FOR ACTION ARE:

- NEW APPL'N for PLACER LEASE to PROSPECT: Name: [Lease No.]
- RENEWAL APPL'N PLACER LEASE to PROSPECT: Name: [Lease No.]
- AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name: [Lease No.]
- ASSIGNMENT of PLACER LEASE No. From: To: [Lease No.]
- GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT. Owner: [Lease No.]
- DIAMOND DRILL LOGS: Claims: [Claim sheet no.]
- QUARTZ ASSESSMENT REPORT Claims: "Hess" Gr. Type of report: Hand Trenching
  Cls. work performed on:
  Copy For your Files.

REPLY ACTION

Date Ref.

Signature

090922

Signature

Copy For your Files.
HAND TRENCHING
ON THE
HESS CLAIM GROUP
MAYO MINING DISTRICT, YUKON TERRITORY
LATITUDE: 63°17';  LONGITUDE: 130°45'
WORK UNDERTAKEN
DURING THE PERIOD JUNE 25 TO AUGUST 4, 1981
ON HESS CLAIM 61
This report has been examined by the Geological Exploration Unit under Section 53.4, Yukon Quartz Mining Act and is allowed as representative work in the amount of $__________________.

Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.
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**APPENDICES**

- Appendix I - Statement of Oath
- Appendix II - Statement of Expenditures for the Period June 25 to August 4, 1981
- Appendix III - Certification
COMINCO LTD.

EXPLORATION
NTS: 105-0-7

WESTERN DISTRICT
20 September 1981

HAND TRENCHING
ON THE
HESS CLAIM GROUP
MAYO MINING DISTRICT, YUKON TERRITORY

I. LOCATION - refer to Plate A

The Hess claim group occurs within the Mayo Mining District, and is situated in the Hess Mountainlands, 390 km NE of Whitehorse, Yukon. The property is centered on latitude 63°17' and longitude 130°45'. Access is via the Canol Road from Whitehorse and Ross River to the MacMillan Pass airstrip, and then by a 15 minute helicopter trip to the property.

II. INTRODUCTION - refer to Plates B and C

The 89 claim Hess property overlies a sequence of thrust faulted Ordovician-Silurian and Devonian-Mississippian clastics containing some interbedded volcanics. Within the Ordovician-Silurian black clastics in the Hess Mountainlands there are extensive beds of barite, calcite and witherite up to 100 m thick, with a discontinuous strike length of approximately 6 km. The Hess claims overlie the discontinuous strike extension of the barite zone, to the west and east of where it is best developed. On the Hess 61 claim the barite, calcite and witherite is associated with stratiform sphalerite, galena and tetrahedrite. The 1981 hand trenching exposed and sampled this mineralized occurrence.

III. WORK UNDERTAKEN

A. Period of Work and Personnel Employed

The areas to be trenches were positioned in the field on June 24th by A.B. Mawer, R.W. Lane and D.C. Oke. The trenching was contracted out to McCrorry Holdings (Yukon) Ltd. of Whitehorse and their two man crew, complete with compressor, arrived at MacMillan Pass on June 25th to undertake the work. The trenchers de-mobilized from the property on August 1, 1981.

Trench 81-1 was mapped and sampled by D.C. Oke and J.P. Palut.
B. Results - refer to Plate C

Four trenches were designated to be dug, however the steepness of the terrain combined with running ground made it impractical to attempt two of them. Of the remaining two, one only, Tr-1981-1, was able to reach bedrock.

The dimensions of Trench Tr-1981-1 are as follows: length - 26 m; width - 1.5 m; average depth - 1.0 m. The dimensions of Trench Tr-1981-2 are as follows: length - 40 m; width - 2.0 m; average depth - 0.5 m.

Trench Tr-1981-1 exposed a sequence of laminated to bedded witherite containing modest amounts of disseminated, laminated and thin bedded sphalerite, galena and tetrahedrite. The trench geology and analytical results are shown on Plate C.

IV. ATTACHMENTS

Plate A - Location Map of Hess Property
Plate B - Hess Property Claim Map
Plate C - Compilation Map: Location of Trenches Tr-1981-1 & 2, Geology, Assays and Claim Boundaries

Scale: 1:250,000
Scale: 1" = ¼ mi.
Scales: 1:10,000 & 1: 200

Report by: R.W. Lane
Geologist

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

Distribution:
Mining Recorder (2)
Western District (1)
RWL (1)

RWL/vmk
IN THE MATTER OF THE ACT RESPECTING QUARTZ MINING IN THE YUKON TERRITORY, AND IN THE MATTER OF A HAND TRENCHING PROGRAMME CARRIED OUT ON A PORTION OF THE HESS MINERAL CLAIMS, ON THE HESS PROPERTY, LOCATED IN THE HESS MOUNTAINLANDS, MAYO M.D., AT LATITUDE: $63^\circ 17' \text{ AND } 130^\circ 45'$, NTS: 105-0-7.

STATEMENT

I, Ronald W. Lane, of the City of N. Delta, in the Province of British Columbia, make oath and say:

1. That I am employed as a Geologist by Cominco Ltd., and as such, have a personal knowledge of the facts to which I hereinafter depose.

2. That annexed hereto and marked as "Appendix II" to this statement is a true copy of expenditures incurred on a hand trenching programme on the Hess Mineral claims.

3. That the said expenditures were incurred between the 25th of June to the 4th of August, 1981 for the purpose of mineral exploration on the above mentioned claims.

R.W. Lane, Geologist
Exploration,
Western District

Dated this 27 day of Sept., 1981
at Vancouver, British Columbia.
# APPENDIX II

## HESS CLAIMS

### STATEMENT OF EXPENDITURES

FOR THE PERIOD

**JUNE 25 to AUGUST 4, 1981 (Hand Trenching Programme)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Geology - Salaries</td>
<td>$1,300</td>
</tr>
<tr>
<td>Trenching - contracted and supplies</td>
<td>6,134</td>
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<tr>
<td>Domicile</td>
<td>399</td>
</tr>
<tr>
<td>Transportation - truck</td>
<td>1,906</td>
</tr>
<tr>
<td>Transportation - helicopter</td>
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<tr>
<td>Assays</td>
<td>400</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$15,439</strong></td>
</tr>
</tbody>
</table>

RWL/vmk
I, Ronald W. Lane, of 7673 Sutton Place, in the City of North Delta, in the Province of British Columbia, do hereby certify that:

1. I graduated from the University of Alberta in 1971 with a B.Sc., specializing in geology.

2. That I have been practicing my profession on a continuous basis for the last 10 years.

R.W. Lane
Geologist
Western District
Cominco Ltd.