COMINCO LTD.

EXPLORATION
NTS: 115/0/14

GEOCHEMICAL REPORT ON THE
BRONSON CLAIMS 1-10 SITUATED AT
139°29'W LONGITUDE; 63°58' N. LATITUDE

DAWSON M.D., YUKON TERRITORY

WORK PERIOD: June 9 - July 2, 1980

JANUARY 19, 1981

ERNEST G. OLFERT
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $2,500.00.

[Signature]

Section Geologist or
Resident Mining Engineer

Considered as representation work under Section 55 of Yukon Quartz Mining Act.

[Signature]

B.R. Baxter
Supervising Mining Recorder

Commissioner of Yukon Territory
FROM: Mining Recorder at .......... Dawson

TO: Supervising Mining Recorder at Whitehorse, Y.T.

FOR ACTION ARE:

☐ NEW APPL'N for PLACER LEASE to PROSPECT: Name:

☐ RENEWAL APPL'N PLACER LEASE to PROSPECT: Name:

☐ AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name.

☐ ASSIGNMENT of PLACER LEASE No. .......... From: To:

☐ GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT. 
Owner:

☐ DIAMOND DRILL LOGS:
Claims:

☐ QUARTZ ASSESSMENT REPORT:
Claims: 
Bronson 1-10 2300
Baldy 1-22 2300
Type of report: Geochemical

Clarity work performed on:

☐ $ Req. for ren. application 5,000.00

Signature

Date Req.
Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK
(This form required in duplicate with sketch showing location of work.)

<table>
<thead>
<tr>
<th>I (Name)</th>
<th>Ernest Olfert</th>
<th>Occupation</th>
<th>Geologist</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Postal Address)</td>
<td>7th Floor - 409 Granville Street Vancouver, B.C.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MAKE OATH AND SAY, THAT:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
   (Here list claims on which work was actually done by number and name)
   Bronson #1-10
   YA49997 - YA 50006

situated at Mt. Bronson
in the Dawson Mining District, to the value of at least $2,658.70

dollars, since the 9th day of June 1980

to represent the following mineral claims under the authority of Grouping Certificate No. Bronson 80-1
(Here list claims to be renewed by number and name in numerical order)

<table>
<thead>
<tr>
<th>BRONSON #1 YA49997</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 &quot; 98</td>
</tr>
<tr>
<td>3 &quot; 99</td>
</tr>
<tr>
<td>4 YA 5000</td>
</tr>
<tr>
<td>5 &quot; 01</td>
</tr>
<tr>
<td>6 &quot; 02</td>
</tr>
<tr>
<td>7 &quot; 03</td>
</tr>
<tr>
<td>8 &quot; 04</td>
</tr>
<tr>
<td>9 &quot; 05</td>
</tr>
<tr>
<td>10 &quot; 06</td>
</tr>
</tbody>
</table>

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

June 9th - July 2nd, 1980. Grid - Soil-sampling $2,658.70
MAKE OATH AND SAY, THAT:—

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
   (Here list claims on which work was actually done by number and name)

<table>
<thead>
<tr>
<th>Claim Number</th>
<th>Claim Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baldy 1-6</td>
<td>YA49765 - YA49770</td>
</tr>
<tr>
<td>The Yukon/Alaska Border Mining District, to the value of at least</td>
<td></td>
</tr>
<tr>
<td>Dawson</td>
<td>31st May 1980</td>
</tr>
</tbody>
</table>

To represent the following mineral claims under the authority of Grouping Certificate No. 80-1
(Here list claims to be renewed by number and name in numerical order)

<table>
<thead>
<tr>
<th>Claim Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baldy 1 - 10</td>
</tr>
<tr>
<td>Baldy 17</td>
</tr>
<tr>
<td>Baldy 19 - 22</td>
</tr>
</tbody>
</table>

Please apply 1½ years of assessment credits to each claim for the renewal period May 30/81 to Nov. 30th/82
Please give a common anniversary date of Nov. 30 to all the mineral claims.

3. The following is a detailed statement of such work:
   (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

May 31st to June 3rd, 1980 Grid-Soil Sampling $2,297.52
MAKE OATH AND SAY, THAT:—

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
   (Here list claims on which work was actually done by number and name)

   Baldy 11  YA49775
   Baldy 13  YA49777
   Baldy 15  YA49779

   situated at The Yukon/Alaska border
   in the Dawson Mining District, to the value of at least
   Claim Sheet No. 116-C-2
   $1,148.76

   dollars, since the 31st day of May 1980

   to represent the following mineral claims under the authority of Grouping Certificate No.
   (Here list claims to be renewed by number and name in numerical order)

   Baldy 11-16  YA49775 - YA 49780
   Baldy 18  YA49782

   Please apply 1½ yrs of assessment credits to each claim for the renewal period May 30/81 to Nov. 30/82.

   Please give a common anniversary date of Nov. 30 to all the mineral claims.

3. The following is a detailed statement of such work:  (Set out full particulars of the work done
   in the twelve months in which such work is required to be done, as shown by Section 53.)

   May 31st - June 3rd, 1980 Grid-Soil Sampling $1,148.76

Sworn before me at Vancouver, B.C.
this 18th day of December 1980

Applicant.

[Signature]
Notary Public in and for the Province of British Columbia
EXPLORATION

COMINCO LTD.

GEOCHEMICAL REPORT ON THE

BRONSON CLAIMS 1-10 SITUATED AT

139°29'W LONGITUDE: 63°58' N LATITUDE

DAWSON M.D., YUKON TERRITORY

Located claims on which assessment credits are requested:

<table>
<thead>
<tr>
<th>CLAIM</th>
<th>RECORD NO.</th>
<th>DATE RECORDED</th>
<th>ASSESSMENT CREDIT</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronson 1</td>
<td>YA49997</td>
<td>June 9, 1980</td>
<td>2 1/2 yrs.</td>
<td>$250.00</td>
</tr>
<tr>
<td>&quot; 2</td>
<td>&quot; 98</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot; 3</td>
<td>&quot; 99</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot; 4</td>
<td>&quot; 100</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot; 5</td>
<td>&quot; 101</td>
<td>&quot;</td>
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<tr>
<td>&quot; 6</td>
<td>&quot; 102</td>
<td>&quot;</td>
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<tr>
<td>&quot; 7</td>
<td>&quot; 103</td>
<td>&quot;</td>
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</tr>
<tr>
<td>&quot; 8</td>
<td>&quot; 104</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot; 9</td>
<td>&quot; 105</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot; 10</td>
<td>&quot; 106</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
</tbody>
</table>

25 yrs. $2500.00

Geochemical work was done on these claims between June 9th-July 2nd 1980.

INTRODUCTION

The Bronson claims were staked in June 1980 to cover an area at Mt. Bronson containing anomalous Cu, Pb, Zn, Ag soil/silt geochemistry. The region is underlain by metamorphosed intermediate to acid volcanics mapped as the Klondike Schist.

This report is based on results of a grid soil-sampling program conducted between June 9th-July 2nd 1980. The aim of this program was to define the size and consistency of the anomalous area by soil-grid geochemistry.

Personnel employed during the course of this study include:

Paul Wojdak 1 man day 7th Floor, 409 Granville Street, Van. B.C.
Ken Watson 1 man day " " " " " " " 
Dave O'Brien 5 man days " " " " " " " 
Graham Gill 1 man day " " " " " " " 
Don Coolidge 1 man day " " " " " " " 
2.

LOCATION AND ACCESS

The Bronson claims are located on the flank of Mt. Bronson 11 km south of Dawson City. The claims lie within the Dawson Mining Division and are located at 139°29' W Longitude and 63°58' N Latitude. The claims are accessible by helicopter from Dawson City.

SUMMARY

Assessment work conducted on the claim group includes prospecting and grid-soil-sampling. The grid area has been sampled at 50 m intervals along lines spaced 150-200 m apart. The most significant result of this work is a Pb/Ag soil geochemical anomaly approximately 2000 m long and 150-400 m wide. Minor galena mineralization has been found in talus float.

GEOLOGY

The regional area is mapped as a N.W./S.E. trending belt of Klondike Schist. Locally the claims area is underlain by quartz-feldspar-muscovite gneisses and schists which are thought to be meta-rhyolitic volcanics. Local outcrops suggest that the rocks strike in a N/S direction and dip to the west. The map area is largely covered by thick moss and brush.

MINERALIZATION

A few samples of galena mineralization in quartz-carbonate vein float were found at the north end of the map area. The rocks in this vicinity have a rusty oxidized appearance. Elsewhere a number of rusty soil patches occur on the flank of Mt. Bronson at the south end of the map area, but no sulphide mineralization was found at these localities.

GEOCHEMISTRY

Approximately 240 soil samples were collected and analyzed for Cu, Pb, Zn, Ag using the atomic absorption method. A few samples could not be collected because of the excessive depth of moss and permafrost. The most significant result of this program is a large coincident Pb, Ag anomaly that is approximately 2 km long and 150-400 meters wide. Anomalous Pb values are in the range of 50-150 ppm with a few samples containing 200-300 ppm Pb. (Background Pb values are 10-25 ppm. A smaller Pb anomaly occurs parallel to the main anomaly at the south end of the map area. The Ag anomalous area is somewhat wider than the main Pb anomaly at the north end of the grid area and consists of a number of smaller anomalies at the south end of the grid area. Anomalous Ag values are in the 1.0-3.0 ppm range with a few values up to 9 ppm and background values of 0.4 ppm. The sample area which contains the large Pb/Ag geochemical anomaly also contains a number of smaller areas anomalous in Cu.
and Zn. Anomalous Cu values are in the range of 50-150 ppm with background values 10-20 ppm; anomalous Zn values are in the 100-300 ppm range with background values around 50-60 ppm. One single sample contained 805 ppm Zn. Approximately 75 samples were also analyzed for manganese: results range from 69-2900 ppm. The best Mn values tend to correlate with the anomalous Zn values.

INTERPRETATION OF RESULTS AND CONCLUSIONS

1. This property contains a significant Pb/Ag anomaly that appears to trend parallel to the underlying host rocks.

2. The area where minor galena mineralization was located does not contain anomalous Pb soil geochemistry and therefore does not appear to be the source for the main Pb/Ag geochemical anomaly.

3. The main Pb/Ag anomalous area is mostly covered, and thus more exploration work is required to determine the source for this anomaly.

Report by: E.G. Olfert
Geologist

Endorsed by: R.Y. Watanabe
Senior Geologist

Approved for Release by: G. Harden, Manager
Exploration
Western District

Attachments:

1. Location Map 1:250,000
2. Claim Map 1"=1/2 mile
3. Pb Soil Geochemistry 1:5,000
4. Ag Soil Geochemistry 1:5,000
5. Cu Soil Geochemistry 1:5,000
6. Zn Soil Geochemistry 1:5,000
4.

Attachments:

1. Location May 1:250,000
2. Claim May 1" = 1/2 mile
3. Pb Soil Geochemistry 1:5,000
4. Ag Soil Geochemistry 1:5,000
5. Cu Soil Geochemistry 1:5,000
6. Zn Soil Geochemistry 1:5,000
COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

I, Ernest Olfert, with business address at 409 Granville Street, 7th Floor, Vancouver, British Columbia, do hereby certify that I have supervised the field work and have assessed and interpreted the data resulting from this geochemical survey.

I also certify that:

1. I am a graduate of the University of Calgary, Alberta, where I received a B.Sc degree in Honours Geology in 1970.
2. I am engaged in mineral exploration and have been a permanent employee with Cominco since 1971.

Respectfully Submitted:

E.G. Olfert, B.Sc. Honours
This is Schedule A referred to in the Statutory Declaration of ERNEST G. OLFERT declared before me this 8th day of December, 1980.

A Notary Public in and for the Province of British Columbia.

STATEMENT OF EXPENDITURES

BRONSON GROUP

DAWSON M.D., Y.T.

JUNE 9th, 1980 - JULY 2nd, 1980

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>SALARIES (12 man days)</td>
<td>$ 775.00</td>
</tr>
<tr>
<td>REPORT WRITING E. Olfert (1 day)</td>
<td>$ 126.00</td>
</tr>
<tr>
<td>TRANSPORTATION (1 hr. helicopter)</td>
<td>$ 400.00</td>
</tr>
<tr>
<td>DOMICILE (Food, and equipment) 12 m. days at $15/m.d.</td>
<td>$ 180.00</td>
</tr>
<tr>
<td>GEOCHEMISTRY 240 samples Cu, Pb, Zn, Ag at $3.90/sample</td>
<td>$ 936.00</td>
</tr>
<tr>
<td>ADMINISTRATION 10%</td>
<td>$ 241.70</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$ 2,658.70</td>
</tr>
</tbody>
</table>

Ernest G. Olfert
Geologist, Exploration
Cominco Ltd.
I, ERNEST GEORGE OLFEKT, of the City of Vancouver, in the Province of British Columbia, do solemnly declare that:

1. I am employed as a geologist by Cominco Ltd. and, as such, have a personal knowledge of the facts to which I here in after depose;
2. Annexed hereto and marked as Schedule A is a true copy of expenditures on a geochemical survey carried out on mineral claims BRONSON 1-10;
3. The said expenditures were incurred between the 9th of June and the 2nd of July, 1980 for the purpose of mineral exploration on the above noted claim group.
4. This statutory Declaration is made in support of an application for a Certificate of Work pursuant to the Yukon Quartz Mining Act.

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 City of Vancouver in the Province of British Columbia this 18th day of December 1980

[Signature]
Ernest G. Olfert
A Notary Public and and for the Province of British Columbia
MT. BRONSON

Cu SOIL GEOCHEMISTRY

Drawn by: [Name]
Traced by: [Name]

Scale: 1:5,000
Date: [Date]

7.50 ppm Cu ANOMALOUS

7.00 ppm Cu THRESHOLD/ANOMALOUS

N.T.S. 115-O-14