



# 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

SAP 1-20 MINERAL CLAIMS

Latitude 62° 36'N, Longitude 134° 24'W

Claim Sheet 105L/9  
Whitehorse Mining District

WORK DONE DURING THE PERIOD JULY 15 TO AUGUST 4, 1980

by

G. H. Rayner, P.Eng. (B.C.)  
November 14, 1980.

090745



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 \$ 3400

*[Signature]*  
Resident Geologist or  
Resident Mining Engineer

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

*[Signature]*  
B. R. BAXTER  
Supervising Mining Recorder  
Commissioner of Yukon Territory

505000

FROM Mining Recorder at *Whitehorse* .....

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:

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: *SA*

Claim sheet no:

QUARTZ ASSESSMENT REPORT:

Claims: *SAP 1-20*

Claim sheet no. *105-L-14*

Type of report:

*Soil Geochemical*

Submitted by:

*WELCOME North Mines Ltd.*

Cls. work performed on:

*SAP 1-20*

\$ Req. for ren. application

*\$ 300.00*

Signature

*26 Feb 1981*



REPLY ACTION.

Date Ret.

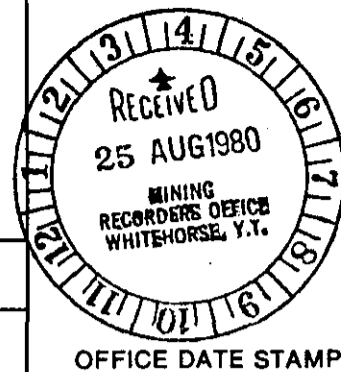
Signature



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
YUKON QUARTZ MINING ACT  
FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

Q 90981 - Q 90983

(This form required in duplicate with sketch showing location of work.)



I (Name) Blake S. Macdonald	Occupation President
(Postal Address) Ketzta Enterprises Ltd., Ross River, Yukon	

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)

SAP 1 - 20 inclusive

situated at Detour Lakes area, Pelly River Claim Sheet No. 105 L 9

in the Whitehorse Mining District, to the value of at least \$3,000.00

dollars, since the twentieth day of July 1980.

to represent the following mineral claims ~~under the authority of Grouping Certificate No. \_\_\_\_\_~~

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

Claim Name	Number	Grant Number	Renewal period
SAP	1 - 20 incl.	YA 25355 to YA 25374 incl.	1 year

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

- compass and topofil grid with geochem
- work commenced July 20/80, ended August 10/80
- all invoices not received as yet, approximate value \$150/claim, maps, assays, reports, etc. to follow by October 15/80
- assays expected 3 - 5 weeks late

Sworn before me at Ross River, Yukon

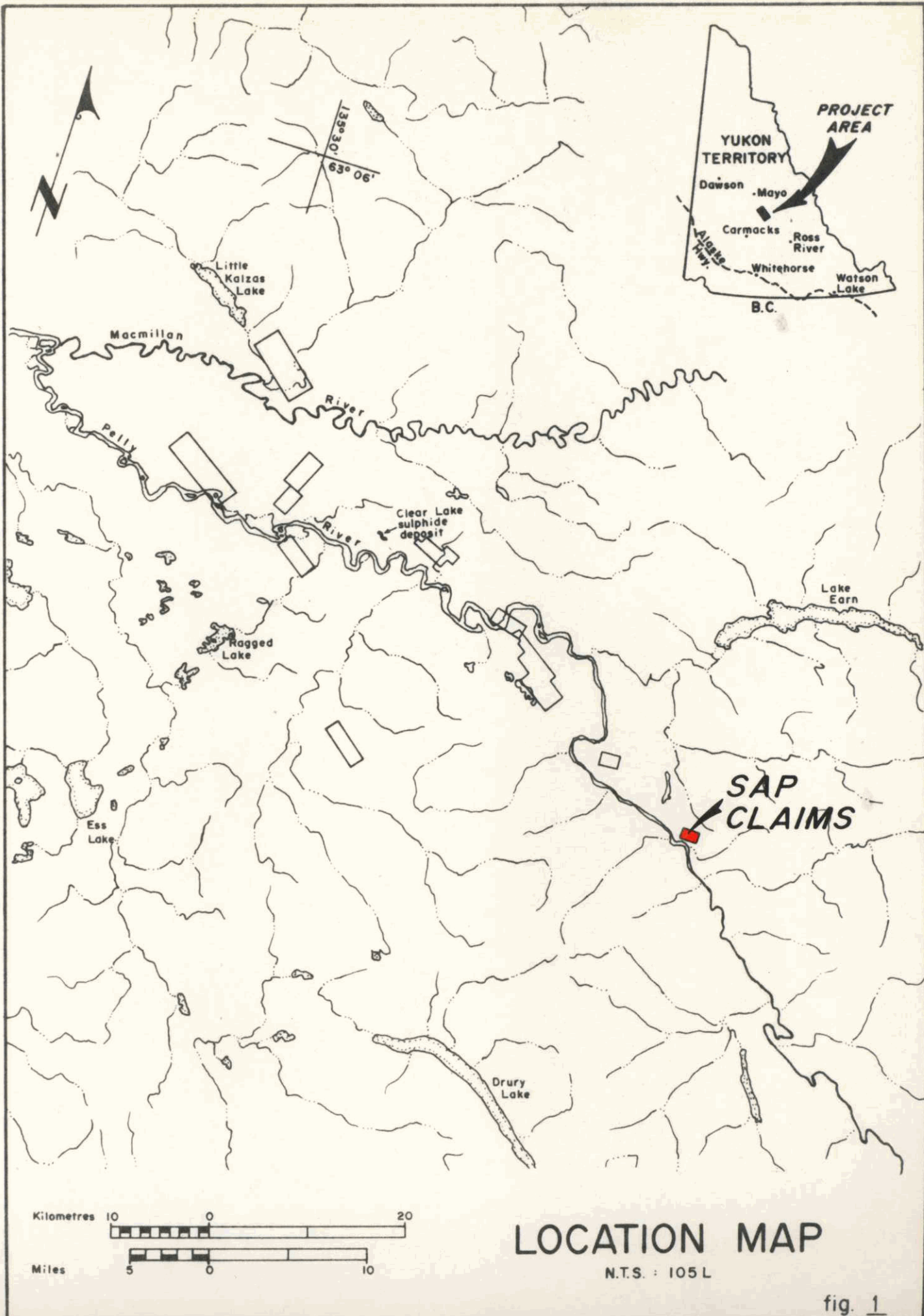
this 25 day of August 1980

Blake S. Macdonald  
Notary Public

Blake S. Macdonald  
Applicant

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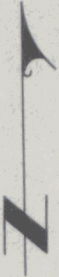
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# LOCATION MAP

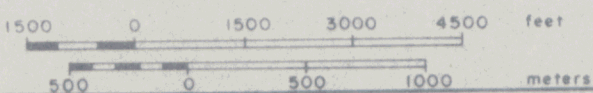
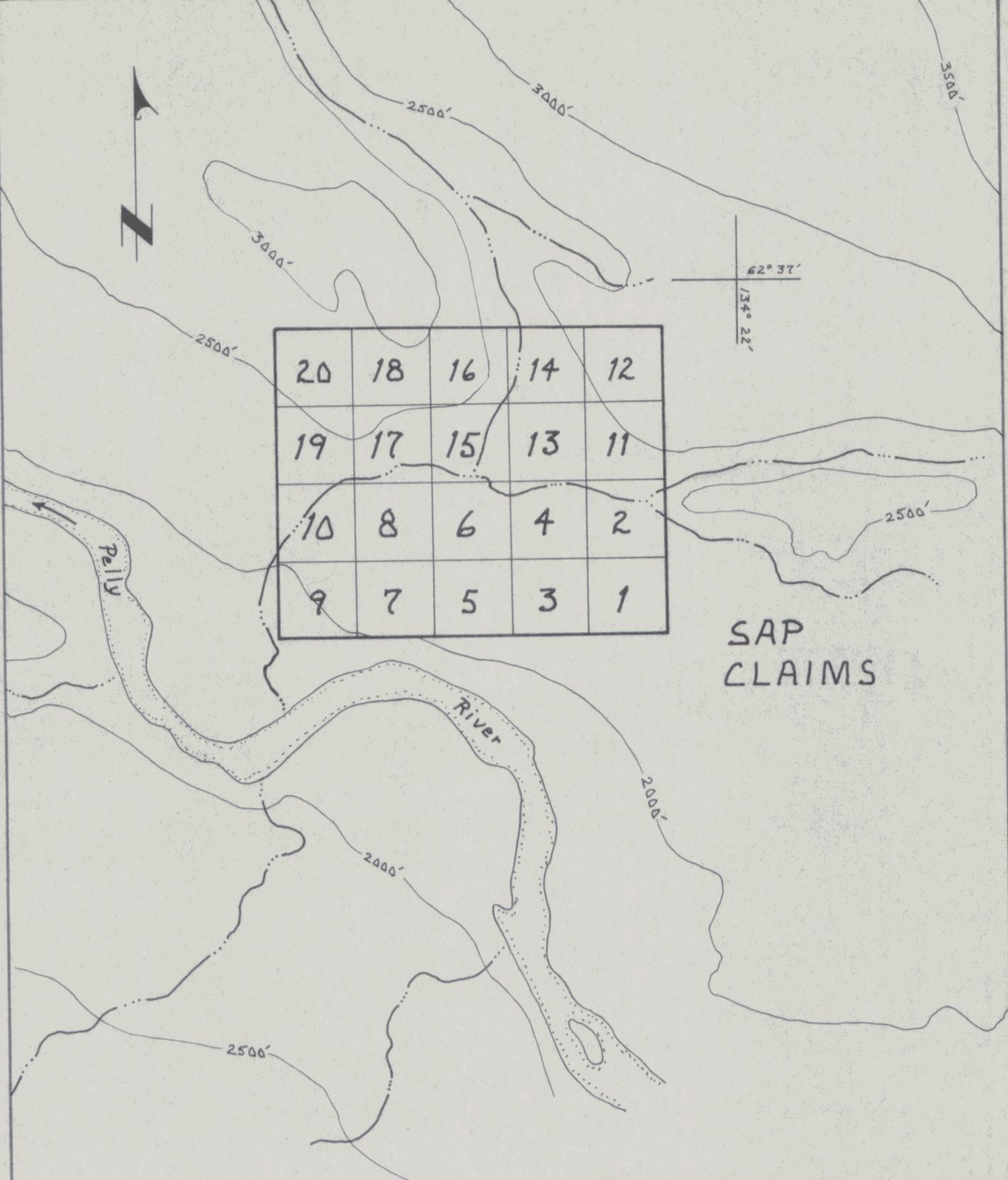
N.T.S. : 105 L


fig. 1



20	18	16	14	12
19	17	15	13	11
10	8	6	4	2
9	7	5	3	1

SAP  
CLAIMS



	WELCOME NORTH MINES LTD.		
PELLY PROJECT			
CLAIM MAP			
Scale	1:31,680	Date	NOV. 1980
Revised		By	G.H.R./d.h.
		Fig.	2

NTS 105L/9

CONCLUSIONS

The geological 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

Since the property lies in a favourable geological environment near the Clear Lake massive sulphide deposit, it is recommended that the claims be retained in good standing pending further development in the area.

If further work is required to maintain the claims in good standing this further work should consist of detailed prospecting and geological mapping.

## INTRODUCTION

The SAP 1-20 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° 36'N, Longitude 134° 24'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 Exploration 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 surveys were flown over a portion of the district in April of 1980 for the Pelly Project.

#### GEOLOGY

The detailed geology of the area is poorly understood. In general the area is underlain by somewhat schistose rocks of the Askin Group and by Anvil Range volcanics and shale. These older rocks have been cut by substantial monzonitic intrusives of presumed cretaceous age. According to G.S.C. mapping the SAP claims are underlain by rocks of the Anvil Group consisting of Volcanics and shale.

GEOCHEMISTRY

Discussion of Method

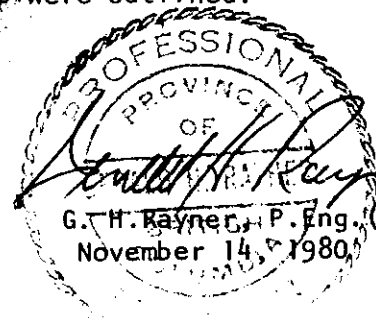
The soil samples were taken at 100 metre intervals along flagged grid lines 400 metres apart. A short handled grub hoe was used to collect the sample. Whenever possible the B<sup>2</sup> horizon was collected although in some areas only A<sup>2</sup> material was available. Throughout the district the 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 Absorbtion Spectrometre 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.



A circular professional seal for the Province of British Columbia. The outer ring contains the text "PROFESSIONAL ENGINEER" and "PROVINCE OF BRITISH COLUMBIA". The center features a signature in cursive. Below the signature, the text reads "G. H. Rayner, P. Eng. (B.C.)" and "November 14, 1980".

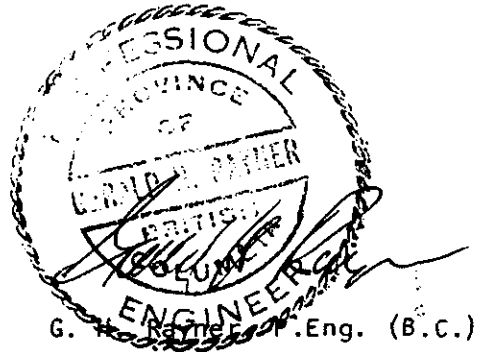
G. H. Rayner, P. Eng. (B.C.)  
November 14, 1980

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 SAP 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

SAP Claims

Claim Sheet 105L9

Location 62° 36' 30" 134° 24'

Mining District - Whitehorse

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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

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## 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
PELLY	July 15 - August 4
WHIP	July 15 - August 4
VSE	July 15 - August 4
<u>SAP</u>	<u>July 15 - August 4</u>
HUGH	August 1 - August 8
GRAF	August 2 - August 8
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 9-16 Lash Ladue 17-20 Jerry Ladue
VSE	1- 75 YA25400, YA48001- YA48134	
WHIP	1- 30 YA48135-YA48164	
PELLY	2- 20 YA48165-YA48185	
PVA	1- 24 YA25331-YA25354	
RSVP	1- 32 YA25299-YA25322	
GRAF	1- 36	
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 July 10 - August 14
John Tommy	July 27 - August 3 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 July 27 - August 8

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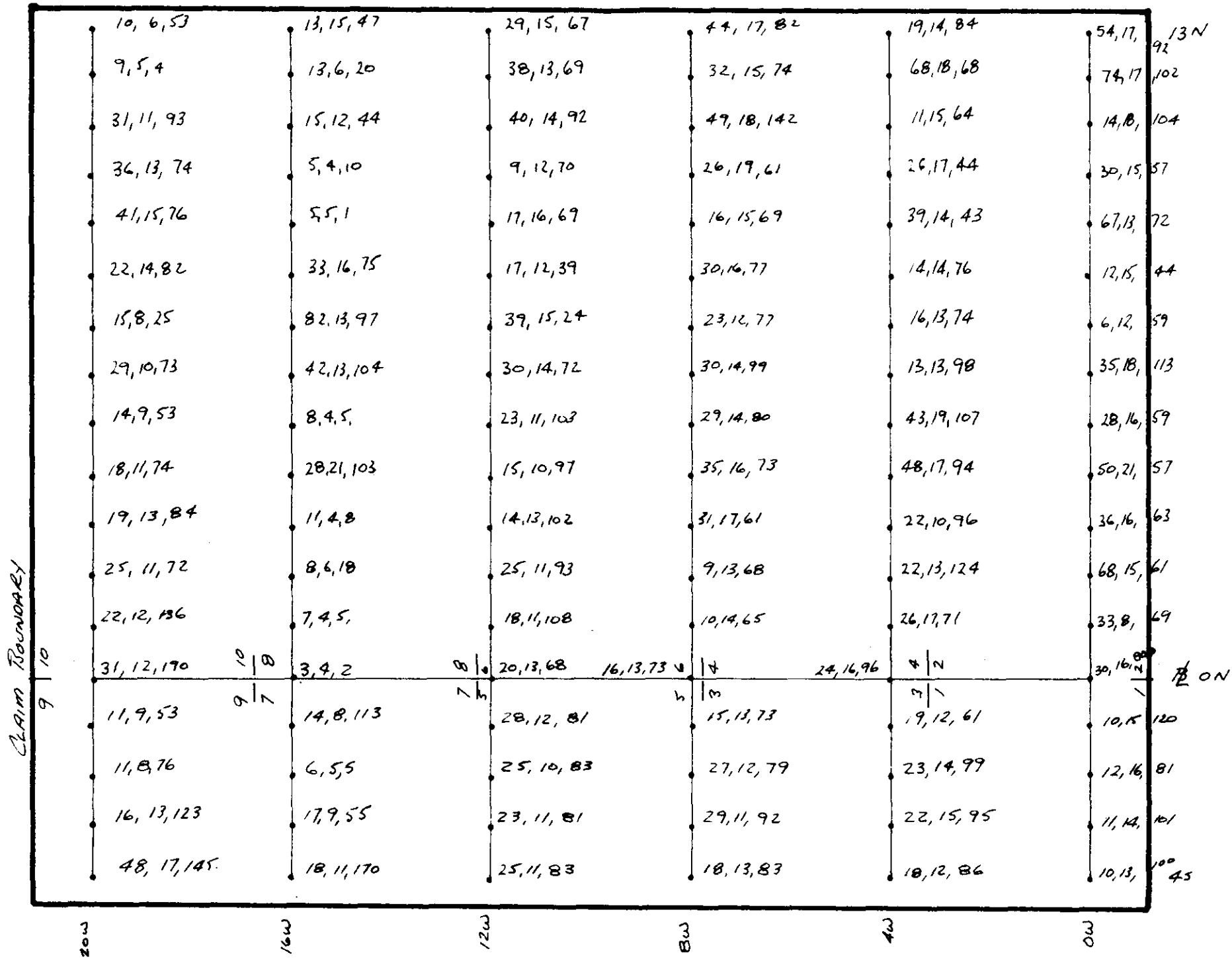
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## STATEMENT OF COSTS

### INVOICE

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

<u>Claim Name</u>	<u>Number of Claims</u>
SAP	20
Helicopter.....	\$ 981.54
Chain & Compass Grid	
12.2 Km @ \$145.00/Km.....	1,769.00
Geochem Samples	
108 Samples @ 3.80/Sample.....	410.40
Fuel \$ / \$ Flying	
0.07 X 981.54.....	68.71
Fixed Wing	
\$4.53 X Claim 20.....	90.60
Freight	
\$0.62 X Claim 20.....	12.40
Report preparation costs, including map printing, photocopies, folders, drafting service.....	100.00
TOTAL	\$3,432.65
COST/CLAIM	\$171.63



S.F.P. CLAIMS 1-20 GEOCHEM VALUES		
SCALE: 1-10000	APPROVED BY:	DRAWN BY KEL
DATE: SEPT 6/80		REVISED
Cu, Pb, Zn, P.F.M.		
WHITEHORSE MINING DISTRICT 105L9		DRAWING NUMBER