by volcanics. The anomalous values here are slightly lower than the first area described.

It is concluded that the geochemical survey has not provided results which would justify proceeding with direct exploration techniques such as trenching or drilling.

Expenditures covering supervision, compilation of results and preparation of reports are as follows:

<table>
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<th>Description</th>
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<td>8 staff man-days</td>
<td>$160</td>
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**ATTACHMENTS:**

1) Plate 1 - Plan of Geochemical Survey, 1" = 500', on Oligie Group.
2) Statement of Expenditures
3) Statutory Declaration relating to Expenditures.

**Report by:**

T.W. McFarlane
Professional Engineer

TwInGeos
Trail Expl's Office, Western District
July 11, 1967
Distribution: Mining Recorder (Whitehorse) (2)
Western Exploration (2)
C. HINCO LTD.
TRAIL, B.C.

1966 EXPENDITURES ON GEOCHEMICAL SURVEY OF THE CLAIM
GROUP - WHITEHORSE, Y.T.

Line cutting contracted to White, Hosford & Imy Ltd., Whitehorse, Y.T. $ 2,605.00
Geochemical analyses 501.20
Collection of soil samples 170.00
Supervision staff time field and office 160.00
Total: $ 3,417.20

Work was done on the claims between

Endorsed by:

[Signature]

U. Hansen
Accountant, Tadamac Operations

This is Exhibit "A" to the Statutory
Declaration of Theodore William Hansen,
declared before me on the ___ day of

[Signature]

A Commissioner for Taking Affidavits
for the Province of British Columbia
CANADA
PROVINCE OF BRITISH COLUMBIA
STATUTORY DECLARATION RELATING TO
EXPENDITURES ON A GEOCHEMICAL
SURVEY OF CERTAIN MINERAL CLAIMS
LOCATED IN THE WHITEHORSE MINING
DIVISION.

I, THEODORE WILLIAM MURARO, Professional Engineer
of the City of Trail, in the Province of British Columbia, DO
SOLEMNLY DECLARE:

1. That I am the person who prepared the accompanying
geochemical report as a result of a survey carried out under my
supervision on certain mineral claims owned by Cominco Ltd.

2. That copies of the said report are being filed with
the Mining Recorder in Whitehorse.

3. That attached hereto and marked with the letter
"A" upon which I have signed my name at the time of declaring hereof,
is a statement of expenditures incurred in connection with the geo-
chemical survey of the said claims showing in addition the dates
during which those making the said survey performed their work.

AND I MAKE this solemn declaration conscientiously
believing it to be true and knowing that it is of the same force
and effect as if made under oath and by virtue of the Canada
Evidence Act.

DECLARED before me at the
Municipality of Tadanac, in the
Province of British Columbia
this 31st day of

[Signature]
A Commissioner for taking Affida-
vits for British Columbia.