PRELIMINARY REPORT

ON THE

TIN 1-8 MINERAL CLAIMS
WATSON LAKE MINING DISTRICT
N.T.S. 105-H-12
61° 43' N 129° 57' W
YUKON TERRITORY

BY

D. YEAGER - GEOLOGIST
C. K. IKONA - P.ENG.

090 620

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

$ 600

Resident Geologist or
Resident Mining Engineer

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

E. R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

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1.0 INTRODUCTION

The TIN 1-8 mineral claims were staked by Pamicon Developments Ltd. in March, 1979 to cover an area of interest in the Frances Lake area of the southeastern Yukon. The initial geochemical sampling was conducted by D. Yeager and indicated a number of streams having anomalous values for zinc in sediments.

2.0 LIST OF CLAIMS

Claim Name	Grant No.	Recording Date
TIN 1-8	YA36021-28	March 15, 1979

3.0 LOCATION AND ACCESS

The TIN 1-8 claims are located on N.T.S. sheet 105-H-12, approximately 13 miles northwest of Frances Lake in the southeastern Yukon Territory. Approximate coordinates of the claim group are 61° 43' N latitude and 129° 57' W longitude.

Access to the property is by helicopter from the Robert Campbell Highway, situated 11 miles to the southwest at its closest point. Both helicopter and fixed wing aircraft as well as full expediting services are available in Ross River, approximately 85 miles to the WNW. Daily jet flights and all essential supply services are also available at Watson Lake, 130 road miles to the south.

4.0 TOPOGRAPHY AND VEGETATION

The property covers a high, plateau topped mountain on the west side of the Yusezyu River valley and lies between elevations 4,000 feet and 5,500 feet A.S.L. Topography ranges from gentle to steep.

Treeline is at the 5,000 foot elevation level where dwarf birch, poplar, and black spruce give way to scattered scrub balsam, lichen, and grasses typical of an arctic-alpine environment.

PAMICON DEVELOPMENTS LTD.

YUKON LOCATION MAP

TIN 1-8 MINERAL CLAIMS

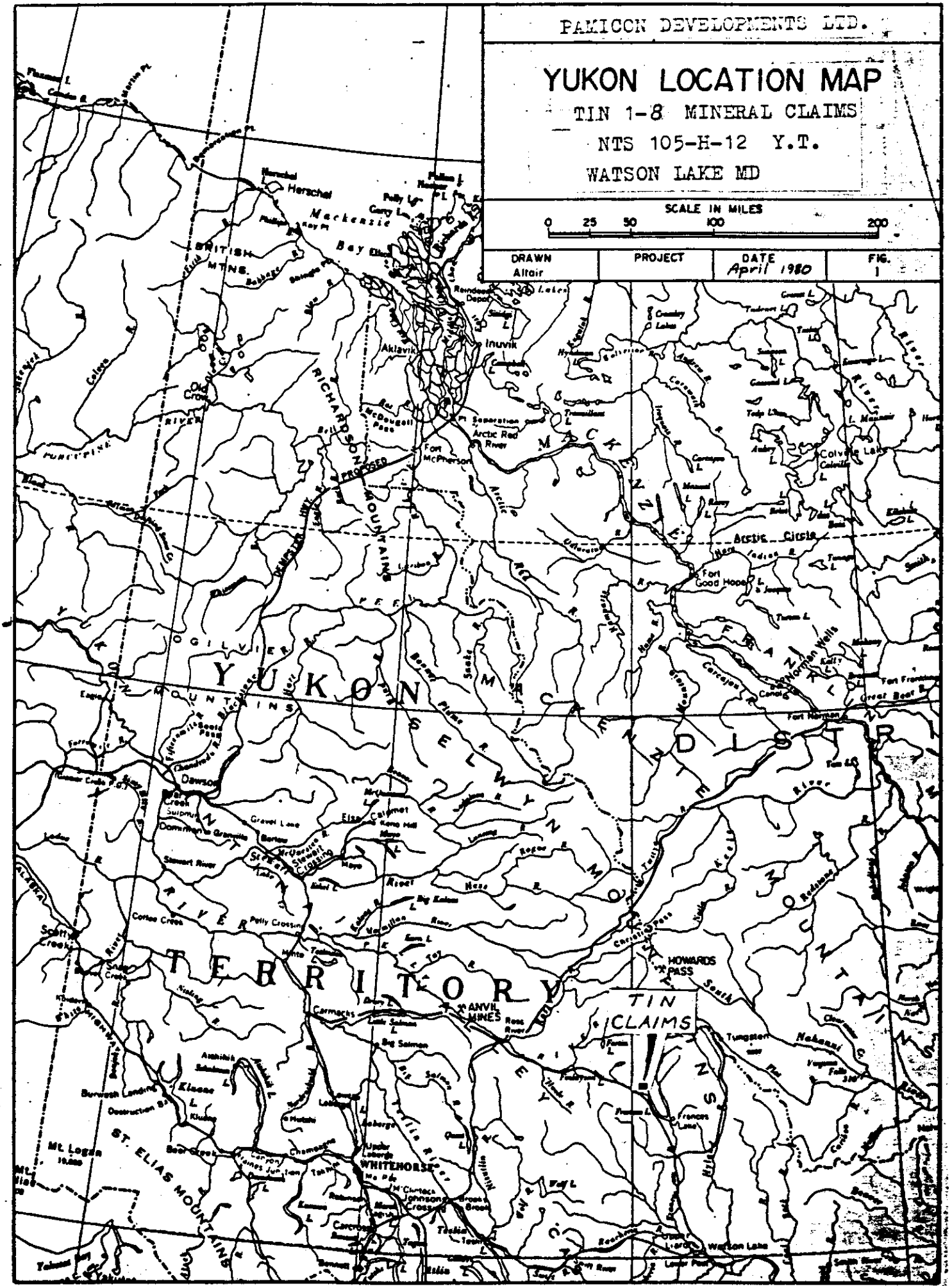
NTS 105-H-12 Y.T.

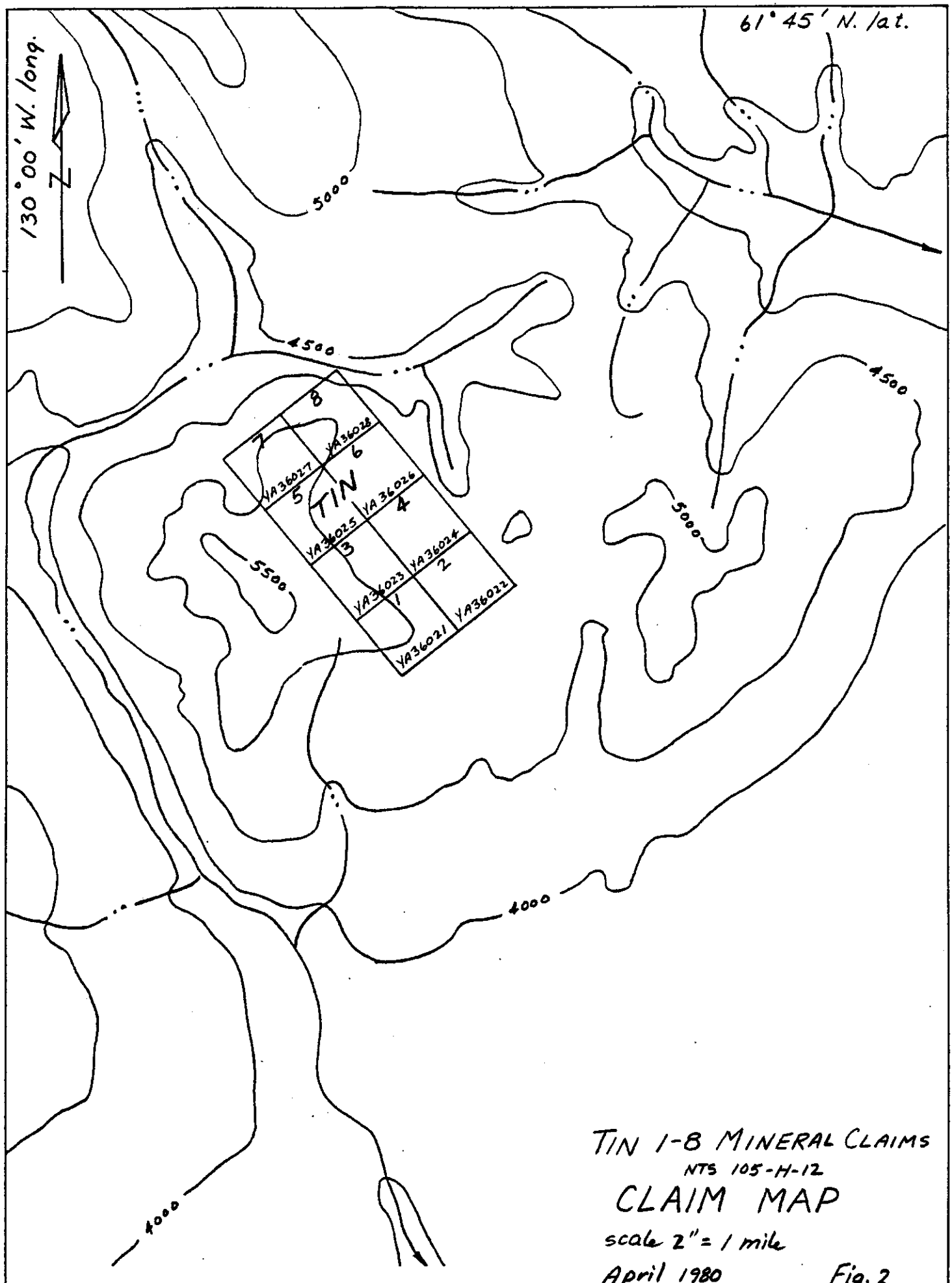
WATSON LAKE MD

SCALE IN MILES

0 25 50 100 200

DRAWN	PROJECT	DATE	FIG.
Altair		April 1980	1





TIN 1-8 MINERAL CLAIMS

NTS 105-H-12

CLAIM MAP

scale 2" = 1 mile

April 1980 Fig. 2

Pamicon Developments Ltd.

5.0 GEOLOGY

The geology of the entire area has been mapped by the Geological Survey of Canada at 1 inch to 4 miles and is presented in Map 6 - 1966, Geology of Frances Lake, Yukon Territory and District of MacKenzie, by E.F. Roots (1953), L.H. Green and J.A. Roddick (1960) and S.L. Blusson (1962, 1965).

The Frances Lake-Finlayson River area is underlain by a thick succession of clastic and carbonate sediments. The TIN claims occur in an area of Silurian and Devonian dolomites, quartzites and silty dolomites (see Figure 3 this report). These sediments are unlain in the northern part of the property by Cambrian shales, siltstones, slates, and sandstones.

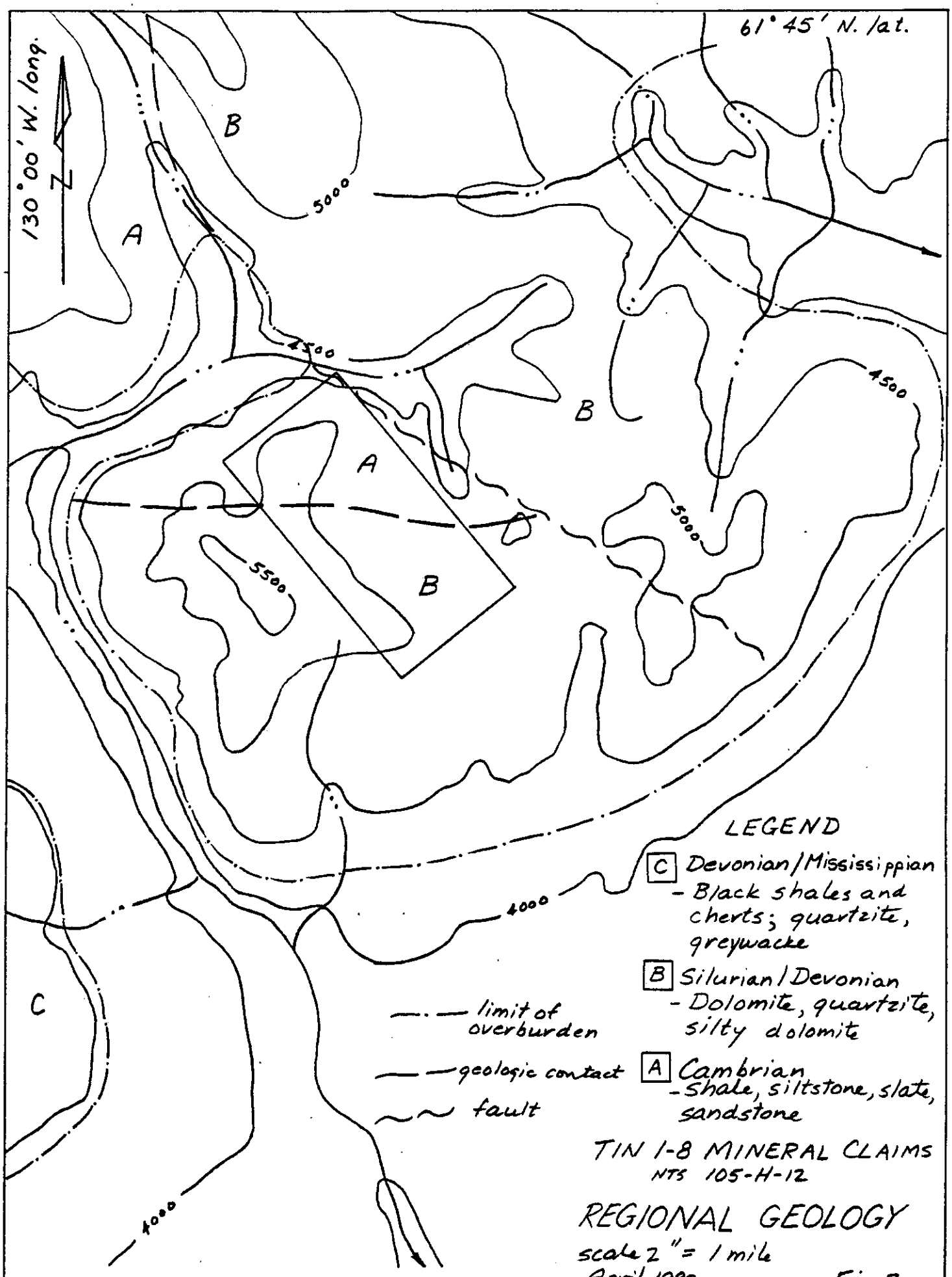
Devonian and Mississippian black shales from a restricted basin type environment occur to the southeast of the claims.

6.0 GEOCHEMISTRY

A total of 25 silt samples and one rock geochemistry sample were taken in the map area and analyzed for lead, zinc, and silver. Sample locations and values are presented in Figures 4 - 6 of this report.

Samples were taken at approximately 500 foot intervals from active streams. A number of streams on the property were frozen and were therefor not sampled. The samples were placed in numbered Kraft envelopes and sent for analysis to Chemex Labs Ltd. of North Vancouver, B.C. where they were analyzed using standard atomic absorption techniques.

Of the 25 silt samples taken, fourteen are considered anomalous (200 - 400 ppm) and two are considered highly anomalous (over 400 ppm) in zinc. The highest values occur in the southeast corner of the claims where two values of 400 and 410 parts per million zinc were taken. Anomalous values in zinc occur for a mile downstream from this point. The anomalous values are considered to be a result of downstream dispersion from the area of highly anomalous zinc. The rock geochemistry

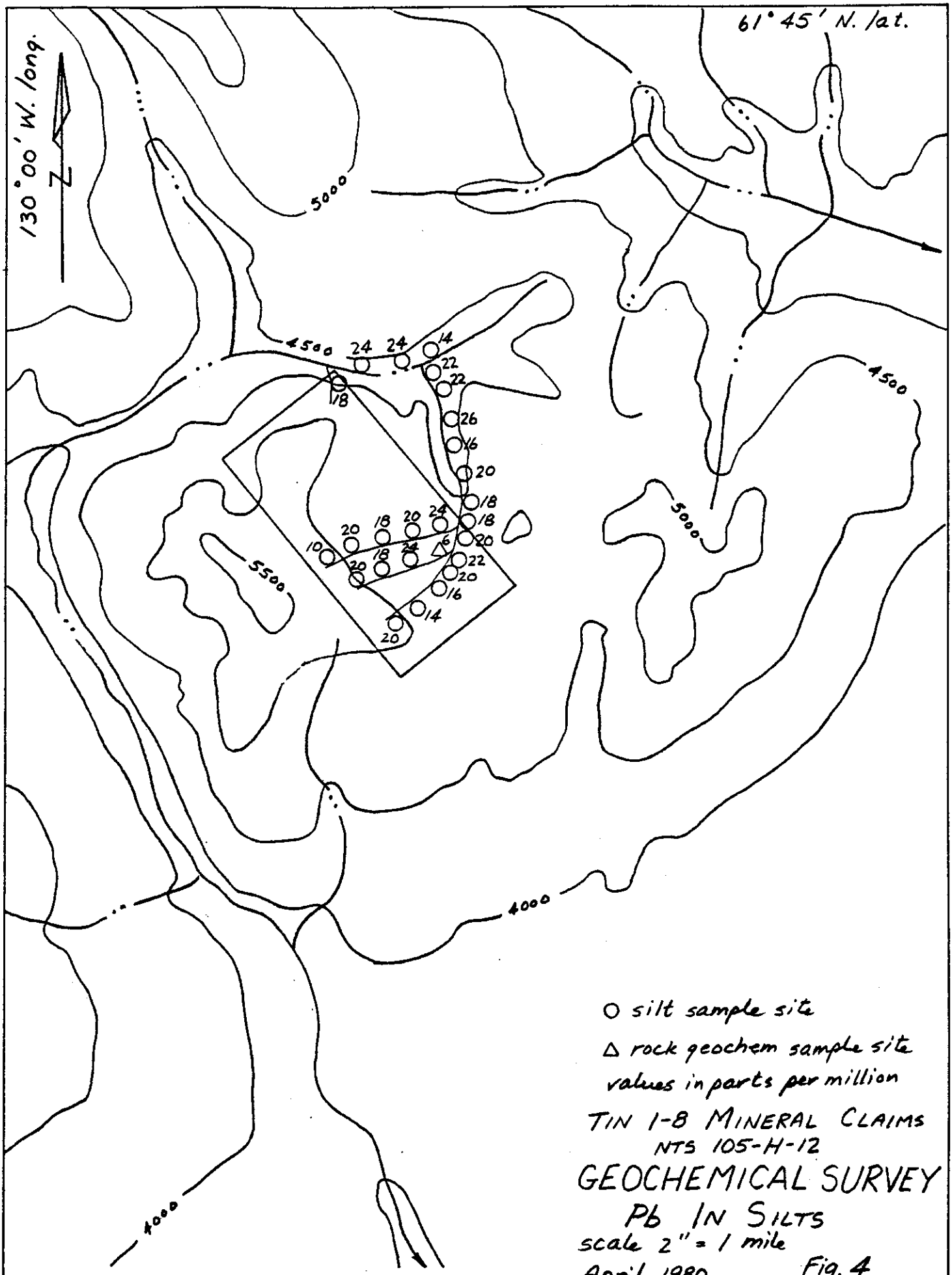


TIN 1-8 MINERAL CLAIMS
NTS 105-H-12

REGIONAL GEOLOGY

scale 2" = 1 mile
April, 1980 Fig. 3

Pamicon Developments Ltd.



○ silt sample site

△ rock geochem sample site

values in parts per million

TIN 1-8 MINERAL CLAIMS

NTS 105-H-12

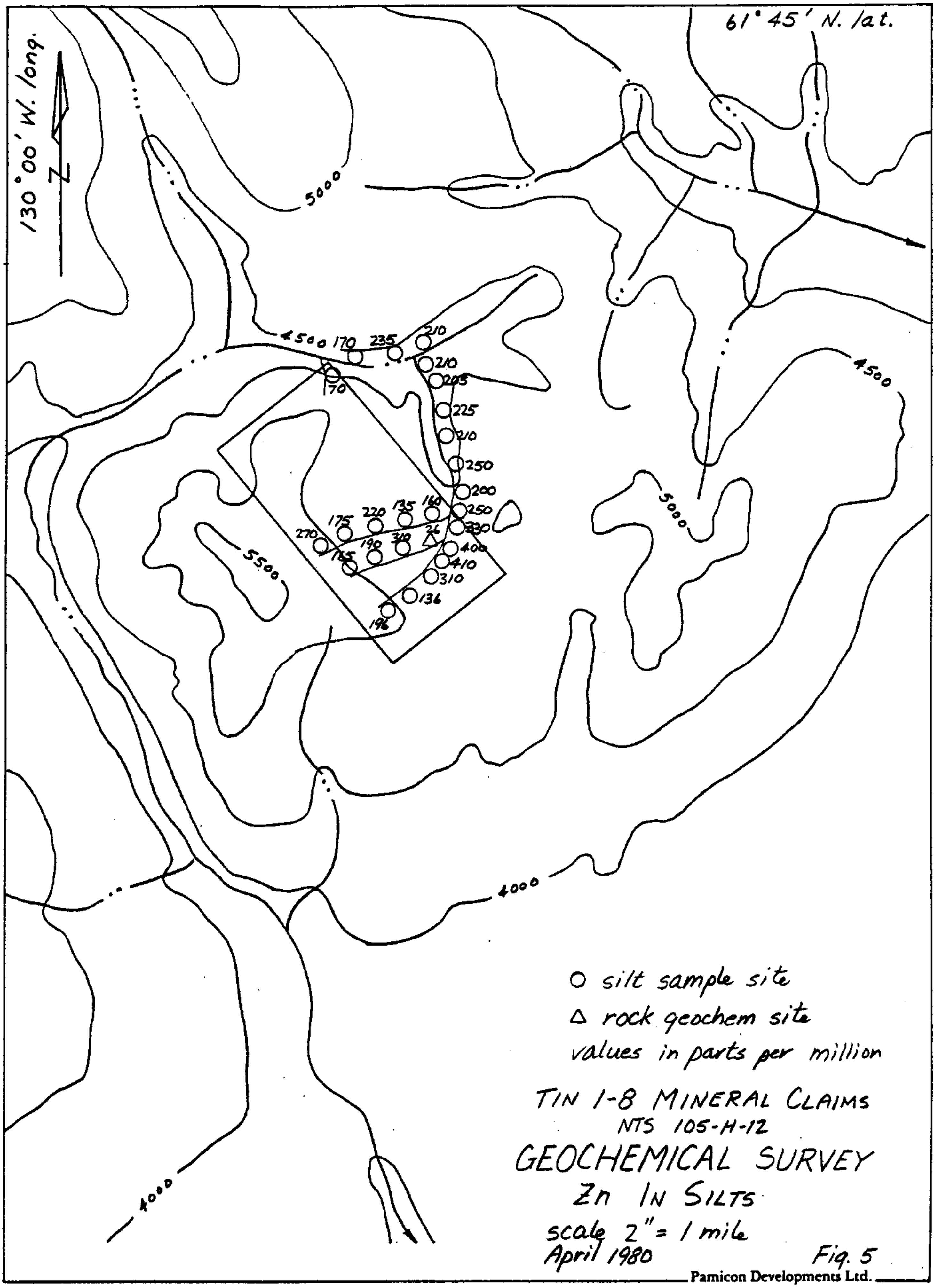
GEOCHEMICAL SURVEY

Pb IN SILTS

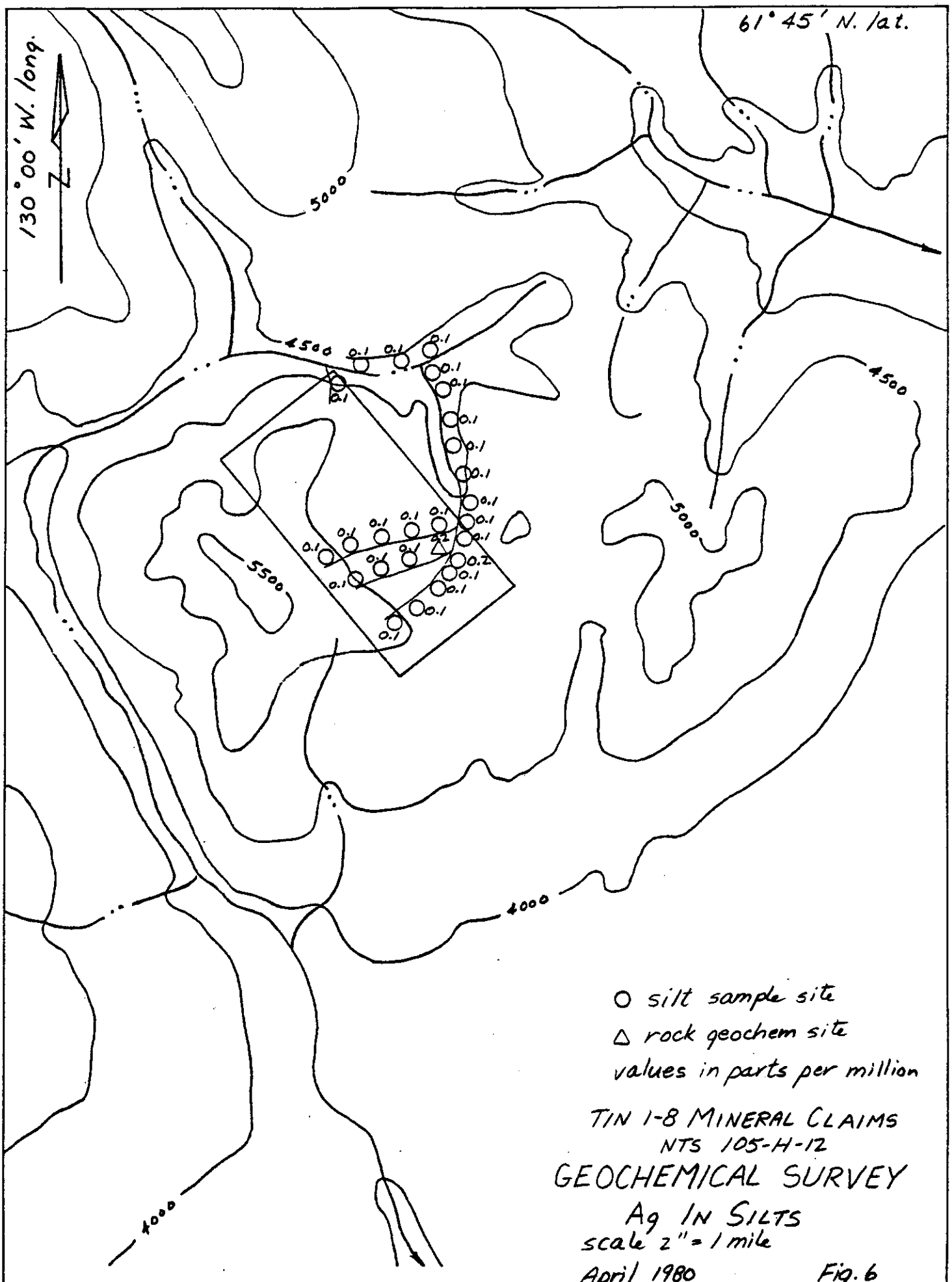
scale 2" = 1 mile

April 1980 Fig. 4

Pamicon Developments Ltd.



TIN 1-8 MINERAL CLAIMS
NTS 105-H-12
GEOCHEMICAL SURVEY
Zn IN SILTS
scale 2" = 1 mile
April 1980
Fig. 5
Pamicon Developments Ltd.


61° 45' N. lat.
130° 00' W. long.
N
5000
4500
4000
5500
0.1
0.2
○ silt sample site
△ rock geochem site
values in parts per million
TIN 1-8 MINERAL CLAIMS
NTS 105-H-12
GEOCHEMICAL SURVEY
Ag IN SILTS
scale 2" = 1 mile
April 1980
Fig. 6
Pamicon Developments Ltd.

sample contained only background levels of zinc.

All samples taken contained only background levels of lead and silver although one of the samples highly anomalous in zinc analyzed higher than average in silver (0.2 parts per million).

7.0 DISCUSSION AND CONCLUSIONS

The TIN claims occur in a geologically favourable area of Silurian to Devonian sedimentary rocks thought to be equivalent to the Road River formation. The contact with the overlying Upper Devonian shales and limestones of the Canol Formation is thought to be particularly significant as a number of important stratiform silver/lead/zinc occurrences elsewhere in the Selwyn Basin are found at this stratigraphic level. As the preliminary mapping done to date does not indicate the location of this contact, continued mapping and prospecting in the claims area is an important priority.

The presence of anomalous zinc values in stream sediments taken on the property indicates the value of silt sampling as a prospecting technique. As large areas of the property are overburden covered, soil sampling is also recommended.

Due to the presence of snow, insufficient prospecting was done during the survey. However, outcrop and talus are available for prospecting on the steeper areas of the claims. Geologic mapping could also be carried out in these areas.

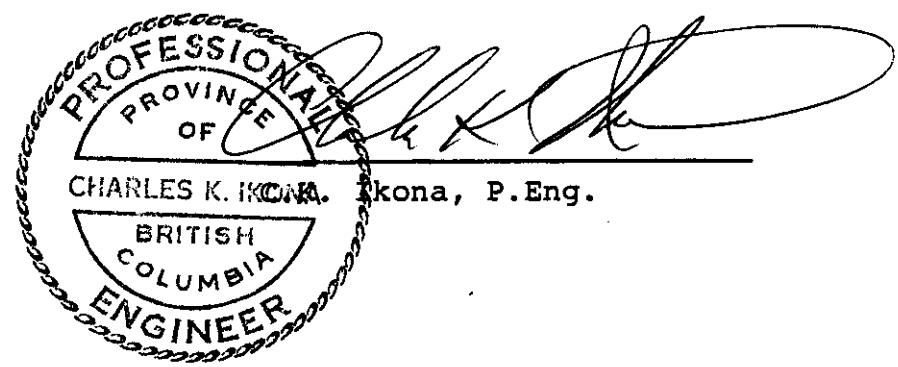
8.0 RECOMMENDATIONS

It is recommended that the TIN claims be held on assessment credits and the following work program be carried out:

1. Detailed silt sampling of the rest of the streams draining the property area should be carried out.
2. Prospecting and geologic mapping should be done on the property by personnel familiar with the occurrence of lead and zinc in sediments. Any showings discovered should be mapped and sampled.

3. Soil sample grid should be established in all showing areas to delineate zones of interest outside the showings themselves.

Respectfully submitted,
D. Yeager, Geologist



C.K. Ikona, P.Eng.

ENGINEER'S CERTIFICATE

I, Charles I. Ikona, of 5 Cowley Court, Port Moody in the Province of British Columbia, do hereby certify that:

1. I am a Consulting Mining Engineer with offices at 208, 850 West Hastings Street, Vancouver, B.C.

2. I am a graduate of the University of British Columbia with a degree in Mining Engineering.

3. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.

4. The work reported herein was conducted during a program under my supervision and under the supervision of a geologist, D.A. Yeager, whom I have known for a period of years and in whom I have every confidence.

Dated this 22 day of MAY 1980

at VANCOUVER, B.C.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA CHARLES I. IKONA

Charles I. Ikona, P. Eng.

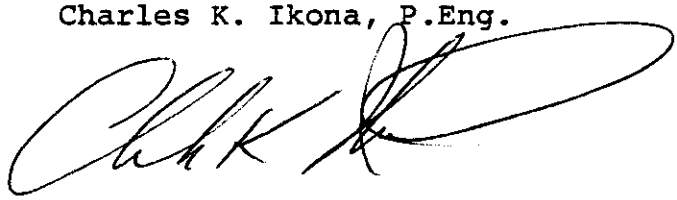
APPENDIX II

AFFIDAVIT OF EXPENDITURE

I hereby certify that the following funds were expended on the project herein discussed.

Travel and Accommodation	$ 185.41
Wages	225.00
Helicopter Support	1,079.12
Report Preparation	200.00
Analysis	95.50
	$1,785.03

Charles K. Ikona, P.Eng.



APPENDIX III

LIST OF PERSONNEL EMPLOYED

October 4 to October 10, 1979 (part-time)
D. Yeager, Geologist, Bowen Island, B.C.

APPENDIX IV

CERTIFICATES OF ANALYSIS

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 51071

INVOICE NO. 33331

RECEIVED Oct. 11/79

ANALYSED Oct. 19/79

TO: Pamicon Developments Ltd.,
208 - 850 W. Hastings St.,
Vancouver, B.C.
V6B 1P1

ATTN: Dave Yeager

SAMPLE NO. :	PPM Pb	PPM Zn	PPM Ag
T - 1	20	196	0.1
2	14	136	0.1
3	16	310	0.1
4	20	410	0.1
5	22	400	0.2
7	24	310	0.1
8	18	190	0.1
9	20	165	0.1
10	10	270	0.1
11	20	175	0.1
12	18	220	0.1
13	20	135	0.1
14	24	160	0.1
15	20	330	0.1
16	18	250	0.1
17	18	200	0.1
18	20	250	0.1
19	16	210	0.1
20	26	225	0.1
21	22	205	0.1
22	22	210	0.1
23	14	210	0.1
24	24	235	0.1
25	24	170	0.1
T - 26	18	70	0.1

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hans Bielle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 51067
INVOICE NO. 33379
RECEIVED Oct.11/79
ANALYSED Oct.23/79

TO: Pamicon Developments Ltd.
208-850 W. Hastings St.
Vancouver, B. C.
V6B 1P1

cc: Dave Yeager

ATTN:

ROCKS

SAMPLE NO. :	PPM Pb	PPM Zn	PPM Ag	
64747A	6	26	0.2	TIN

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: .....