

FROM: Mining Recorder at MAYO

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



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: _____

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

DIAMOND DRILL LOGS:
Claims: _____ Claim sheet no: _____

QUARTZ ASSESSMENT REPORT
Claims: HESS" GR. Claim sheet no. 105-0-7

Type of report: HAND TRENCHING
Submitted by: COMINCO LTD.

Cls. work performed on: _____ \$ Req. for ren. application _____

COPY FOR YOUR FILES.

[Signature]
Signature

REPLY ACTION

Date Ret. _____

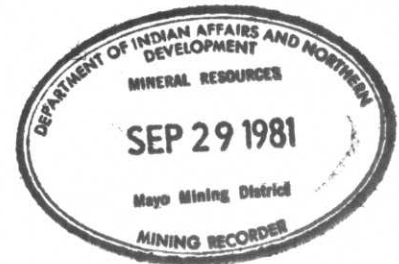
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Signature

COMINCO LTD.

EXPLORATION
NTS: 105-0-7

WESTERN DISTRICT



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

SEPTEMBER 1981

090922

R.W. LANE



This report has been examined by the Geological Evaluation Unit under Section 50 of the Yukon Quartz Mining Act and is allowed as representation in the amount of \$ _____.

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

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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 Canal 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 trenched 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 McCrory 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 | Scale: 1:250,000 |
| Plate B - Hess Property Claim Map | Scale: 1" = ½ mi. |
| Plate C - Compilation Map: Location of Trenches Tr-1981-1 & 2, Geology, Assays and Claim Boundaries | 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)


APPENDIX I

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: $63^{\circ}17'$ AND $130^{\circ}45'$, NTS: 105-0-7.

S T A T E M E N T

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 29 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)

| | |
|-------------------------------------|-----------------|
| Geology - Salaries | \$ 1,300 |
| Trenching - contracted and supplies | 6,134 |
| Domicile | 399 |
| Transportation - truck | 1,906 |
| Transportation - helicopter | 5,300 |
| Assays | 400 |
| | <u>\$15,439</u> |

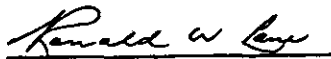
RWL/vmk

APPENDIX III

CERTIFICATION

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.



705
30'
704
703
702
15'
701
700
699
63°00'

41 45' 42 30' 43 15' 44 130 00'

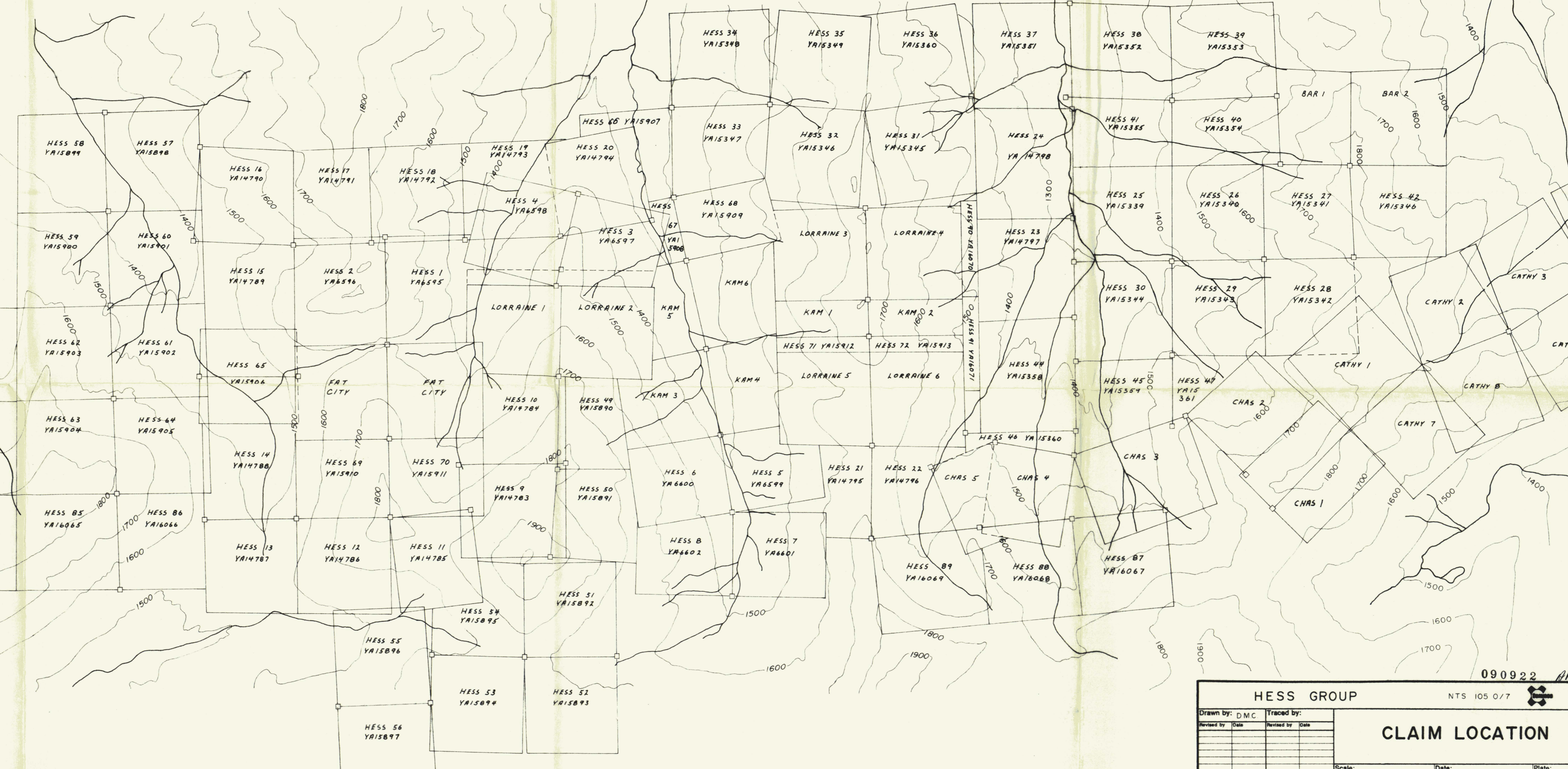
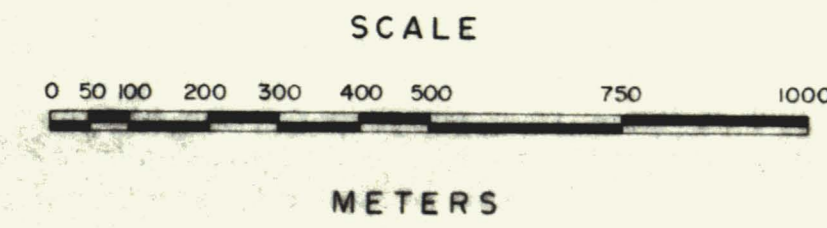
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| | | | |
|------------|------|--------------------------|------|
| Drawn by: | | Traced by: <i>a.m.b.</i> | |
| Revised by | Date | Revised by | Date |
| | | | |
| | | | |
| | | | |

HESS PROPERTY LOCATION MAP

Scale: 1:250 000 Date: SEPT. 24, 1981 Plate A



090922 ABM

HESS GROUP NTS 105 0/7

| | |
|-------------------|-------------------|
| Drawn by: DMC | Traced by: |
| Revised by: _____ | Revised by: _____ |
| Date: _____ | Date: _____ |
| | |
| | |

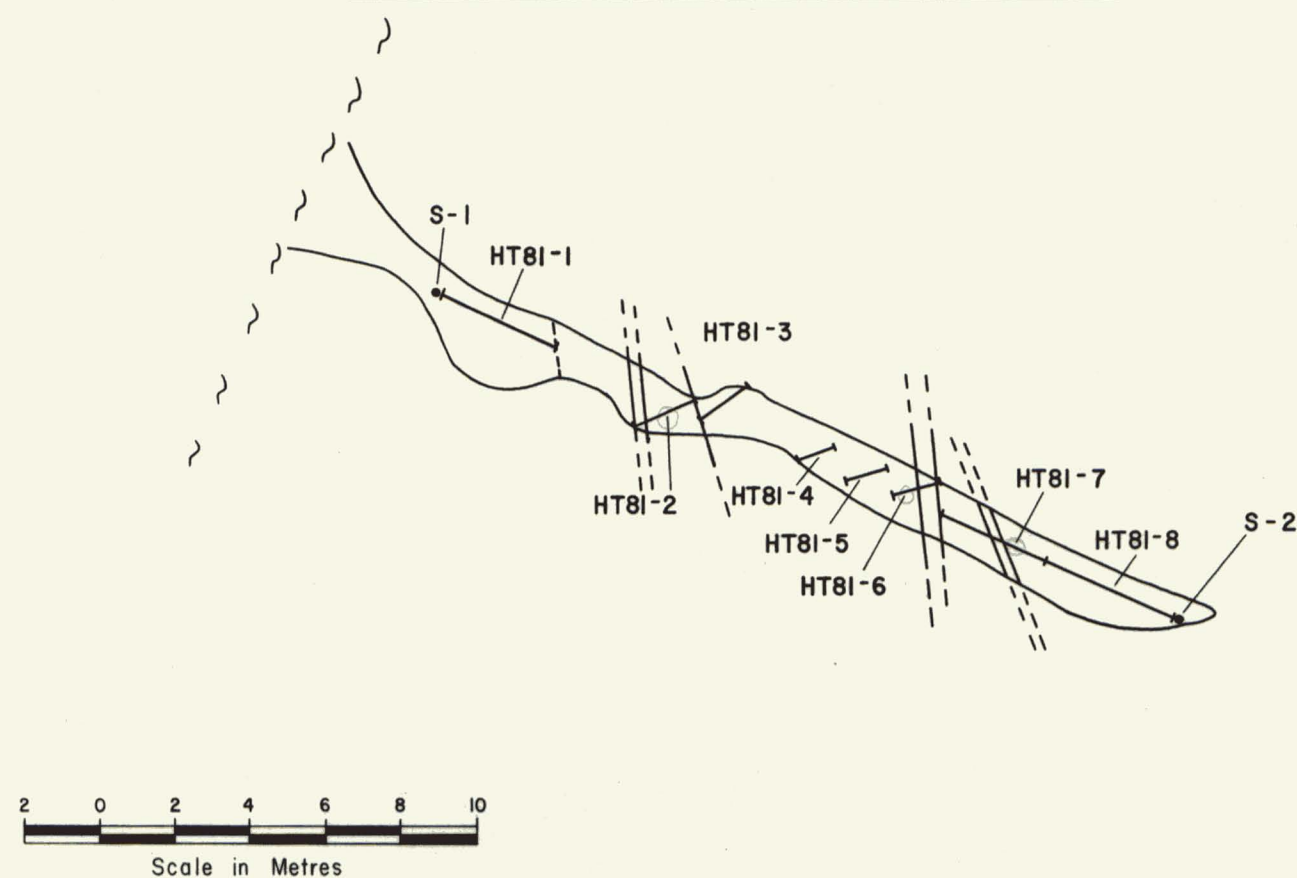
CLAIM LOCATION

Scale: 1:10,000 Date: SEPT 1978 Plate: _____

GEOLOGY OF HESS TRENCH Tr-1981-1



ROCK SAMPLE LOCATION MAP, Tr-1981-1



GEOLOGICAL LEGEND

UPPER ROAD RIVER

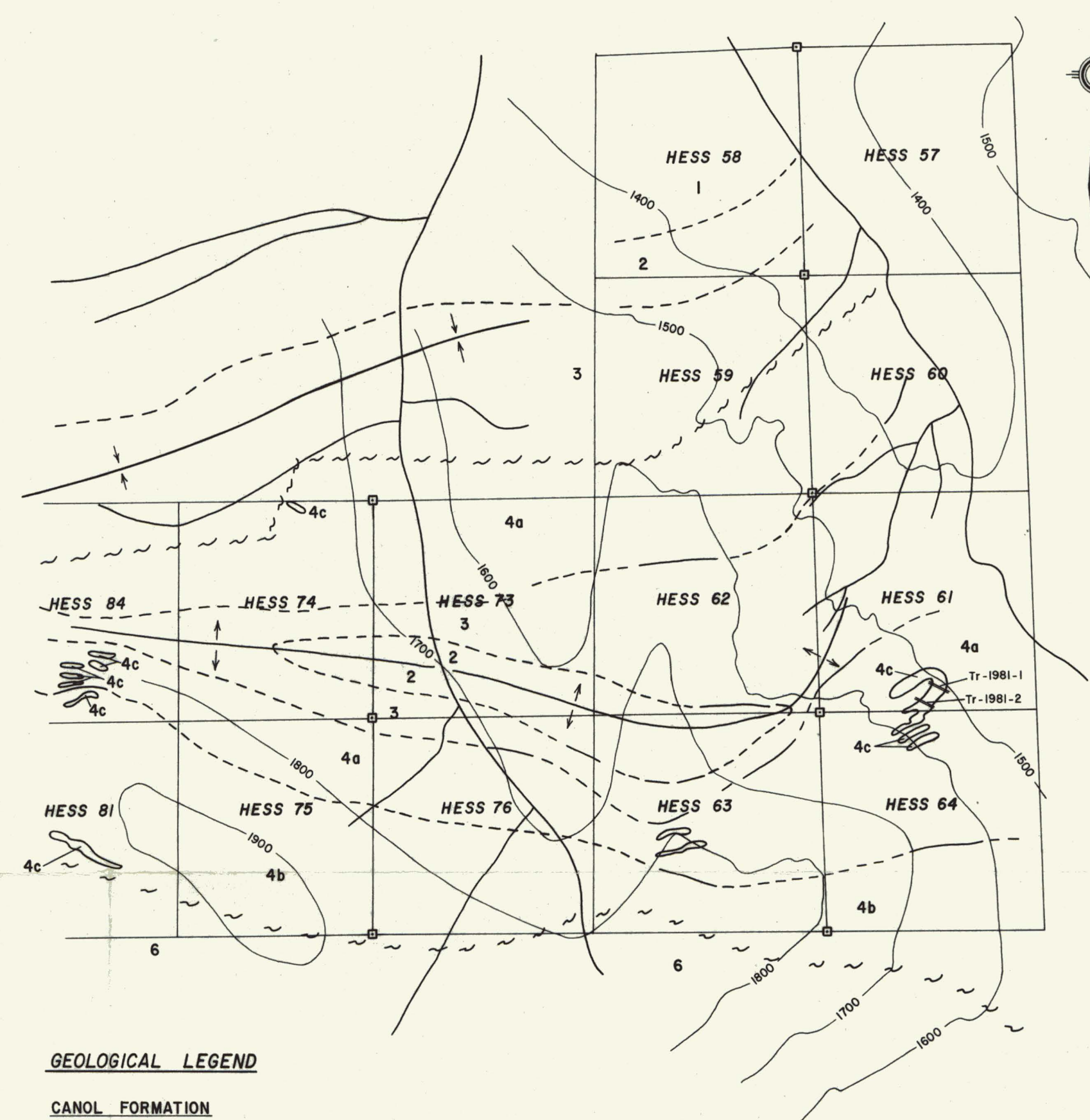
- 4a₁ Mudstone, pyritic and black.
- 4a₂ Fetid limestone, medium grey.
- 4c₁ Massive to laminated to blebby, medium to dark grey witherite, usually contains diss. pyrite, scattered galena and tetrahedrite. The blebby texture is due to boundingage of witherite. The dark laminae within the witherite consist of chert.
- 4c₂ Laminated witherite, contains pyrite.
- 4c₃ Galena and pyrite rich laminae and thin beds within witherite.
- 4c₄ Laminated witherite containing abundant pyrite and minor amounts of galena. A few 0.5 cm thick beds of galena rich witherite.
- 4c₅ Galena, pyrite and minor tetrahedrite in lens 0.7 m x 2.0 m
- 4c₇ Laminated witherite containing pyrite and local concentrations of galena.
- 4c₈ Abundant galena in lens 0.5 m x 1.0 m.
- 4c₉ Laminated to mottled witherite, contains pyrite and minor amounts of galena.

SYMBOLS

- Limit of outcrop
- Geological contact - assumed
- Geological contact - indefinite
- Geological contact - definite
- Fault
- Strike/dip symbol
- Direction of steep slope
- Location of rock sample
- Claim post

ROCK SAMPLE RESULTS

| Sample Number | Cu ppm | Pb ppm | Zn ppm | Ag ppm |
|---------------|--------|--------|--------|--------|
| HT81-1 | 121 | 3,300 | 4,610 | 12.4 |
| HT81-2 | 430 | 30,000 | 21,500 | 83.0 |
| HT81-3 | 104 | 8,400 | 9,420 | 26.3 |
| HT81-4 | 208 | 8,400 | 7,230 | 38.1 |
| HT81-5 | 234 | 2,450 | 1,910 | 20.0 |
| HT81-6 | 273 | 42,000 | 15,820 | 122.0 |
| HT81-7 | 117 | 15,000 | 11,350 | 55.0 |
| HT81-8 | 28 | 1,300 | 926 | 6.8 |



GEOLOGICAL LEGEND

CANOL FORMATION

- 6 Conglomerate Unit - Chert pebble congl., gritstone
- 5 Lower Laminite Unit - Carbonaceous siltstone

ROAD RIVER FORMATION

- 4 Upper Road River Unit
- 4a Carbonaceous siltstone, shale
- 4b Black graphitic mudstone
- 4c Barite, witherite, minor sphalerite, galena, tetrahedrite
- 3 Marker Unit - Cherty siltstone and chert
- 2 Active Unit - Black carbonaceous mudstone and siltstone
- 1 Transition Unit - Siltstone, sandstone, limestone and schale

HESS PROPERTY, HESS MOUNTAINLANDS, YUKON

Drawn by: G.D.V. - C.O. Traced by: R.W.L.
J.P.P. a.m.b.

Revised by Date Revised by Date

COMPILATION MAP

LOCATION OF TRENCHES Tr-1981-1 & 2, GEOLOGY, ASSAYS, and CLAIM BOUNDARIES

Scale: 1:10000 & 1:200, AS SHOWN Date: Sept. 20, 1981 Plate: C

090022 RBM