

**Geochemical Report**

**on the**

**BLOO, CLIMAX, THOR, AND THOR 2 TO 16 MINERAL CLAIMS  
THOR NORTH GROUP (BLOO, CLIMAX, THOR 2, 3, 4, 6)  
THOR CENTRAL GROUP (THOR 5, 8, 9)  
THOR SOUTH GROUP (THOR 7, 10, 11, 12, 13, 14, 15, 16)**

**Nicola and Similkameen Mining Divisions  
Aspen Grove Area, British Columbia  
Latitude 40°50'; Longitude 120°35'  
NTS 92H/15E**

**For**

**LARAMIDE RESOURCES LTD.**

**By**

**I. M. WATSON & ASSOCIATES LTD.**

**I. M. Watson, P.Eng.  
Vancouver, B.C.**

**January, 1988**



I.M. WATSON & ASSOCIATES LTD.

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**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**17,118**

**FILMED**

**I. M. Watson, P.Eng.  
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## Table of Contents

	<u>Page</u>
INTRODUCTION	1
LOCATION, ACCESS, PHYSIOGRAPHY	1
CLAIMS	2
HISTORY	3
GEOCHEMICAL SAMPLING PROGRAMME 1987	5
GEOLOGICAL SETTING	6
DISCUSSION OF RESULTS	7
1. THOR North Group	
2. THOR Central and South Groups	
SUMMARY	9
CERTIFICATE OF QUALIFICATIONS	10
REFERENCES	11
STATEMENT OF COSTS	12
THOR North Group	
THOR Central Group	
THOR South Group	
Summary of Costs	

## Appendices

### Geochemical Analytical Results

## List of Illustrations

<u>In Text</u>		<u>Following Page</u>
Figure 1	Location Map	Cover
Figure 2	Access and Claims	1
Figure 3	Geochemical Sampling Coverage	5
Figure 4a, 4b	Regional & Generalised Geology	9
Figure 6.1a	THOR 11 - Detail Geochemical Sampling - Au, Ag	9
Figure 6.1b	THOR 11 - Detail Geochemical Sampling Pb, Cu	9
Figure 6.2a	THOR 12 - Detail Geochemical Sampling - Au, Ag	9
Figure 6.2b	THOR 12 - Detail Geochemical Sampling Pb, Cu	9
Figure 6.3a	THOR 14 - Detail Geochemical Sampling - Au, Ag	9
Figure 6.3b	THOR 14 - Detail Geochemical Sampling Pb, Cu	9
<u>In Pocket</u>		
Figure 5a	THOR North - Reconnaissance Geochemical Sampling - Au, Ag	
Figure 5b	THOR North - Reconnaissance Geochemical Sampling - Pb, Cu	
Figure 6a	THOR Central & South - Reconnaissance Geochemical Sampling - Au, Ag	
Figure 6b	THOR Central & South - Reconnaissance Geochemical Sampling - Pb, Cu	



## INTRODUCTION

During 1985, I.M. Watson & Associates Ltd. carried out reconnaissance geological-geochemical surveys over selected areas of the THOR North, Central and South Groups in the Aspen Grove-Missezula Lake area of South Central B.C. (Lisle 1985).

This work was intended as a first assessment of the precious metal potential of the property, which is underlain by volcanic, sedimentary, and intrusive rocks of the Nicola Belt. Interest in the area arose initially from the similarity of the geological setting to that hosting the porphyry copper-gold deposits of the Quesnel-Cariboo area.

In late 1985 gold bearing quartz-vein stockworks were discovered on the SADIM property, immediately south and adjoining the THOR South group. The stockworks are fault related and occur in strongly carbonatised and pyritised andesitic tuffs of the Nicola Group (Watson 1985, 1986). Similar altered tuffs had been recognised during the work on the THOR claims and in 1987 a geochemical rock sampling programme was put into effect to investigate lithological sequences similar to those hosting the gold zone to the south, with particular emphasis on the occurrences of carbonatised volcanic rocks.

This report summarises the results of the 1987 programme, which was carried out by I. M. Watson & Associates Ltd. on behalf of Laramide Resources Ltd., during the period 12 June to 6 September 1987.

## LOCATION, ACCESS & PHYSIOGRAPHY

The THOR groups are situated east of the Princeton-Merritt Highway 5A, between 28 and 45 kilometres south of Merritt (Figs. 1, 2). The latitudinal and longitudinal limits of the claims are 49°44' and 49°55' North, and 120°30' and 120°37' West.

The north and central groups and most of the south group lie within the Nicola Mining Division. The THOR 13-16 claims and part of the THOR 12 claim are in the Similkameen Mining Division. All but the southernmost part of the property is in the 92H/15E map area.

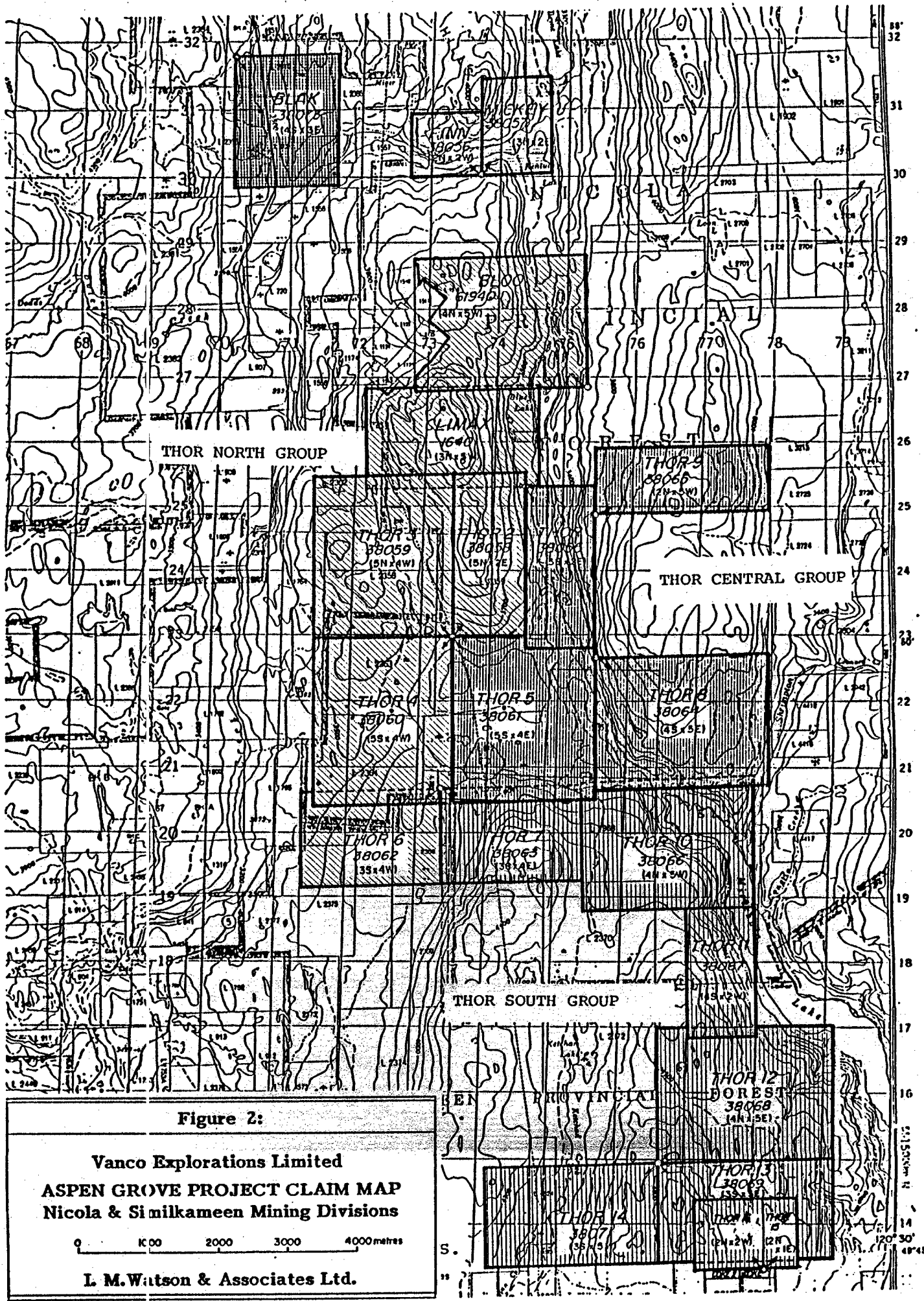


Figure 2:

Vanco Explorations Limited  
 ASPEN GROVE PROJECT CLAIM MAP  
 Nicola & Similkameen Mining Divisions

0 1000 2000 3000 4000metres

L. M. Watson & Associates Ltd.

All-weather gravel roads provide access from Highway 5 to the Kentucky, Alleyne and Bluey Lakes areas in the northern part of the claim group and to Missezula Lake in the south. Numerous logging roads and mining tracks branch off these main roads and most areas of the property can be reached by two-wheel drive.

The property lies in the southern part of the Thompson Plateau. Topography reflects the predominantly northerly structural trend, accentuated by glaciation; heavily wooded, relatively gentle upland slopes are cut by deep, steep sided north trending valleys. Bedrock exposure is mainly a function of glacial action; outcrop is abundant on ridges and along the upper slopes of steep valleys, but lower slopes and valley bottoms bear a thick mantle of glacial overburden. Away from the main north-south river valleys, drainage is weakly developed and consists of ill-defined water courses and seepages. Elevations within the property area range from 1,615 to 1,030 metres (a.s.l.).

Vegetation is dense on northerly slopes, but is more open and park like on south facing hillsides. Mixed conifers and poplars dominate; alders occupy swamp areas and drainage courses.

Large open areas reflect recent and active logging in the central and southern parts of the property, and most of the area is used as cattle range. The Douglas Lake-Newmont power line crosses the northern group of claims and lies just east of the southern groups.

### CLAIMS

The property consists of 18 claims (253 units) which were staked by and for I.M. Watson and J.H. Randa during 1984 and 1985. The claims were optioned to Vanco Explorations Ltd. in 1984. Claim data are listed below. Group allocations are indicated in the table and in Figure 2.



<u>Name</u>	<u>Units</u>	<u>Record Date</u>	<u>Record No.</u>	<u>Mining Division</u>
Bloo (N)	20	Aug. 31, 1984	1553	Nicola
Climax (N)	15	July 9, 1985	1640	Nicola
Thor (C)	10	Aug. 31, 1984	1552	Nicola
Thor 2 (N)	10	Sept. 7, 1984	1556	Nicola
Thor 3 (N)	20	Sept. 7, 1984	1557	Nicola
Thor 4 (N)	20	Sept. 7, 1984	1558	Nicola
Thor 5 (C)	20	Sept. 7, 1984	1559	Nicola
Thor 6 (N)	12	Sept. 7, 1984	1560	Nicola
Thor 7 (S)	12	Sept. 7, 1984	1561	Nicola
Thor 8 (C)	20	Sept. 7, 1984	1562	Nicola
Thor 9 (C)	10	Sept. 7, 1984	1563	Nicola
Thor 10 (S)	20	Oct. 10, 1984	1573	Nicola
Thor 11 (S)	8	Oct. 10, 1984	1574	Nicola
Thor 12 (S)	20	Oct. 10, 1984	2281	Similkameen
Thor 13 (S)	15	Oct. 10, 1984	2282	Similkameen
Thor 14 (S)	15	Oct. 10, 1984	2283	Similkameen
Thor 15 (S)	2	Aug. 6, 1985	2432	Similkameen
Thor 16 (S)	<u>4</u>	Aug. 6, 1985	2433	Similkameen
	<u>253</u>			

N = North Group

C = Central Group

S = South Group

## HISTORY

Exploration activity in the Aspen Grove area dates back to the turn of the century. Early work focussed on copper showings in the Nicola volcanics, and resulted in a number of trenches, pits, shafts and adits being excavated on the more promising zones. These included the 'CINCINATTI' and 'BANK OF ENGLAND' showings just to the north of the property, the 'BUNKER HILL' and 'TOM CAT' on the BLOO claim, and the 'BOSS' on the THOR 7 claim.

During the 1960's and early 1970's, exploration for porphyry copper deposits was at its height, and the Aspen Grove camp was the scene of intense activity. Although porphyry type mineralisation was found over a wide area, no economic concentrations were outlined. Within the boundaries of the present property, over 20 copper occurrences and showings have been documented.

During 1967, Vananda Explorations and Merritt Copper Co. carried out I.P. and magnetometer surveys on ground now held by Laramide Resources Ltd. 8 kms. due north of the THOR claim groups. The resultant anomalies were drilled with the following results:

DDH1:

<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Width</u>
0.13 ozs	1.15 ozs	0.70%	165' - 175' (10')
0.15 ozs	0.48 ozs	0.20%	210' - 270' (60')
0.115 ozs	1.68 ozs	0.26%	310' - 320' (10')

Laramide acquired the property in 1983 and after completing magnetometer and I.P. surveys, drilled 12 diamond drill holes, four of which intersected gold-bearing altered tuffs at the base of limey graphitic and pyritic argillites. Assays ranging up to 0.42 oz Au/ton over 15 feet were obtained. Since then further drilling has been done by Lornex in 1986 and Gerle Gold Ltd. in 1987.

In 1984 I.M. Watson and J.H. Randa began staking the THOR groups of claims in the Aspen Grove area. The intention was to acquire ground where the geological environment was similar to that hosting the porphyry gold-copper deposits of the Quesnel-Cariboo area. Areas were selected on the basis of favourable geology, mineral occurrences and airborne magnetic anomalies.

In August of 1984 the claims were optioned to Vanco Explorations Ltd., and the following year I.M. Watson & Associates Ltd. carried out a reconnaissance geological-geochemical programme over selected areas of the property (Lisle 1985). 1,134 soil and 343 rock samples were collected from grid controlled traverses made over 11 separate areas. Results indicated areas of low grade gold soil anomalies on the BLOO, CLIMAX and THOR 12-16 claims. In most cases the gold anomalies occur in areas of propylitic alteration containing occurrences of fracture related copper mineralisation. On the BLOO claims, weak gold soil anomalies related to narrow weakly auiferous quartz-carbonate veins in altered diorites.

Reconnaissance mapping revealed the presence of several irregular, poorly exposed, zones of rusty weathering carbonatised tuffs.

Late in 1985 exploration of the SADIM property immediately south of the THOR claims led to the discovery of gold-silver bearing quartz veins in rusty altered tuffs.

Subsequent trenching and drilling late in 1986 and early 1987 showed that the veins were part of a zone or zones of fracture controlled stockworks hosted by carbonatised and pyritised tuffs. The stockworks and alteration are related to major northerly trending shear zones. The host altered tuffs are similar to those encountered on the THOR claims.

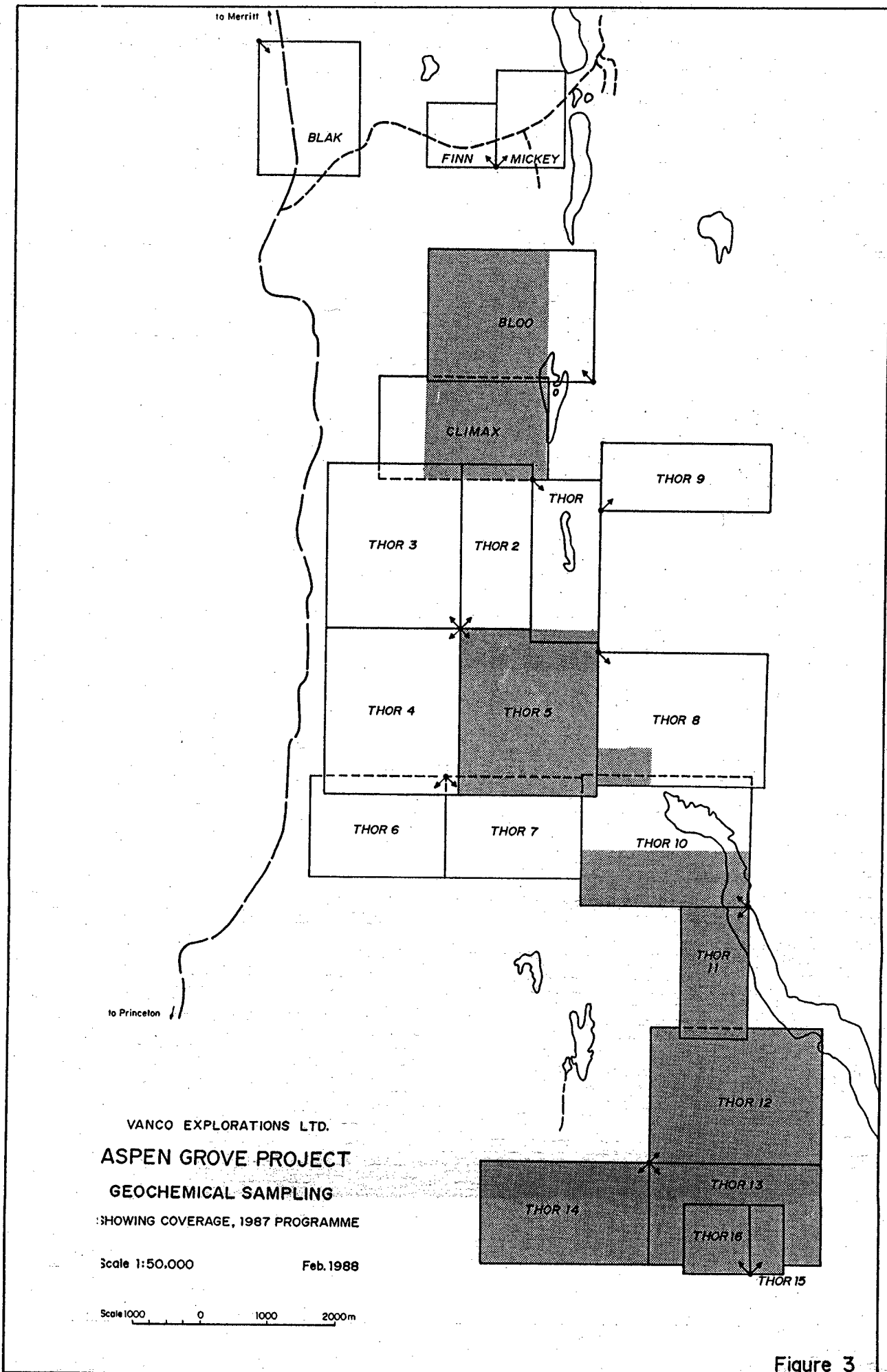
GEOCHEMICAL SAMPLING PROGRAMME, 1987

*"B" horizons sampled at  
15-51 cm depth.*

As a result of the discovery of the gold bearing quartz-vein stockworks on the SADIM claims, it was decided to re-examine areas of the THOR property where the lithological and structural environment was similar to that hosting the SADIM gold zone, with particular emphasis on zones of carbonatised and pyritised tuffs. Several such zones had been noted during the 1985 programme, notably on the BLOO-CLIMAX claims and in the southern part of the property (THOR 13-16 claims). Rock sampling traverses were controlled by flagged topofil and compass east-west oriented lines, using the 1985 base line and coordinate system. Traverses and sample spacing were laid out to complement the 1985 work, as far as possible. In areas of interest line intervals are 50 m. Frequency of sampling is mainly a function of rock exposure and the abundance of altered or mineralised rock. A representative 1-2 kg. panel sample was collected at each site.

Anomalies were investigated by re-examination of the immediate area followed by detailed soil and rock sampling, where warranted.

A total of 623 rock and 118 follow-up soil samples were collected, allocated as follows:



VANCO EXPLORATIONS LTD.  
 ASPEN GROVE PROJECT  
 GEOCHEMICAL SAMPLING  
 SHOWING COVERAGE, 1987 PROGRAMME

Scale 1:50,000 Feb. 1988



Figure 3

<u>Name</u>	<u>Rock</u>	<u>Soil</u>
THOR North Group	193	-
THOR Central Group	65	-
THOR South Group	<u>365</u>	<u>118</u>
	<u>623</u>	<u>118</u>

All samples were shipped to Acme Analytical Laboratories in Vancouver where they were analysed for Au by the Atomic Absorption Method (AA) and for Ag, Pb, and Cu by the Inductively Coupled Plasma Method (ICP).

### GEOLOGICAL SETTING

The THOR claim groups lie within the Nicola Belt, which forms the southern portion of a northwesterly trending 30-60 kms. wide assemblage of Upper Triassic volcanic and sedimentary rocks, extending from Princeton in the south to the Stikine in the north. The Nicola Belt passes north under Tertiary volcanics and sediments to reappear as the Quesnel Belt or Trough in the Quesnel-Cariboo area.

The volcanics of the Quesnel and Nicola Belt form a mixed alkaline and calc-alkaline sequence of basalts and derived volcanoclastic monolithic and polyolithic breccias and tuffs, and minor sediments.

The volcanic rocks are intruded by comagmatic alkaline plutons, ranging in composition from syenogabbro to alkali syenite. The intrusions appear to be structure related and occur in belts along major lineaments and faults. They vary in size from plugs to small batholiths, and have been emplaced into the volcanic centre which produced the abundance of volcanic material (Barr et al, 1976 - Fig. 4).

In the Aspen Grove Area, Preto (1979) has delineated three assemblages - a Western Belt of easterly dipping calc-alkaline volcanic flows, pyroclastics and sediments; a Central Belt of alkaline and calc-alkaline volcanics and intrusions, and minor sediments; and an Eastern Belt of westerly dipping volcanic sediments, tuffs and

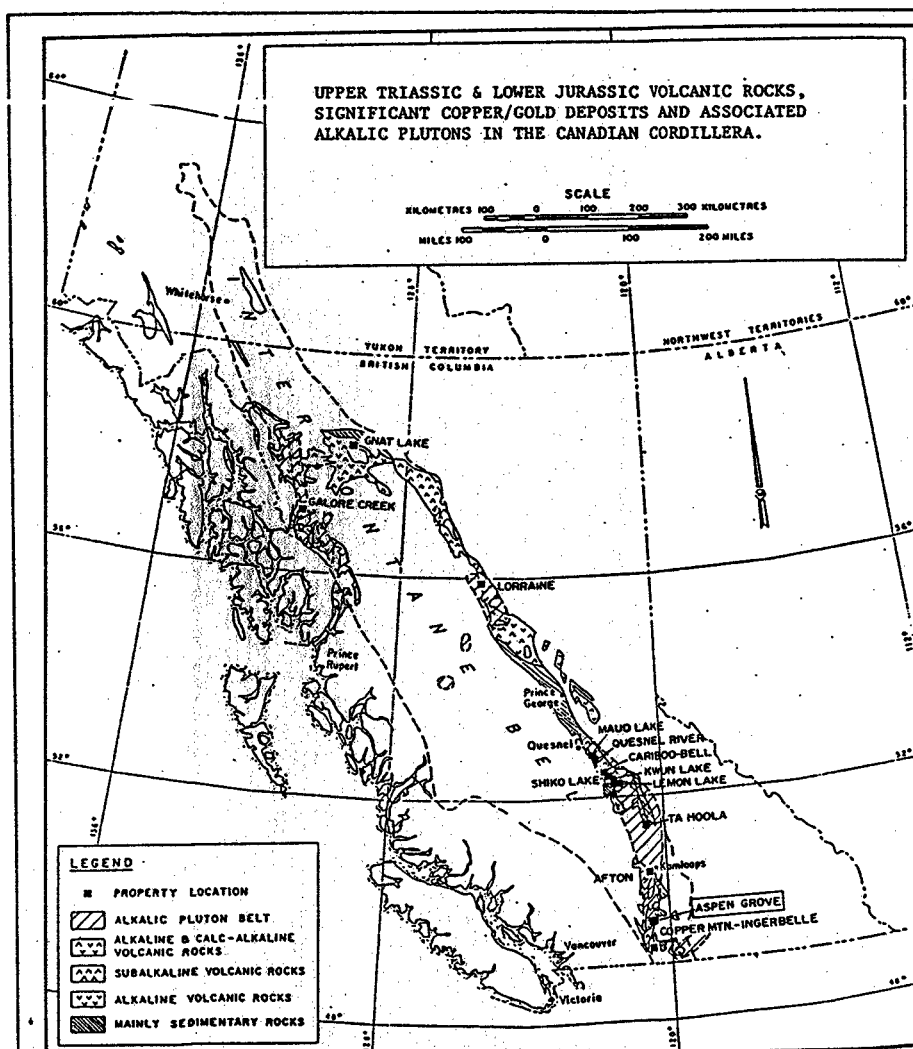


Figure 4a

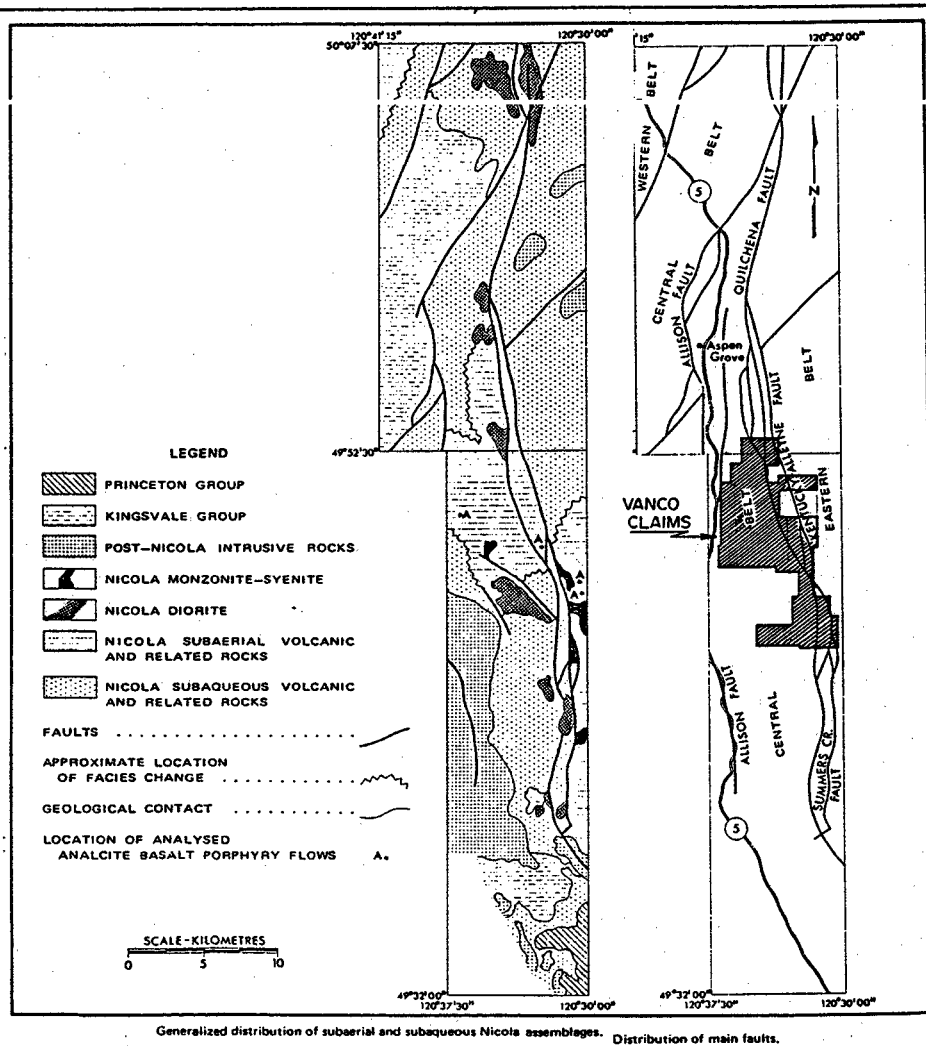


Figure 4b

alkaline flows associated with small monzonite porphyry stocks. The belts are separated by major north-striking faults.

Preto believes that the Central Belt of dominantly volcanic rocks originates from eruptive centres along the major fault system, and points out the greater concentration of mineral deposits along this belt.

The THOR claims straddle the main fault system and are underlain by 'Central Belt' flows, tuffs and breccias, intruded by diorite plugs. Reconnaissance mapping of the property in 1985 (Lisle) revealed sequences of volcanic tuffs, breccias and lensoid limestone very similar to those on the SADIM claims to the south (Watson, 1986). On the BLOO and CLIMAX claims and in the southern part of the property, these sequences contain zones of carbonatised tuffs, similar to those hosting the SADIM gold bearing stockworks.

## DISCUSSION OF RESULTS

The rock sampling programme was designed primarily to test for gold in these areas where the geological setting was similar to that hosting the gold bearing zones on the adjacent SADIM property.

### **THOR North Group**

Sampling of the 'favourable' zones on the BLOO and CLIMAX claims produced five samples with weakly elevated gold contents (19 - 93 ppb Au), all on the BLOO claims (Fig. 5a); in the north-western part of the claim adjacent samples taken from purple andesitic volcanics contained 19 and 28 ppb Au (207N, 195E - 196E). 300 m. to the east, at 207N, 199+50E, a sample of fractured diorite containing minor malachite assayed 93 ppb Au. Carbonatised copper bearing tuffs (chalcopyrite, malachite, bornite) are exposed on the eastern side of the main access road through the BLOO claim at about 200+50N; 200E. Samples of this material contain weak concentrations of Au and Ag (27 and 24 ppb Au; 3.4 and 4.6 ppm Ag).

The erratic distribution of high copper content along the trend of the volcano-sedimentary sequence (Fig. 5b) reflects the nature of the fracture controlled copper mineralisation in the propylitic alteration zones adjacent to the main mass of diorite underlying the central and eastern area of the BLOO and CLIMAX claims. The analyses show a close association of silver with copper. The remarkably constant silver : gold relationship on the SADIM property is not apparent here suggesting that the mineralisation most prevalent on the BLOO claim is more closely related to the 'propylitic' porphyry-copper environment.

Elevated lead contents are more widely spaced, but, as indicated by the 1985 results, appear to lie along the trend of limestone/carbonate lenses. In most instances, the higher leads occur in copper bearing limey rocks.

#### **THOR Central and South Groups**

Figs. 6a, 6b and 6.1; 6.2; 6.3 a and b

Work on the **Central Group** was concentrated on the THOR 5 claim. An area of propylitised diorites and volcanic rocks in the northwestern corner of the claim was re-examined; mapping and sampling here during 1985 had revealed erratic, weak copper mineralisation and patchy carbonate alteration (Lisle, 1985).

Gold analyses of 655 and 27 ppb Au were obtained from adjacent samples of altered (epidote-chlorite) diorite. Similar rocks at the southern boundary of the claim contained 80 ppm Au and 1.1 ppm Ag. Prospecting of both areas indicates that the altered gold bearing material is quite local and restricted in dimensions.

There are no significant silver values in the THOR 5 samples; a scattering of weak to moderate copper contents (200 - 9750 ppm) reflect local, discontinuous, fracture controlled zones of copper mineralisation, usually close to or along diorite contacts.

The sampling results in the **THOR South Group** are similar to those obtained in the northern two groups; however, weakly elevated copper and silver contents appear to be more abundant, reflecting the more pervasive degree of alteration, which is in turn a function of the size and number of diorite intrusions, and the greater intensity of faulting in this southern area.




Only two samples contained any significant amount of gold; in the southwestern corner of THOR 12 claim (47 ppb Au) and in the southeastern part of the THOR 14 claim (265 ppb Au; 172.6 ppm Ag). Prospecting and detail follow-up soil and rock sampling around both anomalies (100 m. x 50 m. grids over areas 600 m. x 400 m.) again show that the higher metal contents are restricted to local and restricted zones of alteration and copper mineralisation.

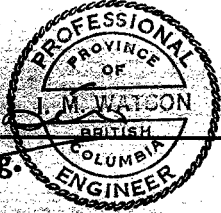
Preliminary detail sampling was carried out along a zone of weakly to moderately altered tuffs and erratically pyritised breccias exposed in a forestry road-cut on the THOR 11 claim (Figs. 6.1 a and 6.1 b). There were no significant metal contents in any of these samples, and no further sampling was done in this area.

### SUMMARY

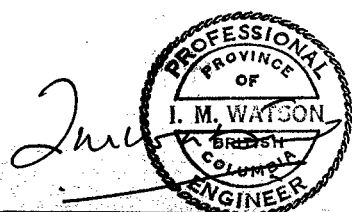
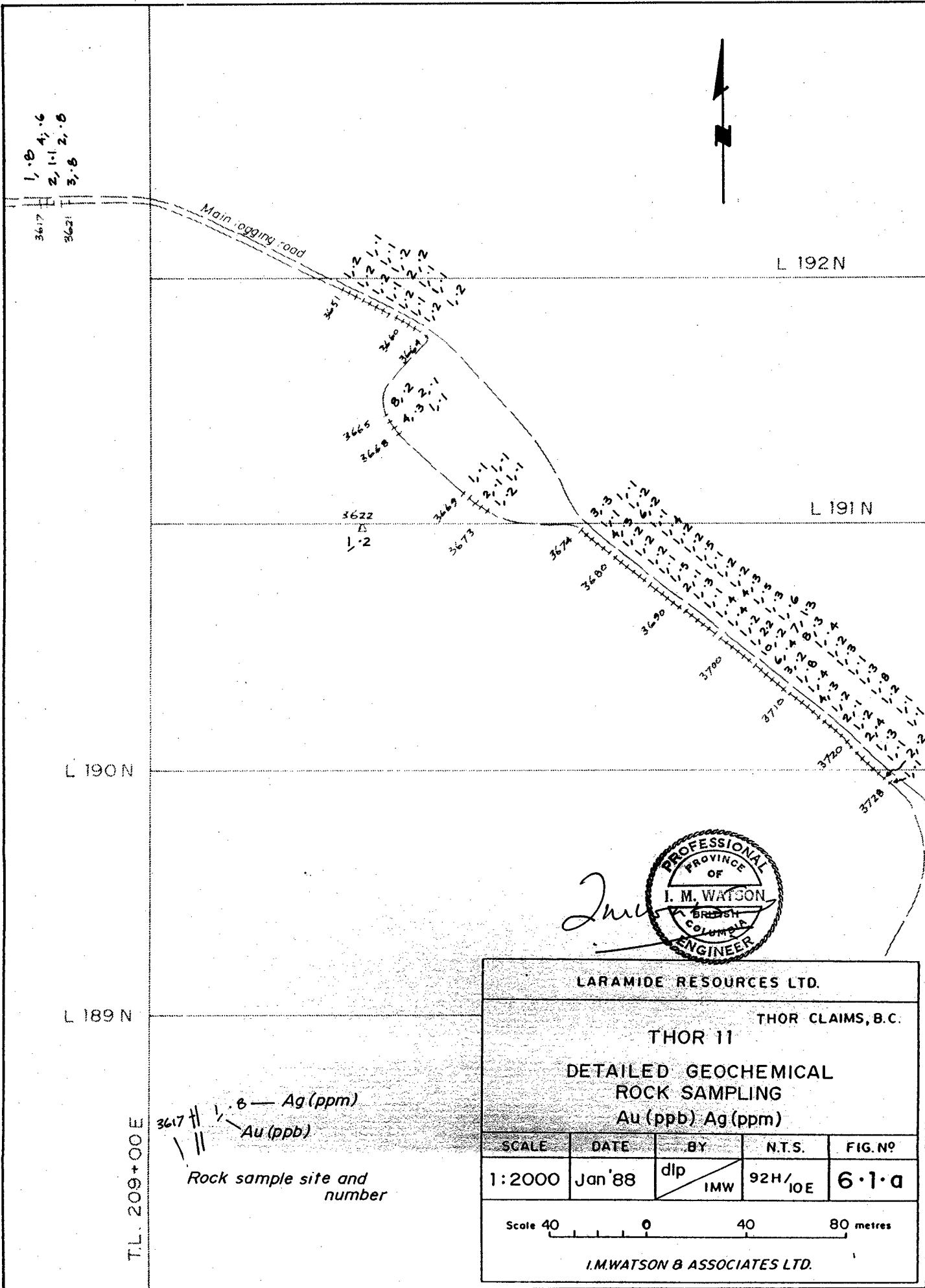
The geochemical rock sampling programme over the THOR Group was undertaken to investigate areas and zones of altered volcanics thought to resemble those hosting the gold bearing quartz vein stockworks on the adjoining SADIM claims. This re-examination has confirmed the presence of these zones and the general similarity of the geological setting to that of the SADIM gold zones. Sampling results, however, have so far failed to reveal any significant content of precious metals in the areas investigated.

**I. M. WATSON & ASSOCIATES LTD.**

  
**I. M. Watson, P. Eng.**



A circular professional seal for I. M. Watson, a Professional Engineer in the Province of British Columbia. The seal contains the text: 'PROFESSIONAL ENGINEER', 'PROVINCE OF BRITISH COLUMBIA', and 'I. M. WATSON'.



LARAMIDE RESOURCES LTD.

THOR CLAIMS, B.C.

THOR 11

DETAILED GEOCHEMICAL  
ROCK SAMPLING  
Au (ppb) Ag (ppm)

SCALE	DATE	BY	N.T.S.	FIG. NO
1:2000	Jan '88	dlp IMW	92H/ 10E	6-1-a

Scale 40 0 40 80 metres

I.M.WATSON & ASSOCIATES LTD.

T.L. 209+00 E

3617 ||| .6 — Ag (ppm)  
 || Au (ppb)  
 Rock sample site and number

9,95  
11,52  
15,45

12,85 3617  
14,47 3621

Main logging road

L 192 N

7,38,124  
17,24,26  
6,23  
8,25  
9,32  
12,22  
8,23  
9,27  
10,24  
14,17

3665  
10,23  
3628  
7,36  
8,30  
6,48

3622

6,29 3649  
10,13  
3673  
6,25  
2,19  
8,37

L 191 N

35,77  
5,42  
8,45  
3,74  
4,85  
4,84  
6,40  
2,47  
2,26  
3,62  
8,51  
5,10  
2,13  
2,10  
3,10  
7,10  
19,37  
5,44  
2,55  
5,73  
3,83  
2,16  
2,77  
3,10  
2,20  
6,59  
2,59  
2,64  
3,17  
3,18  
10,14  
2,60  
6,58  
5,64  
6,87  
8,33  
5,16  
5,53  
8,85  
2,11  
2,88  
2,58  
2,41  
2,45  
2,64  
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2,85  
2,120  
2,94  
2,64  
4,22  
8,35

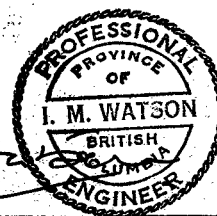
L 190 N

L 189 N

T.L. 209+00 E

3617 ||| 9,95 — Cu (ppm)  
||| — Pb (ppm)

Rock sample site and number



LARAMIDE RESOURCES LTD.

THOR CLAIMS. B.C

THOR 11

DETAILED GEOCHEMICAL  
ROCK SAMPLING  
Pb (ppm) Cu (ppm)

SCALE	DATE	BY	NTS.	FIG. NO
1:2000	Jan '88	dip IMW	92H/ 10E	6.1.b

Scale 40 0 40 80 metres

I.M.WATSON & ASSOCIATES LTD.

L 163 N  $\Delta$ 16016 16017 16018 16019 16020 16021 16022 16023 16024

1, .1 2, .2 1, .2 1, .3 1, .2 1, .1 1, .4 1, .1 1, .1

L 162 N  $\Delta$ 16007 16008 16009 16010 16011 16012 16013 16014 16015

1, .1 19, .1 2, .1 1, .1 8, .3 1, .1 1, .1 2, .3 4, .5

L 161 N 3998 3999 4000  $\Delta$ 16001 16002 16003 16004 16005 16006

5, .4 2, .3 1, .4 1, .1 1, .3 1, .3 12, .1 1, .4 3, .2

L 160 N 3989 3990 3991 3992 3565  $\Delta$  3993 3994 3995 3996 3997

1, .1 1, .3 2, .2 2, .1 47, 3.4 4, .1 2, .2 2, .2 6, .2 2, .3

L 159 N 3980 3981 3982 3983 3984 3985 3986 3987 3988

3, .6 1, .1 8, .1 9, .2 2, .2 3, .2 7, .1 10, .3 3, .1

L 158 N 3971 3972 3973 3974 3975 3976 3977 3978 3979

6, .1 2, .1 10, .2 1, .3 1, .1 9, .3 3, .1 2, .2 2, .2

L 157 N 3962 3963 3964 3965 3966 3967 3968 3969 3970

1, .1 1, .1 1, .2 1, .1 2, .3 1, .1 1, .3 1, .1 1, .2

207E 208E 209E 210E 211E

$\Delta$  3971  
6, .1  
 $\Delta$  16001  
1, .1

Soil : ample site and number  
Au (ppb) Ag (ppm)

Rock sample site and number  
Au (ppb) Ag (ppm)

*I. M. Watson*  
PROFESSIONAL  
OF  
I. M. WATSON  
BRITISH  
COLUMBIA  
ENGINEER

LARAMIDE RESOURCES LTD.

THOR CLAIMS, B.C.

THOR 12

DETAILED GEOCHEMICAL  
ROCK SAMPLING

Au (ppb), Ag (ppm)

SCALE	DATE	BY	NTS	FIG. NO
1:4000	Jan '88	dip IMW	92H/10E	6.2a

Scale 80 0 80 160 metres

I. M. WATSON & ASSOCIATES LTD.

L 163 N  
 16016 16017 16018 16019 16020 16021 16022 16023 16024  
 7,89 6,58 2,71 2,18 4,35 8,25 9,51 8,26 18,38

L 162 N  
 16007 16008 16009 16010 16011 16012 16013 16014 16015  
 7,21 3,80 10,11 2,12 2,73 2,45 4,59 5,42 6,96

L 161 N  
 3988 3989 3990 16010 16011 16012 16013 16014 16015 16016  
 2,57 5,47 2,51 5,99 5,41 2,97 2,44 2,37 2,38

L 160 N  
 3989 3990 3991 3992 3565 3993 3994 3995 3996 3997  
 3,23 7,44 7,55 8,82 6,120 8,27 4,32 16,84 6,61  
 133,223

L 159 N  
 3980 3981 3982 3983 3984 3985 3986 3987 3988  
 2,190 9,70 9,63 8,66 9,51 3,21 5,68 4,85 4,43

L 158 N  
 3971 3972 3973 3974 3975 3976 3977 3978 3979  
 2,48 4,33 5,29 3,32 11,29 8,30 5,43 3,39 7,40

L 157 N  
 3962 3963 3964 3965 3966 3967 3968 3969 3970  
 6,28 6,41 6,30 5,28 3,42 6,28 8,31 7,33 7,23

207E

208E

209E

210E

211E

3971  
 2,48

16001  
 5,99

Soil sample site and number  
 Pb (ppm) Cu (ppm)

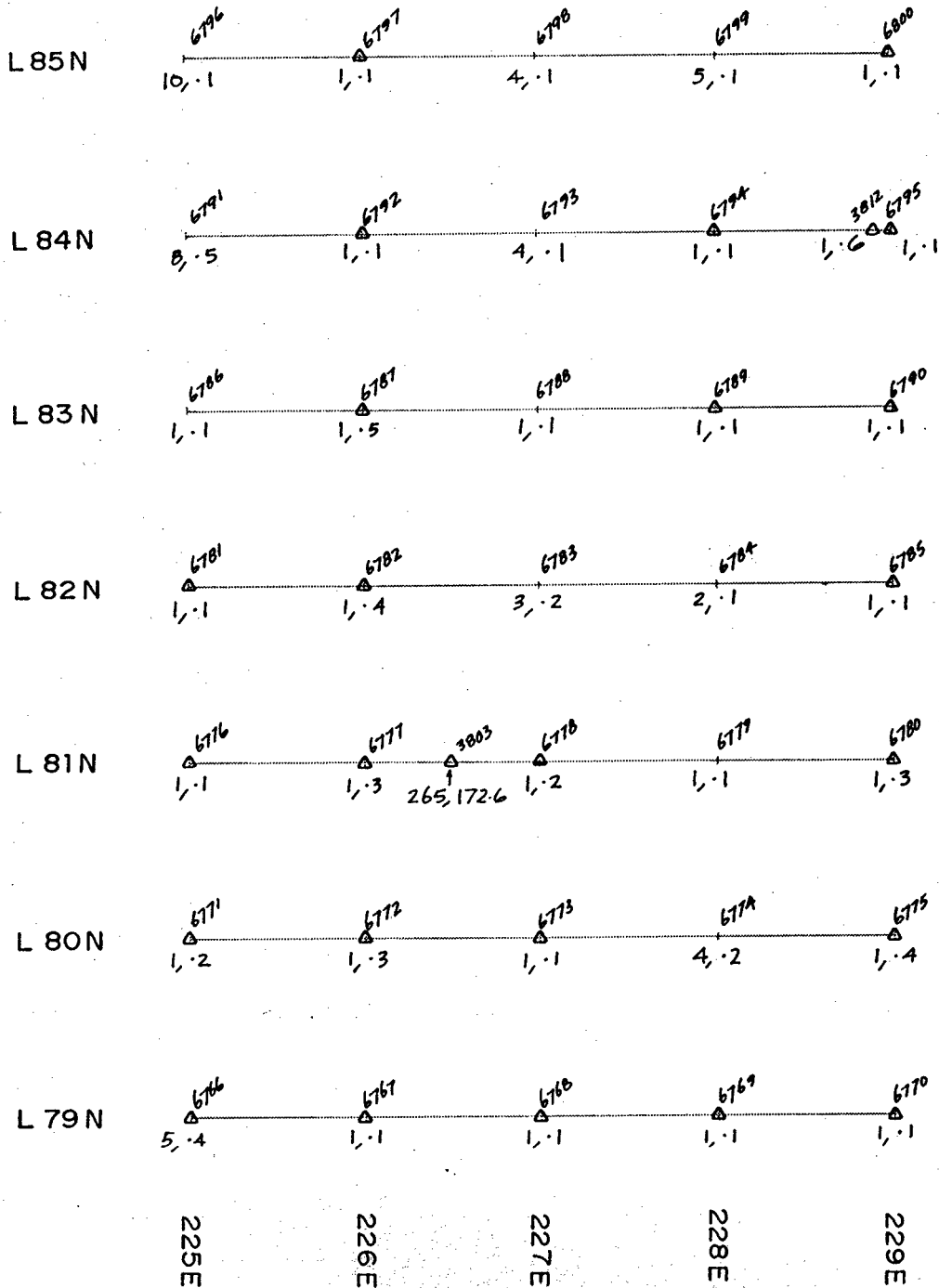
Rock sample site and number  
 Pb (ppm) Cu (ppm)

*J. M. Watson*  
 PROFESSIONAL ENGINEER  
 PROVINCE OF BRITISH COLUMBIA  
 I. M. WATSON

LARAMIDE RESOURCES LTD.  
 THOR CLAIMS, B.C.  
 THOR 12  
 DETAILED GEOCHEMICAL  
 ROCK SAMPLING  
 Pb (ppm) Cu (ppm)

SCALE	DATE	BY	NTS.	FIG. NO
1:4000	Jan '88	dip IMW	92H/10E	6.2.b

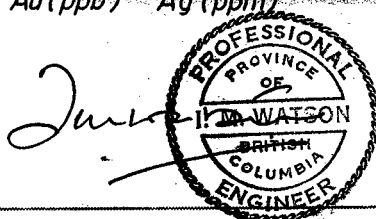
Scale 80 0 80 160 metres  
 I. M. WATSON & ASSOCIATES LTD.



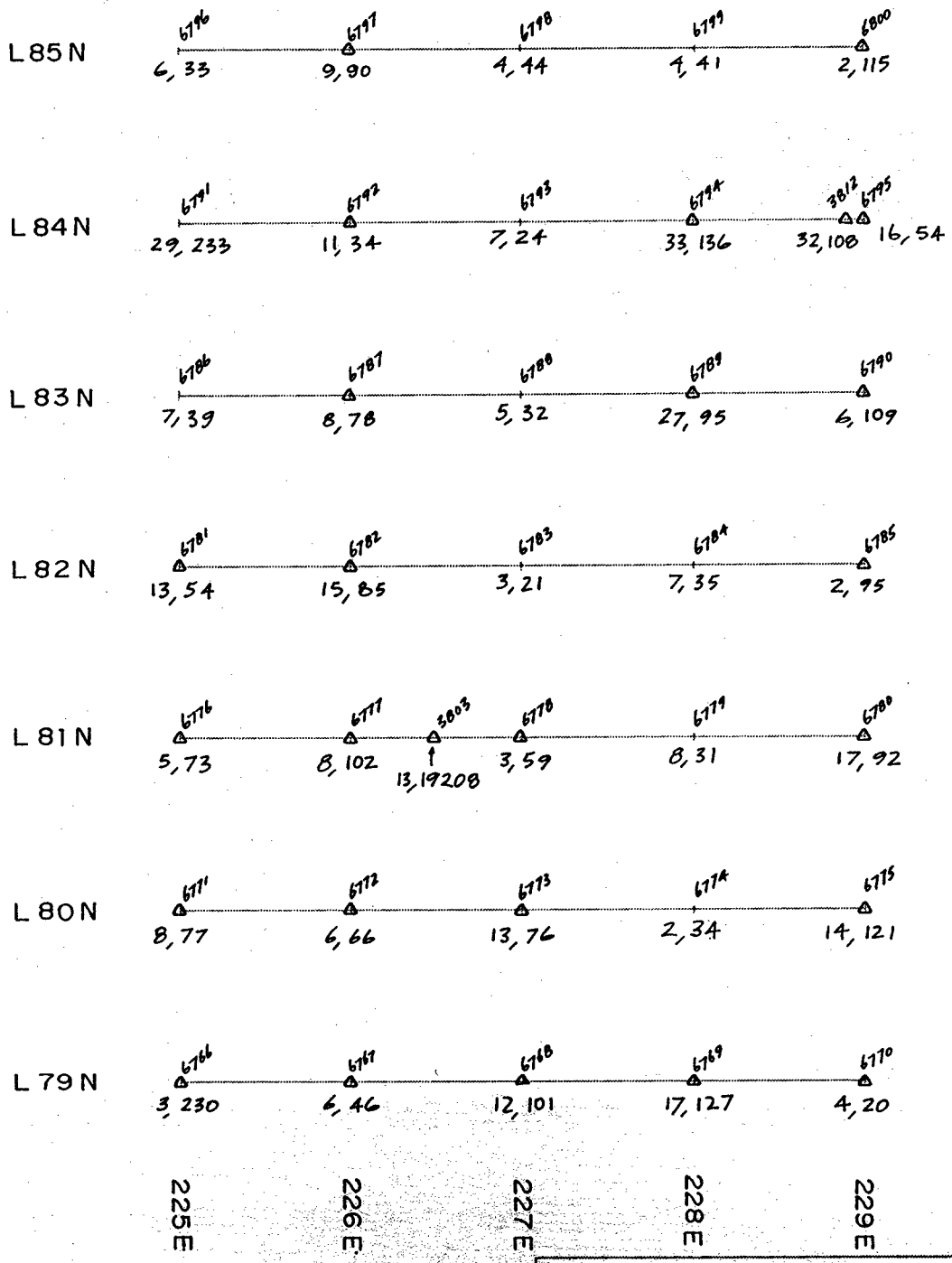
+ 6774  
 4.2  
 Δ 6766  
 5.4

Soil sample site and number  
 Au (ppb) Ag (ppm)

Rock sample site and number  
 Au (ppb) Ag (ppm)



LARAMIDE RESOURCES LTD.				
THOR CLAIMS, B.C.				
THOR 14				
DETAILED GEOCHEMICAL ROCK SAMPLING				
Au (ppb) Ag (ppm)				
SCALE	DATE	BY	NTS	FIG. NO
1:4000	Jan '88	dip IMW	92H/10E	6.3-a
Scale 80 0 80 160 metres				
I.M. WATSON & ASSOCIATES LTD.				



3971  
2,10  
16001  
5,99

Soil sample site and number  
Pb (ppm) Cu (ppm)

Rock sample site and number  
Pb (ppm) Cu (ppm)

*I. M. Watson*  

 I. M. WATSON  
 PROVINCE OF  
 BRITISH COLUMBIA  
 ENGINEER

LARAMIDE RESOURCES LTD.				
THOR CLAIMS, B. C.				
THOR 14				
DETAILED GEOCHEMICAL ROCK SAMPLING Pb (ppm) Cu (ppm)				
SCALE	DATE	BY	N.T.S.	FIG. NO
1:4000	Jan '88	dip IMW	92H/ 10E	6.3.b
Scale 80 0 80 160 metres				
I. M. WATSON & ASSOCIATES LTD.				

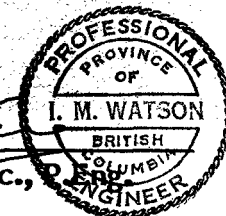
CERTIFICATE OF QUALIFICATIONS

I, Ivor Moir Watson, of 584 East Braemar Road, North Vancouver, British Columbia, hereby certify that:

1. I am a consulting geologist with offices at 816 - 675 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of St. Andrews, Scotland (B.Sc. Geology 1955).
3. I have practised my profession continuously since graduation.
4. I am a member in good standing of the Association of Professional Engineers of B.C., and a Fellow of the Geological Association of Canada.
5. Work on the THOR Claim Groups was carried out between June 12 and September 6, 1987 by the following personnel working under my supervision during the periods noted:
  - J. Buchholz - Project Geologist (July 5 - September 6, 1987)
  - S. Angus - Prospector (June 24 - July 20, 1987)
  - C. Ashbury - Field Assistant (June 28 - September 6, 1987)
  - J. Ashenburst - Technician (June 12 - July 10, 1987)
  - K. Christensen - Prospector (July 24 - August 17, 1987)
  - D. England - Field Assistant (June 25 - July 11, 1987)
  - R. England - Cook (June 14 - September 6, 1987)
  - J. Randa - Prospector (June 12 - August 18, 1987)
  - D. Whalen - Prospector (June 22 - August 15, and August 27 - September 12, 1987)

January 2, 1988  
Vancouver, B.C.

*I.M. Watson*  
I.M. Watson, B.Sc., P. Eng.





REFERENCES

- Barr, D.A., Fox, P.E., Northcote, K.E., and Preto, V.A., 1976. The Alkaline Porphyry Deposits - A Summary; in CIM Special Vol. No. 15.
- Lisle, T.E., 1985. Reconnaissance Geological and Geochemical Survey, Vanco Aspen Grove Project, 1985 (for Vanco Explorations Ltd.).
- Preto, V.A., 1975. Notes to Accompany Preliminary Map No. 17. Geology of the Allison Lake - Missezula Lake Area. B.C. MEMPR.
1979. Geology of the Nicola Group between Merritt and Princeton, Bull. 69, B.C. MEMPR.
- Watson, I.M., 1985. Reconnaissance Geological and Geochemical Surveys of the SADIM Group, for Laramide Resources Ltd.
1987. Trenching, Geological Mapping and Sampling, and Diamond Drilling Programmes on the SADIM Property, for Laramide Resources Ltd.

Assessment Reports

- #517 - 1963 Report on the K.R. Group of Plateau Metals Ltd. by Asarco Smelting & Refining Co. (Geology, magnetometer survey.)
- #985 - 1967 Geochemical report on the K.R. Group by C. Lammle for Adera Mining Ltd.
- #3363 - 1971 Geological, Geochemical and Geophysical Report on the Ketchan Creek property by J. Christofferson, G. DePaoli, and C. Hodgson for Amax Exploration Inc.
- #5044 - 1973 Geological and Prospecting Reports on the Cindy Group by D.C. Malcolm and E. Sleeman.
- #6036 - 1976 Geochemical Report on Rum Claim Group by D.G. Mark for Ruskin Developments Ltd.
- #8352 - 1980 Ground Magnetic and Soil Geochemical Survey over part of the Rum Property, by D.T. Mehner for Cominco Ltd.
- #9407 - 1981 Soil Geochemical Survey over part of the Rum Property, by D.T. Mehner for Cominco Ltd.

**STATEMENT OF COSTS - THOR NORTH GROUP**  
**Geochemical Reconnaissance - June 12 to July 1, 1987**

**Salaries**

S. Angus (Sampler/Prospector) (June 24 - July 1) 3 days @ \$150.00/day	\$ 450.00	
C. Ashbury (Sampler) (June 30) 1 day @ \$85.00/day	85.00	
J. Ashenhurst (Sampler/Prospector) (June 12-15; 22; 28-30; July 1) 8 days @ \$135.00/day	1,080.00	
R. England (Cook) (June 12-15; 22; 24; 28-30; July 1) 7 days @ \$55.00/day	385.00	
D. Phillips (Draftsman) (June 25-26)* 15 hrs. @ \$20.00/hr.	300.00	
J. Randa (Foreman/Prospector) (June 12-14; 18; 20-24; 28-30; July 1) 13 days @ \$200.00/day	2,600.00	
D. Whalen (Sampler/Prospector) (June 22-24; 29; July 1) 5 days @ \$185.00/day	925.00	
J. Buchholz (Geologist) (June 30) 1 day @ \$280.00/day	280.00	
I. Watson (Project Manager) (June 25-27) 3 days @ \$375.00/day	<u>1,125.00</u>	\$ 7,230.00
<b>Accommodation &amp; Board*</b>		717.50
<b>Telephone &amp; Freight*</b>		320.37
<b>Vehicle Rental*</b> Suburban 4 x 4 - 14 days @ \$40.00/day		560.00
<b>Field Supplies*</b>		339.00
<b>Geochemical Analyses*</b> 193 rock samples @ \$11.00/sample (Au (AA) + Ag, Pb, Cu (ICP) + Prep. + Freight)		<u>2,123.00</u>
	<b>TOTAL</b>	<b><u>\$ 11,289.87</u></b>

\* Pro-rated costs

**STATEMENT OF COSTS - THOR CENTRAL GROUP**  
**Geochemical Reconnaissance - August 8 - 13, 1987**

**Salaries**

C. Ashbury (Sampler) (August: 9-13) 5 days @ \$85.00/day	\$ 425.00	
K. Christensen (Prospector/Sampler) (August: 8-13) 6 days @ \$125.00/day	750.00	
R. England (Cook) (August: 8-13) 6 days @ \$55.00/day	330.00	
J. Randa (Foreman/Prospector) (August: 8-13) 6 days @ \$200.00/day	1,200.00	
D. Whalen (Prospector/Sampler) (August: 9; 10-13) 4 days @ \$185.00/day	740.00	
J. Buchholz (Geologist) (August: 8-11) 4 days @ \$280.00/day	<u>1,120.00</u>	\$ 4,565.00

Accommodation & Board\* 542.50

Telephone & Freight\* 135.49

Vehicle Rental\*  
Suburban 4 x 4 - 6 days @ \$40.00/day 240.00

Field Supplies\* 165.00

Geochemical Analyses\*  
65 rock samples @ \$11.00/sample  
(Au (AA) + Ag, Pb, Cu (ICP) + Prep. + Freight) 715.00

**TOTAL** \$ 6,362.99

\* Pro-rated costs

**STATEMENT OF COSTS - THOR SOUTH GROUP**  
**Geochemical Reconnaissance - July 2 - September 6, 1987**

**Salaries**

S. Angus (Prospector/Sampler)		
(July 1-20)		
19.5 days @ \$150.00/day	\$ 2,925.00	
C. Ashbury (Sampler)		
(July 1-2; 4-22; Aug. 18; Sept. 6)		
20.5 days @ \$85.00/day	1,742.50	
J. Ashenhurst (Prospector/Sampler)		
(July 5; 7)		
0.75 days @ \$135.00/day	101.25	
K. Christensen (Prospector/Sampler)		
(July 24; 27; Aug. 18)		
2.5 days @ \$125.00/day	312.50	
D. England (Sampler)		
(July 11)		
0.25 days @ \$95.00/day	23.75	
R. England (Cook)		
July 1; 3-13; 15-16; 18-24)		
12 days @ \$55.00/days	660.00	
J. Randa (Foreman/Prospector)		
(July 1-4; 18-21; Aug. 18)		
18.5 days @ \$200.00/day	3,700.00	
I. Watson (Consulting Geologist)		
(July 11; 20-21)		
2.75 days @ \$375.00/day	1,031.25	
D. Whalen (Prospector/Sampler)		
(July 10; 12-21)		
10.5 days @ \$185.00/day	<u>1,942.50</u>	\$ 12,438.75

**Accommodation & Board\*** 1,548.92

**Telephone & Freight\*** 135.43

**Vehicle Rental\***

Ford 3/4 ton 4 x 4: 3 days @ \$40.00/day	120.00	
Suburban GMC 4 x 4: 19.5 days @ \$40.00/day	780.00	
Toyota 1/C 4 x 4: 5 days @ \$40.00/day	<u>200.00</u>	1,100.00

**Field Supplies:** 419.71

**Geochemical Analyses\***

365 rock samples @ \$11.00/sample	4,015.00	
118 soil samples @ \$8.75/sample	<u>1,032.50</u>	5,047.50

(Au (AA) + Ag, Pb, Cu (ICP) + Prep. + Freight)

**TOTAL** \$ 20,690.31

\* Pro-rated costs

SUMMARY OF COSTS

THOR NORTH Group	\$ 11,289.87
THOR CENTRAL Group	6,362.99
THOR SOUTH Group	<u>20,690.31</u>
	<u>\$ 38,343.17</u>

I. M. WATSON & ASSOCIATES LTD.

*I. M. Watson*  
I. M. Watson, P.Eng.



**APPENDIX**

**Geochemical Analytical Results**

ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUNE 17 1987

DATE REPORT MAILED: *June 22/87*

### BIOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIBEBTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1-ROCK P2-PAN-CONC AU\*\* ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

ASSAYER: *A. J. J.* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON & ASSOCIATES File # 87-1830 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU** PPB
STD C/AU-R	60	40	6.7	485
VAN-067791	381	20	.4	5
VAN-067792	20232	20	4.8	4
VAN-067793	239	5	.4	1
VAN-067794	108	10	.1	1
VAN-067795	109	12	.1	1
VAN-067796	167	8	.1	1
VAN-067797	120	5	.1	1
VAN-6751	374	6	.2	1
VAN-6752	120	7	.2	1
VAN-6753	1594	9	.4	93
VAN-6754	35548	30	4.3	11

*July 4/87...*

**BIOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR NB BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: Rock Chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye*. DEAN TOYE, CERTIFIED B.C. ASSAYER

I.N. WATSON PROJECT-VANCO File # 87-2094 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
1917	30	10	.4	1
1918	141	9	.3	1
1919	140	7	.2	1
1920	67	7	.2	1
1921	258	12	.2	1
1922	37	8	.2	1
1923	35	5	.2	2
1924	40	10	.2	1
1925	491	9	.3	1
1926	16	8	.1	2
1927	66	7	.2	1
1928	302	6	.3	1
1929	172	4	.3	1
1930	57	6	.2	2
1931	218	2	.1	1
1932	30	5	.2	1
091219	92	5	.2	1
091220	77	4	.2	1
091221	77	13	.6	1
091222	294	10	.3	3
091223	13	4	.2	2
091224	36	5	.2	1
091225	124	8	.3	3
091226	72	9	.2	1
091227	171	36	.5	1
091228	176	22	.3	2
091229	136	9	.3	1
091230	32	10	.2	1
091231	42	8	.3	15
STD C/AU-R	59	38	6.8	520



VAN

I.M. WATSON PROJECT-SADIM FILE # 87-1957

Page 5

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-067798	306	5	.1	8
VAN-067799	115	4	.1	1
VAN-067800	196	5	.1	2
VAN-6801	206	4	.1	1
VAN-6802	582	6	.1	1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
091232	48	4	.3	7
091233	109	4	.1	3
091234	124	5	.2	2
091235	114	4	.1	1

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR NB BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Rock Chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VANCO/SADIM File # 87-2117 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-1901	36	4	.3	3
VAN-1902	169	4	.5	2
VAN-1903	41	6	.1	6
VAN-1904	408	4	.3	2
VAN-1905	197	10	.3	1
VAN-1906	53	5	.2	3
VAN-1907	181	5	.4	1
VAN-1908	221	6	.3	1
VAN-1909	41	6	.2	1
VAN-1910	198	9	.3	1
VAN-1911	50	9	.1	1
VAN-1912	17	5	.2	1
VAN-1913	664	9	.7	1
VAN-1914	69	6	.1	1
VAN-1915	87	4	.2	2
VAN-1916	177	3	.1	1
VAN-6701	427	9	.2	4
VAN-6702	114	2	.2	7
VAN-6703	25	7	.1	1
VAN-6704	57	6	.2	5
VAN-6705	54	7	.1	7
VAN-6706	101	19	.3	1
VAN-6707	5165	117	6.2	1
VAN-6708	6946	20	3.1	1
VAN-6709	123	8	.4	1
VAN-6710	220	7	.2	3
VAN-6711	163	7	.5	4
VAN-6712	91	7	.1	1
VAN-6713	3990	9	5.1	1
VAN-6714	53	9	.1	1
VAN-6715	99	6	.1	1
VAN-6716	153	4	.1	2
VAN-6717	156	11	.2	1
STD C/AU-R	65	42	7.3	505

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-6718	22	6	.2	1
VAN-6719	3182	8	3.4	27
VAN-6720	4584	4	1.4	1
VAN-6721	26	5	.1	2
VAN-6722	234	10	.3	2
VAN-6723	2743	12	4.6	4
VAN-6724	57	3	.1	1
VAN-6725	70	4	.1	1
VAN-6726	24	5	.1	1
VAN-6727	683	101	.5	5
VAN-6803	588	529	.8	1
VAN-6804	12178	4	12.2	2
VAN-6805	69	18	.2	1
VAN-6806	139	8	.1	1
VAN-6807	10627	10	6.6	1
VAN-6808	324	12	.2	3
VAN-6809	287	10	.1	1
VAN-6810	136	7	.2	1
VAN-6811	232	4	.3	1
VAN-6812	35	7	.1	1
VAN-6813	30	3	.1	1
VAN-6814	16	8	.1	1
VAN-6815	27	4	.1	1
VAN-6816	37	4	.1	1
VAN-6817	46	3	.1	2
VAN-6818	131	6	.2	1
VAN-6819	66	3	.1	1
VAN-6820	72	8	.1	1
VAN-6821	103	10	.1	1
VAN-6822	19	5	.1	1
VAN-6823	26	6	.1	2
VAN-6824	52	4	.1	1
VAN-6825	32	4	.1	2
VAN-6826	50	7	.2	1
VAN-6827	29	6	.2	1
VAN-6828	62	9	.1	1
STD C/AU-R	63	43	7.2	505

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-6829	61	4	.7	28
VAN-6830	46	11	.7	19
VAN-6831	63	7	.6	1
VAN-6832	109	10	.5	1
VAN-6833	226	17	1.0	1
VAN-6834	128	11	.5	1
VAN-6835	68	8	.3	1
VAN-6836	187	8	.5	1
VAN-6837	150	160	2.4	1
VAN-6838	101	7	.7	1
VAN-6839	44	4	.6	1
VAN-6840	158	6	.4	1
VAN-6841	58	9	.7	1
VAN-6842	51	7	.6	2
VAN-6843	48	6	.5	1
VAN-6844	183	6	.5	1
VAN-6845	93	7	.7	2
VAN-6846	57	4	.5	1
VAN-6847	23	4	.4	1
VAN-6848	68	10	.3	1
VAN-6849	12935	12	2.8	1
VAN-6850	113	5	.3	1
091201	211	5	.6	1
091202	124	6	.5	1
091203	136	8	.5	1
091204	164	14	.6	3
091209	6903	13	11.6	9
091210	67	2	.5	1
091211	113	8	.6	1
STD C/AU-R	58	38	7.2	505

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
091212	165	10	.1	4
091213	120	8	.2	1
091214	84	8	.2	3
091215	65	4	.1	6
091216	258	10	.2	1
091217	197	14	.1	6
091218	121	8	.3	2
091205	209	5	.1	7
091206	212	6	.1	5
091207	97	6	.2	3
091208	95	2	.2	2

ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUL 1 1987

DATE REPORT MAILED: *July 6/87...*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Rock Chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye*. DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VAN File # 87-2121

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-1933	23	14	.5	1
VAN-1934	30	10	.4	2
VAN-3501	54	5	.4	1
VAN-3502	48	10	.3	9
VAN-3503	125	7	.3	1
VAN-3504	641	15	.4	2
VAN-3505	156	7	.5	8
VAN-6728	204	88	.8	3
VAN-6730	4634	141	1.8	1
VAN-6731	966	13	.8	1
VAN-91236	101	5	.4	1
VAN-91237	49	8	.4	1
VAN-91238	97	6	.3	3
VAN-91239	793	7	.7	3
VAN-91240	17	8	.3	1
VAN-91241	77	6	.4	2
VAN-91242	36	7	.4	3
VAN-91243	417	5	.4	2
VAN-91244	53	4	.4	1
STD C/AU-R	59	43	7.1	490

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH JML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: Rock Chips AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT - VANCO File # 87-2355B Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-1935	114	5	.5	7
VAN-1936	254	4	.2	1
VAN-1937	278	8	.1	1
VAN-1938	99	2	.5	1
VAN-1939	389	4	.4	2
VAN-1940	51	5	.1	5
VAN-1941	41	3	.3	3
VAN-1942	35	2	.2	1
VAN-1943	714	10	.7	3
VAN-1944	39	2	.1	1
VAN-1945	174	14	.5	1
VAN-1946	129	11	.2	3
VAN-1947	320	2	.3	3
VAN-1948	58	6	.2	1
VAN-1949	44	4	.2	1
VAN-1950	11420	3	4.1	1
VAN-3451	54	6	.6	4
VAN-3452	155	3	.1	1
VAN-3453	127	3	.3	3
VAN-3454	167	4	.1	1
VAN-3455	32	5	.1	3
VAN-3456	245	2	.4	1
VAN-3457	177	3	.4	1
VAN-3458	72	5	.5	1
VAN-3459	31	9	.3	1
VAN-3460	47	2	.2	2
VAN-3506	103	2	.2	1
VAN-3507	50	3	.3	14
VAN-3508	41	4	.1	1
VAN-3509	37	5	.2	5
VAN-3510	72	4	.5	2
VAN-3511	30	3	.1	1
VAN-3512	42	12	.8	3'
VAN-3513	28	13	.2	4'
STD C/AU-R	57	44	7.1	50



SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3514	23	5	.4	1
VAN-3515	8	4	.2	3
VAN-3516	8	7	.1	1
VAN-3517	3	5	.3	1
VAN-3518	47	6	.1	1
VAN-3519	132	7	.1	1
VAN-3520	91	4	.2	1
VAN-3521	88	8	.6	3
VAN-3522	15	2	.4	1
VAN-3523	80	9	.1	1
VAN-3524	122	4	.5	2
VAN-3525	9	4	.4	1
VAN-3526	143	2	.1	1
VAN-3527	22	8	.5	2
VAN-3528	45	14	.2	1
VAN-3529	4	2	.2	1
VAN-3530	34	7	.1	1
VAN-3531	14	9	.2	2
VAN-3532	7	3	.1	2
VAN-3533	73	5	.1	1
VAN-3534	12	6	.2	1
VAN-3601	74	8	.3	7
VAN-3602	72	7	.1	3
VAN-3603	87	13	.2	14
VAN-3604	35	11	.2	2
VAN-3605	61	9	1.6	4
VAN-3606	25	11	.7	1
VAN-3607	17	3	.2	1
VAN-3608	18	4	.1	1
VAN-3609	31	13	.4	2
VAN-3610	12	6	.3	1
VAN-3611	22	85	.4	4
VAN-3612	33	8	.2	3
VAN-3613	34	16	.1	1
VAN-3614	36	5	.3	1
VAN-3615	13	8	.4	1
STD C/AU-R	58	41	7.3	485

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3616	37	32	.2	1
VAN-6729	1789	2	.9	1
VAN-6732	12715	674	6.1	1
VAN-6755	24	2	.1	1
VAN-6756	77	8	.1	1
VAN-6757	3371	2	1.1	4
VAN-6758	42	8	.1	1
VAN-6759	83	27	.1	1
VAN-6760	44	11	.1	1
VAN-6761	86	2	.1	1
VAN-6762	63	6	.1	1
VAN-6763	50	3	.1	1
VAN-6764	100	9	.1	1
VAN-6765	75	2	.1	1
VAN-091245	74	2	.4	1
VAN-091246	38	21	.1	1
VAN-091247	84	14	.2	1
VAN-091248	90	12	.1	1
VAN-091249	35	2	.1	1
VAN-091250	2245	5	.8	2
STD C/AU-R	58	38	7.3	490

ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 18 1987

DATE REPORT MAILED: *July 29/87*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE 8 DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1-4 ROCK P5-SILT P6 P.C. AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *Debye* DEAN TOYE, CERTIFIED B.C. ASSAYER

M. WATSON PROJECT-VANCO File # 87-2533 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3461	31	3	.1	8
VAN-3462	43	7	.1	6
VAN-3463	5	2	.1	1
VAN-3464	46	3	.1	1
VAN-3465	75	12	.2	1
VAN-3466	31	9	.1	1
VAN-3467	6	8	.1	1
VAN-3468	22	4	.1	2
VAN-3469	28	5	.1	1
VAN-3470	35	6	.3	1
VAN-3471	154	9	.5	2
VAN-3472	112	2	.2	1
VAN-3535	27	5	.1	1
VAN-3536	48	7	.1	1
VAN-3537	8	8	.1	1
VAN-3538	28	11	.2	2
VAN-3539	7	2	.1	1
VAN-3540	6	2	.1	1
VAN-3541	54	3	.1	1
VAN-3542	16	3	.1	3
VAN-3543	42	2	.1	1
VAN-3544	30	9	.2	1
VAN-3545	23	9	.2	1
VAN-3546	26	2	.1	1
VAN-3547	39	7	.3	1
VAN-3548	31	12	.5	2
VAN-3549	37	3	.2	4
VAN-3550	17	5	.1	2
VAN-3551	32	10	.2	1
VAN-3552	31	6	.1	1
VAN-3553	13	2	.1	1
VAN-3554	122	3	.2	1
VAN-3555	115	2	.2	4
VAN-3556	41	5	.1	1
VAN-3557	103	5	.2	2
VAN-3558	18	5	.1	1
STD C/AU-R	59	40	7.2	495

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3559	8	89	1.0	10
VAN-3560	225	14	.4	6
VAN-3561	391	18	1.4	3
VAN-3562	48	12	.1	1
VAN-3617	95	9	.8	1
VAN-3618	85	12	.6	4
VAN-3619	52	11	1.1	2
VAN-3620	47	14	.8	2
VAN-3621	45	15	.8	3
VAN-3622	39	8	.2	1
VAN-3623	95	13	.2	1
VAN-3626	303	11	.9	1
VAN-3627	72	13	.3	3
VAN-3628	119	29	.5	5
VAN-3629	100	21	.3	6
VAN-3630	52	7	.4	1
VAN-3631	18	5	.1	2
VAN-3632	6	9	.1	1
VAN-3633	13	5	.1	1
VAN-3651	38	7	.2	1
VAN-3652	25	8	.1	1
VAN-3653	26	12	.2	1
VAN-3654	25	4	.1	1
VAN-3655	26	6	.2	1
VAN-3656	23	6	.2	1
VAN-3657	32	9	.1	1
VAN-3658	25	8	.2	2
VAN-3659	22	12	.2	1
VAN-3660	21	5	.1	1
VAN-3661	23	8	.1	1
VAN-3662	24	10	.1	1
VAN-3663	27	9	.2	1
VAN-3664	17	14	.1	1
VAN-3665	36	7	.2	8
VAN-3666	23	10	.1	2
VAN-3667	30	6	.3	4
STD C/AU-R	59	40	7.4	480

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3668	48	6	.1	1
VAN-3669	25	6	.1	1
VAN-3670	29	5	.1	1
VAN-3671	19	2	.1	2
VAN-3672	13	10	.1	1
VAN-3673	37	8	.2	1
VAN-3674	44	10	.3	3
VAN-3675	62	5	.1	1
VAN-3676	60	2	.1	1
VAN-3677	45	8	.2	1
VAN-3678	58	6	.3	4
VAN-3679	51	4	.2	6
VAN-3680	64	5	.2	1
VAN-3681	85	6	.1	1
VAN-3682	89	6	.2	1
VAN-3683	64	4	.4	1
VAN-3684	33	8	.2	1
VAN-3685	40	6	.2	1
VAN-3686	56	5	.1	1
VAN-3687	47	2	.2	1
VAN-3688	66	5	.5	1
VAN-3689	76	2	.5	1
VAN-3690	53	5	.1	2
VAN-3691	65	3	.1	1
VAN-3692	85	5	.3	1
VAN-3693	51	8	.2	1
VAN-3694	102	8	.1	1
VAN-3695	101	5	.2	1
VAN-3696	116	2	.4	1
VAN-3697	131	2	.3	4
VAN-3698	88	2	.4	1
VAN-3699	103	3	.5	1
VAN-3700	58	4	.2	1
VAN-3701	37	7	.3	1
VAN-3702	41	92	2.2	1
VAN-3703	38	19	.6	1
STD C/AU-R	61	41	7.3	490

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3704	45	2	.2	10
VAN-3705	44	5	1.3	7
VAN-3706	64	2	.4	6
VAN-3707	55	2	.3	8
VAN-3708	88	2	.2	3
VAN-3709	73	2	.4	1
VAN-3710	48	2	.8	1
VAN-3711	83	3	.2	1
VAN-3712	45	4	.4	1
VAN-3713	16	2	.1	3
VAN-3714	86	2	.3	4
VAN-3715	77	2	.1	1
VAN-3716	89	2	.2	1
VAN-3717	99	2	.3	1
VAN-3718	120	2	.1	2
VAN-3719	108	2	.8	1
VAN-3720	94	2	.2	1
VAN-3721	55	8	.2	1
VAN-3722	64	10	.4	2
VAN-3723	59	6	.1	1
VAN-3724	69	2	.3	1
VAN-3725	64	2	.1	1
VAN-3726	22	4	.1	1
VAN-3727	37	6	.2	2
VAN-3728	35	8	.1	1
VAN-3729	119	338	1.4	1
STD C/AU-R	62	40	7.3	510

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3624	26	4	.2	1
VAN-3625	115	2	.1	2

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3563	34	10	.3	1
VAN-3564	61	8	.3	2

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR NB BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Rock Chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VANCO File # 87-2647 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3565	223	133	3.4	47
VAN-3566	266	20	.5	2
VAN-3567	40	54	1.2	1
VAN-3568	9	11	.3	1
VAN-3569	47	30	.7	2
VAN-3570	31	27	.4	1
VAN-3571	37	28	.4	1
VAN-3572	174	16	.4	1
VAN-3573	47	33	.5	1
VAN-3574	6	11	.1	1
VAN-3575	7	27	.5	2
VAN-3576	74	14	.1	1
VAN-3577	17	19	.4	1
VAN-3578	29	15	.1	1
VAN-3579	8	17	.2	2
VAN-3580	7	11	.1	1
VAN-3581	58	16	.5	1
VAN-3582	78	11	.2	1
VAN-3634	51	17	.2	1
VAN-3635	10	8	.1	2
VAN-3636	35	11	.3	1
VAN-3637	6	9	.2	2
VAN-3638	25	14	.1	1
VAN-3730	233	2	.3	1
VAN-3731	95	17	.2	1
VAN-3732	32	16	.1	4
VAN-3733	15	29	.6	2
VAN-3734	83	13	.2	3
VAN-3735	52	5	.1	2
VAN-3736	55	12	.4	3
VAN-3737	68	10	.3	1
VAN-3738	21	4	.1	1
VAN-3739	63	15	.2	2
VAN-3740	113	2	.1	2
VAN-3741	27	2	.2	1
VAN-3742	129	12	.3	3
STD C/AU-R	63	40	6.8	490



SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3743	68	16	.3	1
VAN-3744	24	12	.5	2
VAN-3745	13	12	.2	2
VAN-3746	7	6	.2	1
VAN-3747	8	16	.1	1
VAN-3748	27	10	.2	2
VAN-3749	19	20	.1	3
VAN-3750	64	7	.2	1
VAN-3751	24	6	.1	2
VAN-3752	37	9	.2	1
VAN-3753	48	2	.1	1
VAN-3754	22	5	.1	1
VAN-3755	35	8	.1	2
VAN-3756	189	10	.1	2
VAN-3757	3	7	.1	3
STD C/AU-R	62	41	7.4	480

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: Rock Chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VANCO File # 87-2722 Page 1

SAMPLE#	CU PPM	PB PPM	ZN PPM	AU* PPB
VAN-3473	185	2	126	10
VAN-3474	20	2	122	1
VAN-3475	7	2	48	1
VAN-3476	3	2	69	1
VAN-3477	52	2	48	3
VAN-3478	52	3	69	1
VAN-3479	107	6	178	1
VAN-3480	90	4	129	1
VAN-3481	102	5	124	1
VAN-3482	88	3	97	1
VAN-3483	36	85	148	9
VAN-3484	115	7	122	1
VAN-3485	101	10	127	1
VAN-3486	101	7	78	4
VAN-3487	44	10	129	1
VAN-3488	148	34	247	6
VAN-3489	20	15	240	1
VAN-3490	6	2	190	1
VAN-3491	29	6	221	4
VAN-3492	101	16	110	6
VAN-3493	139	37	192	2
VAN-3494	78	16	292	2
VAN-3495	95	9	102	3
VAN-3496	152	19	212	1
VAN-3497	73	5	72	4
VAN-3498	171	11	159	5
VAN-3583	280	7	138	8
VAN-3584	38	3	86	1
VAN-3585	47	15	61	1
VAN-3586	105	3	57	2
VAN-3587	51	10	52	2
VAN-3588	26	3	54	1
VAN-3589	46	2	54	2
VAN-3590	9	6	62	1
VAN-3591	20	2	128	215
VAN-3592	59	12	93	1
STD C/AU-R	60	41	134	510

SAMPLE#	CU PPM	PB PPM	ZN PPM	AU* PPB
VAN-3593	19	3	69	7
VAN-3594	32	3	84	1
VAN-3595	46	5	41	1
VAN-3596	10	2	54	2
VAN-3597	108	14	107	4
VAN-3598	467	8	154	2
VAN-3599	190	12	342	1
VAN-3600	103	8	87	2
VAN-3639	13	2	70	1
VAN-3640	26	2	61	1
VAN-3641	22	4	78	1
VAN-3642	11	2	58	2
VAN-3643	10	2	39	1
VAN-3644	28	8	44	1
VAN-3645	55	2	67	1
VAN-3646	22	2	31	3
VAN-3647	15	2	93	1
VAN-3648	6	10	82	1
VAN-3649	41	4	65	1
VAN-3650	22	2	60	1
VAN-3758	3	2	26	10
VAN-3759	3	2	26	1
VAN-3760	3	4	37	2
VAN-3761	6	2	35	1
VAN-3762	7	2	102	1
VAN-3763	32	4	66	1
VAN-3764	37	2	107	2
VAN-3765	21	2	134	1
VAN-3766	124	2	103	2
VAN-3767	107	11	108	1
VAN-3768	117	4	108	1
VAN-3769	331	2	345	1
VAN-3770	75	2	159	2
VAN-3771	10	4	108	1
VAN-3772	3	2	30	1
VAN-3773	5	2	35	1
STD C/AU-R	61	40	132	530

SAMPLE#	CU PPM	PB PPM	ZN PPM	AU* PPB
VAN-3774	14	2	16	1
VAN-3775	8	5	113	1
VAN-3776	81	8	103	2
VAN-3801	119	5	85	1
VAN-3802	69	27	167	2
VAN-3803	19208	13	161	265
VAN-3804	127	56	405	1
VAN-3805	177	9	193	1
VAN-3806	142	4	72	1
VAN-3807	129	10	238	2
VAN-3808	113	17	135	2
VAN-3809	103	25	103	1
VAN-3810	115	8	82	1
VAN-3811	170	37	158	1
VAN-3812	108	32	245	1
VAN-3813	153	25	131	2
VAN-3951	70	2	39	3
STD C/AU-R	60	40	133	500

ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUL 25 1987

DATE REPORT MAILED: *Aug 5/87*.....

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Rock Chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VANCO File # 87-2722 R Page 1

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
VAN-3473	185	2	126	.7	10
VAN-3474	20	2	122	.5	1
VAN-3475	7	2	48	.2	1
VAN-3476	3	2	69	.2	1
VAN-3477	52	2	48	.5	3
VAN-3478	52	3	69	.4	1
VAN-3479	107	6	178	.5	1
VAN-3480	90	4	129	.5	1
VAN-3481	102	5	124	.5	1
VAN-3482	88	3	97	.6	1
VAN-3483	36	85	148	1.7	9
VAN-3484	115	7	122	.7	1
VAN-3485	101	10	127	.7	1
VAN-3486	101	7	78	.6	4
VAN-3487	44	10	129	.3	1
VAN-3488	148	34	247	.6	6
VAN-3489	20	15	240	1.0	1
VAN-3490	6	2	190	.4	1
VAN-3491	29	6	221	.5	4
VAN-3492	101	16	110	.6	6
VAN-3493	139	37	192	.8	2
VAN-3494	78	16	292	.4	2
VAN-3495	95	9	102	.5	3
VAN-3496	152	19	212	.7	1
VAN-3497	73	5	72	.3	4
VAN-3498	171	11	159	.6	5
VAN-3583	280	7	138	.7	8
VAN-3584	38	3	86	.3	1
VAN-3585	47	15	61	.5	1
VAN-3586	105	3	57	.3	2
VAN-3587	51	10	52	.2	2
VAN-3588	26	3	54	.3	1
VAN-3589	46	2	54	.1	2
VAN-3590	9	6	62	.1	1
VAN-3591	20	2	128	.2	215
VAN-3592	59	12	93	.4	1
STD C/AU-R	60	41	134	7.7	510

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
VAN-3593	19	3	69	.1	7
VAN-3594	32	3	84	.4	1
VAN-3595	46	5	41	.1	1
VAN-3596	10	2	54	.1	2
VAN-3597	108	14	107	.1	4
VAN-3598	467	8	154	.1	2
VAN-3599	190	12	342	.5	1
VAN-3600	103	8	87	.1	2
VAN-3639	13	2	70	.1	1
VAN-3640	26	2	61	.1	1
VAN-3641	22	4	78	.1	1
VAN-3642	11	2	58	.1	2
VAN-3643	10	2	39	.1	1
VAN-3644	28	8	44	.1	1
VAN-3645	55	2	67	.1	1
VAN-3646	22	2	31	.1	3
VAN-3647	15	2	93	.1	1
VAN-3648	6	10	82	.1	1
VAN-3649	41	4	65	.1	1
VAN-3650	22	2	60	.1	1
VAN-3758	3	2	26	.1	10
VAN-3759	3	2	26	.2	1
VAN-3760	3	4	37	.1	2
VAN-3761	6	2	35	.1	1
VAN-3762	7	2	102	.1	1
VAN-3763	32	4	66	.2	1
VAN-3764	37	2	107	.1	2
VAN-3765	21	2	134	.1	1
VAN-3766	124	2	103	.3	2
VAN-3767	107	11	108	.3	1
VAN-3768	117	4	108	.3	1
VAN-3769	331	2	345	.2	1
VAN-3770	75	2	159	.2	2
VAN-3771	10	4	108	.4	1
VAN-3772	3	2	30	.5	1
VAN-3773	5	2	35	.1	1
STD C/AU-R	61	40	132	7.7	530

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
VAN-3774	14	2	16	.3	1
VAN-3775	8	5	113	.2	1
VAN-3776	81	8	103	.2	2
VAN-3801	119	5	85	.1	1
VAN-3802	69	27	167	.3	2
--VAN-3803	19208	13	161	172.6 ✓	265
VAN-3804	127	56	405	1.2	1
VAN-3805	177	9	193	1.0	1
VAN-3806	142	4	72	.2	1
VAN-3807	129	10	238	.4	2
VAN-3808	113	17	135	.2	2
VAN-3809	103	25	103	.4	1
VAN-3810	115	8	82	.1	1
VAN-3811	170	37	158	.6	1
VAN-3812	108	32	245	.6	1
VAN-3813	153	25	131	.4	2
VAN-3951	70	2	39	.2	3
STD C/AU-R	60	40	133	7.3	500

✓ ASSAY REQUIRED FOR CORRECT RESULT -

ACME ANALYTICAL LABORATORIES  
852 E. HASTINGE ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 30 1987

DATE REPORT MAILED: *Aug. 5/87...*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Rock chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VANCO File # 87-2861

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3499	11	8	.4	1
VAN-3500	70	7	.1	2
VAN-3814	66	8	.1	3
VAN-3815	77	11	.1	2
VAN-3816	21	13	.1	1
VAN-3817	98	10	.2	2
VAN-3851	105	10	.1	1
VAN-3852	175	5	.1	3
VAN-3853	99	7	.1	1
VAN-3854	60	9	.1	1
VAN-3855	83	10	.1	1
VAN-3856	18	6	.1	1
VAN-3952	83	8	.1	1
VAN-3953	135	10	.1	4
VAN-3954	44	13	.1	3
VAN-3955	85	2	.1	2
VAN-3956	79	4	.1	1
VAN-3957	82	7	.1	1
VAN-3958	130	10	.2	5
VAN-3959	33	6	.1	1
VAN-3960	52	2	.1	1
VAN-3961	63	6	.2	3
STD C/AU-R	58	43	7.1	490



ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 13 1987  
DATE REPORT MAILED: *Aug 20/87*...

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR NB BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON & ASSOCIATES PROJECT-VANCO File # 87-3260

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
F-5801	269	125	.7	655
F-5802	461	13	.4	27
F-5803	67	17	.2	2
F-5804	33	23	.3	2
F-5805	81	16	.3	1
G-3777	78	15	.2	1
G-3870	94	19	.2	2
G-3871	1313	15	.6	2
K-6733	28	19	.3	1
K-6734	42	16	.1	1
K-6735	20	12	.1	1
K-6736	20	6	.1	1
K-6737	108	8	.1	1
K-6738	80	20	.3	1
K-6739	14	15	.1	2
K-6740	57	17	.2	7
K-6741	40	23	.1	1
K-6742	39	12	.1	2
STD C/AU-R	57	43	7.3	485

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON & ASSOCIATES PROJECT-VAN File # 87-3382 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3778	75	7	.4	5
VAN-3779	2908	26	1.5	1
VAN-3780	9750	9	3.4	2
VAN-3781	62	7	.2	2
VAN-3782	197	7	.2	1
VAN-3872	53	8	.3	3
VAN-3873	120	13	.2	2
VAN-3874	87	4	.2	4
VAN-3875	29	7	.3	3
VAN-3876	47	8	.1	1
VAN-3877	35	22	.1	2
VAN-3878	32	14	.1	2
VAN-3879	95	17	.3	2
VAN-5806	340	16	.3	1
VAN-5807	342	24	.3	4
VAN-5808	136	12	.3	1
VAN-5809	202	17	.3	9
VAN-5810	459	11	.3	2
VAN-5811	24	14	.1	3
VAN-5812	59	11	.1	2
VAN-5813	21	13	.4	2
VAN-5814	103	20	.2	1
VAN-5815	26	6	.3	1
VAN-5816	26	10	.1	3
VAN-5817	100	12	.1	2
VAN-5818	46	15	.2	1
VAN-5819	17	7	.1	1
VAN-5820	24	12	.1	7
VAN-5821	35	16	.3	6
VAN-5822	27	8	.3	1
VAN-5823	27	2	.1	1
VAN-6743	110	5	.1	3
VAN-6744	298	8	.6	1
VAN-6745	36	14	.1	1
VAN-6746	55	17	.1	1
VAN-6747	9	4	.2	2
STD C/AU-R	60	42	7.1	490

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-6748	74	9	.3	1
VAN-6749	120	9	.3	3
VAN-6750	97	12	.2	2

ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 27 1987  
DATE REPORT MAILED: *Sept 2/87*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON & ASSOCIATES PROJECT-VAN File # 87-3685

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-3880	75	8	.6	1
VAN-3881	154	25	.5	1
VAN-3882	125	20	.4	2
VAN-3883	395	13	.5	1
VAN-3884	7	.5	.1	1
VAN-3885	6	2	.1	1
STD C/AU-R	59	39	7.3	495

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN 6766	230	3	.4	5
VAN 6767	46	6	.1	1
VAN 6768	101	12	.1	1
VAN 6769	127	17	.1	1
VAN 6770	20	4	.1	1
VAN 6771	77	8	.2	1
VAN 6772	66	6	.3	1
VAN 6773	76	13	.1	1
VAN 6775	121	14	.4	1
VAN 6776	73	5	.1	1
VAN 6777	102	8	.3	1
VAN 6778	59	3	.2	1
VAN 6780	92	17	.3	1
VAN 6781	54	13	.1	1
VAN 6782	85	15	.4	1
VAN 6785	95	2	.1	1
VAN 6787	78	8	.5	1
VAN 6789	95	27	.1	1
VAN 6790	109	6	.1	1
VAN 6792	34	11	.1	1
VAN 6794	136	33	.1	1
VAN 6795	54	16	.1	1
VAN 6797	90	9	.1	1
VAN 6800	115	2	.1	1
STD C/AU-R	61	37	7.3	470

*Sept 16/87*

## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MB BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: PI-2 SCIL P3 ROCK AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *W. Toyne* DEAN TOYNE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VANCO File # 87-4013 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN 3962	28	6	.1	1
VAN 3963	41	6	.1	1
VAN 3964	30	6	.2	1
VAN 3965	28	5	.1	1
VAN 3966	42	3	.3	2
VAN 3967	28	6	.1	1
VAN 3968	31	8	.3	1
VAN 3969	33	7	.1	1
VAN 3970	23	7	.2	1
VAN 3971	48	2	.1	6
VAN 3972	33	4	.1	2
VAN 3973	29	5	.2	10
VAN 3974	32	3	.3	1
VAN 3975	29	11	.1	1
VAN 3976	30	8	.3	9
VAN 3977	43	5	.1	3
VAN 3978	39	3	.2	2
VAN 3979	40	7	.2	2
VAN 3980	190	2	.6	3
VAN 3981	77	9	.1	1
VAN 3982	63	9	.1	8
VAN 3983	66	8	.2	9
VAN 3984	51	9	.2	2
VAN 3985	21	3	.2	3
VAN 3986	68	5	.1	7
VAN 3987	85	4	.3	40
VAN 3988	43	4	.1	3
VAN 3989	23	3	.1	1
VAN 3990	44	7	.3	1
VAN 3991	55	7	.2	2
VAN 3992	82	8	.1	2
VAN 3993	120	6	.1	4
VAN 3994	27	8	.2	2
VAN 3995	32	4	.2	2
VAN 3996	84	16	.2	6
VAN 3997	61	6	.3	2
STD C /AU-5	60	39	7.3	47

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
E 16001	99	5	.1	1
E 16007	21	7	.1	1
E 16009	11	10	.1	2
E 16010	12	2	.1	1
E 16016	89	19	.1	1
E 16021	25	8	.1	1
E 16023	26	8	.1	1
E 16024	38	18	.1	1
STD C/AU-R	62	39	7.0	485

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN 3998	57	2	.4	5
VAN 3999	47	5	.3	2
VAN 4000	51	2	.4	1
VAN 16002	41	5	.3	1
VAN 16003	97	2	.3	1
VAN 16004	44	2	.1	12
VAN 16005	37	2	.4	1
VAN 16006	38	2	.2	3
VAN 16008	80	3	.1	19
VAN 16011	73	2	.3	8
VAN 16012	45	2	.1	1
VAN 16013	59	4	.1	1
VAN 16014	42	5	.3	2
VAN 16015	96	6	.5	4
VAN 16017	58	6	.2	2
VAN 16018	71	2	.2	1
VAN 16019	18	2	.3	1
VAN 16020	35	4	.2	1
VAN 16022	51	9	.4	1
STD C/AU-S	62	38	7.4	47

ACME ANALYTICAL LABORATORIES                      DATE RECEIVED: SEPT 11 1987  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3153      DATA LINE 251-1011 DATE REPORT MAILED: *Sept. 16/87*

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOIL      AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VANCO File # 87-4081 Page 1

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN 16025	42	6	.1	1
VAN 16026	43	6	.1	2
VAN 16027	29	17	.2	2
VAN 16028	33	12	.2	1
VAN 16029	36	2	.2	1
VAN 16030	38	6	.2	2
VAN 16031	47	7	.3	1
VAN 16032	22	10	.1	2
VAN 16033	25	2	.1	2
VAN 16034	27	4	.2	1
VAN 16035	14	7	.1	1
VAN 16036	27	13	.1	4
VAN 16037	31	12	.1	1
VAN 16038	20	7	.2	2
VAN 16039	19	2	.1	2
VAN 16040	32	8	.1	1
VAN 16041	19	6	.1	1
VAN 16042	18	2	.1	1
VAN 16043	33	7	.2	4
VAN 16044	32	5	.1	2
VAN 16045	20	10	.1	1
VAN 16046	22	17	.1	1
VAN 16047	29	11	.1	3
VAN 16048	24	21	.1	2
VAN 16049	16	6	.2	1
VAN 16050	17	2	.1	1
VAN 16051	25	8	.2	1
VAN 16052	54	6	.1	1
VAN 16053	15	2	.1	1
VAN 16054	31	7	.1	2
VAN 16055	23	3	.1	34
VAN 16056	22	2	.1	1
VAN 16057	19	12	.1	1
VAN 16058	29	16	.2	2
VAN 16059	63	10	.1	1
VAN 16060	39	19	.1	1
STD C/AU-S	61	41	7.1	47



SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN 16061	24	6	.2	1
VAN 16062	20	6	.1	1
VAN 16063	29	12	.1	4
VAN 16064	23	11	.4	1
VAN 16065	18	11	.2	1
VAN 16066	14	2	.1	1
VAN 16067	17	8	.1	1
VAN 16068	32	9	.1	11
VAN 16069	44	2	.4	1
VAN 16070	34	8	.1	1
VAN 16071	26	10	.1	1
VAN 16072	19	4	.1	2
VAN 16073	24	8	.3	1
VAN 16074	19	8	.1	1
VAN 16075	23	9	.1	1
VAN 16076	39	2	.1	2
VAN 16077	21	2	.1	1
VAN 16078	36	11	.3	2
VAN 16079	42	5	.1	51
VAN 16080	30	7	.1	2
VAN 16081	25	15	.1	2
VAN 16082	23	14	.2	5
VAN 16083	14	2	.3	1
VAN 16084	24	7	.3	2
VAN 16085	27	8	.3	1
VAN 16086	29	2	.1	1
VAN 16087	16	6	.3	1
STD C/AU-S	63	39	7.4	48

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: SEPT 30 1987  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE (604)253-3158 FAX (604)253-1716 DATE REPORT MAILED: *Oct. 13/87.*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR HG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Rock Chips AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

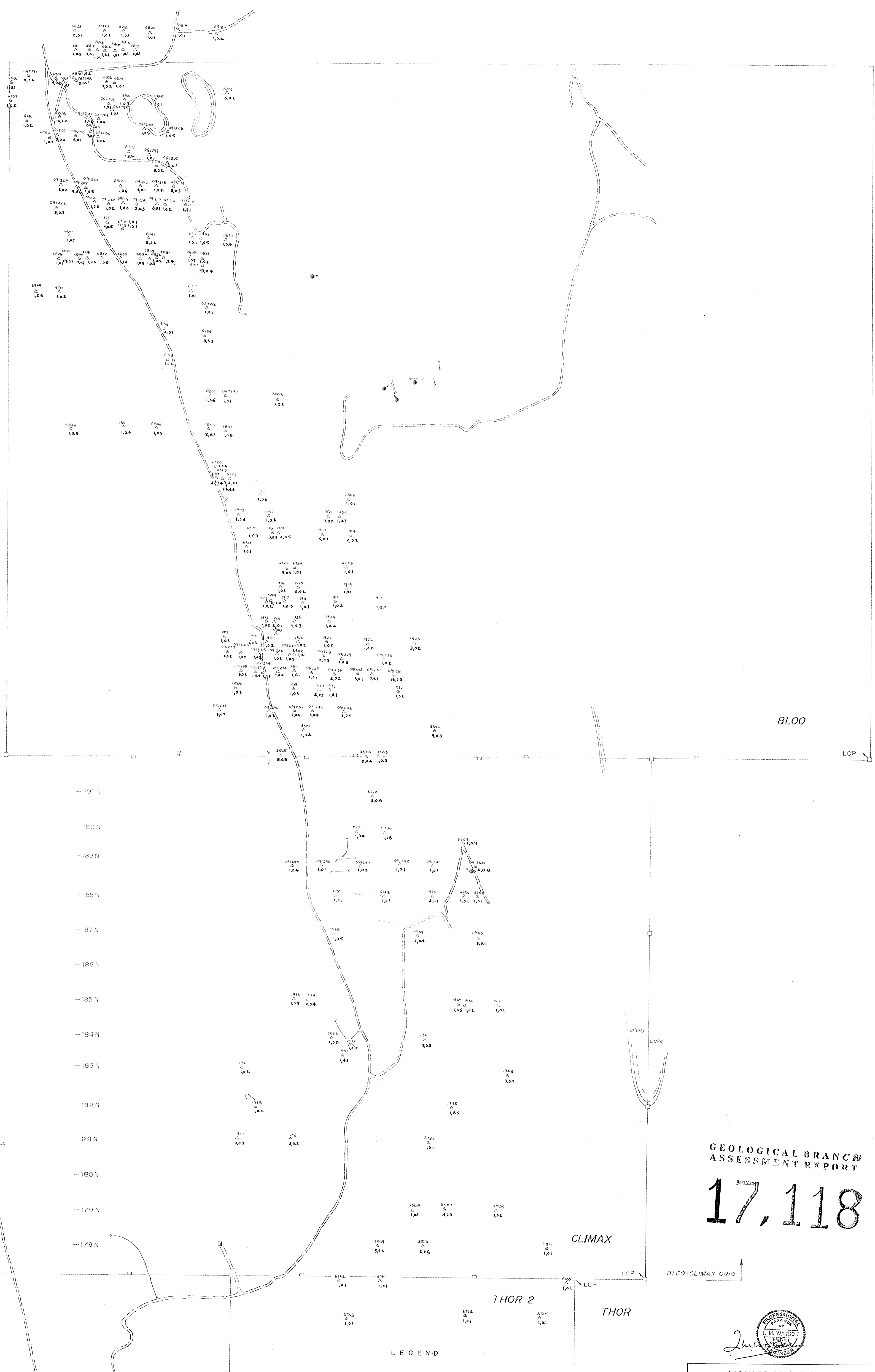
ASSAYER: *D. Toyer* DEAN TOYE, CERTIFIED B.C. ASSAYER

I.M. WATSON PROJECT-VAN File # 87-4556

SAMPLE#	CU PPM	PB PPM	AG PPM	AU* PPB
VAN-5824	615	146	1.4	10
VAN-5825	606	124	1.1	80
VAN-5826	1535	33	1.4	11
VAN-5827	393	66	.5	110
VAN-5828	110	29	.4	8
VAN-5829	155	34	.4	65
VAN-5830	145	25	.3	27
VAN-5831	207	23	.4	29
STD C/AU-R	58	38	7.3	480

194 E 195 E 196 E 197 E 198 E 199 E 200 E 201 E 202 E 203 E 204 E 205 E 206 E 207 E 208 E 209 E

-213 N  
-212+50N  
-212 N  
-211 N  
-210 N  
-209 N  
-208 N  
-207 N  
-206 N  
-205 N  
-204 N  
-203 N  
-202 N  
-201 N  
-200 N  
-199 N  
-198 N  
-197 N  
-196 N  
-195 N  
-194 N  
-193 N  
192 N



BLOO

LCP

Elroy Lake

CLIMAX

THOR

THOR 3

THOR 2

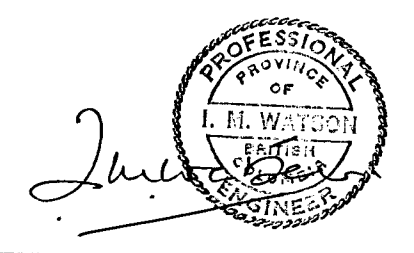
200 N THOR GRID

BLOO-CLIMAX GRID

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

17,118

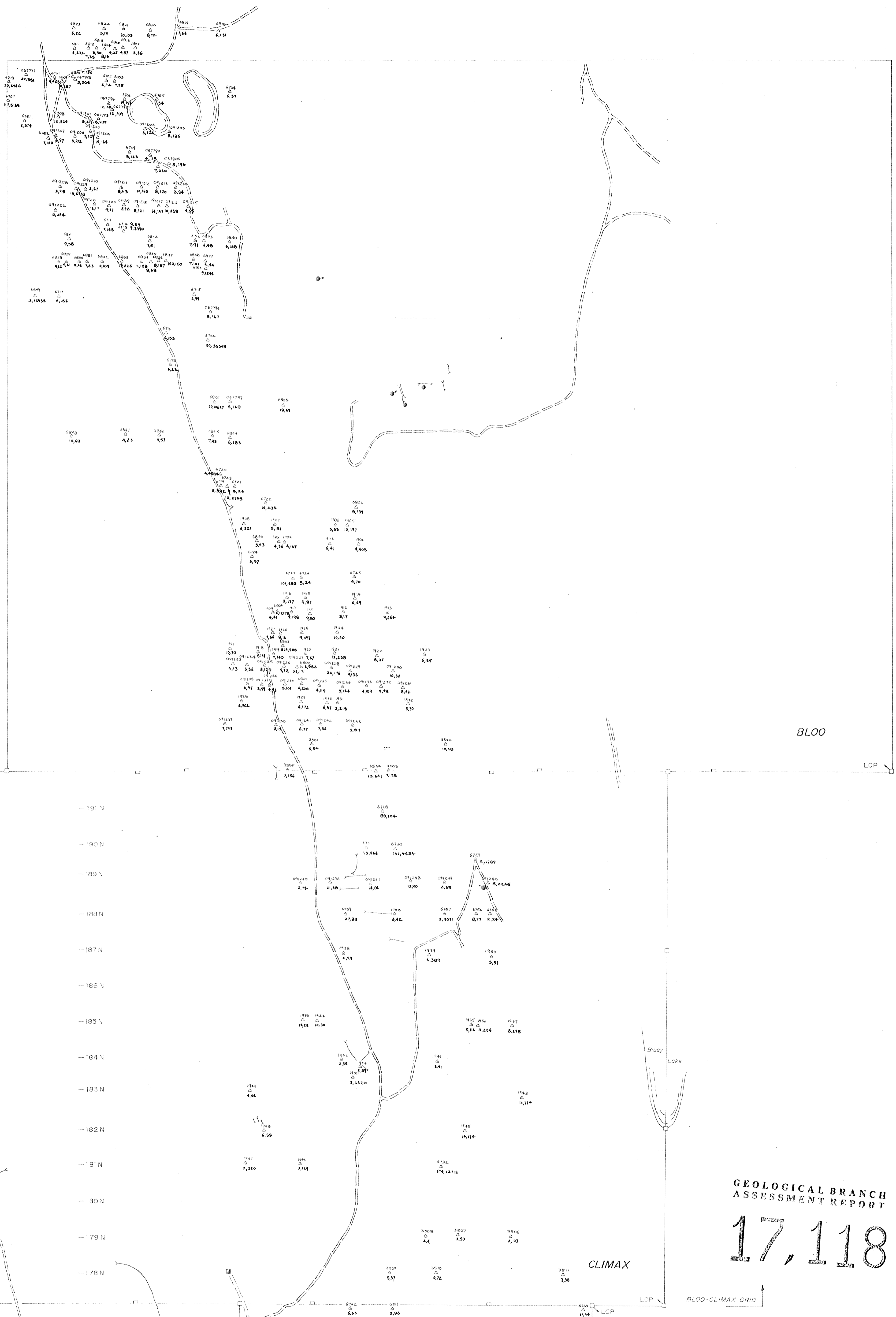
- LEGEND
- Road
  - Claim boundary and name
  - Trench, drill hole
  - Rock sample site and number  
Au ppb, Ag ppm



LARAMIDE RESOURCES LTD.					
BLOO-CLIMAX CLAIMS, B.C.					
THOR NORTH GROUP					
RECONNAISSANCE GEOCHEMICAL					
ROCK SAMPLING					
Au (ppb) Ag (ppm)					
SCALE	DATE	BY	N.T.S.	FIG. No	
1:5,000	Nov/87	dip	IMW	92H/10E	5a
Scale 125 0 125 250 metres					
IMWATSON & ASSOCIATES LTD.					

194 E 195 E 196 E 197 E 198 E 199 E 200 E 201 E 202 E 203 E 204 E 205 E 206 E 207 E 208 E 209 E

- 213 N  
- 212 + 50 N  
- 212 N  
- 211 N  
- 210 N  
- 209 N  
- 208 N  
- 207 N  
- 206 N  
- 205 N  
- 204 N  
- 203 N  
- 202 N  
- 201 N  
- 200 N  
- 199 N  
- 198 N  
- 197 N  
- 196 N  
- 195 N  
- 194 N  
- 193 N  
- 192 N



BLOO

LCP

Bluey Lake

CLIMAX

BLOO-CLIMAX GRID

200 N THOR GRID

THOR 3

THOR 2

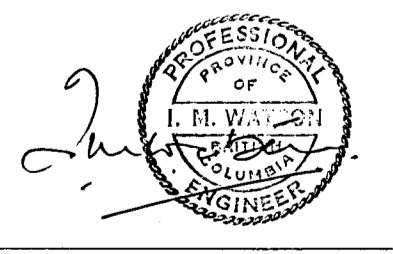
THOR

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

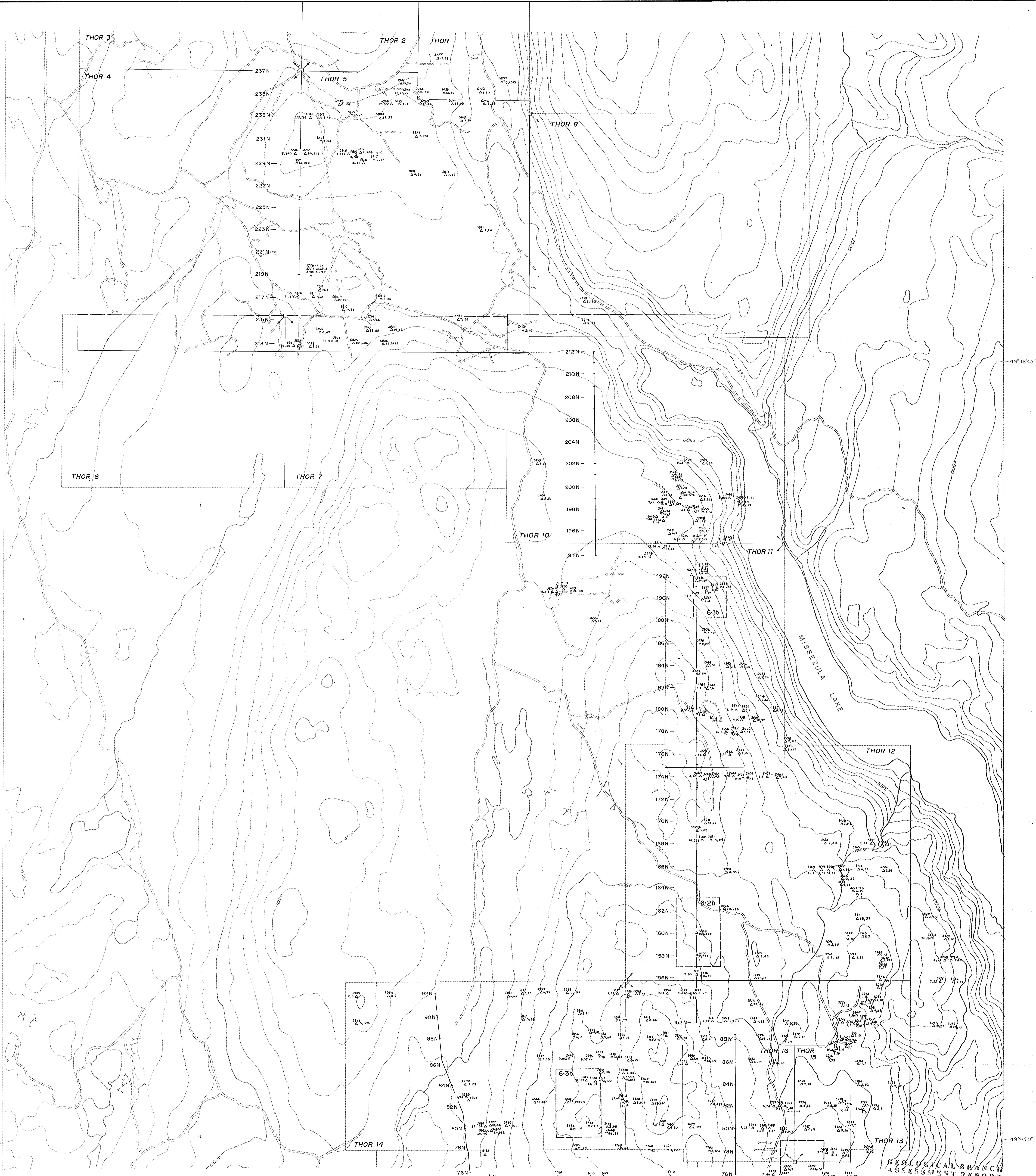
17,118

LEGEND

- Road
- THOR Claim boundary and name
- Trench, drill hole
- , △ Rock sample site and number  
Pb ppm, Cu ppm



LARAMIDE RESOURCES LTD.				
BLOO-CLIMAX CLAIMS, B.C.				
THOR NORTH GROUP				
RECONNAISSANCE GEOCHEMICAL				
ROCK SAMPLING				
Pb (ppm) Cu (ppm)				
SCALE	DATE	BY	N.T.S.	FIG. NO.
1:5,000	Nov/87	dip IMW	92H/10E	5b
Scale 125 0 125 250 metres				
I.M. WATSON & ASSOCIATES LTD.				



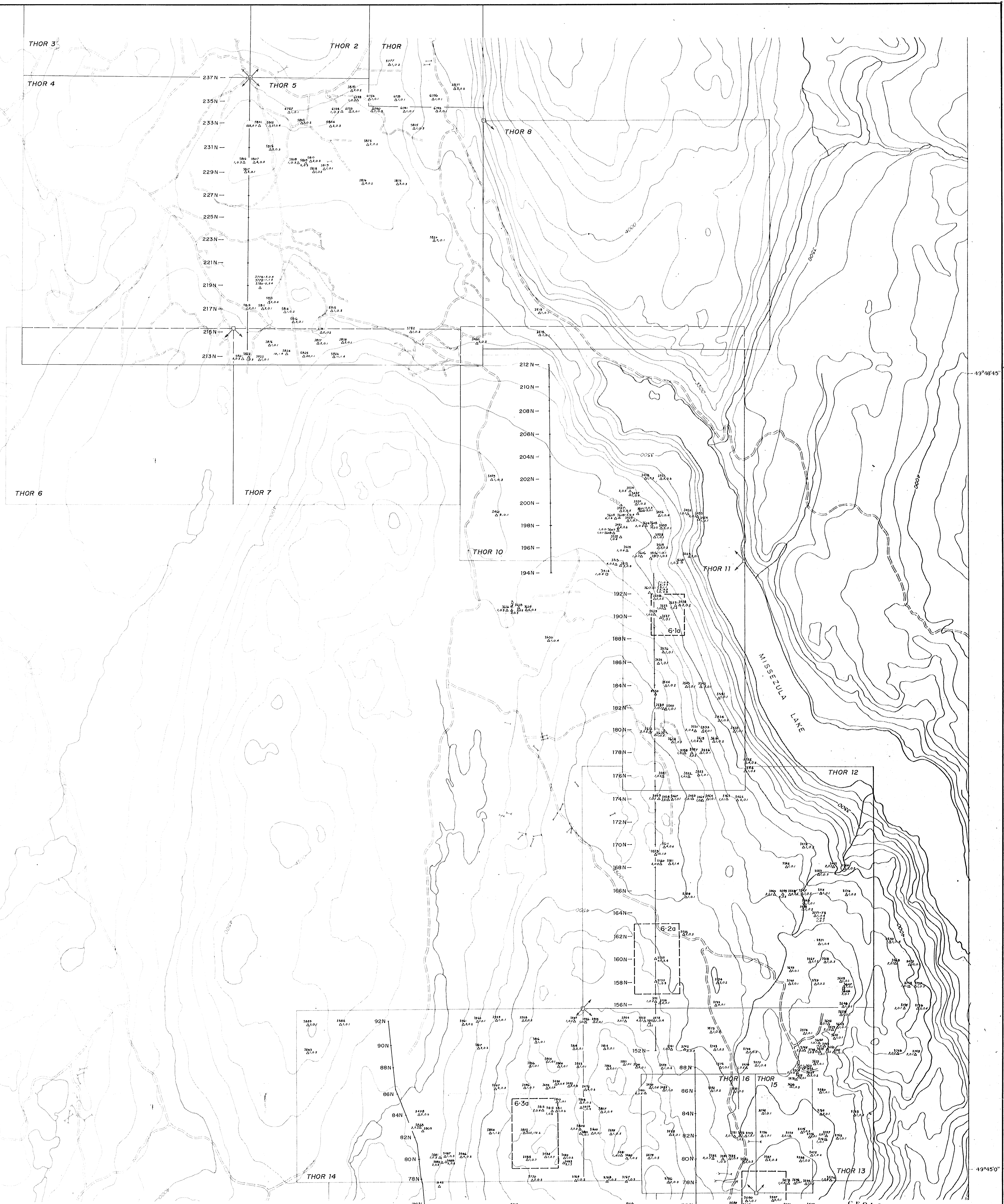
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

17,118

- LEGEND
- Topographic contour interval, 100 feet
  - Road
  - Claim boundary
  - Trench
  - Rock sample site and number  
Pb ppm, Cu ppm
  - Area of detailed sampling,  
with figure number



LARAMIDE RESOURCES LTD.		THOR CLAIMS, B.C.	
THOR CENTRAL & SOUTH GROUP			
RECONNAISSANCE GEOCHEMICAL			
ROCK SAMPLING			
Pb (ppm) Cu (ppm)			
SCALE	DATE	BY	N.T.S. FIG. NO.
1:12,000	Nov/87	IC	92N/45E 6b
Scale 0 100 200 300 400 500 600 700 metres			
L. HAWKSON & ASSOCIATES LTD.			



LEGEND

- Topographic contour interval, 100 feet
- Road
- Claim boundary
- Trench
- Rock sample site and number  
Au ppm, Ag ppm
- Area of detailed sampling,  
with figure number

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

17,118

LARAMIDE RESOURCES LTD.  
THOR CLAIMS, B.C.  
THOR CENTRAL & SOUTH GROUP  
RECONNAISSANCE GEOCHEMICAL  
ROCK SAMPLING  
Au (ppb) Ag (ppm)

SCALE	DATE	BY	UTS	FIG. NO.
1:2500	Nov/97	IC	18W	92H/15E
<b>60</b>				

Scale 0 100 200 300 400 500 600 700 meters  
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