



REPORT ON THE GEOCHEMICAL SURVEY

CONDUCTED ON THE

KON CLAIMS - CLAIM SHEET 105F/9 - LOCATION 61°-32' -132°-15'

WATSON LAKE MINING DISTRICT
YUKON TERRITORY

OF

KETZA RIVER MINES LIMITED

DURING 1981

BY

MICHAEL ZUROWSKI B.Sc., P.Eng.
Exploration Manager

March 5th, 1982.
Toronto, Ontario.



090953

This report has been examined by
the Geological Evaluation Unit
in Section 53 (4), Yukon Quartz
Act and is offered as
evidence for work to the amount
of \$ 2,200.

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



P. O. Box 269
Watson Lake, Yukon
Y0A 1C0

6 January, 1982



Your file Votre référence

Our file Notre référence

Regional Director Resources
200 Range Road
Whitehorse, Yukon
Y1A 3V1

Dear Sir:

*returned reports
to W.L.M.R.*

RE: Geochemical Report - Kon Mineral Claims
Ketza Enterprises Ltd.

The above report was submitted by Ketza Enterprises for assessment of the KON mineral claims located on claim sheet 105-F-9. I would like to bring the following to your attention:

- 1) Sec. 6(b)(viii) of the Schedule of Representation Work states that the report is to be an interpretation of the data collected during the survey. Mr. Macdonald, the writer, states that he did not try to interpret the results.
- 2) Sec. 6(b)(x) of the Schedule states that surveys are to be conducted under the supervision of a qualified person and reports are to be written by a properly qualified person who shall include in the report a statement of his qualifications. To my knowledge, Mr. Macdonald is not qualified to write this report.
- 3) Report does not appear to conform to the items required to be in a Geochemical survey as per Section 6(b)(xv) of the schedule.

It is my opinion that this report is unsatisfactory in its present form to be used for assessment credit. Total credit requested is \$2,200.00.

Yours truly,

Patti L. McLeod
Mining Recorder
Watson Lake Mining District

PLM/pj

090953

TO: Patti L McLeod
Mining Recorder
Watson Lake Mining District

FROM: Pat Watson
Staff Geologist
Whitehorse

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE - N/RÉFÉRENCE
YOUR FILE - V/RÉFÉRENCE
DATE January 12, 1982

SUBJECT: re: Geochemical report- KON Mineral Claims
OBJET: Katza Enterprises Ltd.

Dear Patti:

I agree with your assessment of this report. There are numerous items lacking. Perhaps you could return the reports to Blake MacDonald along with a copy of the schedule of representation work with the appropriate items indicated. (I am new at this, so if this is not accepted practice, than do what ever you feel is appropriate).

When I evaluated the report I found the following lacking:

1. there is no list of claims by name and tag number (6(b)(vii)) (I can't find the tag numbers anywhere in the report.)
2. 6(b)(viii) as you stated.
3. 6(b)(ix) There is only one plan in this report and it contains no topography or indication of lat/Long (not required). Usually 2 additional plans would be submitted; one of the claims with topography, and one of the claim group located within the Yukon.) (again, this is not explicitly required, but is the way most companies comply with the schedule.)
4. 6(b)(x) I believe this report needs some input from Conwest Explorations Ltd., as he states on page one that Katza Enterprises Ltd. was "employed and supervised by Conwest Explorations Ltd" If this is the case, than Conwest should provide the interpretation and a statement of qualifications.
5. 6(b)(xv) As an extension of 4., information is lacking for sections a) references to available geology, and d) interpretation of results.

Although not of critical importance, if they are resubmitting the report they may want to correct the two invoices indicating analyses of Ag twice (one should be Ag and one As).

Hopefully, if the omissions are pointed out to them, and the scheduled requirements shown to them, they will be able to conform. Individually many of these points are very minor, but we might as well indicate them all, since we must request additional information anyway.

Pat Watson



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.)

I (Name)	Blake S. Macdonald	Occupation	President
(Postal Address)	Ketza Enterprises Ltd., Ross River, Y.T.		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:

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

KON 1 - 22 inclusive

situated at Ketza River Claim Sheet No. 105 F 9
in the Watson Lake Mining District, to the value of at least \$2,500.00
dollars, since the twentieth day of August 19 81.

to represent the following mineral claims ~~under the authority of Grouping Certificate No. x~~
(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
Kon	1-22	YA56473 - YA56494	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 August 29th, 1981, ended September 1st, 1981.
- all invoices not received as yet, approximate value \$115.00/claim. Map, assays, reports, etc. to follow by October 31st, 1981
- assays expected 3 - 5 weeks late

Sworn before me at Ross River, Yukon
this 11th day of September 1981.

Blake S. Macdonald
Notary Public

Blake S. Macdonald
Applicant

TABLE OF CONTENTS

	<u>Page</u>
Introduction	1
Conclusions and Recommendations	1
Property and Location	1-2
Access, Topography, etc.	2
Property Geology and Structure	3-4
Economic Geology	4
History	5
Geochemical Soil Survey	5
(a) Purpose	5
(b) Method of Survey and Sample Collection	6
(c) Method of Analysis and Presentation of Results	6-7
Discussion of Geochemical Results	7-8
 <u>Appendix I - Details of Geochem. Survey</u>	
(a) Personnel Employed	
(b) Compass Line Mileage	
(c) Summary of Expenditures	
(d) Copy of Analyses Reports	
Map Enclosure - Plan of Geochem. Survey	

REPORT ON THE GEOCHEMICAL SURVEY
KON CLAIMS - WATSON LAKE MINING DIVISION - YUKON
KETZA RIVER MINES LIMITED

Introduction

The purpose of the geochemical survey was to fulfil annual assessment requirements and to provide basic information as to the quality of geochemical response within the subject geological terrain.

The survey was conducted during the period August 29th to September 1st, 1981 by Ketz Enterprises Limited, under the direction of the author of this report.

Conclusions and Recommendations

Inasmuch as the principal objective of the expenditures for the geochemical survey was to meet annual assessment requirements the basic results proved to be of significant interest to validate the survey method as a reliable exploration tool.

In the future geochemical survey work on the subject acreage, the addition of antimony and copper would be advisable to the five elements analysed for in the present limited survey.

Grids orientated at right angles to geological structure would provide the most valuable data as to the possible presence of hidden or blind gold bearing zones.

Property and Location

Ketza River Mines Limited owns a 100% interest in 29 mining leases and 22 unsurveyed mining claims in two separate groups located in the Ketza River area, Watson Lake Mining Division in the Yukon Territory.

The largest of the group consists of 23 leases and 22 unsurveyed claims. The group covers the area drained by Cache and Peel creeks, westerly-flowing tributaries to the Ketza River.

The second group of claims is one and one-half miles east of the largest group, at its closest point.

The unsurveyed claims, which form the largest of the Ketz River Mines Limited properties and which is the subject of this report, are named and hold grant numbers as listed below:

<u>Claim Name</u>	<u>Grant Numbers</u>
KON 1-3	YA 56473 - 56475 incl.
KON 4F	YA 56476
KON 5-21	YA 56477 - YA 56493 incl.
KON 22F	YA 56494

The total area of the Kon claims is approximately 1,000 acres.

The claims are depicted on claims sheet 105F/9 entitled Cloutier Creek.

Access, Topography, etc.

The Ketz River Mines properties are readily accessible from the village of Ross River, Yukon Territory either by four-wheel drive vehicle or by helicopter.

By air, the distance to the property is about 32 air miles. By vehicle, via the Robert Campbell highway and the Ketz River road, it is about 44 road miles. The Ketz River road primarily serves the operations of Iona Silver Mines Limited (N.P.L.). This company also maintained an airstrip along the west bank of the Ketz River favourable for the landing of STOL type aircraft.

The Ketz River Mines properties lie at an elevation varying from 4,000 to 6,000 feet and along the west margins of the Pelly Mountain range. The area is only very lightly forested.

Property Geology and Structure

The general geology of the Ketz River Mines claims is best described by J. R. Woodcock, which description follows a program of geological mapping conducted during the 1955 field season. Woodcock's description and stratigraphic column for the area is presented herewith. No further detailed mapping has been conducted in the area which would alter these early geological interpretations.

"Sedimentary rocks representing a large part of the Paleozoic Era have been mapped in the Ketz River area. A stratigraphic column, based partly on fossil evidence, has been drawn. Although the section appears to hold for the map area, it does not preclude possibilities of additional members or of complication by overturning. Structure in the incompetent members is complex in places and correlation across some of the valleys is very difficult." (1)

Stratigraphic Column

Volcanics:	Volcanic rubble Volcanic flow breccia and lavas
	- unconformity -
Ridge Formation:	Intercalated limy phyllite and greenstones
Ketz Formation:	Slates, argillites, cherts, greywacke, quartzite
	- unconformity -
Devonian Sediments:	Massive fossiliferous limestone, quartzite and slates
	- unconformity?? -
Hoey Quartzite	Massive quartzite
Mt. Misery Formation	Dolomite (ordivician or silurian); massive quartzite
	- unconformity -
Cambrian Limey Sediments:	Phyllites, slates, thinnly bedded dolomite, massive fossiliferous limestone, thinnly bedded phyllitic limestone
Mt. Fury Formation	Thinnly bedded quartzites, slates, argillites, cherts.

cont...

The structure of the Paleozoic rocks within the Ketz River Mines property is a synclinal fold that trends east-west with its axis more or less paralleling the trend of Cache Creek. It has a gentle plunge to the east.

Faults are prevalent and probably cause more disruption to strata than folding. Three sets of faults are prevalent varying in strike from 120° to 160° and with steep dips.

Economic Geology

Gold mineralization within the present holdings of Ketz River Mines Limited consists primarily of two types.

1. Gold in massive sulphide concentrations of arsenopyrite, pyrrhotite and pyrite. These sulphides are localized along fault zones and occur as replacements and fracture infillings in Cambrian dolomites.
2. Gold and pyrrhotite associated with ankeritic carbonate veins.

From an economic viewpoint those of (1) appear to be the most significant as they may contain some size. The Peel 3 and Peel 3C deposits located on mineral claims Peel 3 and Fury 30 exemplify type 1.

Additionally, mineralization on claim Kon 14 is also of type 1.

cont...

History

Exploratory work during the 1955-1959 period on the present Kon claims uncovered some interesting gold mineralization with the best mineralization on claim Kon 14. A flat lying oxidized and leached sulphide replacement zone in Cambrian dolomite, measuring about 200 feet by 100 feet in area, was investigated by seven (7) short diamond drill holes. Core recovery was poor, but values varied from 0.02 to 0.31 oz. gold per ton. The zone is open in several directions. Sulphide float, on claims Kon 10, 13 and 14, is a strong indication of additional occurrences in the immediate area.

Acquisition of the Kon claims was primarily on the basis to cover previous known occurrences and to cover favourable geology for the possible presence of other occurrences.

Geochemical Soil Survey

(a) Purpose

The purpose of the survey was two-fold. To fulfil assessment work requirements and to obtain some background information as to the quality of the geochemical response on the subject claims.

It should be noted that geochemistry was not used as an exploration method during the 1955-1959 period in the exploration of the Ketz River Mines holdings.

(b) Method of Survey and Sample Collection

Chained compass lines were laid out to provide the desired coverage of the Kon claims. These lines were tied in with established surveyed claim posts. Stations along those lines were flagged at 100 or 150 metre intervals.

Samples representing the B soil horizon were taken using a matlock. In most instances the B soil horizon lies just beneath the volcanic ash and A soil horizon, at a depth of 12-18 inches. Samples were placed in draft envelopes and properly identified. A total of 58 soil samples were taken to provide the desired coverage.

(c) Method of Analysis and Presentation of Results

The samples were analysed for lead, zinc, gold, silver and arsenic. Each sample was dried sieved to minus 80 mesh and subjected to digestion by appropriate oxidizing reagent, cooled and analysed by either atomic absorption spectrometer or hydrodegeneration for the respective forementioned elements.

The results in ppm for each metal were plotted on a plan of 1" = 1,000' at each respective sample point. Probable anomalous values for respective elements were indicated by a respective colour.

Because of the limited sample points, contoured plans for each analysed element could not be presented. However, the mean average and probable anomalous value for each of the elements analysed for are tabulated below:

<u>Element</u>	<u>Mean Value</u>	<u>Probable Anomalous Value</u>
AG	Not applicable (1)	> 1.00 ppm
Au	0.15 ppm	> 0.30 ppm
Pb	50 ppm	>100 ppm

<u>Element</u>	<u>Mean Value</u>	<u>Probable Anomalous Value</u>
Zn	118 ppm	> 236 ppm
AS	660 ppm	> 1320 ppm

(1) No silver detected in the majority of the samples.

Discussion of Geochemical Results

Anomalous responses for arsenic, gold, silver and Pb-Zn are primarily concentrated in Kon claims numbered 8, 9, 10, 11 and 12. These responses correspond to areas containing gold bearing sulphide float and a gold sulphide occurrence investigated by diamond drilling in 1958.

Traverse lines in the area were primarily parallel to strikes of known mineralization. Consequently, additional soil sampling orientated at right angles to mineralized trends, namely NE-SW, with closer line interval and sample spacing should provide valuable data as to outlines of potential mineralized zones for further evaluation by other methods.


On claims Kon 2 and Kon 18, some anomalous values were obtained in lead, gold and silver. However, all responses were at different sample locations and not one sample indicated anomalous values in all elements.

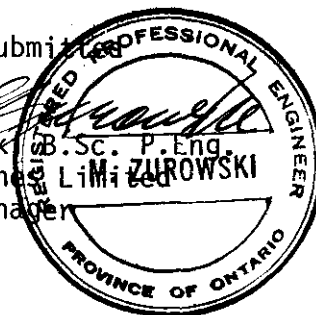
On the whole, the limited geochemical surveying performed indicates that soil geochemistry is a valid tool in exploring for gold deposits on Ketzá River Mines property. Arsenic, lead, zinc with the addition of antimony and copper together with gold and silver would be adequate

cont.....

pathfinder elements in any future soil geochemical survey of the Ketz River Mines holdings.

Respectfully submitted,


Michael Zurowski, B.Sc. P.Eng.
Ketz River Mines Limited
Exploration Manager



Toronto, Ontario.
March 5th, 1982.

References:

1. Report on the Ketz River area for 1955 Field Season
by J. R. Woodcock, P.Eng.
2. Report on the Ketz River Property for 1958 by
D. C. Rotherham
3. Report on the Ketz River Property for 1959 by
D. C. Rotherham

Appendix I

DETAILS OF GEOCHEMICAL SURVEY

(a) Personnel Employed

Personnel employed to establish survey lines for control and the procurement of samples were that of Ketzka Enterprises Limited of Ross River, Yukon Territory. They are as follows:

<u>Name</u>	<u>Period Employed</u>
Blake MacDonald	August 29th and August 30th, 1981
Ron Etzel	August 29th to September 1st, 1981
Kurt Dieckmann	August 29th to September 1st, 1981

(b) Total mileage of Chained compass lines 7.2 miles.

(c) Summary of Expenditures

\$2,804.79 as represented by Ketzka Enterprises Limited account and other supporting documents, which are all appended.

(d) Geochem Analyses Report appended.

KETZA ENTERPRISES LTD.

ROSS RIVER
YUKON, Y0B 1S0

BLAKE S. MACDONALD, Pres.

PHONE [403] 969-2237

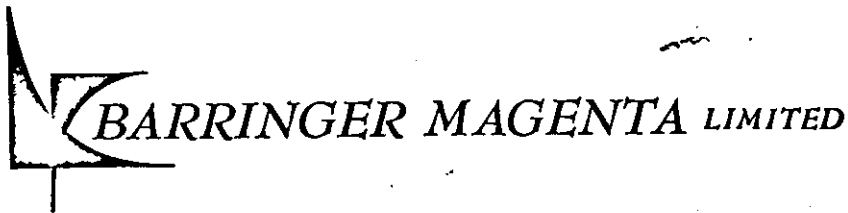
Page Seven

INVOICE

TO: Conwest Explorations Ltd.,
1010 - 85 Richmand St. W.,
Toronto, Ontario,
M5H 2G1

<u>Claim Name</u>	<u>Number of Claims</u>
KON	22
Helicopter	\$253.29
Chain & Compass grid 11.9 Km @ \$145.00/km	1,725.50
Geochem Samples	
58 Au samples @ \$5.00 ea. ...	290.00
58 Az, pb, Zn samples @ \$3.70 ea.	214.60
54 Az samples @ \$4.10 ea. ...	221.40
Report preparation costs, including map printing, photocopies, folders, drafting service	100.00
TOTAL	\$2,804.79
COST/CLAIM ...	\$ 127.49

FILE NUMBER:



304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO
 CANADA M9W 5G2
 PHONE: 416-675-3870
 TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: October 27, 1981

PROJECT: 101.54

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 81-55WW

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

- Ketz Enterprises Limited
 Ross River
- Yukon
 YoB lSo

TERMS: NET 30 Days

AUTHORITY: B. MacDonald Kon Claims

TO: ANALYSES

58 Au analyses	@ \$ 5.00	\$ 290.00
58 Az, pb, Zn analyses	3.70	214.60
54 As "	4.10	221.40
TOTAL INVOICE		<u>\$ 726.00</u>



AUTHORITY: B. MACDONALD

26/OCT/81
 PAGE 1 OF 3
 WORK ORDER # 055W-81

Conwest Explorations Ltd.,
 c/o Ketz Enterprises Ltd.,
 Ross River, Yukon

FINAL REPORT

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:

SOIL

SAMPLE #	AG PPM	AS PPM	AU PPM	PB PPM	ZN PPM
0+00N					
00+00E	N D	I S	.05	9.	42.
01+50E	N D	310.	.06	12.	40.
03+00E	N D	170.	.06	42.	106.
04+50E	N D	1500.	.22	N D	28.
06+00E	N D	570.	.08	8.	64.
07+50E	N D	1550.	.1	36.	165.
09+00E	.4	140.	.2	21.	48.
10+50E	1.4	2300.	.28	400.	480.
12+00E	1.2	1200.	.07	350.	430.
13+50E	.8	I S	.06	110.	76.
15+00E	N D	310.	.08	42.	60.
16+50E	N D	420.	.08	19.	57.
18+00E	N D	150.	.07	15.	65.
19+50E	N D	640.	.11	70.	117.
21+00E	N D	I S	.2	49.	52.
22+50E	.7	280.	.06	21.	74.
4+50N					
01+00E	N D	170.	.04	2.	43.
02+00E	.8	5000.	2.6	10.	60.
03+00E	.4	4800.	1.35	N D	58.
04+00E	.6	I S	.24	470.	40.
05+00E	N D	1200.	.12	16.	163.
06+00E	.4	1900.	.18	41.	105.
07+00E	N D	4900.	.4	180.	131.
9+00N					
01+00E	N D	60.	.08	24.	197.
02+00E	N D	25.	.06	12.	64.
03+00E	N D	5.	.07	9.	70.
04+00E	N D	48.	.05	4.	36.

*P=QUESTIONABLE PRECISION; *I=INTERFERENCE; *Z=POSTED AS Z; T=TRACE; ND=NOT DETECTED; NA=NOT ANALYZED; IS=INSUFFICIENT SAMPLE; MS=MISSING SAMPLE



26/OCT/81
 PAGE 2 OF 3
 WORK ORDER # 055W-81

AUTHORITY: B. MACDONALD

Conwest Explorations Ltd.
 c/o Ketz Enterprises Ltd.
 Ross River, Yukon

FINAL REPORT

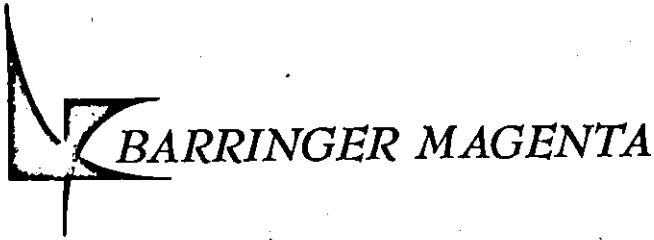
G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:

SOIL

SAMPLE #	AG PPM	AS PPM	AU PPM	PB PPM	ZN PPM
9+00N					
27+00E	N D	150.	.18	24.	67.
28+50E	N D	260.	.08	4.	32.
30+00E	.2	170.	.1	33.	64.
31+50E	N D	390.	.07	42.	92.
11+50E					
16+00N	1.2	19.	.06	40.	460.
13+50N					
00+00E	N D	218.	.08	14.	72.
01+00E	.4	14.	.06	10.	81.
02+00E	N D	20.	.08	19.	63.
03+00E	N D	33.	.06	19.	83.
04+00E	N D	32.	.08	8.	110.
05+00E	N D	34.	.12	13.	89.
06+00E	N D	17.	.1	13.	155.
16+00N					
39+00E	N D	260.	.08	38.	72.
40+00E	N D	180.	.36	54.	129.
41+00E	1.8	390.	.07	53.	165.
42+00E	N D	600.	.06	60.	570.
43+00E	N D	880.	.05	80.	1080.
44+00E	N D	320.	.01	110.	133.
17+50N					
11+50E	.4	62.	<.01	22.	176.
13+00E	.4	44.	<.01	42.	350.
14+00E	.6	30.	<.01	28.	320.
22+00E	N D	710.	.01	23.	72.
23+00E	N D	1150.	.02	10.	43.
24+00E	N D	62.	.01	10.	58.
25+00E	N D	560.	.03	36.	73.

*P=QUESTIONABLE PRECISION; *I=INTERFERENCE; *Z=POSTED AS Z; T=TRACE; ND=NOT DETECTED; NA=NOT ANALYZED; IS=INSUFFICIENT SAMPLE; MS=MISSING SAMPLE



BARRINGER MAGENTA LIMITED
 OFFICES & MINERALS
 LABORATORY:
 3750 - 19th ST., N.E., SUITE 105
 CALGARY, ALBERTA T2E 6V2
 PHONE: (403) 278-9701
 TELEX: 03-827584

AUTHORITY: B. MACDONALD

26/OCT/81
 PAGE 3 OF 3
 WORK ORDER # 055W-81

Conwest Explorations Ltd.
 c/o Ketzta Enterprises Ltd.
 Ross River, Yukon

FINAL REPORT

G E O C H E M I C A L L A B O R A T O R Y R E P O R T

SAMPLE TYPE:

SOIL

SAMPLE #	AG PPM	AS PPM	AU PPM	PB PPM	ZN PPM
17+50N					
26+00E	N D	100.	<.01	N D	13.
27+00E	N D	540.	.01	10.	44.
22+50N					
01+50N	N D	380.	.05	48.	70.
03+00N	N D	230.	.03	18.	47.
BL-0E					
04+50N	N D	40.	.01	8.	52.
00+00N	N D	74.	<.01	32.	116.

*P=QUESTIONABLE PRECISION; *I=INTERFERENCE; *Z=POSTED AS %; T=TRACE; ND=NOT DETECTED; NA=NOT ANALYZED; IS=INSUFFICIENT SAMPLE; NS=MISSING SAMPLE

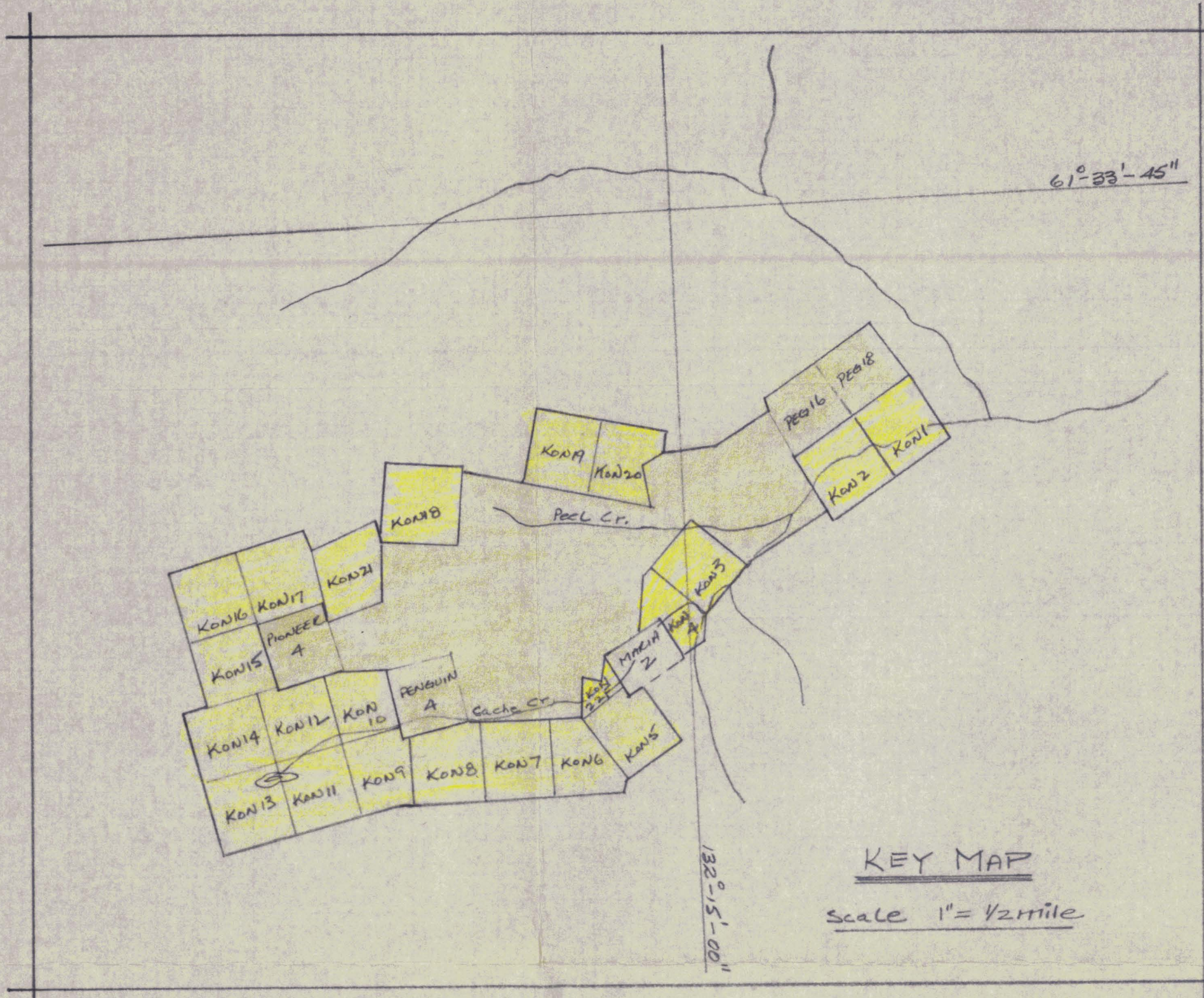
CERTIFICATE OF QUALIFICATION

I, MICHAEL ZUROWSKI, of the City of Toronto, in the Province of Ontario, hereby certify:

1. That I am a Geological Engineer and reside at 36 Apple Orchard Park, Thornhill, Ontario.
2. That I am a registered Professional Engineer of the Province of Ontario.
3. That I am a graduate of the University and hold a Bachelor of Science degree in Geological Engineering and that I have been practising my profession for the past 32 years.
4. That I have been employed by the Conwest Group of companies since 1975 and prior to 1975 I was employed by International Mogul Mines Limited. My present position with the Conwest Group is that of Exploration Manager.
5. That the accompanying report is based on intimate knowledge of the property through its past history and supervision of the exploration work recently completed. The property was visited in September, 1981.

Dated at Toronto this 5th day of March, 1982.





- SYMBOLS**
- GEOCHEMICAL SOIL SAMPLE LOCATION (ELEMENTS IN PPM; N means Not Detected)
 - COMPASS & CHAIN LINE WITH SAMPLE LOCATION
 - ANOMALOUS VALUES COLORED IN BLUE
 - KON CLAIMS
 - KETA RIVER MINES LTD (LEASED CLAIMS)
 - GOLD-SULPHIDE ZONE

KETA RIVER MINES LIMITED.

KON CLAIMS - WATSON LAKE MINING DIVISION - YUKON

PLAN OF GEOCHEMICAL SURVEY.

DATE: March 1982 N.T.S. - 105 P/S - DRAWN BY: M. ZUROWSKI

SCALE - 1" = 1000'

