



# WELCOME NORTH MINES LTD.

1027 - 470 Granville St., Vancouver, B.C. V6C 1V5 • Telephone (604) 687-1658



## P E L L Y P R O J E C T

A SOIL GEOCHEMICAL REPORT

ON THE

GRAF 1-36 MINERAL CLAIMS



Latitude 62° 45'N

Longitude 135° 20'W

Claim Sheet 105L-11/14

Whitehorse Mining District

WORK DONE DURING THE PERIOD AUGUST 2-8, 1980

by

G. H. Rayner, P.Eng.(BC)

November 14, 1980

**090784**

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 \$ 5303.00

  
Humbell  
Resident Geologist or  
Resident Mining Engineer

Considered as representation work under  
Section 53 (4) Yukon Quartz Mining Act.

B. R. BAXTER  
Supervising Mining Recorder

[Signature]  
Commissioner of Yukon Territory

182000

FROM: Mining Recorder at *Whitehorse*

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: *CRAF 1-36* Claim sheet no: \_\_\_\_\_

Type of report: *Soil Geochemical Report* Submitted by: *Welcome North Mines Ltd.*

Cls. work performed on: *CRAF 1-36* \$ Req. for ren. application *\$ 5303.00*

Signature *[Signature]* *26 MAR 81*

REPLY ACTION.

Date Ret.

Signature \_\_\_\_\_

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Discussion of Method  
Discussion of Results

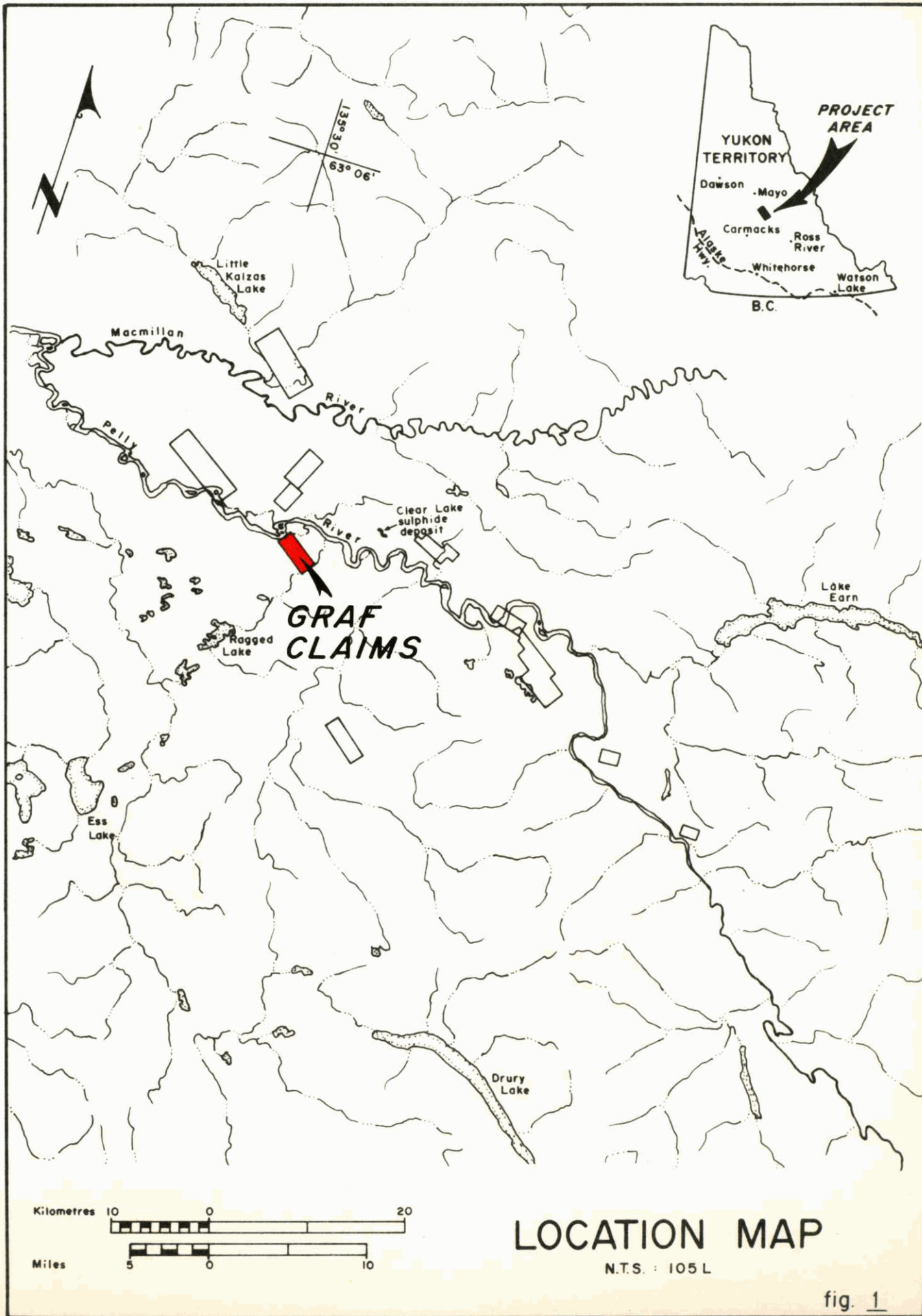
### ILLUSTRATIONS

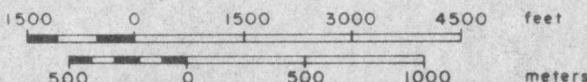
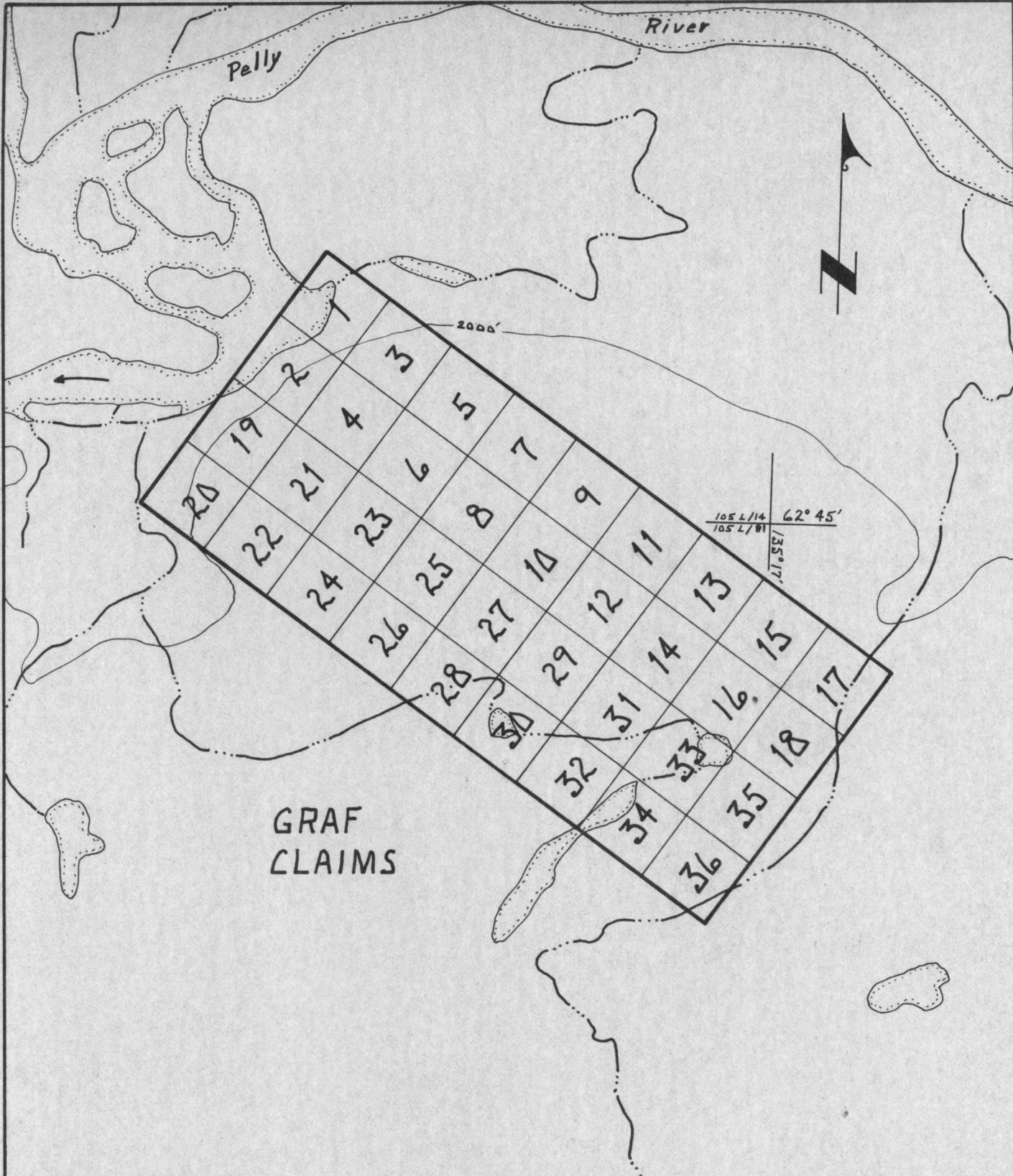
Figure I Location Map


Figure II Claim Map

Figure III Plot of Cu, Pb, Zn Values In Pocket

Appendix I - Geochemical Report by Ketza Enterprises Ltd.  
(including Statement of Costs)





|   |                 |              |
|---|-----------------|--------------|
|  <b>WELCOME NORTH MINES LTD.</b> |                 |              |
| <b>PELLY PROJECT</b>  |                 |              |
| <h1>CLAIM MAP</h1>  |                 |              |
| Scale 1 : 31,680  | Date NOV. 1980  | NTS 105L/014 |
| Revised _____   | By: G.H.R./d.h. | Fig 2        |

CONCLUSIONS

The geochemical results from the present survey are not encouraging. Values in all three elements tested are low and relatively uniform. It seems most likely that the claims do not contain a substantial sulphide body that is in a position to influence soil metal values.

RECOMMENDATIONS

No further work is recommended on this property.

### INTRODUCTION

The GRAF claims and several other claim groups were staked as part of the Pelly Project, a joint venture between Welcome North Mines Ltd. and E and B Explorations Inc. The claims were located to cover areas potentially favourable for the discovery of a mineral deposit similar to the nearby Clear Lake zone.

During the summer of 1980, Ketz Enterprises Ltd. of Ross River Y.T. contracted to cut a grid over the property and to carry out a geochemical soil survey. The results of this survey are presented in this report.

### LOCATION AND ACCESS

The property is located in the Pelly River Valley in the south-central Yukon about 120 miles north of Whitehorse. The specific location would be; Latitude 62° 45'N, Longitude 135° 20'W.

Access for light exploration purposes is by helicopter from bases at Ross River or Carmacks. Several lakes in the area and a gravel airstrip at Clear Lake are suitable for fixed-wing use if required. Bush cover in the district is moderate and generally does not hinder traversing.

### HISTORY AND PREVIOUS WORK

Following the discovery by Conwest Explorations Ltd. of the Clear Lake deposit in 1978 the Pelly Project was formed and several geologically favourable areas were staked in the district.

Some 1675 line-kilometres of airborne magnetic and electromagnetic survey were flown over a portion of the district in April of 1980 for the Pelly Project. The present soil survey was a part of the follow-up of results of the airborne work.

### GEOLOGY

The detailed geology of the area is poorly understood. In general the area is underlain by somewhat shistose rocks of the Askin Group and by Anvil Range volcanics and shale. These older rocks are cut by a series of monzonitic intrusives of presumed cretaceous age. Unfortunately, ground traversing over the GRAF claims shows that at least the western two thirds and perhaps all of the group is underlain by these intrusives. Although an airborne E.M. conductor was located over the property it seems unlikely that the cause was a vulcanogenic massive sulphide deposit.

## GEOCHEMISTRY

### Discussion of Method

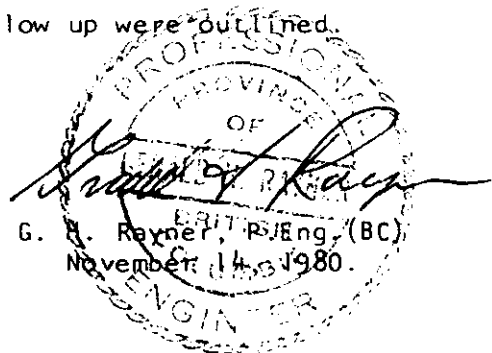
The soil samples were taken at 100 metre intervals along flagged grid lines 400 metres apart. A short handled grub hoe was used to collect the sample. Whenever possible the B<sup>2</sup> horizon was collected although in some areas only A<sup>2</sup> material was available. Throughout the district the normal soil profile is overlain by up to 0.5 metres of volcanic ash which must be penetrated to collect the sample.

The samples were placed in numbered kraft paper envelopes and sent to Whitehorse Assay Labs, Whitehorse, Y.T. for analysis.

The samples were dried, screened to minus 80 mesh and a weighed portion was digested in hot HNO<sub>3</sub> and HClO<sub>4</sub>. The resulting solution was then analysed by Atomic Absorption Spectrometer for copper, lead and zinc.

### Discussion of Results

The values reported for all three elements were surprisingly low. No areas warranting closer geochemical follow up were outlined.

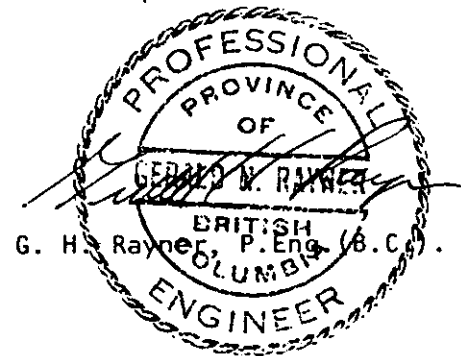


CERTIFICATE

I, Gerald H. Rayner do hereby certify that:

1. I am a consulting geological engineer with offices at 626 Duchess Avenue, West Vancouver, B.C.
2. I am a graduate of the University of British Columbia (B.Sc. Geology).
3. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. I have practiced my profession since 1958 primarily in Western North America and the South Pacific.
5. This report is based on personal visits to the GRAF claims and other Pelly Project properties in the area between July 31st and August 6th, 1980 and on available published reports and private data.

West Vancouver, B.C.  
November 14, 1980



APPENDIX I

GEOCHEMICAL REPORT

GRAF Claims

Claim Sheet 105L11/14

Location 62° 45' 135° 20'

Mining District - Whitehorse

## T A B L E   O F   C O N T E N T S

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| Map 1 Geochem Values       |                 |
| 2 Cu Contours              |                 |
| 3 Pg Contours              |                 |
| 4 Zn Contours              |                 |

# KETZA ENTERPRISES LTD.

ROSS RIVER  
YUKON, Y08 1S0

BLAKE S. MACDONALD, Pres.

Phone (403) 969-2237  
Telex 036-8-317

Page One

## F O R W A R D

During the period July 15th to August 14th, 1980, Ketza Enterprises Ltd. was employed and supervised by Welcome North Mines Ltd. to undertake the controlled geochemical sampling of eleven properties in the Detour Lakes area of the Pelly River valley. Ketza Enterprises collected all samples and prepared all maps for the surveys. All results were then sent to Welcome North Mines Ltd. No effort was made by Ketza Enterprises to interpret results or to tie results into existing geological information. During the analysis of samples, certain samples from RSVP, PVA, and PDQ claim blocks were destroyed by fire at the Whitehorse Assay Office.

submitted by,

Blake S. Macdonald

## D A T E S   O F   S U R V E Y

| <u>Property Name</u> | <u>Dates of Survey</u>     |
|----------------------|----------------------------|
| RSVP                 | July 15 - August 4         |
| PVA                  | July 15 - August 4         |
| PDQ                  | July 15 - August 4         |
| PELTY                | July 15 - August 4         |
| WHIP                 | July 15 - August 4         |
| VSE                  | July 15 - August 4         |
| SAP                  | July 15 - August 4         |
| HUGH                 | August 1 - August 8        |
| <u>GRAF</u>          | <u>August 2 - August 8</u> |
| PETER                | August 6 - August 10       |
| HANK                 | August 10 - August 14      |

## L I S T O F C L A I M S

| <u>Claim Name</u> | <u>Claim Tag</u>                   | <u>Claim Held By</u>   |
|-------------------|------------------------------------|--|
| SAP               | 1- 20 YA25355-YA25374              |  |
| PDQ               | 1- 20 YA25375-YA25394              | 1- 8 Blake Macdonald<br>9-16 Lash Ladue<br>17-20 Jerry Ladue |
| VSE               | 1- 75 YA25400, YA48001-<br>YA48134 |  |
| WHIP              | 1- 30 YA48135-YA48164              |  |
| PELLY             | 2- 20 YA48165-YA48185              |  |
| PVA               | 1- 24 YA25331-YA25354              |  |
| RSVP              | 1- 32 YA25299-YA25322              |  |
| <u>GRAF</u>       | <u>1- 36 YA50782 -YA50817</u>      |  |
| HUGH              | 1-102                              |  |
| HANK              | 1- 90                              |  |
| PETER             | 1- 40 YA50742-YA50781              |  |

| <u>CLAIM NAME</u> | <u>CLAIM SHEET</u> | <u>MINING DISTRICT</u> | <u>LOCATION</u> |         |
|-------------------|--------------------|------------------------|-----------------|---------|
| SAP               | 105L9              | Whitehorse             | 62°36'30"       | 134°24' |
| PDQ               | 105L10             | Whitehorse             | 62°39'          | 134°35' |
| VSE               | 105L10             | Whitehorse             | 62°42'          | 134°47' |
| WHIP              | 105L10             | Whitehorse             | 62°44'          | 134°52' |
| PELLY             | 105L14             | Whitehorse             | 62°47'          | 135°02' |
| PVA               | 105L14             | Whitehorse             | 62°48'          | 135°21' |
| RSVP              | 105L14             | Whitehorse             | 62°49'          | 135°21' |
| GRAF              | 105L11/14          | Whitehorse             | 62°45'          | 135°20' |
| HUGH              | 105L13/14          | Whitehorse             | 62°47'          | 135°30' |
| HANK              | 105L13/14          | Mayo                   | 62°55'          | 135°30' |
| PETER             | 105L11             | Whitehorse             | 62°35'          | 135°05' |

## G E O C H E M I C A L   S U R V E Y

Method of Control

The control of sampling was obtained by the use of compass and chained lines. To tie the lines into the claim block the base lines were run along claim lines tying the claim posts into the grid. Cross lines were run at intervals of 400 meters at right angles to the base lines and sample stations were at intervals of 100 meters on the cross lines.

Method of Collection

At 100 meter intervals on the flagged cross lines samples were obtained with the use of a mattock from the B horizon which in most cases was just below the ash layer that overlays the Detour Lakes area approximately 12 - 18 inches below the surface. The samples obtained were placed in a Kraft envelope and the envelope was marked with the claim block name and the line and station.

Method of Analysis

Samples collected were sent to Whitehorse Assay labs, a division of Barringer Magenta and run accordingly.

Method of Analysis (Continued)

1. Samples are dried.
2. Sieved to minus 80 mesh.
3. Weighed to 0.5 gms.
4. Digested in hot  $\text{HNO}_3$  &  $\text{HClO}_4$  for 4 hours.
5. Cooled and brought up to 5 MLS, shaken and settled.
6. Analysed on an Atomic Absorption Spectrometer.
7. Sample results are recorded and returned to Ketz Enterprises Ltd. to be recorded on grid plans.

## K E T Z A   P E R S O N N E L   E M P L O Y E D

| <u>Name</u>      | <u>Period</u>                             |
|------------------|---|
| Jerry Ladue      | July 15 - August 5                        |
| John Etzel       | July 15 - August 5                        |
| Charlie Ollie    | July 27 - August 3<br>July 10 - August 14 |
| John Tommy       | July 27 - August 3<br>July 10 - August 14 |
| William Atkinson | July 27 - August 12                       |
| Ron Etzel        | July 29 - August 4                        |
| Dan Etzel        | July 29 - August 4                        |
| Fred Peter       | July 27 - August 14                       |
| Gordon Peter     | July 10 - July 12                         |
| Pat Etzel        | July 10 - July 12                         |
| Blake Macdonald  | July 15 - July 17<br>July 27 - August 8   |

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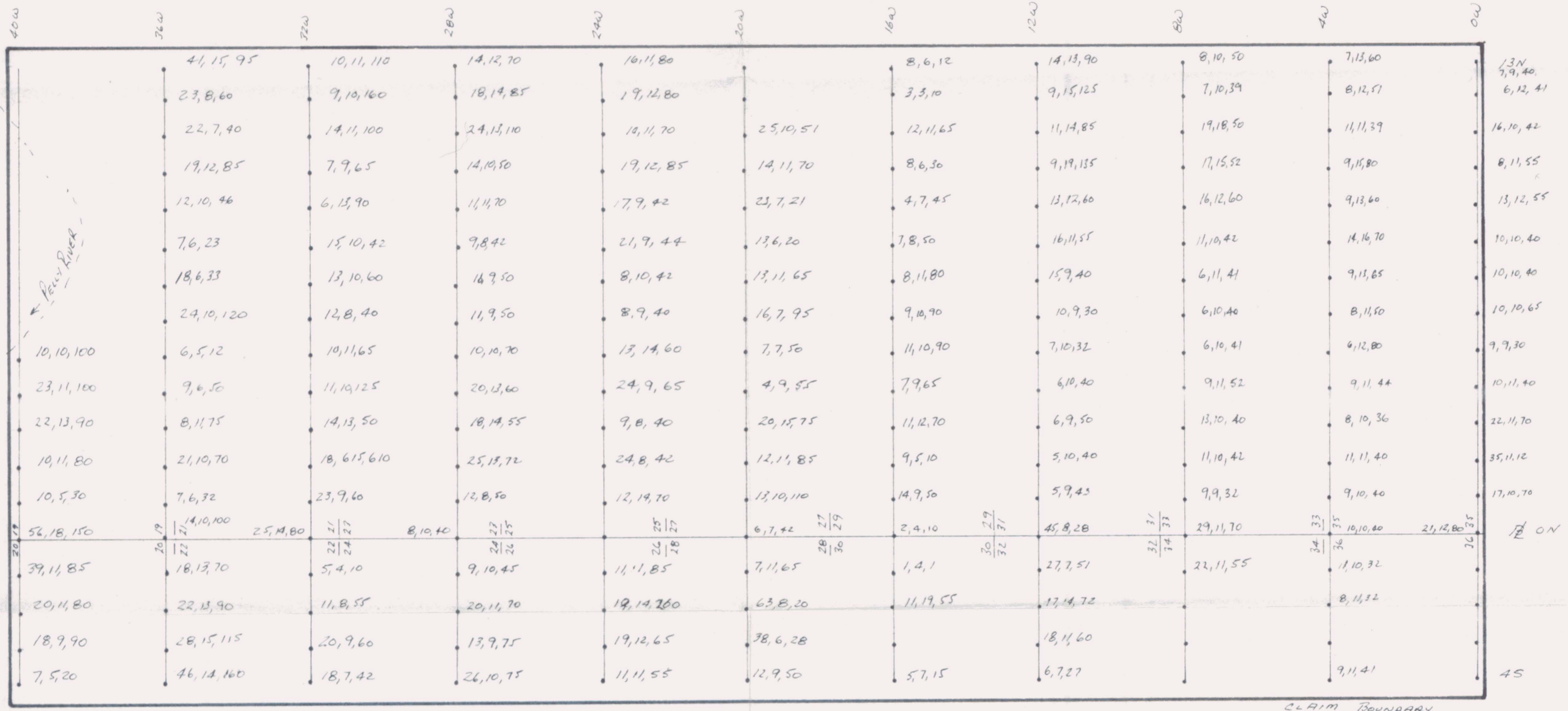
## STATEMENT OF COSTS

Page Eight

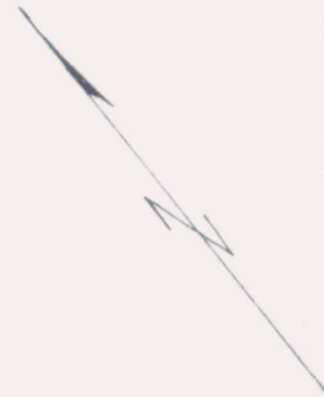
### INVOICE

TO: Welcome North Mines Ltd.,  
1027 - 470 Granville St.,  
Vancouver, B.C.  
V6C 1V5

| <u>Claim Name</u>   | <u>Number of Claims</u> |
|---|-------------------------|
| GRAF  | 36                      |
| Helicopter.....   | \$1,062.48              |
| Chain & Compass Grid  |                         |
| 22 Km @ \$145.00/Km.....  | 3,190.00                |
| Geochem Samples   |                         |
| 182 Samples @ 3.80/Sample ..  | 691.60                  |
| Fuel \$ / \$ Flying   |                         |
| 0.07 X 1062.48.....   | 74.37                   |
| Fixed Wing  |                         |
| 4.53 X Claim 36 .....   | 163.08                  |
| Freight   |                         |
| 0.62 X Claim 36.....  | 22.32                   |
| Report preparation costs, including<br>map printing, photocopies, folders,<br>drafting service..... | 100.00                  |
| TOTAL   | \$5,303.85              |
| COST/CLAIM  | 147.33                  |



CLAIM BOUNDARY



|                                 |              |                |
|---------------------------------|--------------|----------------|
| GRAE CLAIMS 1-36 GEOCHEM VALUES |              |                |
| SCALE: 1-10,000                 | APPROVED BY: | DRAWN BY KEL   |
| DATE: SEPT 9/80                 |              | REVISED        |
| CO, PG, 20, R.P.M.              |              |                |
| WHITEHORSE MINING DISTRICT      | 105L14 29    | DRAWING NUMBER |