

ARCHER, CATHRO

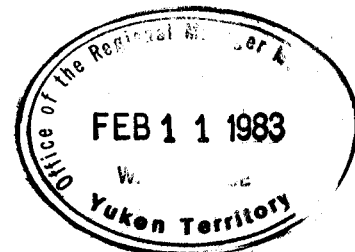
& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016-510 WEST HASTINGS STREET
VANCOUVER, B. C. V6B 1L8



REPORT ON
GEOLOGICAL AND GEOCHEMICAL SURVEY
CONDUCTED JULY 18 - AUGUST 29, 1982



FOR
QUARTZ LAKE PROJECT

QUIVER 1-40
(YA68429-YA68452 & YA68709-YA68724)

WATSON LAKE MINING DISTRICT
YUKON TERRITORY
CLAIM SHEETS 95D/5 AND 95D/12
LATITUDE 60°32'N; LONGITUDE 127°49'W

DECEMBER, 1982
A.R. Archer, B.A.Sc., P.Eng.

091425

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is offered as
representative work to the amount
of \$ 11,000

P. Watson

for Regional Manager, Department of
Geological Services for Commissioner
of Yukon Territory.

TABLE OF CONTENTS

	<u>PAGE</u>
Introduction	1
Property, Location, Access and History	1
Geology	2
Geochemistry	3
Mineralization	5
Recommendations	6

APPENDIX I - ANALYTICAL TECHNIQUES

Following Page

TABLE I - ROCK GEOCHEMICAL ANALYSIS	3
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LIST OF ILLUSTRATIONS

<u>Figure No.</u>	<u>Description</u>	<u>Following Page</u>	<u>In Pocket</u>
1	Location Map	1	
2	Quiver Claims - Gold Geochemistry		A
3	- Arsenic Geochemistry		A
4	- Antimony Geochemistry		B
5	- Bismuth Geochemistry		B
6	- Geology		C
7	- Copper Geochemistry		C
8	- Lead Geochemistry		D
9	- Manganese Geochemistry		D

INTRODUCTION

The Quiver 1-24 claims were staked in June, 1982 by Quartz Lake Project (Kidd Creek Mines Ltd.) to cover anomalous arsenic geochemical values obtained from previous work in the area.

In July, the Quiver 25-28 were added to cover a mineralized boulder train exposed on the shore of Roy Lake and the Quiver 29-40 were added to cover the southern extension of pre-1982 anomalous values and to form a grouping bridge to the Cuz claims.

Work by Quartz Lake Project (QLP) in 1982 consisted of mapping, prospecting and collection of 795 stream sediment, soil and rock samples, as illustrated on Figures 2 to 6 in pocket.

PROPERTY, LOCATION, ACCESS AND HISTORY

The property consists of 40 Quiver claims in an irregularly-shaped, but contiguous, block. The claims are recorded in the Watson Lake Mining District as follows:

<u>Claim Name</u>	<u>No.</u>	<u>Mining District</u>	<u>Claim Sheet</u>	<u>Grant Numbers</u>	<u>Expiry Date</u>
Quiver 1-24	24	Watson Lake	95D/12	YA68429-YA68452	11 June/83
Quiver 25-40	16	Watson Lake	95D/5 & 12	YA68709-YA68724	28 July/83
Total -	<u>40</u>				

The property is located 70 km northeast of Watson Lake on claim sheets 95D/5 and 95D/12, latitude 60°32'N and longitude 127°49'W, as illustrated on Figure 1 on the following page. Access in 1982 was by foot from the QLP basecamp at Roy Lake.

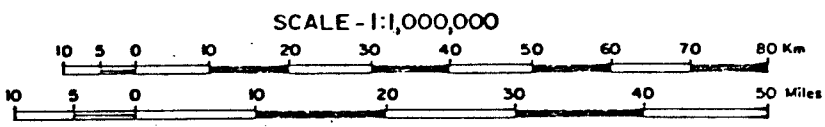
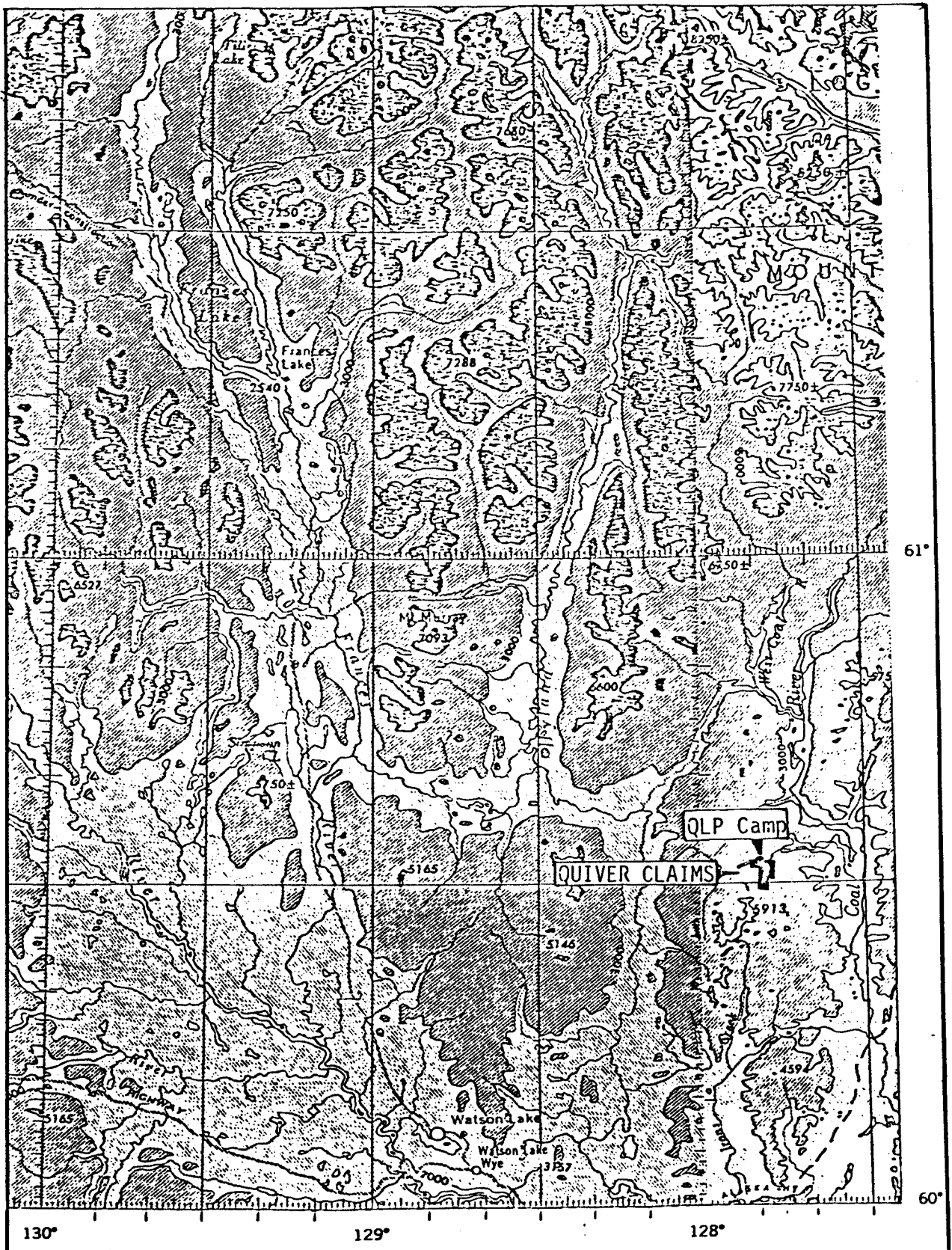


Figure 1
 Location map -
 QUIVER Claims
 Quartz Lake Project

The western portion of the Quiver claims was previously staked as the SN claims by Liard River Mining in 1954 and again as part of the Porker claim block in 1973 by Hyland Joint Venture (Marietta Resources Ltd., Mitsubishi Metal Corp. and individuals). Both groups explored for lead-zinc with small drill programs and obtained negative results.

GEOLOGY

The claims overlie rounded mountainous terrain cut by east-flowing streams in swampy, broad valleys. Elevations range from 930 m (3050') to 1325 m (4350'). Vegetation consists of spruce and fir on hillsides with moderate to thick birch and willow underbrush, to open pine forest on glacial terraces. The area was ice sheet glaciated during the Pleistocene. Thin glacial till is common on hillsides and a thick glacial-fluvial terrace occupies valleys up to approximately 1065 m (3500') elevation. Outcrop is sparse and restricted to steep slopes above terrace level and deeply incised creeks crosscutting the thick glacial material.

The property sits within a northerly-trending belt of Hadrynian sedimentary rocks regionally known as the Grit Unit. The Grit Unit is overlain locally by probable Cambro-Ordovician silty limestone and limy shale, a western facies of the Rabbitkettle Formation. On the Quiver claims, grit, quartzite and quartz pebble conglomerate of the Grit Unit are mapped as one unit as insufficient mapping has been done for further stratigraphic subdivisions. A few small outcrops of platy, carbonaceous, fetid limestone interbedded with black, non-calcareous phyllite and bleached, pyritic sandstone are located on the northwest side of the property. These rocks may be part of the Grit Unit but are more likely younger. The geology of the Quiver claims is illustrated on Figure 6 in pocket.

GEOCHEMISTRY

General

The 1982 sampling program by QLP consisted of 12 stream sediment, 761 soil and 22 rock samples, as shown on Figures 2 to 5 in pocket. Silts were collected at approximately 300 m intervals along a single large creek draining the south end of the claims and when smaller creeks were encountered along soil lines. Reconnaissance soil samples were collected on the shore of Roy Lake to follow-up mineralized boulders on the beach, and along a shear zone near the mouth of Cumzin Creek to follow-up high gold values from the pre-1982 results. Grid soil sampling was conducted along and between old cut lines from a Hyland Joint Venture grid. Sample spacings of 100 feet, in keeping with the old grid coordinates, were measured by pacing along cut lines and by pace and compass from a north-south baseline (148E) between cut lines. All sample sites were marked with flagging on which grid coordinates and sample bag numbers were written. Line spacing on the northeast corner of the grid was 200 feet and 400 feet elsewhere.

Soils were obtained from a B+C horizon by digging through 10 to 30 cm of moss and frozen peat using a heavy mattock. Samples were collected in waterproof kraft envelopes and shipped to Chemex Labs Ltd., North Vancouver, B.C. for gold analysis using a NAA finish on a minus 35 mesh fraction. Sample splits of grid soil samples were later reanalyzed for arsenic, bismuth, lead, copper, tungsten and manganese using ICP-AES and for antimony using standard atomic absorption techniques. (See Appendix I for details of analytical techniques.) Samples of altered and/or mineralized rocks were collected for geochemical analysis and results are plotted on the geochem maps and listed on Table I on the following page.

TABLE 1

QLP 1982

Rock Geochemical Analyses

Sample #	Au(ppb)*	As(ppm)*	Sb(ppm)*	Bi(ppm)**	Pb(ppm)**	Ag(ppm)**	W(ppm)**	Zn(ppm)**	Cu(ppm)**	Ti(ppm)*	Hg(ppm)*	Mn(ppm)**	Sample description
QUIVER CLAIMS													
M 5026	36												Bleached, silicified grit with PY
M 5027	59	200***	100***	50***	5***	2***	8***	13***	565***				Altered conglomerate with 20% sulph.
M 14352	19	55**	1.8	2	10		10		10		650		
M 14353	12	20**	2.4	3	15		10		14		170		Sheared, black phyllite
M 14354	11	36**	2.6	7	13		10		61		240		Black siltstone
M 14355	33	205**	3.0	2	8		10		18		320		Sheared med. grained grit
M 14356	2	30**	2.2	2	8		10		3		230		Tan, sugary quartz sandst. Trace PY
M 14357	6	30**	2.6	2	11		10		3		230		Quartz-veined grit
M 14357A	96	3320**	1.6	2	6		10		1		205		Silicified grit with sulphide veins
M 14358	2	55**	1.8	2	9		10		1		1020		Brecciated, QZ-veined black shale, PY
M 14359	93	45**	1.6	2	6		10		1		305		Quartz vein with minor sulphide
M 14360	1	50**	1.4	2	5		10		1		140		Silicified, quartz-veined grit
M 14379	88	1780**	4.6	16	11		10		8		245		Quartz-veined, tan, sugary grit
M 14380	4	55**	3.0	3	8		10		6		235		Quartz veins in fine grit. Pyrite
M 14381	5	75**	1.8	2	9		10		1		130		Bleached, fine grit. Trace pyrite
M 14382	1	30**	1.4	2	19		30		3		375		Sheared, bleached, limy siltstone
M 14383	62	3680**	5.4	4	13		10		44		100		Sheared grit with QZ-PY-Arsenopy veins
M 14384	60	3230**	3.4	3	7		10		46		105		Quartz-veined grit with arsenopy(?)
M 14385	20	210**	1.8	5	14		10		7		2450		Quartz-siderite veined grit
M 14386	11	395**	3.6	2	4		10		53		775		Sheared grit
M 14992	42	795**	1.2	2	2		10		4		80		Black, fine grit with PY-arsenopy vns
M 14993	941	9440**	9.4	48	4	0.5	5	14	82	0.3	30	39	Sheared grit with PY-arsenopy veins

* Au - Neutron Activation Analysis; Sb, Te, Hg, Pb, Ag - Atomic Absorption

** ICP-AES Analysis except as noted

*** Spectrographic Analysis, additional elements as follows: B - 5000ppm, Cr - 150ppm, Ti - 700ppm.

Results and Discussion

Gold, antimony, arsenic and bismuth response on the Quiver claims are plotted on Figures 2 to 5 in pocket. Tungsten response is uniformly at and below detection level of 10 ppm. Copper, lead and manganese results are shown on Figures 7 to 9 in pocket and no obvious areas of interest are indicated.

Gold values returned in silt range from 4 to 33 ppb. Soil values range from less than 1 to 701 ppb and outline a small area at the northwest end of the grid roughly 75 by 150 m in size with gold values greater than 100 ppb. The anomaly is truncated on the north by a glacial terrace and to the south by the Porker claims. Two small areas of weakly anomalous (40 ppb) gold occur in the central part of the grid in a region of moderate to heavy glacial cover. Rock specimens from the Quiver property returned values up to 941 ppb at the north end of the grid. Soil lines along Roy Lake returned values from less than 1 to 22 ppb gold and soil and rock samples from Cumzin Creek returned values of 4 to 22 ppb and 8 to 17 ppb, respectively.

Antimony results in silt range from 2.4 to 5.0 ppm. Soil values ranging from 0.6 to 47 ppm are anomalous (greater than 10 ppm) at the north end of the grid, coincident with the gold anomaly. The 5 ppm contour outlines a broad area in the central and southern part of the grid, partially coincident with weakly anomalous gold values. Rock samples returned maximum values of 5.4 ppm.

Bismuth values in silt range from less than 2 to 4 ppm. In soil, values range from less than 2 to 32 ppm. Highest values are scattered within the zone of high gold at the north end of the grid. A weak bismuth anomaly near the south end of the grid coincides with anomalous arsenic and antimony with no gold response. Numerous weakly anomalous values (6 to 9 ppm) occur in the central portion of the

grid area. Threshold values may be lower in this area because of heavy drift cover. Rock samples returned a maximum of 48 ppm at the north end of the grid and 50 ppm from Roy Lake shore boulders.

Arsenic in silt ranges from 60 to 385 ppm. Soils range from 20 to 4000 ppm and one of the best concentrations of high values (greater than 300 ppm) coincides with the gold anomaly at the north end of the grid. Across the rest of the grid, arsenic values are consistently greater than 100 ppm with a 400 by 150 m zone of greater than 300 ppm at 108+00N and a 200 by 100 m zone of similar values at 60+00N. High values south of 60+00N on glacial terrace material are likely due to precipitation of chemically transported arsenic, rather than high arsenic substratum. Rock samples range up to 3600 ppm.

MINERALIZATION

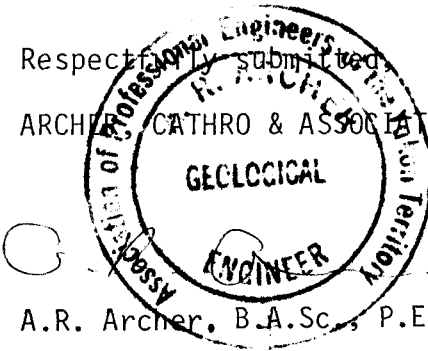
Mineralized rocks at the north end of the grid include sheared, silicified grit which is crosscut by veinlets of pyrite, arsenopyrite and quartz. The veinlets postdate the shear fabric. Best values in rock of this sort is 941 ppb Au. A second type of mineralized rock is a bleached, sugary, tan weathered rock with disseminated pyrite grains and quartz veinlets. Low gold values are returned from these rocks but the alteration suggests the presence of hydrothermal activity.

A cluster of mineralized boulders in a 5 by 5 m area along the shore of Roy Lake includes silicified grit with 10 to 20 percent disseminated pyrite and chalcopyrite and rotted, leached, siliceous rocks in which sulphides are weathered away. Boulders of this type are local to only this spot on the lakeshore, are totally surrounded by glacial till, and resemble rocks peripheral to the McMillan massive sulphide deposit.

RECOMMENDATIONS

The gold anomaly at the north end of the Quiver grid should be further mapped and prospected to determine the nature of controls on mineralization. The steep slopes above Quartz Lake should be prospected for mineralization exposed in windows through the glacial material. The weak gold, arsenic, antimony and bismuth anomalies in the central and southern portion of the grid should be further sampled by digging test pits to assess geochemical response close to bedrock with subsequent trenching of favourable zones.

Respectfully submitted
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GEOLOGICAL
ENGINEER
A.R. Archer, B.A.Sc., P.Eng.



/mc

APPENDIX I - ANALYTICAL TECHNIQUES

GEOCHEMICAL PREPARATION
AND
ANALYTICAL PROCEDURES

- 1.** Geochemical samples (soils, silts) are dried at 80°C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.
2. A 1.00 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% HClO₄ and concentrated HNO₃. Digestion time = 2 hours.
3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.
4. Detection limits using Techtron A.A.5 atomic absorption unit.

Copper	- 1 ppm
Molybdenum	- 1 ppm
Zinc	- 1 ppm
* Silver	- 0.2 ppm
* Lead	- 1 ppm
* Nickel	- 1 ppm
* Chromium	- 5 ppm
* Cobalt	- 1 ppm
Manganese	- 5 ppm
Iron	- 2 ppm
Cadmium	- 0.1 ppm

* Ag, Pb, Co & Ni are corrected for background absorption.

5. Elements present in concentrations below the detection limits are reported as one half the detection limit, i.e. Ag - 0.1 ppm.

** 1982 Quartz Lake Project samples were dried, sieved through an ASTM 35 mesh screen (0.50) and the minus 35 mesh fraction was pulverized and homogenized in a ring grinder to approx. -100 mesh.

PPM ANTIMONY

A 2.0 gm sample digested with conc. HCl in hot water bath. The iron is reduced to Fe +2 state and the Sb complexed with I-. The complex is extracted with TOPO-MIBK and analyzed via A.A. Correcting for background absorption 0.2 ppm +/- 0.2

Detection limit - 0.2 PPM.

PPM ARSENIC

A 1.0 gram sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digested is acidified, reduced with KI and mixed. A portion of the reduced solution is converted to arsine with NaBH₄ and the arsenic content determined using flameless atomic absorption.

Detection limit - 1 PPM

PPM BISMUTH

A 2.0 gram sample is digested with Conc. HCl and potassium chlorate. The solution cooled. After the addition of KI and the reduction of iron, the solution is extracted with MIBK-aliquot 336 and analyzed via standard AA procedure correcting for background absorption.

Detection limit - 0.2 PPM

PPM TELLURIUM

A 5.0 gram sample digested with aqua-regia to dryness. The residue taken up in 25% HCl and the solution adjusted with HBr to 3M Br-. After the reduction of iron with ascorbic acid the tellurium bromide complex is extracted into MIBK; washed and analyzed via AA correcting for background absorption.

Detection limit - 0.1 PPM

GEOCHEMICAL PROCEDURES FOR GOLD AND RELATED ELEMENTS

PPB GOLD: Chemical extraction - Atomic absorption analysis

A 5 gm sample ashed @800 deg. C for one hour, digested with aqua regia to dryness - taken up in 25% HCl-, the gold then extracted as the bromide complex into MIBK and analyzed via A.A.

Detection limit - 10 PPB.

GOLD FA-AA COMBO METHOD:

For low grade samples and geochemical materials 10 gram samples are fused with the addition of 10 mg of Au-free Ag metal and cupelled. The silver bead is parted with dilute HNO₃ and then treated with aqua regia. The salts are dissolved in dilute HCl and analyzed for Au on an atomic absorption spectrophotometer.

Detection Limit - 5 ppb.

GOLD NAA - NEUTRON ACTIVATION ANALYSES**

A 10 gm sample is fused in litharge, carbonate and silicious flux. The resulting lead button containing any gold in the sample is cupelled in a muffle furnace to produce a precious metals bead.

Sample beads, plus standard and blank beads are irradiated in a thermal neutron flux. The gamma emissions of the irradiated beads are counted utilizing a Ge (Li) detector and quantified for gold.

The detection limit for a 10 gm sample is 1 µg/kg (ppb).

PPM SILVER

A 1.0 gm portion of sample is digested in conc. perchloric-nitric acid (HClO₄-HNO₃) for approx. 2 hours. The digested sample is cooled and made up to 25 mls with distilled water. The solution is mixed and solids are allowed to settle. Silver is determined by atomic absorption technique using background correction on analysis.

Detection limit - 0.1 PPM.

** Technique used for all Quartz Lake Project analyses, 1982 and pre 1982.

GEOCHEMICAL PREPARATION AND ANALYTICAL PROCEDURES ICP-AES

Geochemical samples (soils, silts) are dried at 80° C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh. A 0.50 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% perchloric acid and concentrated nitric acid. Digestion time is 2 hours. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures. Detection limits using Yvon-Jobin 48P Inductively Coupled Plasma Atomic Emission Spectrometer.

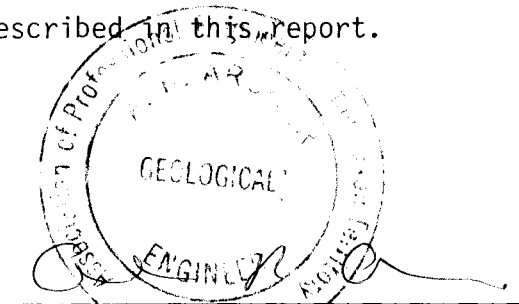
<u>Element</u>	<u>Detection</u>	<u>Element</u>	<u>Detection</u>
Arsenic	10 µg/g	Molybdenum	1 µg/g
Bismuth	2 µg/g	Nickel	1 µg/g
Cadmium	0.5 µg/g	Phosphorus	10 µg/g
Cobalt	1 µg/g	Silver	1 µg/g
Copper	1 µg/g	Tungsten	10 µg/g
Iron	0.001%	Uranium	10 µg/g
Lead	1 µg/g	Vanadium	1 µg/g
Manganese	1 µg/g	Zinc	1 µg/g

Elements which exceed the upper limit for geochemical analyses should be assayed quantitatively.

STATEMENT OF QUALIFICATIONS

I, Alan R. Archer, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia, and residential address in Burnaby, British Columbia, do hereby declare:

1. I am a 1957 graduate of the University of British Columbia in geological engineering.
2. I have been engaged in geological engineering for over twenty years, the past seventeen of which have been as a consultant.
3. I am a registered professional engineer in British Columbia and in Yukon Territory.
4. I have supervised the work described in this report.



Alan R. Archer, B.A.Sc., P.Eng.

ARCHER, CATHRO

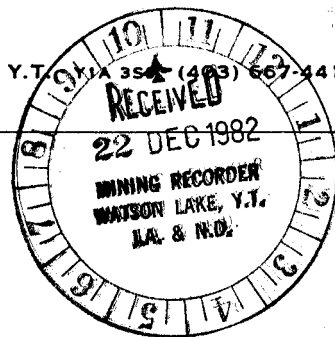
& ASSOCIATES LIMITED

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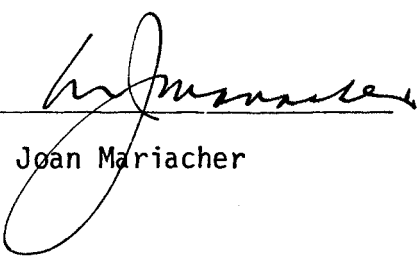
1016 - 510 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1L8



AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Quiver 1 - 40 mineral claims on Claim Sheet 95D/12 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 7th day of

December, 1982



Notary, Yukon Territory

001125

Statement of Expenditures
Soil Sample Survey
Quiver 1 - 24 Claims
December 15, 1982

Management

Archer, Cathro & Associates (1981) Limited \$ 500.00

Expenses

Chemex Labs, geochem analyses -

(a) 817 samples for Au (NAA)	\$4,902.00	
(b) 793 samples for Sb and 6 element ICP analysis	<u>5,868.00</u>	<u>10,770.00</u>

Total \$11,270.00



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• ANALYTICAL CHEMISTS

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• REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : I8211811

P.O. BOX 4127,
 WHITEHORSE, Y.T.
 Y1A 3S9

Date : 21-JUL-82
 P.O. # : NONE
 Project QLP

Invoice for analytical work reported on certificate(s) A8211811-001 to -006

Quantity	Analysed for code description	unit price	amount
240	101 - Au NAA ppb	6.00	1440.00
Sample preparation and other charges :			
240	203 - -35 mesh sieve + ring	1.50	360.00
			TOTAL \$ 1800.00
			Discount (20 %) \$ 360.00
Please pay this amount ---->			\$ 1440.00 =====

TERMS -- NET 30 DAYS

2.0 % per month (24 % per annum) charged on overdue accounts





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Invoice # : I8212447

P.O. BOX 4127,
WHITEHORSE, Y.T.
Y1A 3S9

Date : 17-AUG-82
P.C. # : NONE
Project CLP

Invoice for analytical work reported on certificate(s) A8212447-001 to -006

Quantity	Analysed for code description	unit	price	amount
240	101 - Au NAA	ppb	6.00	1440.00

Sample preparation and other charges :

240	203 - -35 mesh sieve + ring		1.50	360.00
-----	-----------------------------	--	------	--------

TOTAL \$ 1800.00
 Discount (20 %) \$ 360.00

Please pay this amount ----> \$ 1440.00

1440.-

TERMS -- NET 30 DAYS

2.0 % per month (24 % per annum) charged on overdue accounts

1440.-

1440.-

1440.-

84.40

588.

112.

Paul Hays
#

7988.40



MEMBER
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ASSOCIATION



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WHITEHORSE, Y.T.
Y1A 3S9

Date : 17-AUG-82
P.C. # : NONE
Project CLP

Invoice for analytical work reported on certificate(s) A8212448-001 to -006

Quantity	Analysed for code description	unit	price	amount
240	101 - Au NAA	ppb	6.00	1440.00

Sample preparation and other charges :

240	203 - -35 mesh sieve + ring		1.50	360.00
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TOTAL	\$ 1800.00
Discount (20 %)	\$ 360.00

Please pay this amount ----> \$ 1440.00
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To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : 18212451

P.O. BOX 4127,
WHITEHORSE, Y.T.
Y1A 3S9

Date : 23-AUG-82
P.O. # : NONE
Project CLP

Invoice for analytical work reported on certificate(s) A8212451-001 to -003

Quantity	code	description	unit	price	amount
98	101	Au NAA	ppb	6.00	588.00

Sample preparation and other charges :

98	203	-35 mesh sieve + ring		1.50	147.00
----	-----	-----------------------	--	------	--------

TOTAL \$ 735.00
Discount (20 %) \$ 147.00

Please pay this amount ----> \$ 588.00
=====

TERMS -- NET 30 DAYS

2.0 % per month (24 % per annum) charged on overdue accounts



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To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : I8214277

1016-510 WEST HASTINGS
VANCOUVER, B.C.
V6B 1L8

Date : 24-NOV-82
P.O. # : NONE
Project QLP

Invoice for analytical work reported on certificate(s) A8214277-001 to -005

Quantity	Analysed for code description	unit price	amount
168	229 - Partial ICP digestion		
	553 - Arsenic ppm (ICP)		
	556 - Tungsten ppm (ICP)		
	560 - Lead ppm (ICP)		
	561 - Bismuth ppm (ICP)		
	568 - Manganese ppm (ICP)		
	577 - Copper ppm (ICP)	5.50	924.00

Sample preparation and other charges :

168	214 - Bag pulp	0.00	0.00
-----	----------------	------	------

TOTAL	\$	924.00
Discount (20 %)	\$	184.80

Please pay this amount ----> \$ 739.20
=====

Terms -- net 30 days
2.0 % per month (24 % per annum) charged on overdue accounts



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ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604) 984-0221
 TELEX: 043-52597

- ANALYTICAL CHEMISTS

- GEOCHEMISTS

- REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : 18214279

1016-510 WEST HASTINGS
 VANCOUVER, B.C.
 V6B 1L8

Date : 26-NOV-82
 P.O. # : NONE
 Project QLP

Invoice for analytical work reported on certificate(s) A8214279-001 to -003

Quantity	Analysed for code description	unit price	amount
103	229 - Partial ICP digestion		
	553 - Arsenic ppm (ICP)		
	556 - Tungsten ppm (ICP)		
	560 - Lead ppm (ICP)		
	561 - Bismuth ppm (ICP)		
	568 - Manganese ppm (ICP)		
	577 - Copper ppm (ICP)	5.50	566.50

Sample preparation and other charges :

103	214 - Bag pulp	0.00	0.00
-----	----------------	------	------

TOTAL	\$	566.50
Discount (20 %)	\$	113.30

Please pay this amount ----> \$ 453.20
 =====

Terms -- net 30 days
 2.0 % per month (24 % per annum) charged on overdue accounts



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : 18214280

1016-510 WEST HASTINGS
VANCOUVER, B.C.
V6B 1L8

Date : 29-NOV-82
P.O. # : NONE
Project QLP

Invoice for analytical work reported on certificate(s) A8214280-001 to -007

Quantity	Analysed for code description	unit price	amount
248	229 - Partial ICP digestion		
	553 - Arsenic ppm (ICP)		
	556 - Tungsten ppm (ICP)		
	560 - Lead ppm (ICP)		
	561 - Bismuth ppm (ICP)		
	568 - Manganese ppm (ICP)		
	577 - Copper ppm (ICP)	5.50	1364.00

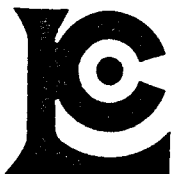
Sample preparation and other charges :

248	214 - Bag pulp	0.00	0.00
-----	----------------	------	------

TOTAL	\$ 1364.00
Discount (20 %)	\$ 272.80

Please pay this amount ----> \$ 1091.20

Terms -- net 30 days
2.0 % per month (24 % per annum) charged on overdue accounts



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : I8214283

1016-510 WEST HASTINGS
VANCOUVER, B.C.
V6B 1L8

Date : 8-NCV-82
P.O. # : NONE
Project CLP

Invoice for analytical work reported on certificate(s) A8214283-001 to -011

Quantity	Analysed for code description	unit	price	amount
404	022 - Sb	ppm	3.75	1515.00

Sample preparation and other charges :

404	214 - Bag pulp		0.00	0.00
-----	----------------	--	------	------

TOTAL	\$ 1515.00
Discount (20 %)	\$ 303.00

Please pay this amount ----> \$ 1212.00
=====

TERMS -- NET 30 DAYS

2.0 % per month (24 % per annum) charged on overdue accounts



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRD & ASSOC. (1981) LTD.,

Invoice # : I8214284

1016-510 WEST HASTINGS
VANCOUVER, B.C.
V6B 1L8

Date : 11-NOV-82
P.O. # : NONE
Project CLP

Invoice for analytical work reported on certificate(s) A8214284-001 to -011

Quantity	Analysed for code description	unit price	amount
406	022 - S5 ppm	3.75	1522.50

Sample preparation and other charges :

406	214 - Bag pulp	0.00	0.00
-----	----------------	------	------

TOTAL \$ 1522.50
Discount (20 %) \$ 304.50

Please pay this amount ----> \$ 1218.00
=====

TERMS -- NET 30 DAYS

2.0 % per month (24 % per annum) charged on overdue accounts



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ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : 18214287

1016-510 WEST HASTINGS
VANCOUVER, B.C.
V6B 1L8

Date : 30-NOV-82
P.O. # : NONE
Project QLP

Invoice for analytical work reported on certificate(s) A8214287-001 to -005

Quantity	Analysed for code description	unit price	amount
176	229 - Partial ICP digestion		
	553 - Arsenic ppm (ICP)		
	556 - Tungsten ppm (ICP)		
	560 - Lead ppm (ICP)		
	561 - Bismuth ppm (ICP)		
	577 - Copper ppm (ICP)		
	578 - Silver ppm (ICP)	5.50	968.00

Sample preparation and other charges :

176	214 - Bag pulp	0.00	0.00
-----	----------------	------	------

TOTAL	\$ 968.00
Discount (20 %)	\$ 193.60

Please pay this amount ----> \$ 774.40

Terms -- net 30 days
2.0 % per month (24 % per annum) charged on overdue accounts



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. (1981) LTD.,

Invoice # : 18214288

1016-510 WEST HASTINGS
VANCOUVER, B.C.
V6B 1L8

Date : 30-NOV-82
P.O. # : NONE
Project QLP

Invoice for analytical work reported on certificate(s) A8214288-001 to -003

Quantity	Analysed for code description	unit price	amount
120	229 - Partial ICP digestion		
	553 - Arsenic ppm (ICP)		
	556 - Tungsten ppm (ICP)		
	560 - Lead ppm (ICP)		
	561 - Bismuth ppm (ICP)		
	577 - Copper ppm (ICP)		
	578 - Silver ppm (ICP)	5.50	660.00

Sample preparation and other charges :

120	214 - Bag pulp	0.00	0.00
-----	----------------	------	------

TOTAL	\$	660.00
Discount (20 %)	\$	132.00

Please pay this amount ----> \$ 528.00
=====

Terms -- net 30 days
2.0 % per month (24 % per annum) charged on overdue accounts



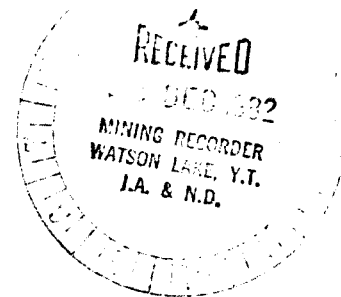
MEMBER
CANADIAN TESTING
ASSOCIATION



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) M.P. PHILLIPS	Occupation GEOLOGIST
(Postal Address) P.O. BOX 4127, WHITEHORSE, YUKON	

OFFICE DATE STAMP

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)

QUIVER 1-4; YA 68429-432
11-14; YA 68439-442
25-26; YA 68709-710
29-32; YA 68713-716

situated at HULSE ROY LAKE AREA Claim Sheet No. 95D/12

in the WATSON LAKE Mining District, to the value of at least \$ 3850.00
dollars, since the 28 day of JULY 1982 QUIVER 25-40
11 day of JUNE 1982 QUIVER 1-24

to represent the following mineral claims under the authority of Grouping Certificate No. 3401

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

<u>GROUP 2</u>	+ QUIVER 1 YA 68429 11 June 83	+ QUIVER 25 YA 68709 28 July 83
	2 430	26 YA 68710
	3 431	29 YA 68713
	4 YA 68432	30 714
	11 YA 68439	31 715
	12 440	32 YA 68716
	13 441	
	14 YA 68442	

* TO COMMON DATE 11 MARCH
14 CLAIMS AT 2 3/4 YEARS EACH = 38.5 CLAIM YEARS

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

BALANCE GROUP 1	\$ 7,420
LESS GROUP 2	3,850
BALANCE GROUP 2	\$ 3,570

Sworn before me at WHITEHORSE, YUKON
this 17 day of DECEMBER 1982

Notary Public

M.P. PHILLIPS Applicant.

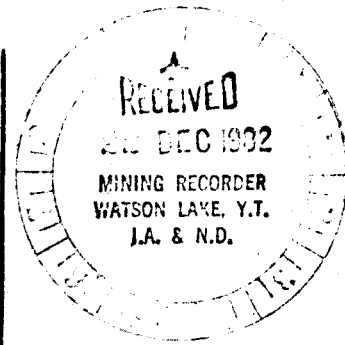
091425



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) M.P. PHILLIPS	Occupation GEOLOGIST
(Postal Address) P.O. BOX 4127, WHITEHORSE, YUKON	

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)
QUIVER 5-10 YA 68433-438
15-20 YA 68443-448
27-28 YA 68711-712

situated at HULSE - ROY LAKE AREA Claim Sheet No. 95D/12
in the WATSON LAKE Mining District, to the value of at least \$ 3,850.00
dollars, since the 28 day of JULY 1982 QUIVER 25-40
11 day of JUNE 1982 QUIVER 1-24

to represent the following mineral claims under the authority of Grouping Certificate No. 3400

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

<u>GROUP 1</u>	* QUIVER 5 YA 68433 11 June 83	* QUIVER 17 YA 68445 11 June 83
	6 434	18 446
	7 435	19 447
	8 436	20 YA 68448
	9 437	27 YA 68711 28 July 83
	10 YA 68438	28 YA 68712 W 4
	15 YA 68443	
	16 YA 68444	

14 CLAIMS AT 2 3/4 YEARS EACH = 38.5 CLAIM YEARS

* TO COMMON DATE - 11 MARCH

- The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)
GEOCHEMICAL SURVEY

TOTAL EXPENDITURES	\$ 11,270
LESS GROUP 1	3,850
BALANCE GROUP 1	\$ 7,420

Sworn before me at WHITEHORSE, YUKON
this 17 day of DECEMBER 1982

Notary Public

M.P. Phillips
Applicant.

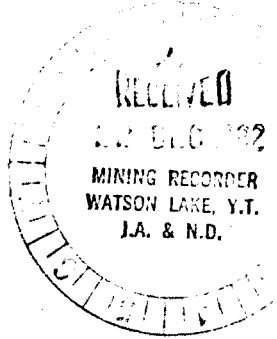
M.P. PHILLIPS



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) M.P. PHILLIPS	Occupation GEOLOGIST
(Postal Address) PO BOX 4127, WHITEHORSE, YUKON	

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)
QUIVER 21-24; YA 68449-452.

situated at HULSE-RODY LAKE Claim Sheet No. 95D/12
in the WATSON LAKE Mining District, to the value of at least \$1100.00
dollars, since the 11 day of JUNE 1982 QUIVER 1, 2

to represent the following mineral claims under the authority of Grouping Certificate No. 3403
(Here list claims to be renewed in numerical order, by number and name, showing renewal period requested).

GROUP 4 + QUIVER 21-24, YA 68449-452 INCLUSIVE
+ TO COMMON DATE 11 MARCH
4 CLAIMS AT 2³/₄ YEARS EACH = 11 CLAIM YEARS

- The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)
GEOCHEMICAL SURVEY

BALANCE GROUP 3	\$ 1,370
LESS GROUP 4	1100
BALANCE GROUP 4	\$ 270

Sworn before me at WHITEHORSE, YUKON
this 17 day of DECEMBER 1982

Notary Public

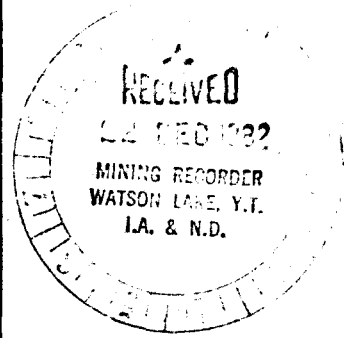
M.P. PHILLIPS Applicant.



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) M.P. PHILLIPS	Occupation GEOLOGIST
(Postal Address) P.O. BOX 4127, WHITE HORSE, YUKON	

OFFICE DATE STAMP

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)
QUIVER 33-40 YA 68717-724

situated at HULSE - ROY LAKE AREA Claim Sheet No. 95D/5212

in the WATSON LAKE Mining District, to the value of at least \$ 2200.00

dollars, since the 28 day of JULY 19 82 QUIVER 25-4

to represent the following mineral claims under the authority of Grouping Certificate No. 3402

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

GROUP 3 * QUIVER 33 YA 68717
34 718
35 719
36 720
37 721
38 722
39 723
40 YA 68724

+ TO COMMON DATE 11 MARCH

8 CLAIMS AT 2 3/4 YEARS EACH = 22 CLAIM YEARS

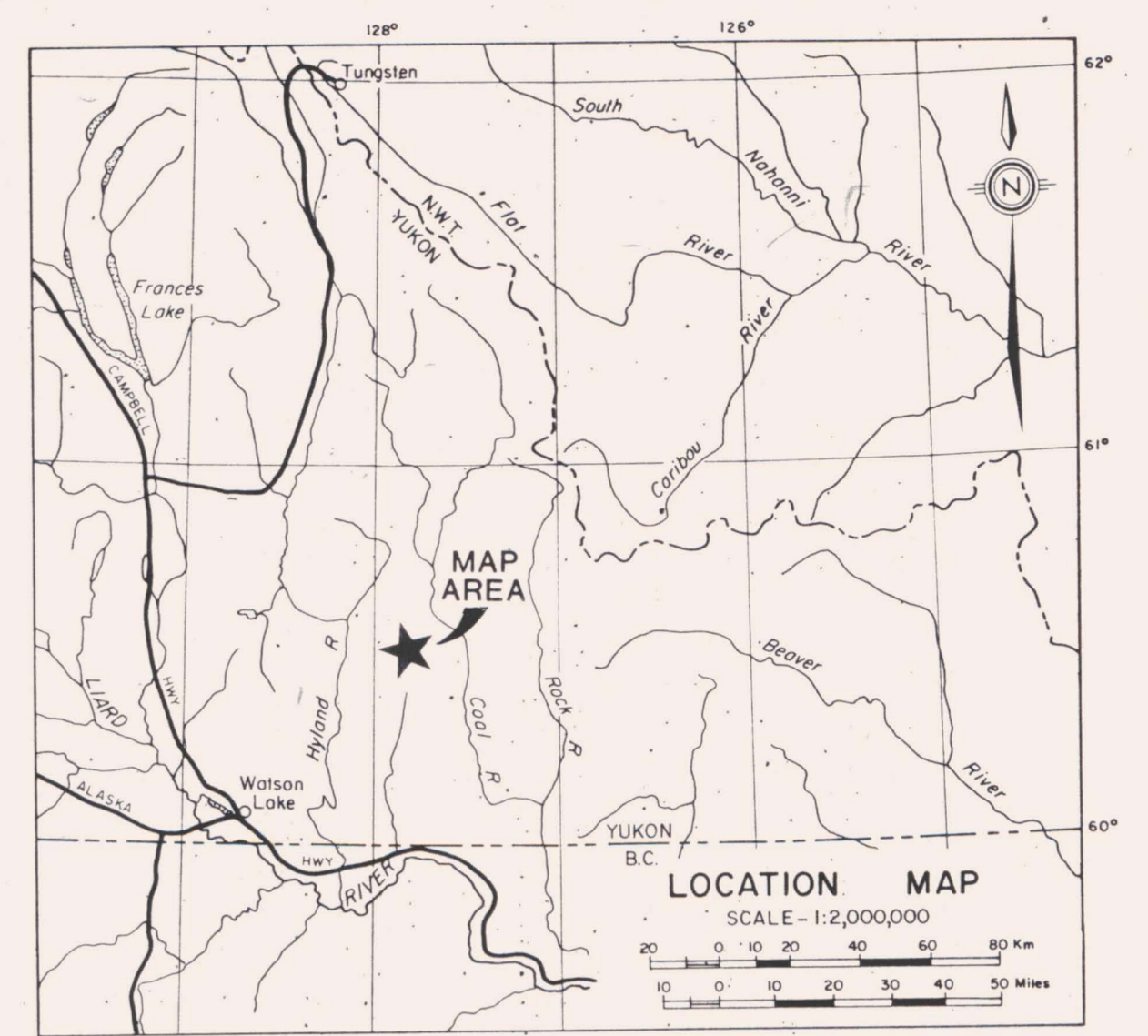
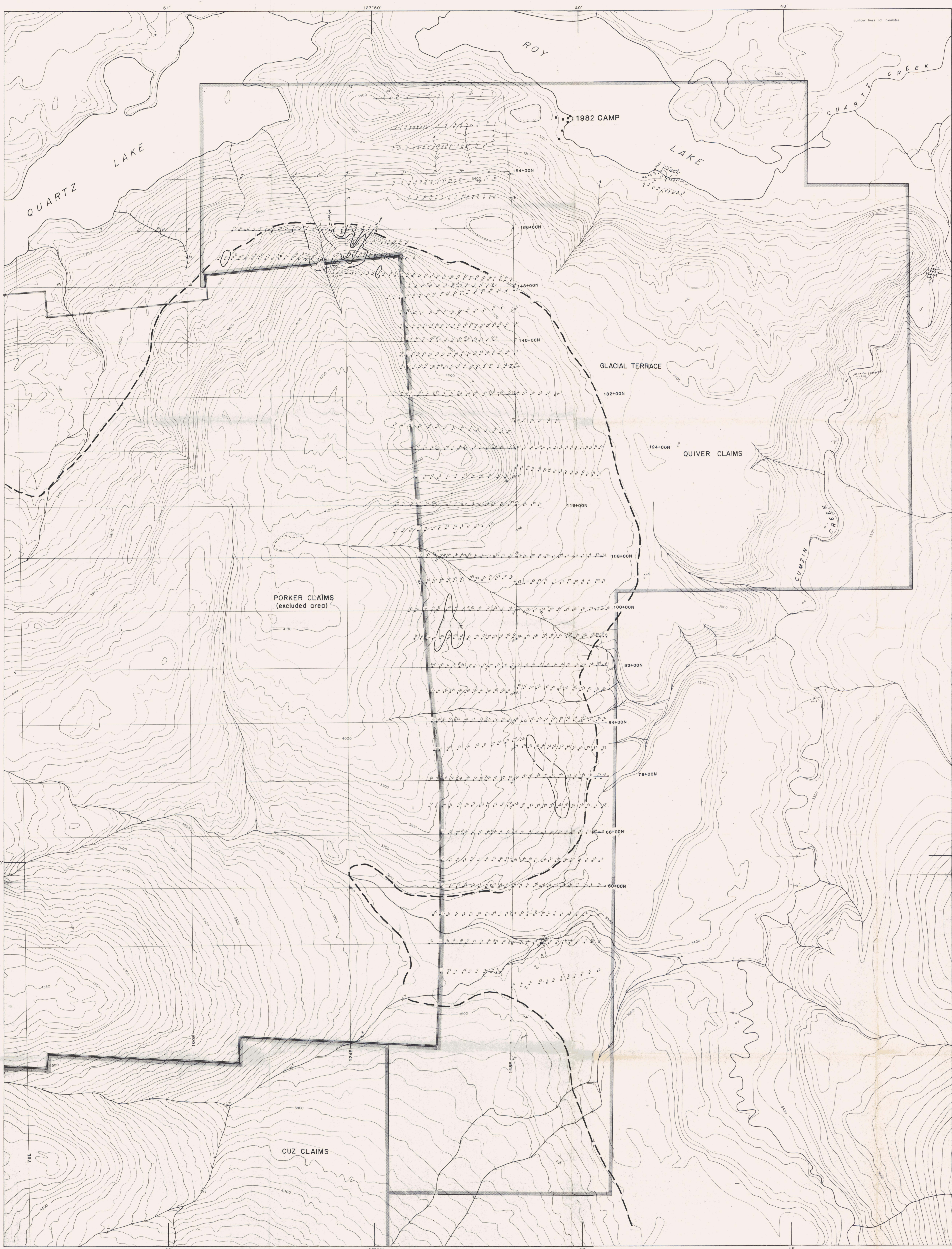
3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)
GEOCHEMICAL SURVEY

BALANCE GROUP 2	\$ 3570
LESS GROUP 3	2,200
BALANCE GROUP 3	\$ 1,370

Sworn before me at WHITE HORSE, YUKON
this 17 day of DECEMBER 1982

Notary Public

M.P. PHILLIPS Applicant.



- LEGEND
- Pre 1982 samples (-80 mesh fraction analysed)
 - soil sample: ppb Au
 - △ silt sample: ppb Au
 - rock sample: ppb Au (unless noted in oz)
 - 1982 samples (-35 mesh fraction analysed)
 - soil sample: ppb Au
 - ▲ silt sample: ppb Au
 - rock sample: ppb Au
 - ⊞ two samples collected at one site: -35 mesh fraction, -80 mesh fraction
 - ⊞ Insufficient sample for analysis
 - ⊞ Less than one ppb Au
 - Cut lines
 - - - Extent of glacial terrace

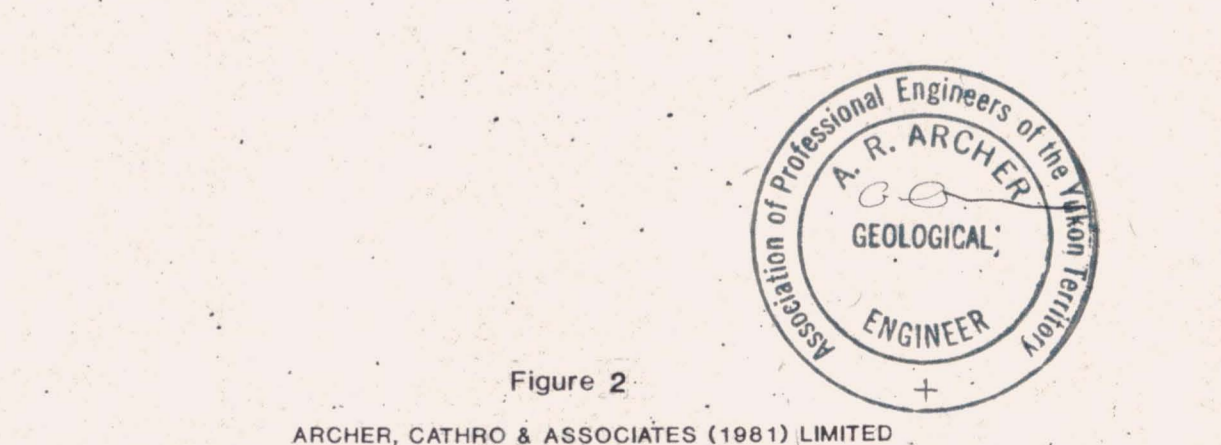
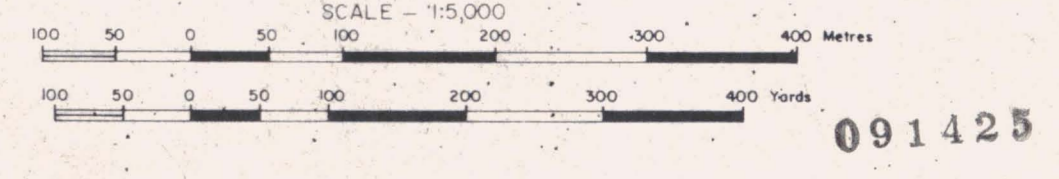
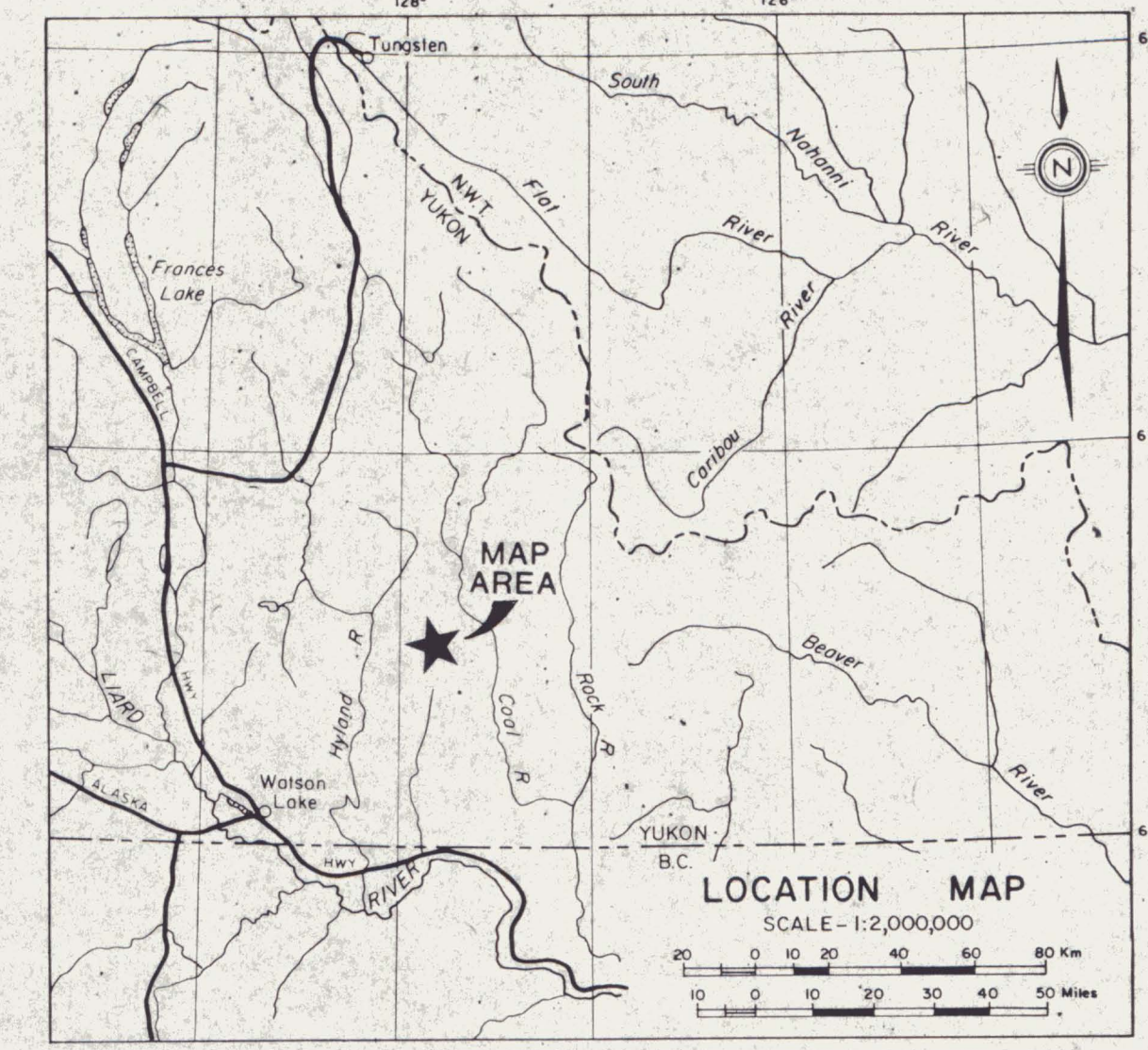
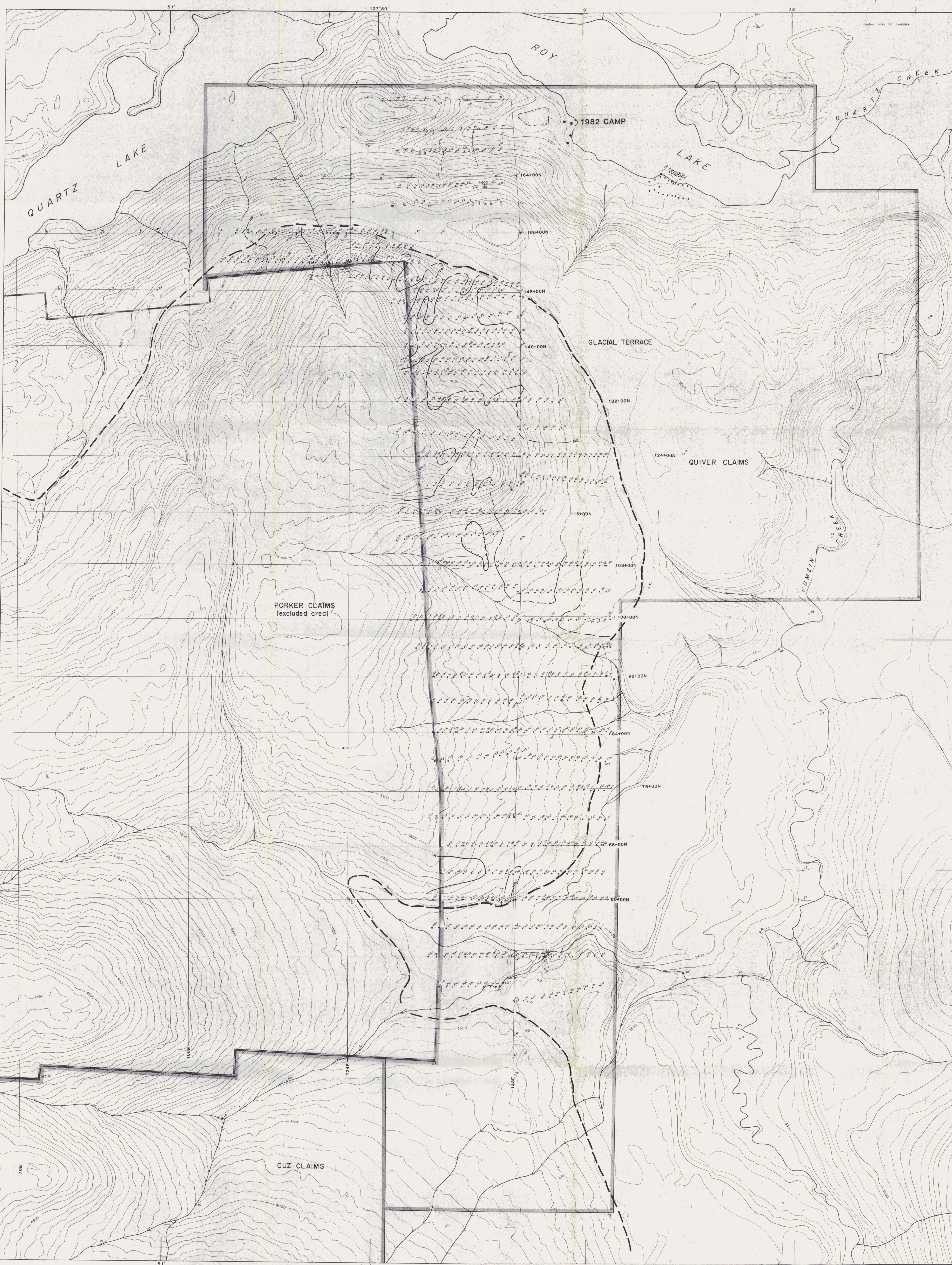


Figure 2
ARCHER, CATRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY
QUIVER CLAIMS
QUARTZ LAKE PROJECT





LEGEND

Pre 1982 samples (-80 mesh fraction analysed)

- soil sample: ppm As
- silt sample: ppm As
- rock sample: ppm As

1982 samples (-35 mesh fraction analysed)

- soil sample: ppm As
- silt sample: ppm As
- rock sample: ppm As

○ two samples collected at one site: -35 mesh fraction, -80 mesh fraction

○ insufficient sample for analysis

— Cut lines

— Extent of glacial terrace

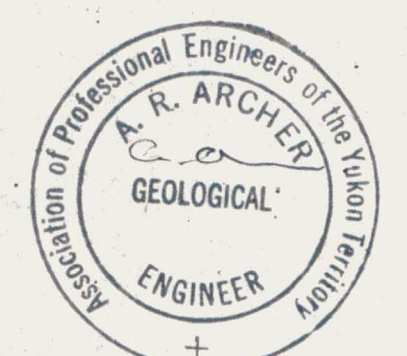
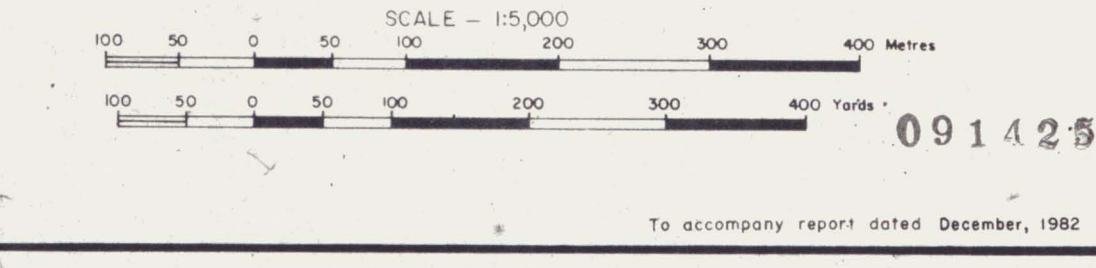


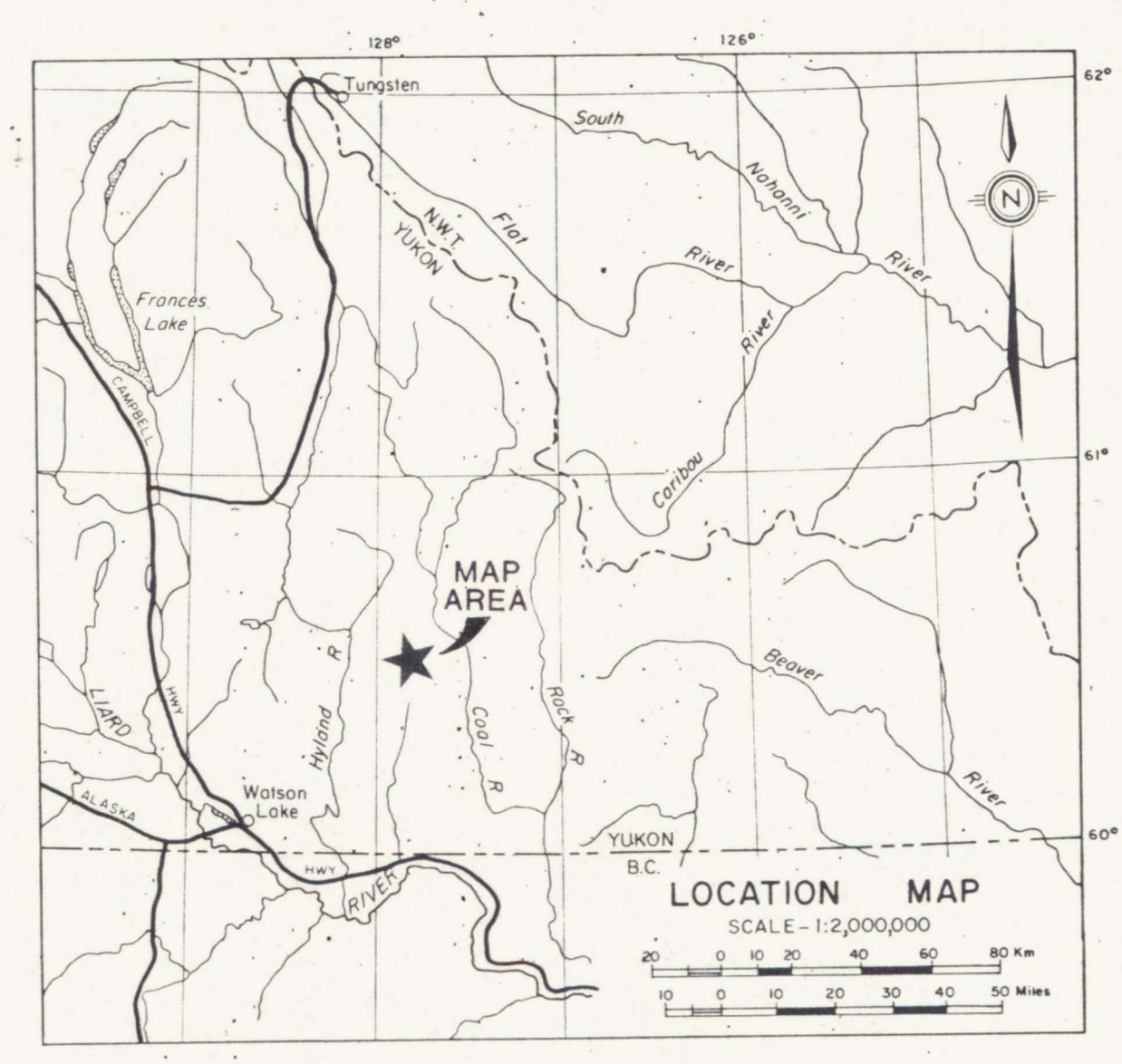
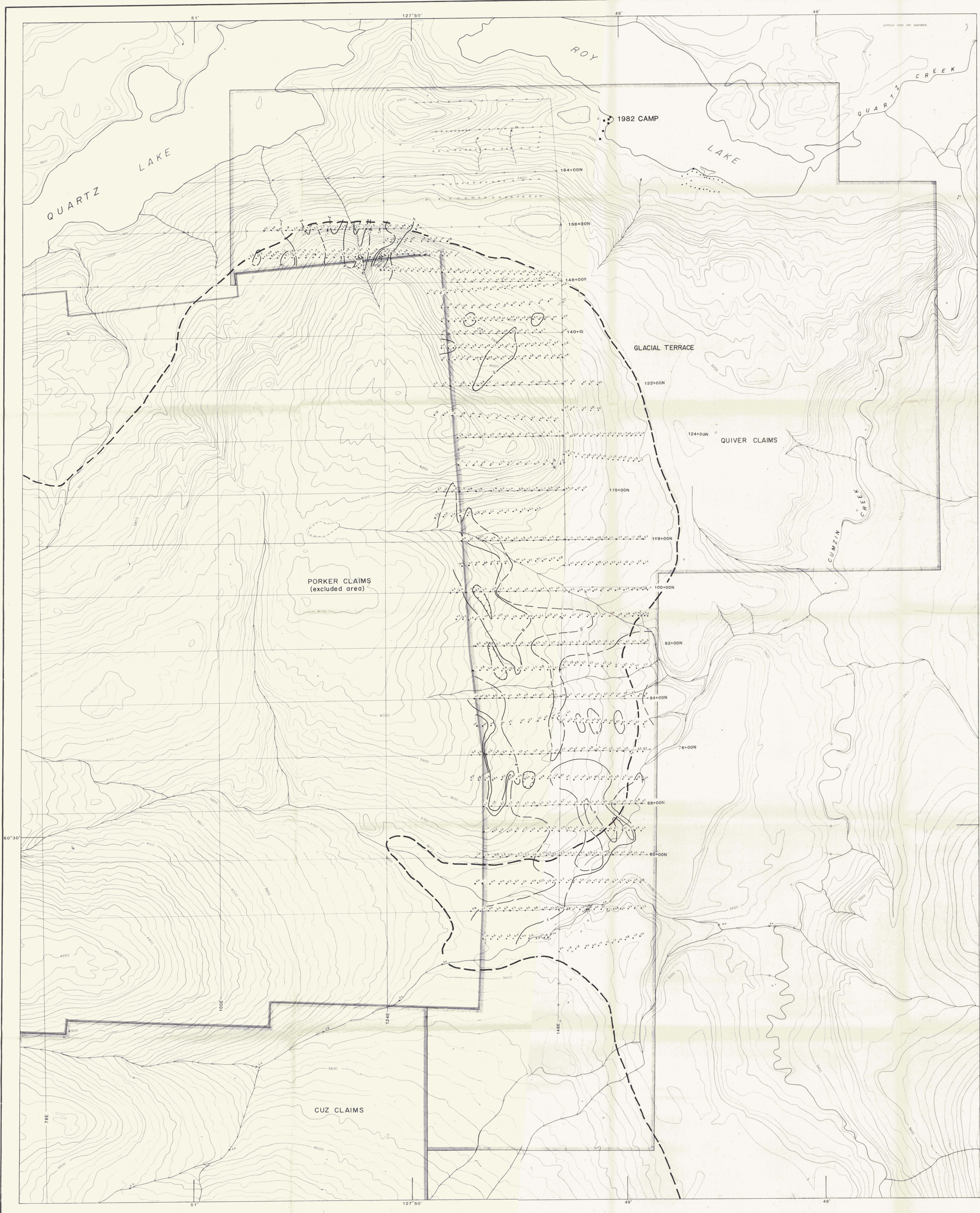
Figure 3
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC GEOCHEMISTRY

QUIVER CLAIMS

QUARTZ LAKE PROJECT





- LEGEND
- Pre 1982 samples (-80 mesh fraction analysed)
- ² soil sample: ppm Sb
 - ³ silt sample: ppm Sb
 - ⁴ rock sample: ppm Sb
- 1982 samples (-35 mesh fraction analysed)
- ¹ soil sample: ppm Sb
 - ² silt sample: ppm Sb
 - ³ rock sample: ppm Sb
 - ⁴ two samples collected at one site: -35 mesh fraction, -80 mesh fraction
- ✚ Cut lines
- Extent of glacial terrace

Figure 4
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ANTIMONY GEOCHEMISTRY

QUIVER CLAIMS

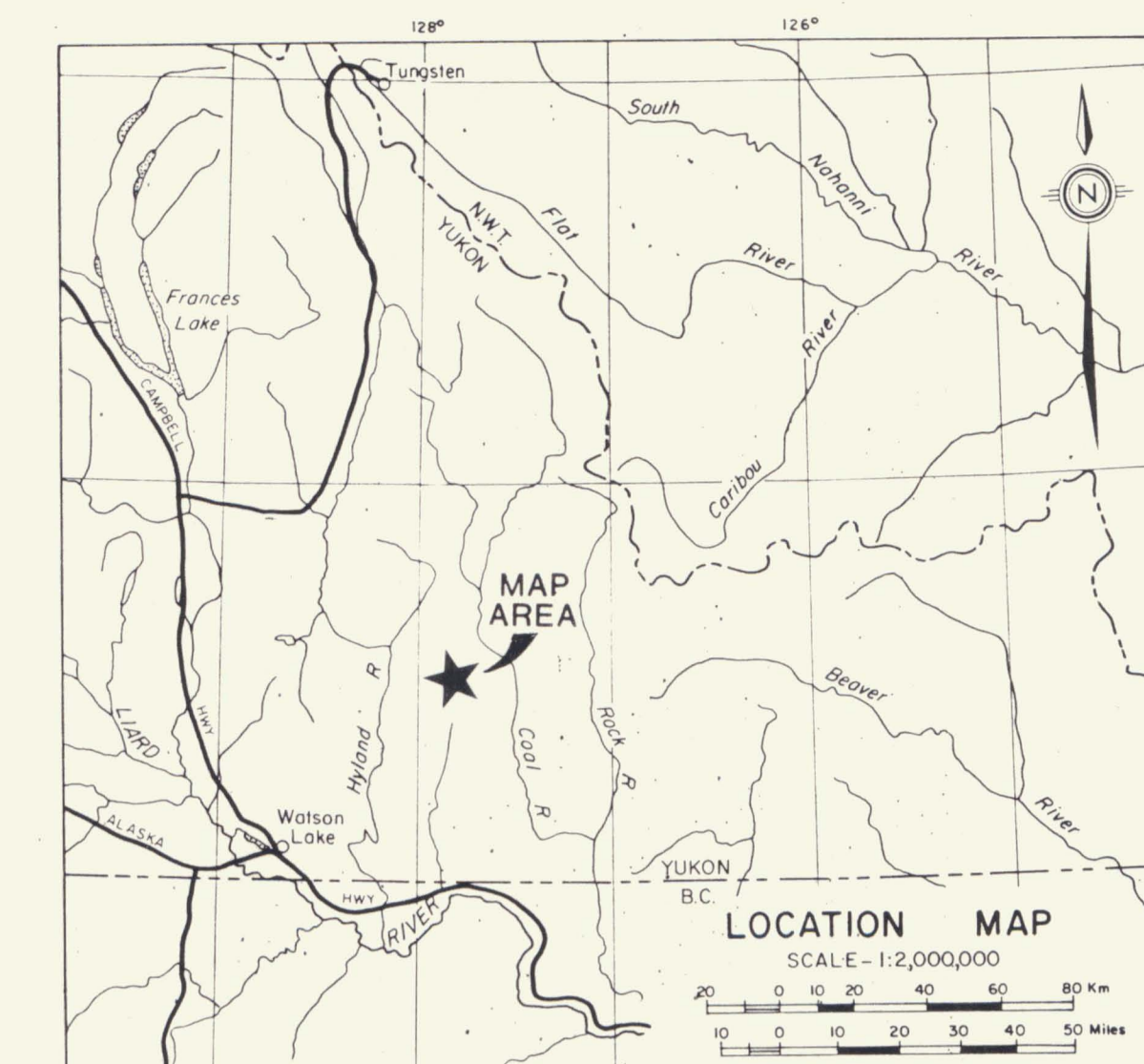
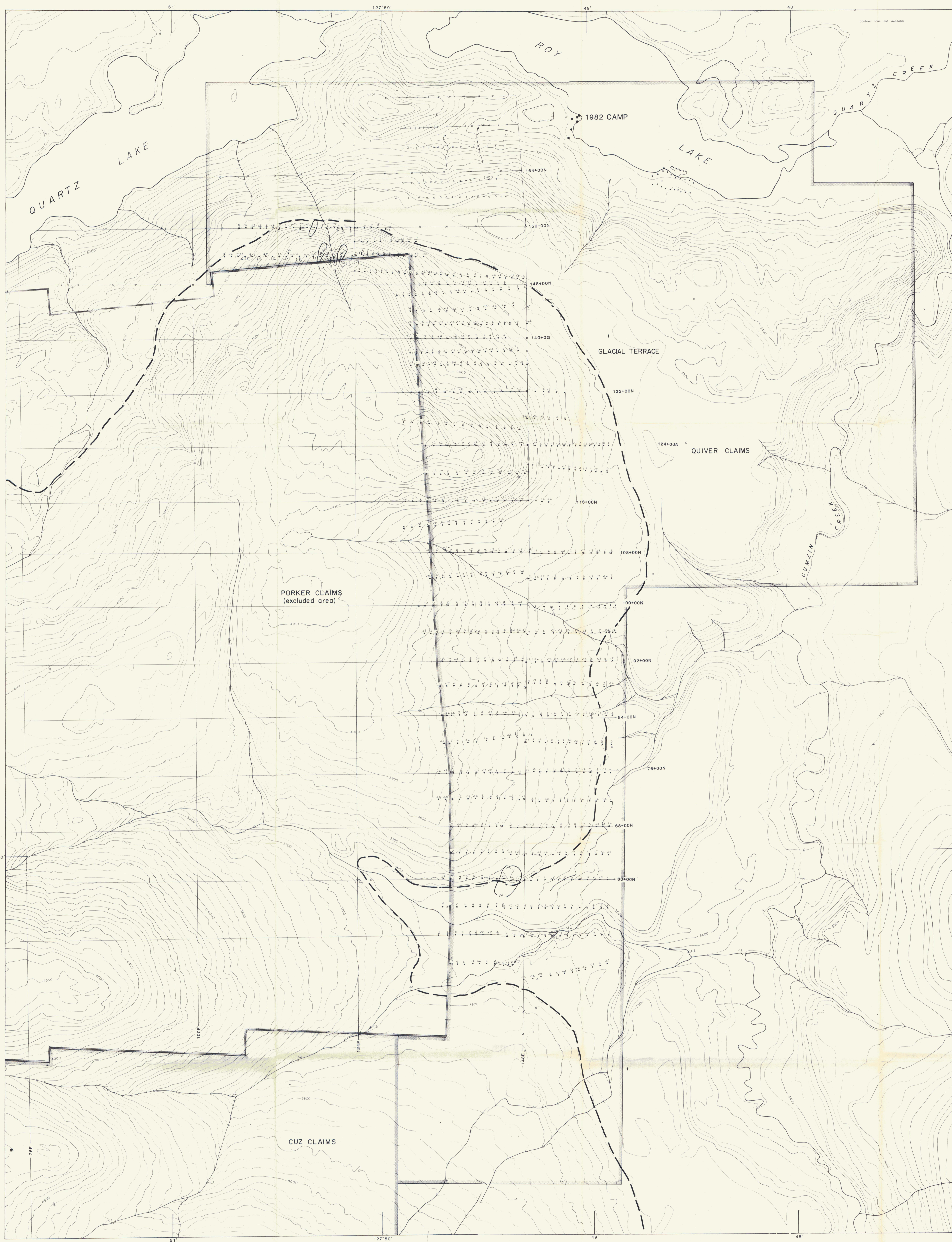
QUARTZ LAKE PROJECT

SCALE - 1:50,000

0 100 200 300 400 METERS

091425

THE GEOLOGICAL REPORT: QUIVER CLAIMS, 1982



LEGEND

- Pre 1982 samples
 - soil sample
 - × silt sample
- 1982 samples (-35 mesh fraction analyzed)
 - soil sample: ppm Bi
 - △ silt sample: ppm Bi
 - rock sample: ppm Bi
 - ◆ two samples collected at one site: -35 mesh fraction, -80 mesh fraction
- + Cut lines
- - - Extent of glacial terrace

Figure 5

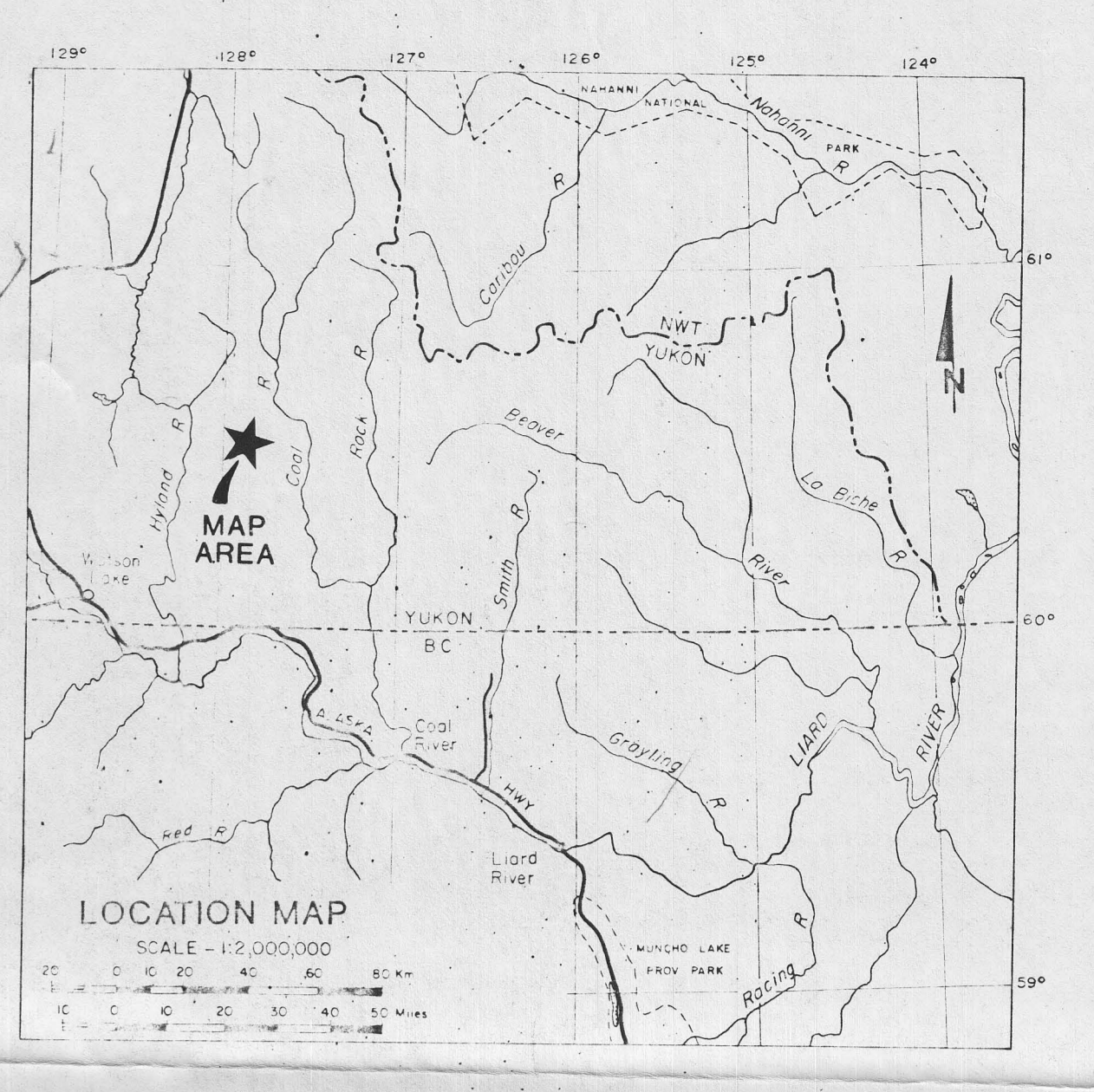
ARCHER, CATRO & ASSOCIATES (1981) LIMITED

BISMUTH GEOCHEMISTRY

QUIVER CLAIMS

QUARTZ LAKE PROJECT

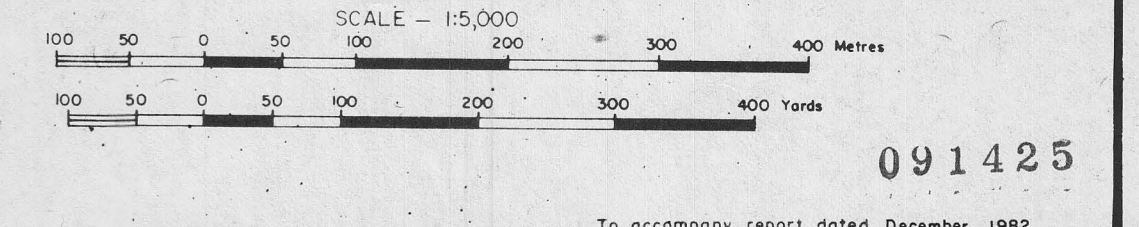


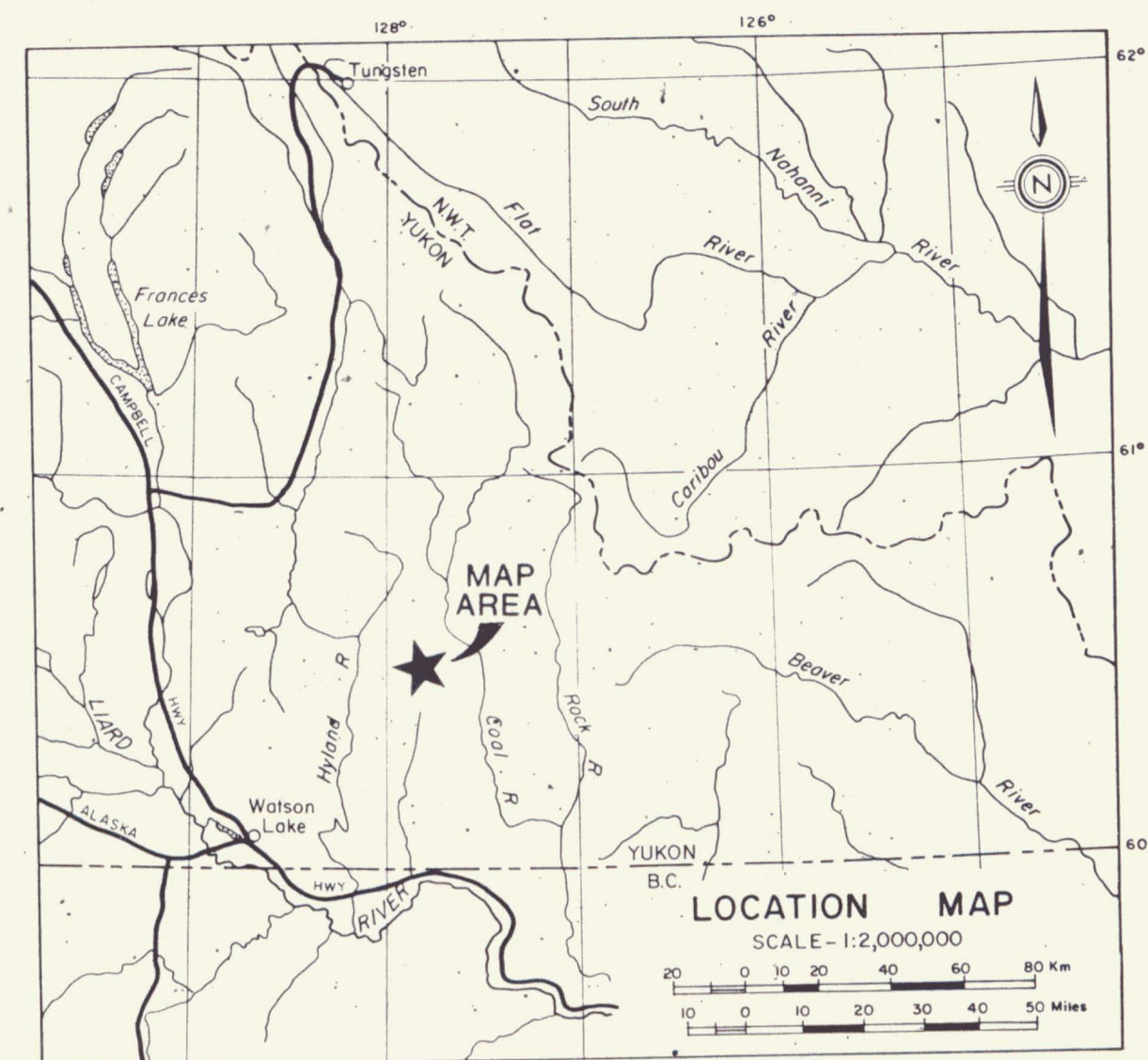
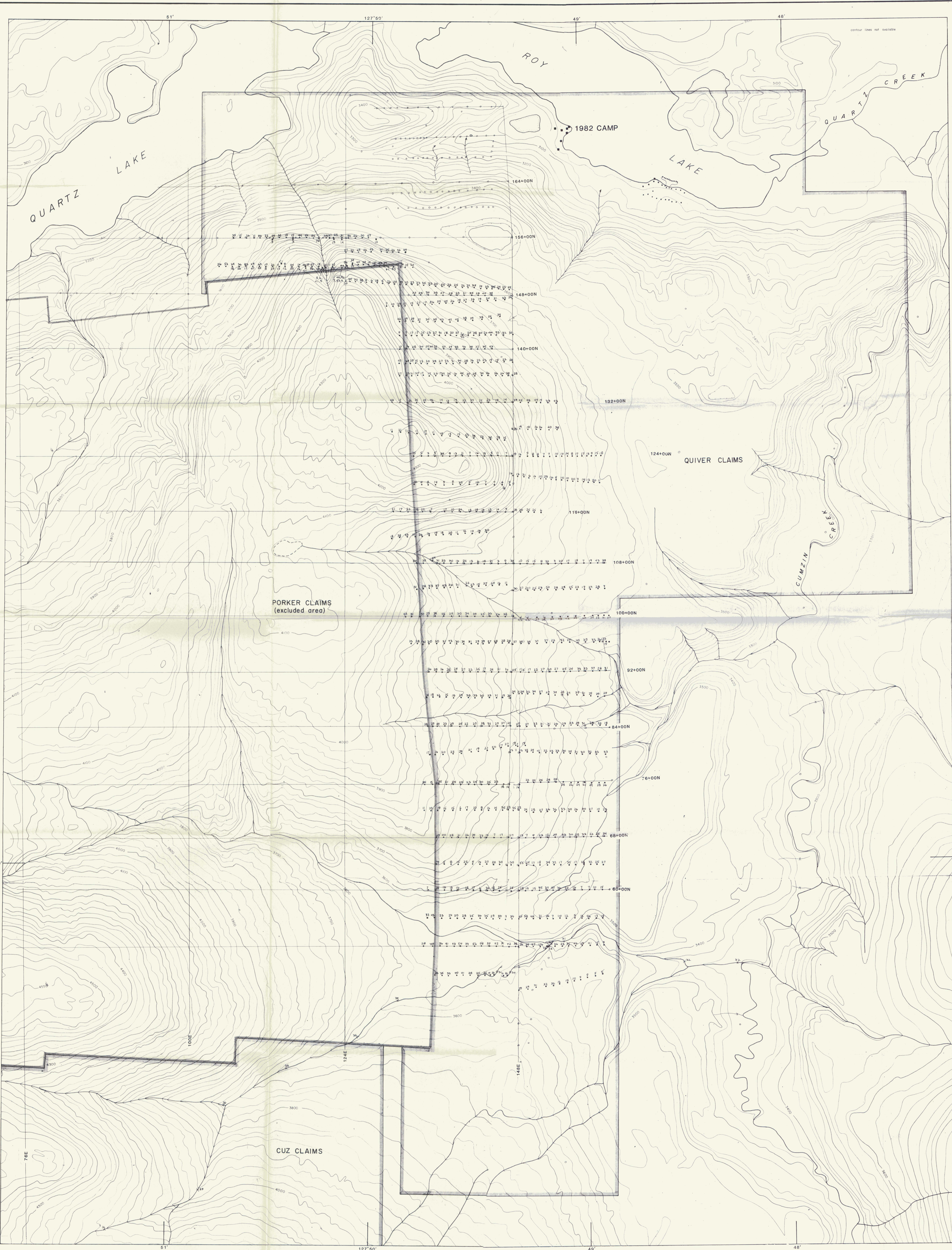


- LEGEND**
- CAMBRIAN TO ORDOVICIAN (?)**
- [Symbol] Fossiliferous limestone.
 - [Symbol] Tan to grey, platy weathering, silty limestone.
 - [Symbol] Interbedded fossiliferous limestone and non-calcareous black shale to phyllite. Includes sugary, pyritic dolomite.
- HARRYMAN**
- [Symbol] Grit, quartzite and quartz pebble conglomerate with minor interbedded phyllite.
 - [Symbol] Kill zone - siderite and limonite.
- Structural Features:**
- [Symbol] Strike and dip of bedding
 - [Symbol] Shear zone
 - [Symbol] Limit of outcrop
 - [Symbol] Area of float
 - [Symbol] Air photo linear
 - [Symbol] Limit of glacial terrace
 - [Symbol] Diamond drill hole
 - [Symbol] Cut lines
- CLAIM POST LOCATION - accurate, approximate**

Figure 6
ARCHER, CATIRO & ASSOCIATES (1981) LIMITED

GEOLOGY
QUIVER CLAIMS
QUARTZ LAKE PROJECT





LEGEND

Pre 1982 samples (-80 mesh fraction analyzed)

- soil sample: ppm Cu
- △ silt sample: ppm Cu
- rock sample: ppm Cu

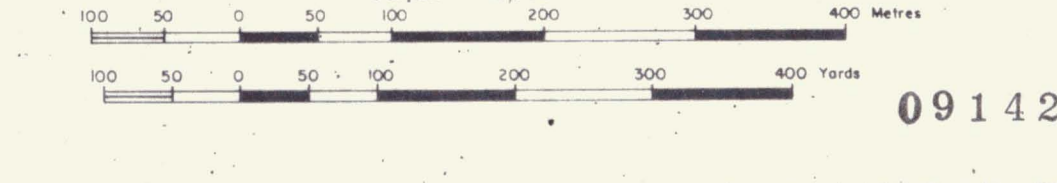
1982 samples (-35 mesh fraction analyzed)

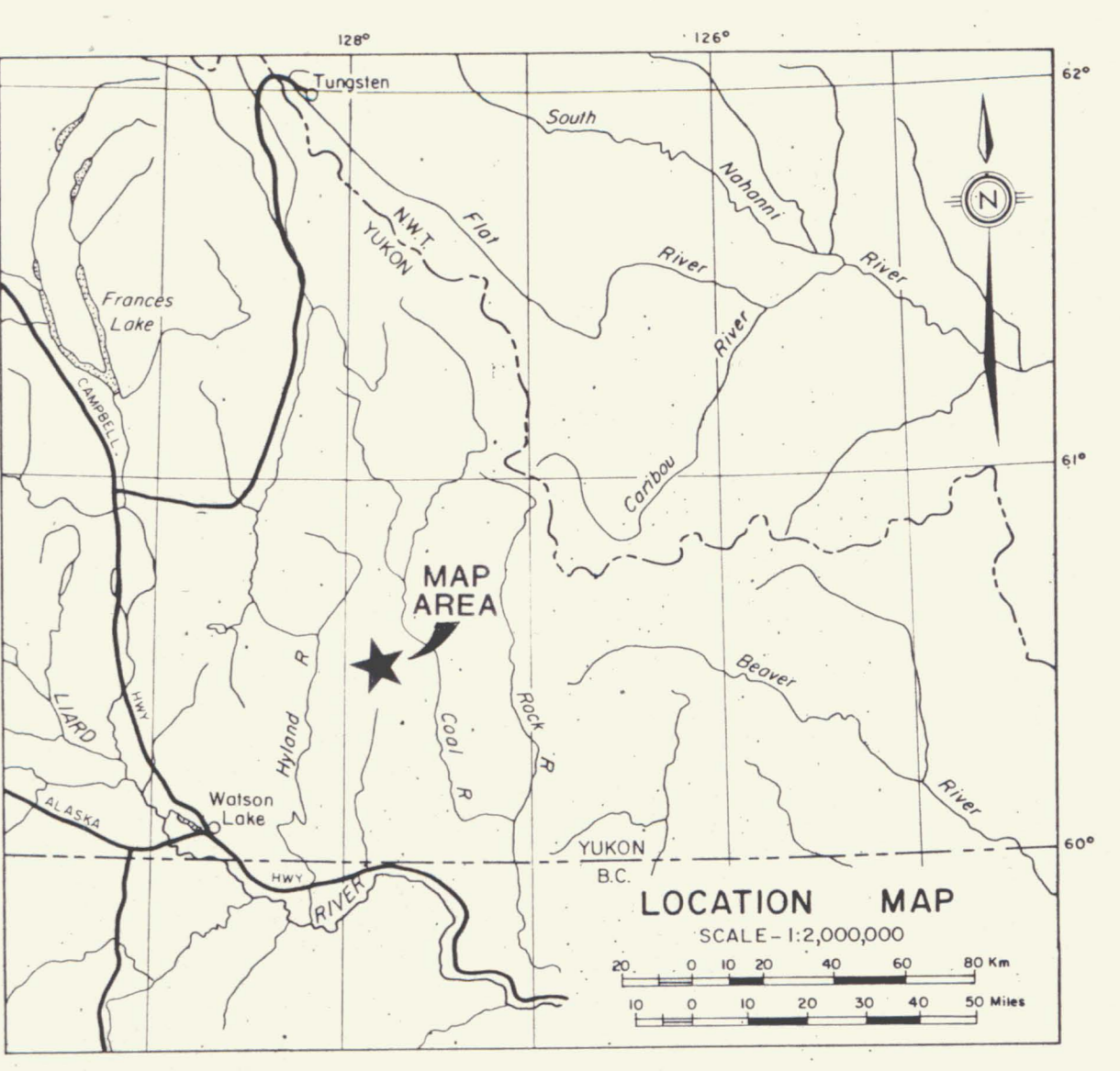
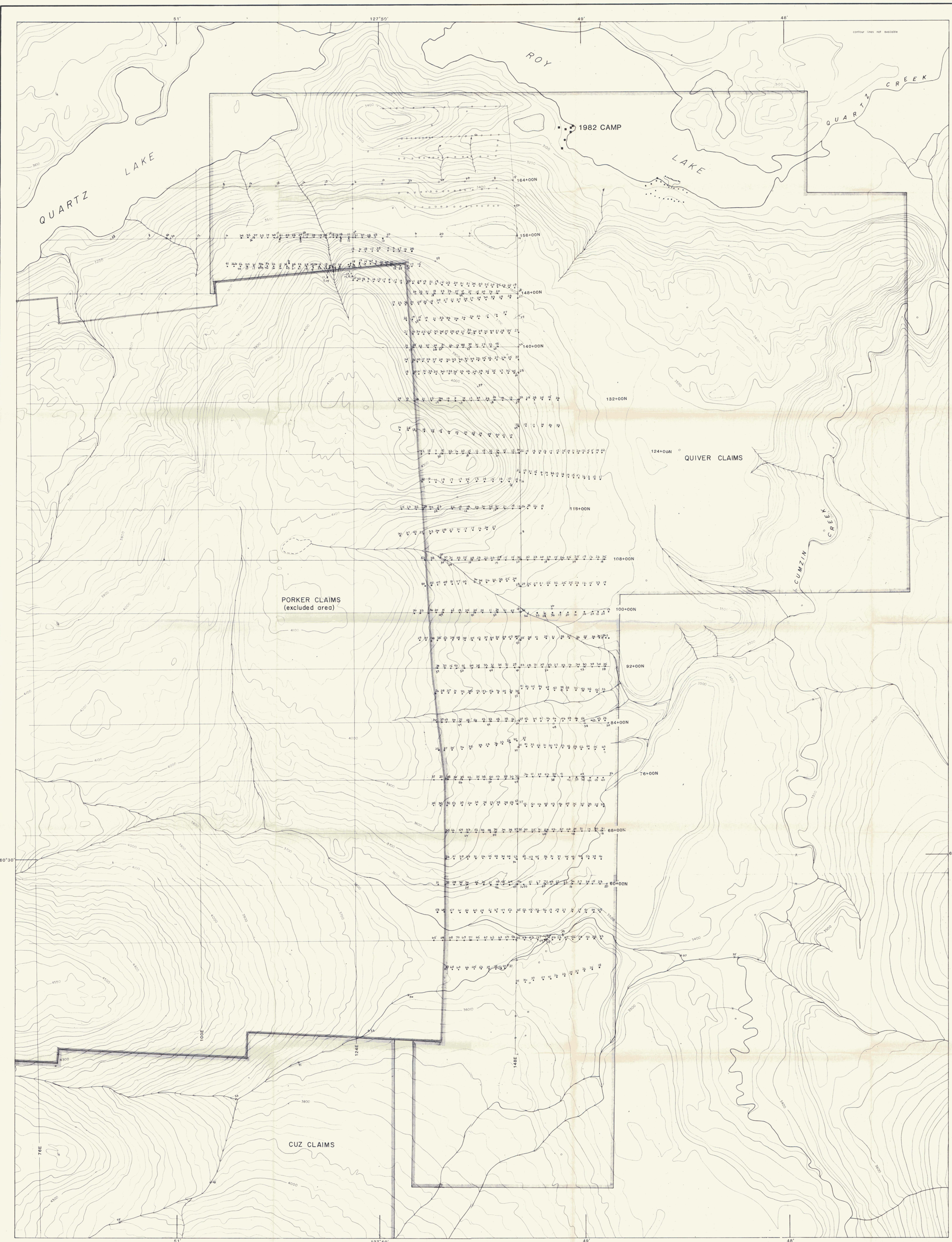
- ▲ soil sample: ppm Cu
- △ silt sample: ppm Cu
- rock sample: ppm Cu
- two samples collected at one site: -35 mesh fraction, -80 mesh fraction

— Cut lines

Figure 7
 ARCHER, CATRO & ASSOCIATES (1981) LIMITED

COPPER GEOCHEMISTRY
QUIVER CLAIMS
 QUARTZ LAKE PROJECT





- LEGEND
- Pre 1982 samples (-80 mesh fraction analyzed)
 - soil sample: ppm Pb
 - silt sample: ppm Pb
 - rock sample: ppm Pb
 - 1982 samples (-35 mesh fraction analyzed)
 - soil sample: ppm Pb
 - silt sample: ppm Pb
 - rock sample: ppm Pb
 - two samples collected at one site: -35 mesh fraction, -80 mesh fraction
 - + Cut lines

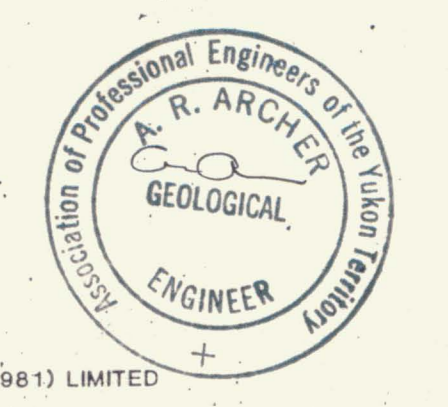
Figure 8
 ARCHER, CATRO & ASSOCIATES (1981) LIMITED

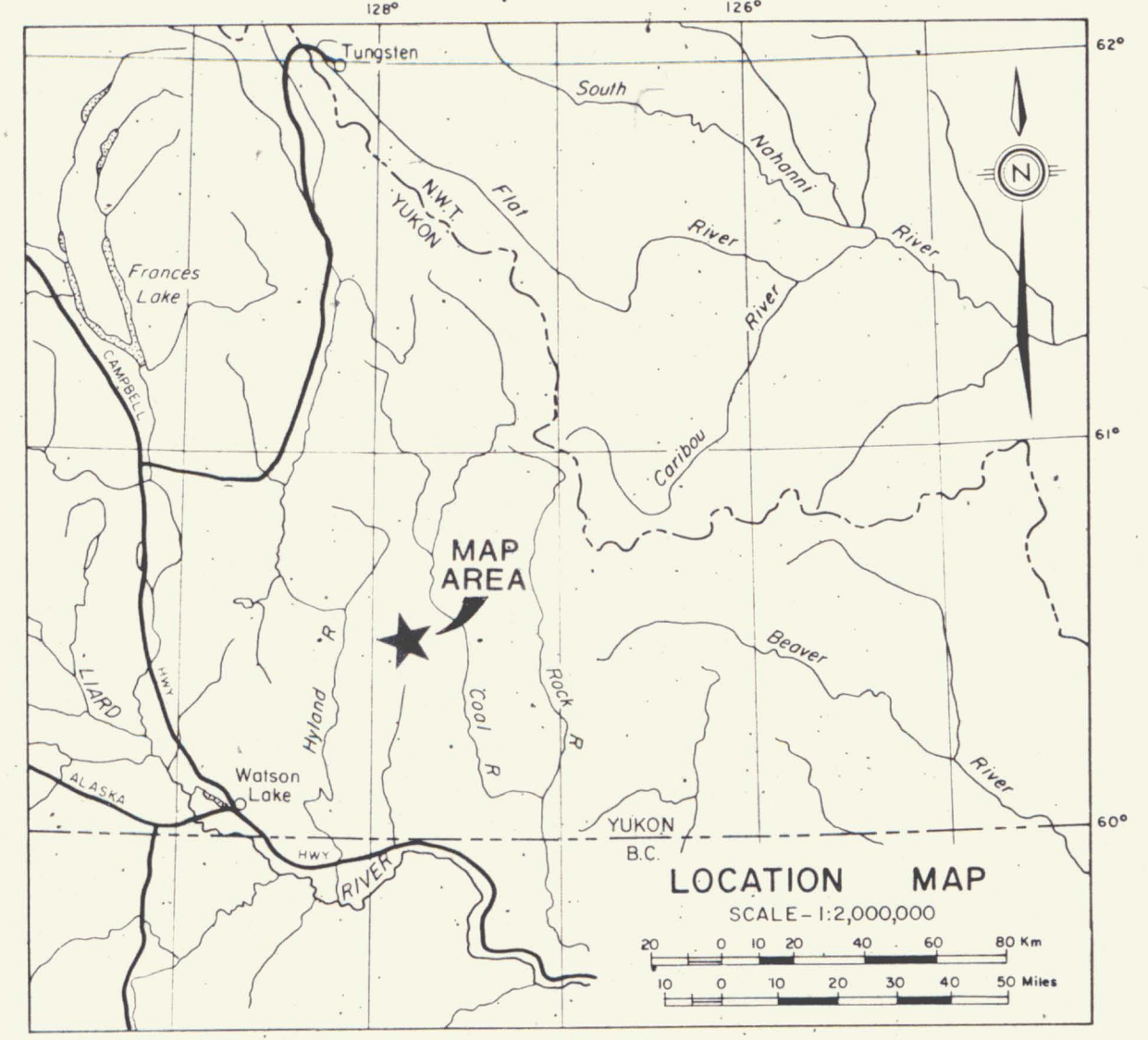
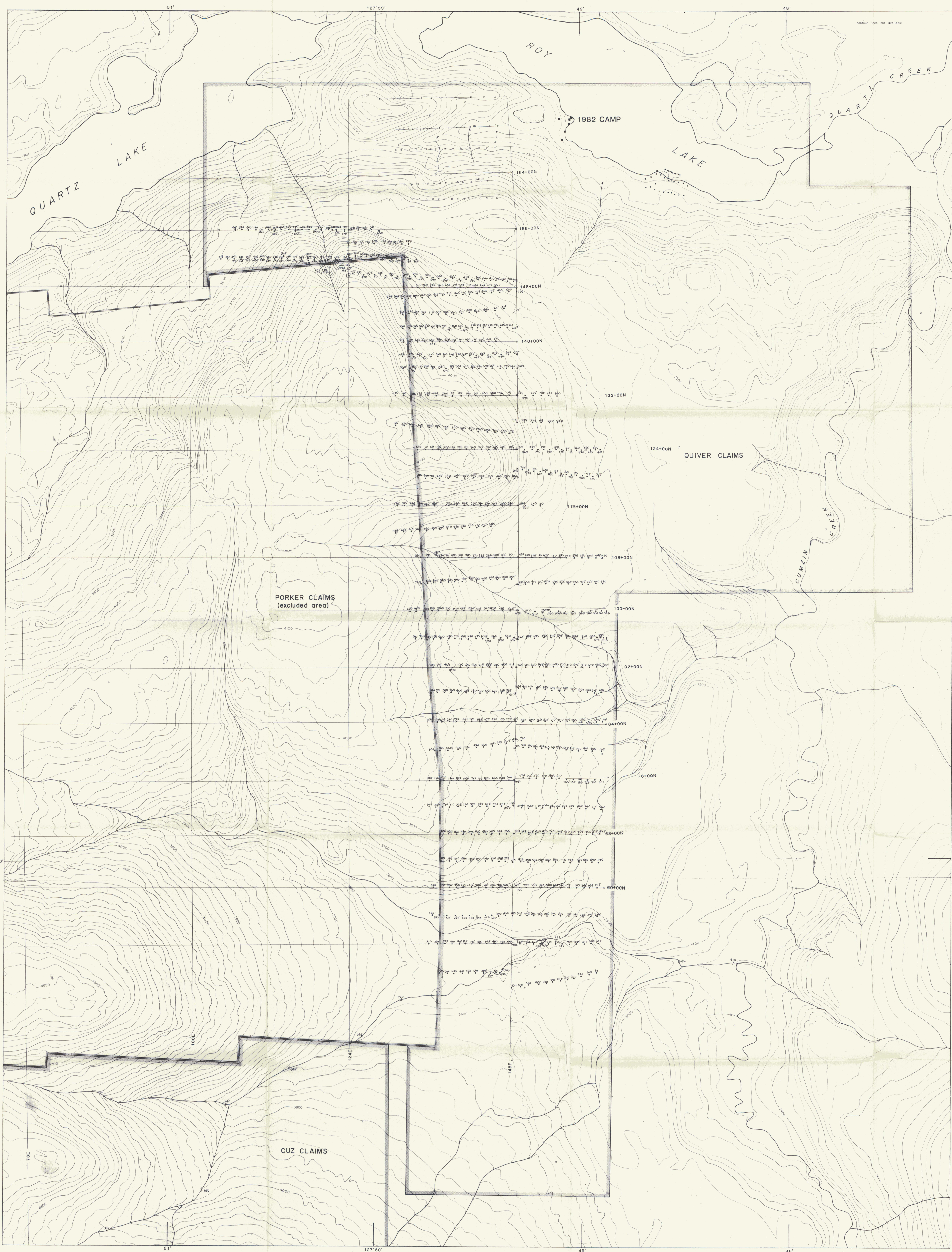
LEAD GEOCHEMISTRY

QUIVER CLAIMS 0914251

QUARTZ LAKE PROJECT 001125

0 100 200 300 400 METERS





- LEGEND
- Pre 1982 samples (-80 mesh fraction analyzed)
 - soil sample: ppm Mn
 - ◐ silt sample: ppm Mn
 - ◑ rock sample: ppm Mn
 - 1982 samples (-35 mesh fraction analyzed)
 - soil sample: ppm Mn
 - ◐ silt sample: ppm Mn
 - ◑ rock sample: ppm Mn
 - ⊞ two samples collected at one site: -35 mesh fraction, -80 mesh fraction
 - + Cut lines

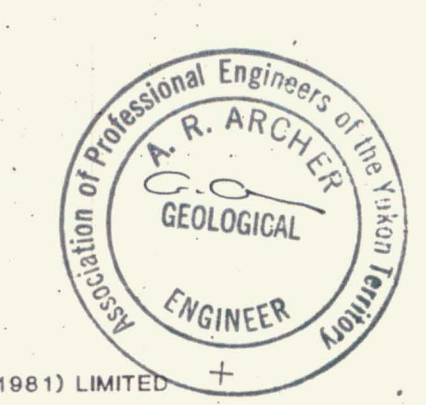
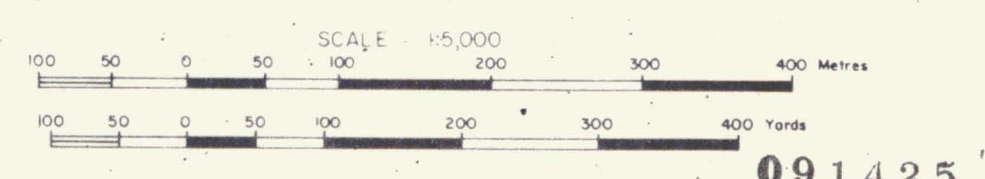


Figure 9
 ARCHER, CATRO & ASSOCIATES (1981) LIMITED

MANGANESE GEOCHEMISTRY
QUIVER CLAIMS
 QUARTZ LAKE PROJECT



091425

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