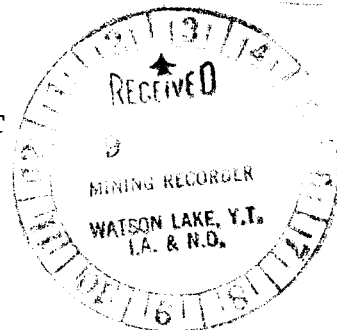


GEOCHEMICAL ASSESSMENT REPORT

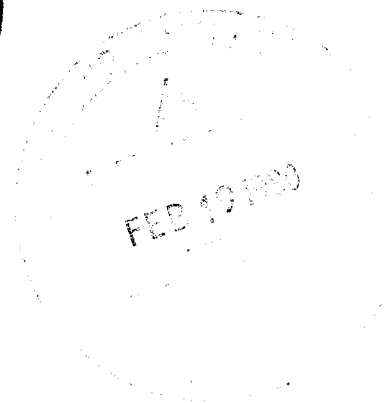
SEQUOIA and TAKU claims



105 F 10

61°45'N

132°38'W



Noranda Exploration Company Limited
(No Personal Liability)

G. Macdonald

December 1979

090576

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

\$ 3,250.00

J A Morin

Resident Geologist or
Resident Mining Engineer

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

B. R. Baxter
B. R. BAXTER
Supervising Mining Recorder

[Signature]
Commissioner of Yukon Territory

TABLE OF CONTENTS

INTRODUCTION

Figure 1 - Location Map

Figure 2 - Claim Map

GEOCHEMICAL SOIL SURVEY

CONCLUSIONS AND RECOMMENDATIONS

APPENDICES:

Statement of Qualifications

Statement of Costs

MAPS IN POCKET:

Geochemical Results (Pb, Zn)

Geochemical Results (Cu, Mo)

GEOCHEMICAL ASSESSMENT REPORT

on

TAKU and SEQUOIA claims

INTRODUCTION

The claims referred to in this report are registered in the name of Noranda Exploration Company Limited (No Personal Liability). The claims comprise the following:

TAKU 1, 2	YA28145/46
TAKU 23	YA28167
TAKU 45-52	YA34860/67
TAKU 53-57	YA35513/17
TAKU 59	YA35519
SEQUOIA 1-8	YA28189-96

The property is located near Seagull Lakes, 25 miles southwest of Ross River, Yukon Territory. Access is by helicopter from Ross River.

The property was grid soil sampled between July 16-22, 1979 by Consolidated Ventures of Whitehorse, as contractor to Noranda.

GEOCHEMICAL SOIL SURVEY

All soils were analyzed for copper, lead, zinc and molybdenum in the Noranda Exploration Company Limited laboratory located at 1050 Davie Street, Vancouver, British Columbia; analyst was Evert Van Leeuwen.

Sampling Method

Samples were obtained by digging holes with a maddock to a depth, if feasible, where the visible B horizon or sub-outcrop was encountered. The B horizon was sampled whenever possible. The samples were placed in

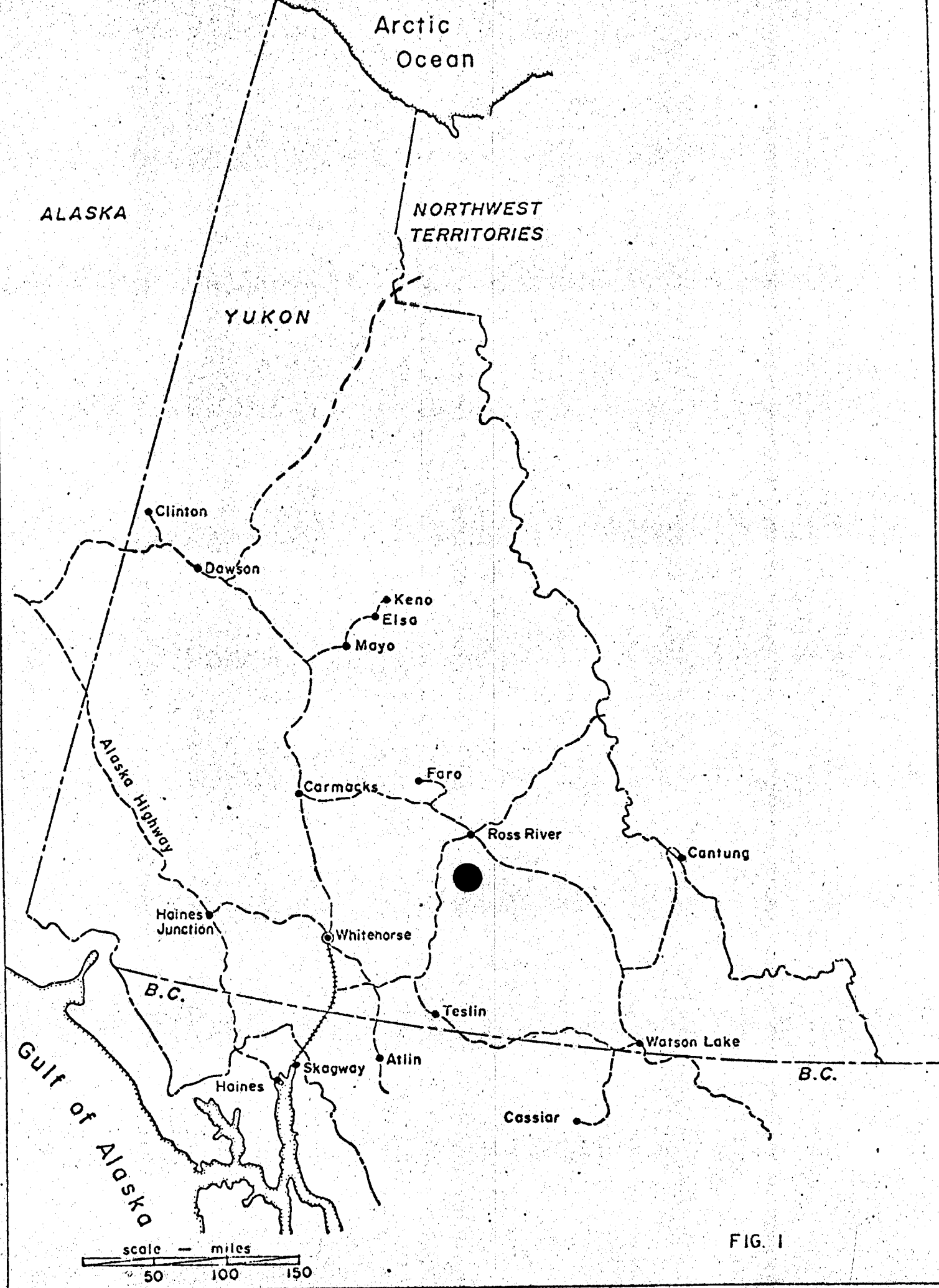
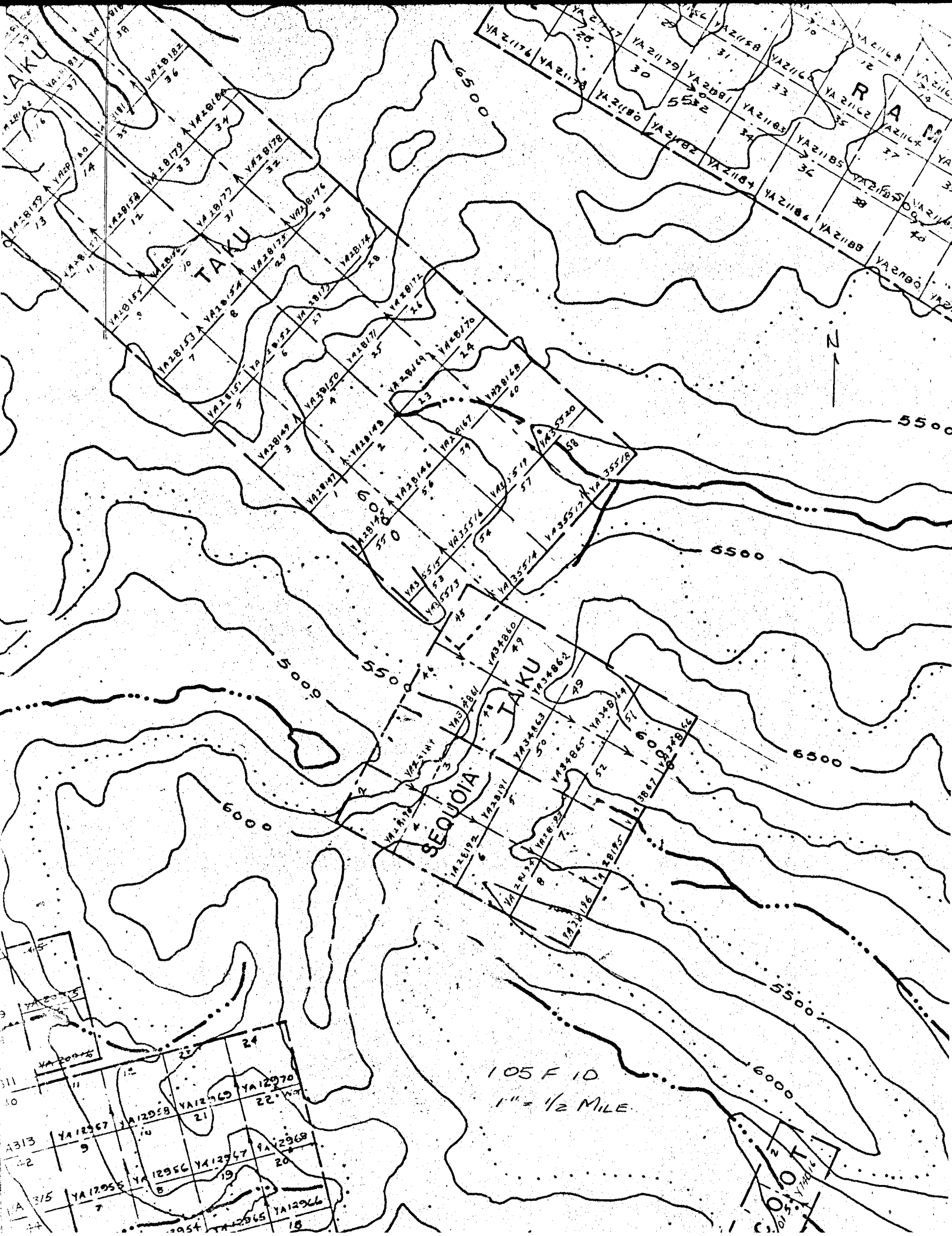


FIG. 1



TAKU

RAM

SEQUOIA

TAKU

105 F 10
1" = 1/2 MILE

105 F 10

"Hi Wet Strength Kraft 3½ x 6-1/8" Open End" envelopes and the grid station was marked on each envelope with indelible felt pen. Survey control was provided by fill-in lines on the 1978 grid.

Laboratory Determination Method

The samples are first placed in a drying cabinet for a period of 24 to 48 hours; the sample material is then screened and sifted to obtain a -80 mesh fraction. The determination procedure for total copper, lead, zinc and molybdenum is as follows:

0.200 grams of the -80 mesh material is digested in 2 ml of HClO_4 and 0.5 ml of HNO_3 for approximately 4 hours. Following digestion, each sample is diluted to 5 ml with de-mineralized H_2O . A varian Techtron model AA-5 Atomic Absorption Spectrophotometer was used to determine the parts per million copper, lead, zinc and molybdenum content in each sample.

The theory of Atomic Absorption Spectrophotometer is fully described in the literature and will not be elaborated upon in this report.

Discussion of Results

Geochemical results are presented on plans with a scale of 1:10000 (in pocket).

The fill-in soil geochemistry in 1979 confirmed and further defined anomalous areas indicated by the 1978 programme.

CONCLUSIONS AND RECOMMENDATIONS

Areas of anomalous Pb/Zn soil geochemistry are present on the property. Further work should be limited to trenching of known mineral occurrences and a magnetometer geophysical survey.

Submitted by: *G. Macdonald*
G. Macdonald,
Geologist.

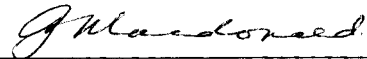
A P P E N D I C E S



STATEMENT OF QUALIFICATIONS

I, GLEN MACDONALD, of the City of Whitehorse in the Yukon Territory, DO
HEREBY CERTIFY that:

1. I have been employed as a Geologist by Noranda Exploration Company Limited (No Personal Liability) since May 1976.
2. I am a graduate of the University of British Columbia, with a Bachelor of Science degree in Geology.
3. I am a member of the Canadian Institute of Mining and Metallurgy.



G. Macdonald, Geologist,
Noranda Exploration Company Limited
(N.P.L.)

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT McConnell River

DATE December 1979

TYPE OF REPORT Geochem

a) Wages:

No. of Days

Rate per Day \$

Dates: from to

Total Wages x \$

b) Food and Accomodation:

No of days

Rate per day \$

Dates: from to

Total Cost x \$

c) Transportation:

No of days

Rate per day \$

Dates: from to

Total Cost X \$

d) Instrument Rental:

Type of Instrument

No of days

Rate per day \$

Dates: from to

Total Cost X \$

Type of Instrument

No of days

Rate per day \$

Dates: from to

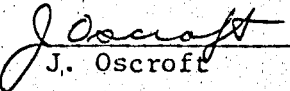
Total Cost X \$

f) Analysis (See attached schedule)		<u>1,197.80</u>
g) Cost of preparation of Report		
Author	200.00	
Drafting	157.00	
Typing	100.00	<u>457.00</u>
h) Other:		
Consolidated Ventures Contractors		
Line Preparation	4,152.89	
Geochem Sample Collection	606.38	
Aircraft to Transport Contractor	425.75	
Supervision: R.C. Heim P. Eng. PhD, G.E. Dirom P. Eng.	226.00	
		<u>5,411.02</u>
Total Cost		<u><u>7,065.82</u></u>

e) Unit costs for Line Preparation		
No of days		
No of units 32 Km		
Unit costs	147.1018 / Km	
Total Cost	32 Km x \$147.1018	<u>4,707.26</u>

Unit Cost for Geochem		
No. of Units	297 Samples	
Unit Cost	\$7.94127/Sam.	
Total Cost	297 X \$7.94127	<u>2,358.56</u>
		<u><u>7,065.82</u></u>

I certify the above costs of \$7,065.82 to be correct.


 J. Oscroft
 Assistant Accountant

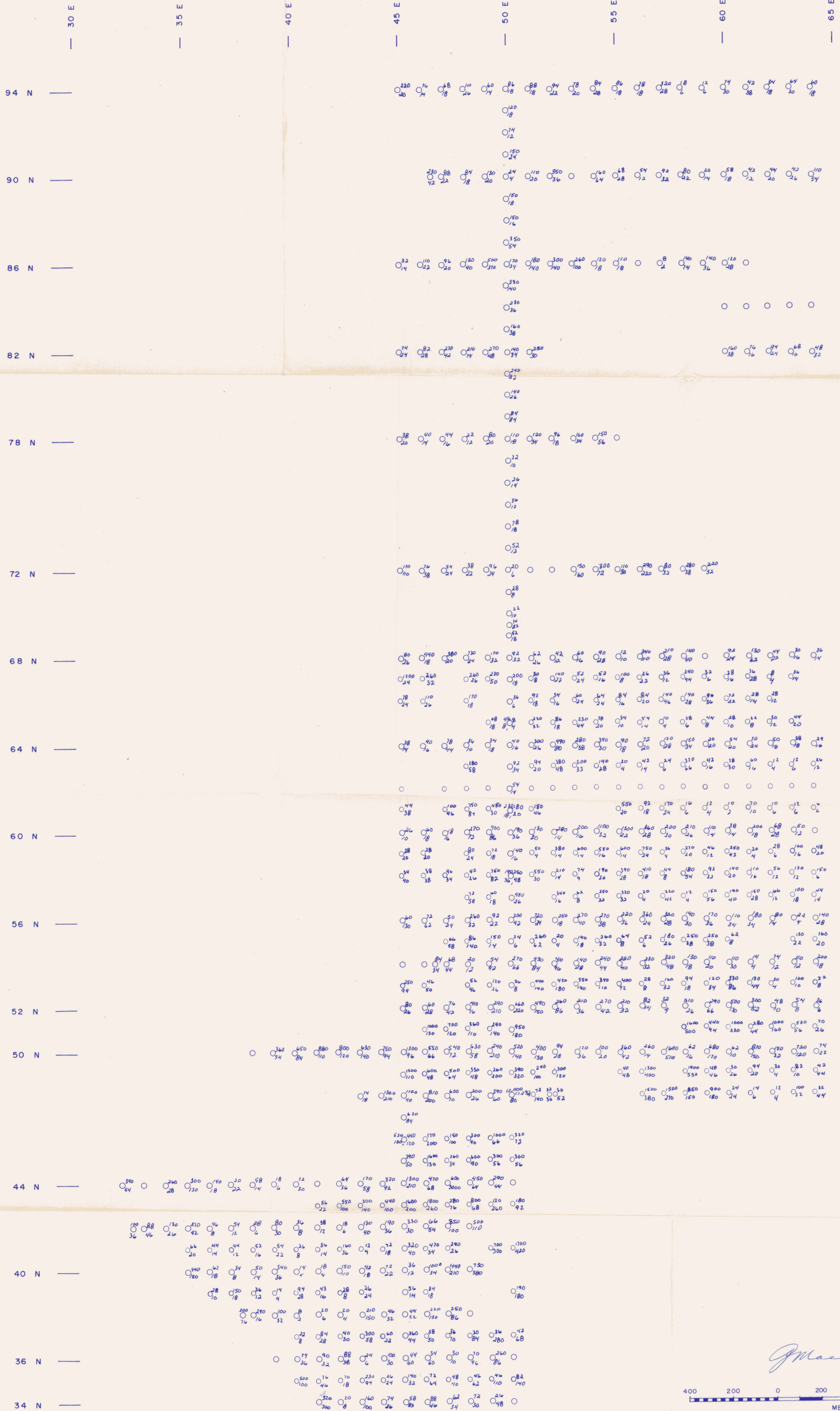
NORANDA EXPLORATION COMPANY, LIMITED
(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

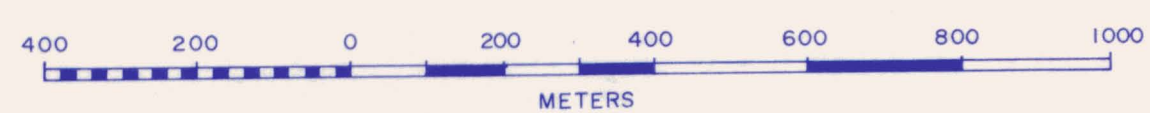
PROJECT: McConnell River

<u>ELEMENT</u>	<u>NO. OF DETERMINATIONS</u>	<u>COST PER DETERMINATION</u>	<u>TOTAL</u>
Au	56	2.50	140.00
Ba	19	2.50	48.00
Cu	297	1.00	297.00
Zn	297	.60	178.20
Pb	297	.60	178.20
Ag	297	.60	178.20
Mu	297	.60	178.20

1,127.80



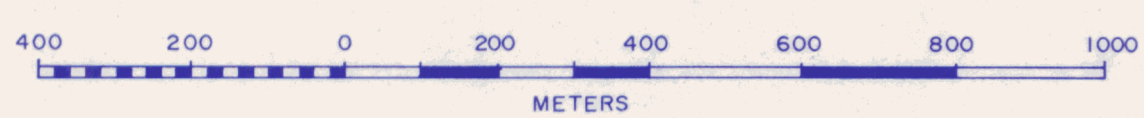
J. Macdonald



REVISED	Mc CONNELL RIVER PROPERTY	
	GEOCHEMICAL SOIL SURVEY	
	Zn, Pb, IN PPM.	
PROJ. No. 9093	SURVEY BY: G. M.	DATE: OCT. 1978
N.T.S. 105 F / 10	DRAWN BY: J. V. V.	SCALE: 1:10,000
DWG. No.	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	



J. McDonald



REVISED	Mc CONNELL RIVER PROPERTY	
	GEOCHEMICAL SOIL SURVEY	
	Cu, Mo, IN P.P.M.	
PROJ. No. 9093	SURVEY BY: G. M.	DATE: OCT. 1978
N.T.S. 105 F / 10	DRAWN BY: J. V. V.	SCALE: 1 : 10,000
DWG. No.	NORANDA EXPLORATION	
	OFFICE: VANCOUVER	

