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1992 GEOCHEMICAL ASSESSMENT REPORT  
ON THE  
BUD 1-4 AND 9 MINERAL CLAIMS

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VANCOUVER, B.C.

Located in the Cariboo Mining Division

NTS 93A/12

52°34' North Latitude, 121°48' West Longitude

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,455**

Prepared for: CANIM LAKE GOLD CORP.

Prepared by: S. TODORUK, P.Geo.

July, 1992

# 1992 GEOCHEMICAL ASSESSMENT REPORT on the BUD 1-4 and 9 MINERAL CLAIMS

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## 1.0 INTRODUCTION

The Bud 1, 2, 3, 4 and 9 mineral claims are situated within the Upper Triassic Quesnel Trough immediately west of the Mt. Polley (Cariboo-Bell) copper-gold alkalic prophyry deposit and immediately south of the QR gold deposit. This package of Nicola/Takla volcano-sedimentary and related comagmatic and/or coeval intrusive rocks is host to several other historic and present day deposits of significance. These include the Mt. Milligan, Copper Mountain, Afton, Ingerbelle, Lorraine, and further to the northwest Galore Creek.

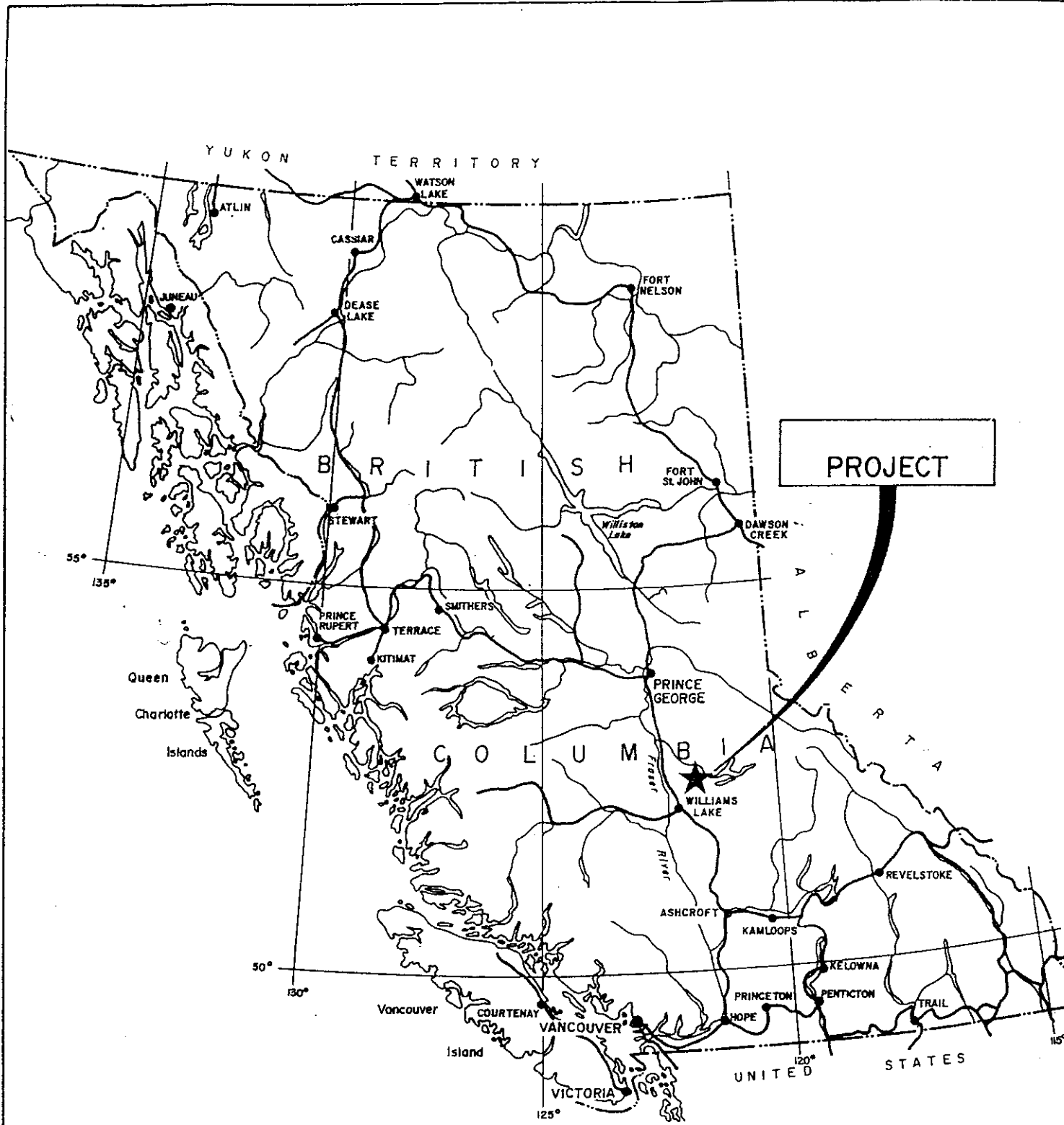
The ML project covers an area of favourable geology which has been worked intermittently over the past 30 years. New excitement in the claims area has been heightened by discoveries of copper mineralization in various geological environments around the claims mainly as a result of recent logging activities. As well, several new outcrops of Mt. Polley style syenite intrusive have been located which have not previously been reported upon.

As a result, the Bud 1-4 and Bud 9 mineral claims appear to warrant a further evaluative program of exploration in search of other gold-copper porphyry deposits and/or QR-type gold deposits.

## 2.0 LIST OF CLAIMS

Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the Bud 1-4 and 9 claims are 100% owned by S. Todoruk of Sechelt, B.C. (Figure 2).

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date*</u>
Bud 1	10598	8	May 28, 1990	May 28, 1993
Bud 2	10599	8	May 29, 1990	May 29, 1993
Bud 3	10600	20	May 27, 1990	May 27, 1993



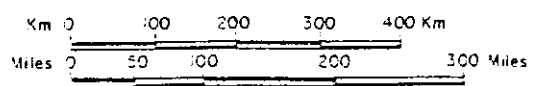
**CANIM LAKE GOLD CORP.**

**ML PROJECT**

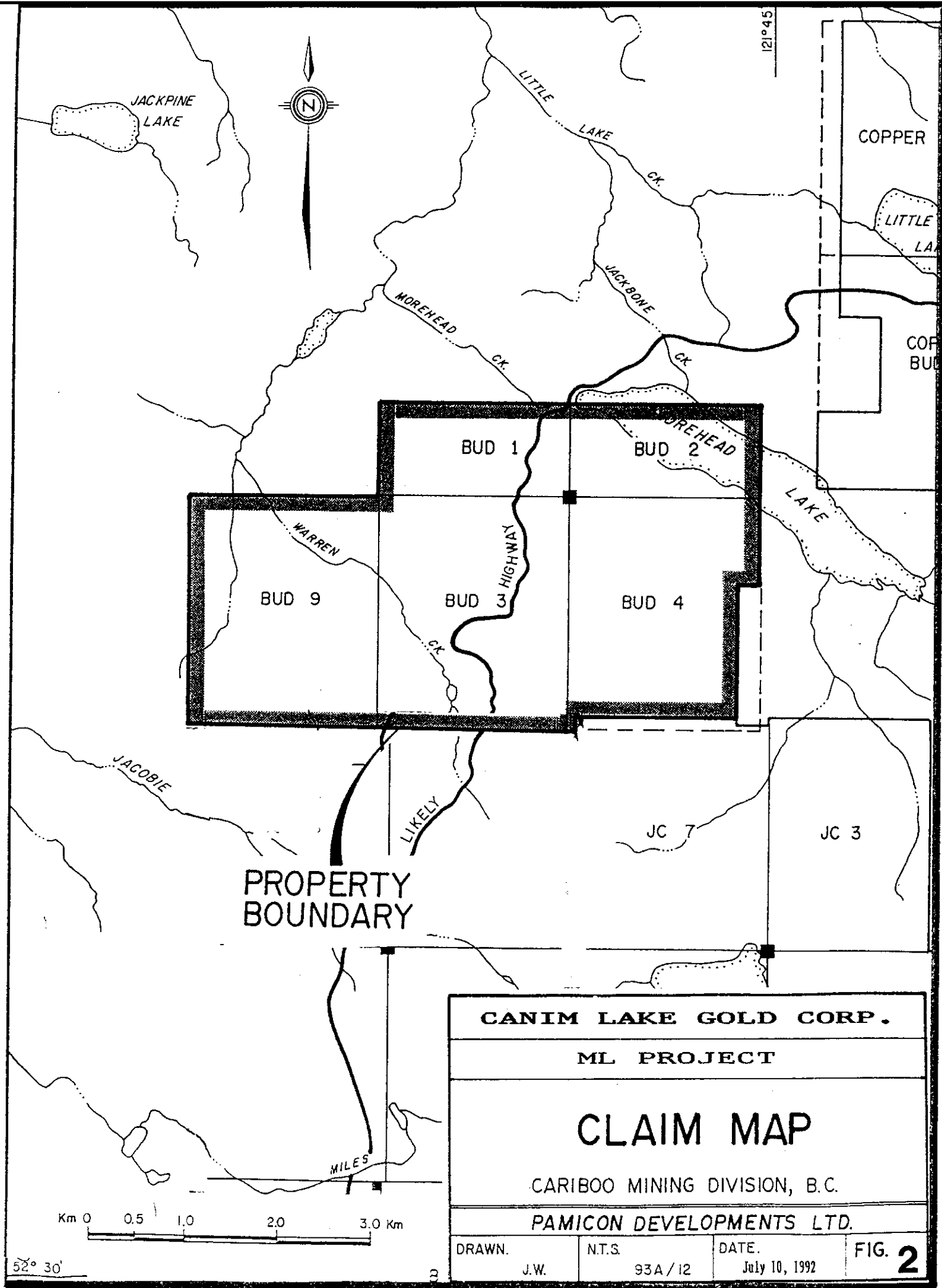
**PROPERTY LOCATION MAP**

CARIBOO MINING DIVISION, B.C.

**PAMICON DEVELOPMENTS LTD.**



DRAWN.	J.W.	N.T.S.	93A/12	DATE.	July 10, 1992	FIGURE.	<b>1</b>
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<b>CANIM LAKE GOLD CORP.</b>			
ML PROJECT			
<b>CLAIM MAP</b>			
CARIBOO MINING DIVISION, B.C.			
<b>PAMICON DEVELOPMENTS LTD.</b>			
DRAWN.	N.T.S.	DATE.	FIG. 2
J.W.	93A/12	July 10, 1992	

52° 30'

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date*</u>
Bud 4	10601	20	May 28, 1990	May 28, 1993
Bud 9	10626	20	June 1, 1990	June 1, 1993

\*pending approval of assessment work

### 3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Bud 1-4 and 9 claims are located approximately 65 kilometres north-north-west of Williams Lake and 155 kilometres southeast of Prince George, B.C., centered at 52°34' north latitude and 121°48' west longitude. The property falls within NTS map sheet 93A/12. Access to the property is via the paved Likely Highway, No. 15 for a distance of 64 kilometres from 150 Mile House. The Likely Highway crosses the property north-south along its length. Additional access is provided to much of the property by well maintained logging roads.

Physiographically, the claims are located within the Cariboo Plateau region of south-central B.C. The claims overlie gently rolling well timbered slopes with elevations ranging from 3,000 to 3,900 feet above sea level. Forest cover of secondary growth includes spruce, balsam, cedar and fir. Logged clear cuts cover areas of the claims.

### 4.0 AREA AND PROPERTY HISTORY

Historically, the Likely area has been prospected since gold was discovered on the Quesnel River and Keithley Creek in the late 1850s. Placer gold production in the Cariboo Mining District, since 1860 is reported to be between 2.5 and 3 million ounces.

Much of the exploration up until the early 1960s was focussed on placer gold, but it is likely that during this period many of the more obvious copper showings had also been located. Recognition of the Mt. Polley (Cariboo-Bell) showings as porphyry style mineralization in 1964 sparked a staking rush and a flurry of exploration followed during the mid to late 1960s. Since discovery of the Mt. Polley deposit, development work has defined an alkalic porphyry copper-gold deposit with reserve figures of 53.7 million tons grading 0.38% Cu and 0.16 oz/ton Au (Vancouver Stockwatch, January 24, 1991). Majority owner Imperial Metals Corporation has recently completed a comprehensive feasibility study and production permitting is underway. The Mt. Polley deposit lies 9 km east of the subject property.

Since 1964 the immediate areas to the west (Jacobie Lake area) and to the northwest (Little Lake area) have undergone two waves of exploration for copper-gold porphyry deposits.

The first record of work appears in assessment reports beginning in 1966 and describes exploration programs in areas now covered by the northern half of the JC and Bud claims as well as portions of the Copper Bud group. Companies active at that time included Chataway Explorations, Milestone Mining and Development Ltd., New Jersey Zinc Exploration Co., Mollusca Oils Limited and Burdos Mines Ltd. Much of the early work consisted of reconnaissance style geochemical surveys using either the rubianic acid field determination or atomic absorption methods. Line spacings of 400 feet (122 m) with 200 foot (61 m) sample intervals were generally employed. Anomalous copper values were reported in several areas and more work was usually recommended.

Low grade disseminated chalcopyrite and native copper was found in basic volcanic flows and monzonite intrusive rocks on the Milestone Mining and Development Ltd. claims south of Morehead Lake (now the ML occurrence). In 1966 and 1967 Milestone Mines Ltd. conducted exploration work including geochemical sampling, EM and IP surveys, 20,000 feet of bulldozer stripping and two BX diamond drill holes (R.W. Arnold, 1985). Further IP surveying in 1968 defined an anomalous area in the west central portion of the Bud 3 claim

and exploratory drilling was recommended. No record of this drilling has been found. The next recorded exploration work was by Dome Explorations and Newconex on the ML claims in 1975. This work which included geological mapping and trenching reports copper mineralization disseminated in limestone and maroon to grey sandstone.

During the late 1960s and 1970s the volume of work in the immediate Jacobie Lake area slowed and little is reported in the Ministry of Energy, Mines and Petroleum Resources annual reports.

In 1970 Amax Exploration, Inc. conducted work on a property on the north side of Gavin Lake. Work consisted of geological mapping, geochemical sampling and trenching. Chalcopyrite, pyrite, and molybdenite occur in a quartz vein stockwork associated with a swarm of quartz monzonite porphyry dykes which intrude a volcanic siltstone and basalt sequence (Ministry annual report, 1970).

During the same period, Canadian Minerals (1960) Ltd. conducted a magnetic survey north of Little Gavin Lake adjacent to the Amax holdings. In 1974 Zubex Resources Ltd. continued exploration of the Gavin Lake copper-molybdenum occurrence. Geochemical sampling was completed west and northwest of the original Gavin Lake showings and results showed a northwestward continuation of the molybdenum anomalies. Further ground work was recommended.

In 1972 Sunshine Valley Minerals Inc. carried out a geological reconnaissance program on their B claims lying between Trio and Morehead Lakes. Four occurrences of native copper and/or chalcocite occurring as amygdule fillings in volcanic rocks are reported.

In 1977 the QR deposit was discovered during a regional reconnaissance program by Fox Geological Consultants Limited for Dome Explorations (Canada) Limited. The QR deposit lies approximately 7 km north of the subject property. The property is underlain by fragmental basaltic rocks and fine grained sedimentary rocks of the Takla Group which have been cut by intrusive rocks of the



alkalic QR stock (Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1987 Paper 1988-1, Melling and Watkinson). Mineralization occurs as chalcopyrite and pyrite, as disseminations and in fracture fillings associated with intensely epidotized basalts along the northern margins of the (QR) stock. The deposit, now owned by Rea Gold Corp. hosts 1.3 million tons grading 0.17 oz/ton Au (The Northern Miner, March 11, 1991).

In 1981, following the release of government stream sediment survey data, the second wave of more intense exploration began in the Jacobie, Morehead and Little Lakes areas. By 1983 much of the ground between Likely and Horsefly had been staked.

Companies active in the immediate project area at that time included E & B Explorations Inc., Gibraltar Mines Ltd., Asamera Inc., Prophecy Developments Ltd., Grand Canyon Resources Inc., Rockridge Mining Corporation, Teck Explorations Limited, Georgia Strait Resources Ltd., Golden Lake Explorations and Triumph Resources Corporation. The entire Jacobie Lake property (Bud, Copper Bud and JC claims) was covered by mineral claims.

Due in part to the intense overburden cover and general lack of outcrop, geophysical surveys were employed as the principal exploration tool. Because of the magnetic high signature associated with both the Cariboo-Bell and QR deposits, magnetometer surveys were conducted over almost all of the subject area. In 1982 E & B Explorations Inc. conducted an airborne magnetic and VLF-EM survey of their Little Lake holdings. This survey covered an area some 14 km<sup>2</sup> and extended south as far as Jacobie Lake.

Numerous VLF-EM conductors were located. In 1984 ground follow-up on seven grid areas based on airborne VLF anomalies were explored by ground geophysics and geochemistry. Due to the apparent lack of coincidence between gold geochemistry and VLF anomalies, no further work was conducted.

Also, in 1984 E & B Explorations worked the Jacobie 2 claim southeast of Jacobie Lake.

The Bear claims, north of the TH group, owned by Gibraltar Mines Ltd., received reconnaissance geochemical soil surveys during 1983 to 1985. Several copper geochemical anomalies were considered to have been glacially transported.

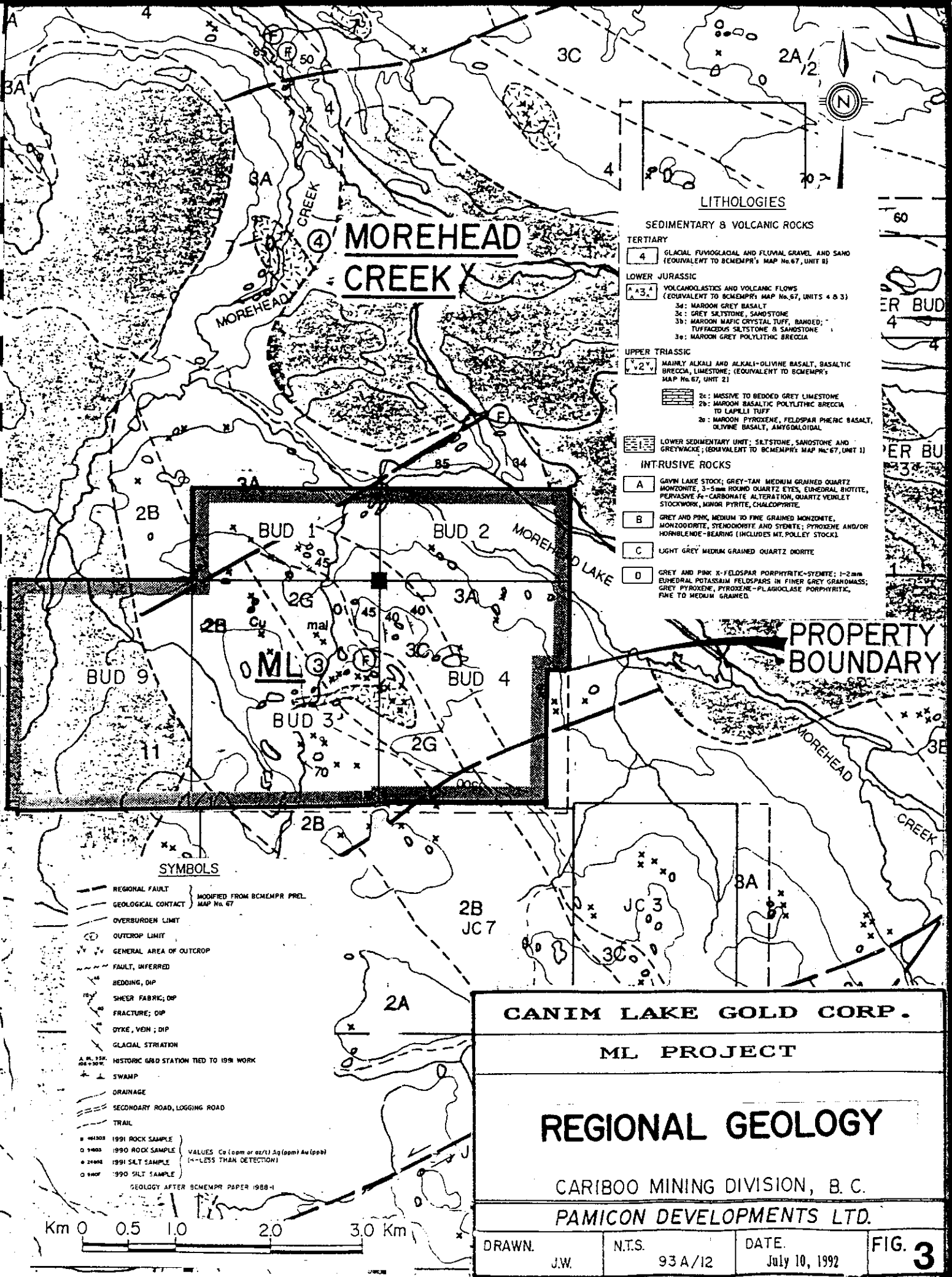
Asamera Inc. conducted geochemical and geophysical surveys in 1984 over a large block of claims north and east of Jacobie Lake. Two areas with coincident copper and magnetic anomalies were recommended for further work. An IP survey was carried out later in the same year over the copper magnetic anomalies.

In 1984 Rockridge Mining Corporation worked the ground west of Asamera between Jacobie Lake and the ML showing. Small copper geochemical anomalies were outlined and grab samples of quartz breccia returned anomalous gold values. The high level epithermal characteristics of the breccia in conjunction with low gold values suggest that better mineralization could possibly be expected at depth (J.F. Carne, 1984).

## 5.0 REGIONAL GEOLOGY

The Jacobie Lake property is located in south-central B.C. within the Quesnel Terrane which forms part of the Intermontane Belt of the Canadian Cordillera (Figure 3). The belt is a northwest trending tectonic division comprised of Mesozoic volcanic and sedimentary rocks of island arc affinity represented by Takla Group to the north and by Nicola Group to the south. Nicola Group rocks underlie the property area. Alkalic intrusions coeval with volcanics and often closely related to alkaline copper-gold porphyry deposits are widespread in the Quesnel Terrane (DeLong et al., 1991).

To the east, the Quesnel Terrane is bounded along a thrust fault contact with Precambrian to Lower Paleozoic Snowshoe Group sedimentary rocks of the Omenica Crystalline Belt. To the west, the Pinchi Fault separates Quesnel Terrane



# MOREHEAD CREEK

## LITHOLOGIES

### SEDIMENTARY & VOLCANIC ROCKS

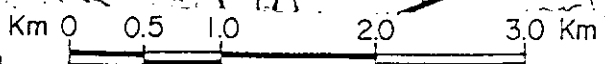
- TERTIARY**
- 4: GLACIAL FLUVIOLACIAL AND FLUVIAL GRAVEL AND SAND (EQUIVALENT TO BCMENPR'S MAP No.67, UNIT B)
- LOWER JURASSIC**
- A3A: VOLCANOCLASTICS AND VOLCANIC FLOWS (EQUIVALENT TO BCMENPR'S MAP No.67, UNITS 4 & 3)
    - 3a: MAROON GREY BASALT
    - 3c: GREY SLTSTONE, SANDSTONE
    - 3b: MAROON MAFIC CRYSTAL TUFF, BANDED; TUFFACEOUS SLTSTONE & SANDSTONE
    - 3e: MAROON GREY POLYLITHIC BRECCIA
- UPPER TRIASSIC**
- V2V: MAINLY ALKALI AND ALKALI-OLIVINE BASALT, BASALTIC BRECCIA, LIMESTONE; (EQUIVALENT TO BCMENPR'S MAP No.67, UNIT 2)
    - 2c: MASSIVE TO BEDDED GREY LIMESTONE
    - 2b: MAROON BASALTIC POLYLITHIC BRECCIA TO LAPILLI TUFF
    - 2a: MAROON PYROXENE, FELDSPAR PHERIC BASALT, OLIVINE BASALT, AMYGDALOIDAL
- LOWER SEDIMENTARY UNIT: SLTSTONE, SANDSTONE AND GREYWACKE; (EQUIVALENT TO BCMENPR'S MAP No.67, UNIT 1)**

### INTRUSIVE ROCKS

- A: GAVIN LAKE STOCK; GREY-TAN MEDIUM GRAINED QUARTZ MONZONITE, 3-5mm ROUND QUARTZ EYES, EMBEDDED BIOTITE, PERVASIVE Fe-CARBONATE ALTERATION, QUARTZ VEINLET STOCKWORK, MINOR PYRITE, CHALCOPYRITE
- B: GREY AND PINK, MEDIUM TO FINE GRAINED MONZONITE, MONZODORITE, STENODORITE AND SYENITE; PYROXENE AND/OR HORNBLende-BEARING (INCLUDES MT. POLLEY STOCK)
- C: LIGHT GREY MEDIUM GRAINED QUARTZ DIORITE
- D: GREY AND PINK K-FELDSPAR PORPHYRITIC-SYENITE; 1-2mm EMBEDDED POTASSIUM FELDSPARS IN FINER GREY GRANODIORITE; GREY PYROXENE, PYROXENE-PLAGIOCLASE PORPHYRITIC, FINE TO MEDIUM GRAINED.

## SYMBOLS

- REGIONAL FAULT (MODIFIED FROM BCMENPR PREL. MAP No. 67)
  - GEOLOGICAL CONTACT
  - OVERBURDEN LIMIT
  - OUTCROP LIMIT
  - GENERAL AREA OF OUTCROP
  - FAULT, INFERRED
  - BEDDING, DIP
  - SHEAR FABRIC; DIP
  - FRACTURE; DIP
  - DYKE, VEIN; DIP
  - GLACIAL STRIATION
  - HISTORIC GRID STATION TIED TO 1991 WORK
  - SWAMP
  - DRAINAGE
  - SECONDARY ROAD, LOGGING ROAD
  - TRAIL
  - 1991 ROCK SAMPLE
  - 1990 ROCK SAMPLE
  - 1991 SILT SAMPLE
  - 1990 SILT SAMPLE
- VALUES: Cu (ppm or oz/t), Ag (ppm), Au (ppm) (<- LESS THAN DETECTION)
- GEOLOGY AFTER BCMENPR PAPER 1988-1



**CANIM LAKE GOLD CORP.**

**ML PROJECT**

# REGIONAL GEOLOGY

CARIBOO MINING DIVISION, B. C.

PAMICON DEVELOPMENTS LTD.

DRAWN.	N.T.S.	DATE.	FIG. 3
J.W.	93 A/12	July 10, 1992	

rocks from Paleozoic Cache Creek Group sediments and volcanics of the Cache Creek Terrane.

The underlying geology in the property area includes a package of mid-Triassic to early Jurassic basal sedimentary rocks overlain by dominantly volcanic rocks (Bailey, 1988). Basal epiclastic sediments include phyllite and siltstone with minor sandstone, greywacke conglomerate and limestone. Overlying volcanic rocks and associated sedimentary rocks include a basal package of alkaline-olivine basalt and alkali basalt composition lavas, breccias and flows with upper siltstone, sandstone and minor limestone. Successively overlying these units are volcanic breccias and fine tuffs of latite-trachyte composition, minor fine sediments, amygdaloidal alkali-olivine basalt, and a successor basin assemblage including post-volcanic calcareous sandstone, siltstone, and cobble conglomerate. Pleistocene glacial and fluvial deposits and Miocene lavas cover large areas of the Quesnel Belt.

Intrusive rocks include several small stocks, plugs and dykes of syenite to monzodiorite composition. The Mt. Polley stock, which hosts the Mt. Polley deposit, is of monzonite to syenodiorite composition. These intrusives are thought to be coeval and comagmatic with Early Jurassic volcanism extending into Middle Jurassic time. Stocks and dykes of quartz monzonite to granite of probable Cretaceous age cut earlier intrusives. Mafic dykes which cut basal sedimentary rocks probably represent feeders to overlying mafic volcanic rocks.

Structurally, the central Quesnel Belt has been folded into a broad open syncline of regional extent cut by at least three generations of faults.

Fault orientations include an early (post mid-Jurassic) northwest trending low angle reverse thrust, later northeast trending sinistral faults and a third north trending fault system which may have been active into the Tertiary. Basal sedimentary rocks display variable penetrative fabrics, with two phases of folding. Rocks higher in the sequence show no penetrative fabric.

Historically, the Quesnel Terrane and neighbouring Mesozoic volcanic-sedimentary island arc assemblages, including Stikinia in the north and Rossland Group in the south, can be associated with Cu-Au porphyries of the alkaline suite. Well known deposits include Mt. Milligan, Mt. Polley, QR (?), Galore Creek, Copper Mountain, Afton and Lorraine. Characteristically these deposits contain high Au and Ag values and commonly display pyrometasomatic or skarn type mineralization as well as classic porphyry style mineralization. Regional fault structures are also often associated with these deposits.

Copper-gold mineralization with alkalic porphyries is spatially and temporally related to comagmatic and coeval alkalic plutonism and volcanism (Barr et al., 1976). Plutons characteristically occur clustered along continuous linear trends. The Mt. Polley stock (Cariboo-Bell) is located approximately 9 kilometres east of the property. This deposit hosts reserves of 53.7 million tonnes grading 0.38% Cu and 0.061 oz/ton Au. Mt. Polley is characterized by crackle and intrusive breccias typical of porphyry systems, with a propylitic alteration zone surrounding a central potassic and intermediate garnet-epidote alteration zone. The QR deposit to the north is hosted by propylitically altered basalt breccias near a zoned diorite-syenite intrusive. Reserves of 1.3 million tonnes grading 0.17 oz/ton Au have been calculated. This deposit displays features of both porphyry and epithermal mineralization. Feasibility studies have been completed on both deposits.

Other types of mineralization which occur near the property include disseminated chalcocite and chalcopyrite-pyrite in basalts, native copper in amygdules within basalt, and porphyry style chalcopyrite-molybdenum in the Gavin Lake quartz monzonite stock.

## 6.0 PROPERTY GEOLOGY

The property is underlain by a northwest trending, northeast dipping homoclinical sequence of Upper Triassic to Lower Jurassic alkalic volcanic and sedimentary rocks, intruded by coeval stocks and dykes of intermediate composition

(Figure 4). The west side of the property is largely covered by Pleistocene glacial-glaciofluvio material.

The most common rock type encountered on the property is a maroon to green coloured pyroxene-phyric basalt, of Upper Triassic age. This unit is characteristically very fine grained and massive, variably amygdaloidal, with abundant dark green glassy pyroxene and olivine (?) phenocrysts. Outcrops weather irregular. Copper mineralization has been observed east of the property and on the property within this unit as disseminated chalcocite, and as rare native copper in amygdules. Lesser polyolithic breccia and lapilli tuff occur with this unit.

Upper Triassic limestone outcrops in the northeast corner of the property, in contact with basalt to the west and Lower Triassic grey to maroon tuffaceous siltstone and sandstone to the east; further east is maroon to grey polyolithic breccia. The limestone is light grey and massive to poorly bedded. Minor copper mineralization occurs in association with an intrusive which cuts the limestone. The volcanic breccia to the east is characterized by flattened subangular millimetre to centimetre sized porphyritic volcanic clasts in a very fine grained matrix. This unit is weakly magnetic.

Intrusive rocks consist of the ML stock which cuts limestone and basalts on the Bud 3 & 4 claims. This syenitic stock of probable Lower to Middle Jurassic age is of the same affinity as the Mt. Polley stock and is associated with copper mineralization at the ML showing, as described previously. This intrusive is medium grained, equigranular to subporphyritic, moderately magnetic and weakly sericite-biotite (?) altered. Rocks in contact with this intrusive are strongly to moderately iron-carbonate and quartz altered.

South of this stock grey coloured pyroxene-plagioclase phyric low level intrusive apparently cuts basalts; this unit may be intermediate between volcanics and more obviously intrusive rocks. Disseminated chalcocite in basalt occurs in this area as part of the ML showing.

Structurally, rocks on the property appear to have undergone only local deformation, with small areas of brecciation, shearing and alteration noted. Alteration products include iron-carbonate, quartz, sericite, limonite and hematite.

## 7.0 REGIONAL AND PROPERTY AREA AIRBORNE AND GROUND GEOPHYSICS

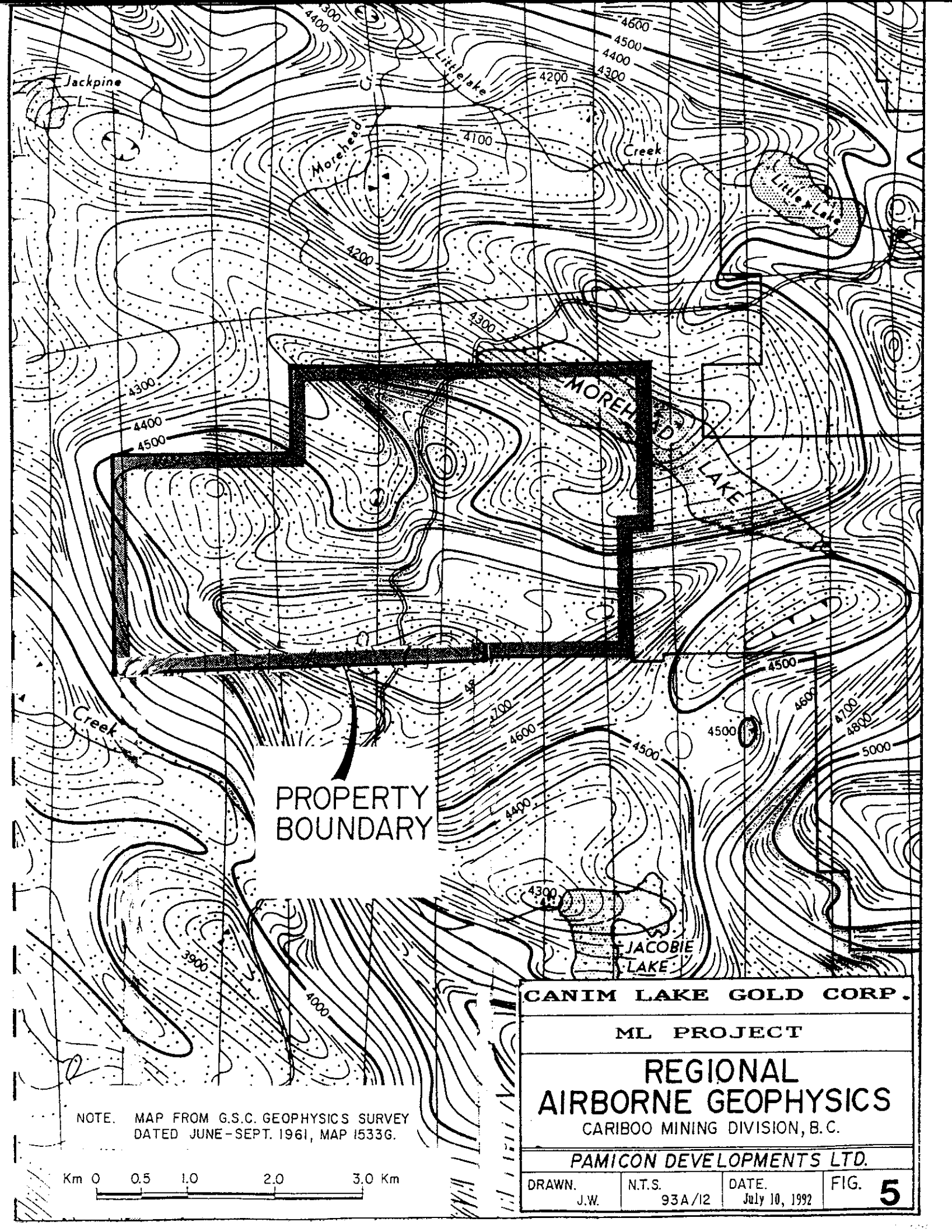
The first documented geophysical program covering the property was a reconnaissance airborne magnetometer survey conducted by the Geological Survey of Canada in 1961 (Figure 5). This survey outlines the Mt. Polley stock and several other magnetic highs of lesser magnitude. A moderate strength anomaly approximately 4 km in length occurs south of Jacobie Lake in the Bud 3 claim area.

Several ground and airborne surveys have since been carried out by various companies. Work has included ground magnetometer, VLF-EM and IP surveys and airborne magnetometer and VLF-EM.

In 1966 Milestone Mines Ltd. of Vancouver, B.C. completed an IP survey of limited extent over the ML showing area. The author reported an area of high chargeability, interpreted as sulphide mineralization. In 1967 Milestone completed an expanded IP survey over the ML showing area, again defining a chargeability anomaly, interpreted to have a source some 400 feet below surface. This report recommends a follow up drill program.

Other work in the 1960s included surveys by Burdos Mines Ltd., of Vancouver in the Little Lake area including ground magnetometer, airborne EM and follow up IP. This work covered part of the Copper Bud claims area. A few moderate strength anomalies were defined. Diamond drilling and geochemistry were recommended.

Although some geochemical surveys were completed in the 1970s there was a hiatus of geophysical activity in the property area. Work continued in the



PROPERTY  
BOUNDARY

NOTE. MAP FROM G.S.C. GEOPHYSICS SURVEY  
DATED JUNE-SEPT. 1961, MAP 1533G.



<b>CANIM LAKE GOLD CORP.</b>			
<b>ML PROJECT</b>			
<b>REGIONAL AIRBORNE GEOPHYSICS</b>			
CARIBOO MINING DIVISION, B.C.			
<b>PAMICON DEVELOPMENTS LTD.</b>			
DRAWN. J.W.	N.T.S. 93A/12	DATE. July 10, 1992	FIG. <b>5</b>



early 1980s following a 1980 regional stream sediment geochem survey (GSC Open File 776). In 1982 E & B Explorations Inc. of Vancouver carried out a preliminary IP survey over ground south of the Bud 3 & 4 claims. Two IP lines were run next to gossanous outcrops located along the Likely Highway. A chargeability anomaly was outlined reportedly 600 m x >2 km in size. Limited reverse circulation drilling in 1985 failed to detect any mineralization. In 1983 E & B Explorations conducted airborne magnetometer and VLF-EM over an extensive area north from Jacobie Lake to Little Lake. Several anomalous areas were detected, including a well defined anomaly just west of Jacobie Lake. This program was followed by ground VLF-EM/magnetometer as well as soil geochemistry surveys. The Bud 1-4 and parts of the Bud 9 were covered by this work. Further work based on results was recommended in three areas to the north of the Bud 1 & 2 claims. In 1985, ground VLF-EM and magnetometer surveys were done on airborne anomalies not previously tested.

Asamera Inc. was also active in the area in 1984. A program of ground magnetometer and VLF-EM with soil geochemistry was completed northeast of Jacobie Lake. Two areas of coincident magnetometer anomalies and Cu soil anomalies are described. IP surveys in this area were unable to explain these. No record of further follow up work was found.

Also in 1984 Teck Explorations Ltd. carried out ground magnetometer and VLF-EM surveys along with soil and rock geochemistry south of Little Lake. A moderate strength VLF-EM conductor is reported within the Copper Bud 3 area. This report recommends deep penetrating geophysical surveys to further evaluate the property. In 1986 Triumph Resource Corp. completed a geophysical and geochemical program over the Copper Bud 1 claim area. Anomalous magnetic features are suggested by the report to represent basic volcanic geology.

A program of geological mapping, prospecting, rock chip, soil sampling and petrographic analysis was conducted on the claims and the area south of them in 1991. Details are presented in an assessment report dated July 1991 by Montgomery, Todoruk and Darney.

This report noted that an area several metres wide of alteration and brecciation is located along the Likely Highway on the Bud 3 claim. Altered volcanics and intrusive (?) display intense iron-carbonate and hematite alteration with iron-carbonate and chalcedony fracture filling. Similar alteration and brecciation occurs at the ML stock to the east. Both of these zones returned anomalous copper values.

At the ML showing area, located on the Bud 3 & 4 claims, mineralization occurs as disseminated and fracture controlled chalcocite with malachite in basalt and as malachite along fractures in altered limestone (?). Sporadic occurrences of copper mineralization occur over an area approximately 1 km<sup>2</sup>. Assay values to 1.36% Cu with weakly anomalous gold to 320 ppb have been returned from select grab samples. The area is underlain by Upper Triassic basalt and limestone cut by Lower to Mid-Jurassic syenite and pyroxene-plagioclase porphyry. Iron-carbonate + quartz, calcite, hematite, k-feldspar (?) alteration and brecciation are associated with this intrusive. Previous work in this area by Milestone Mines Ltd. included geophysical and geochemical surveys and limited drilling. During the 1991 program, two outcrops 100 metres apart were found which consist of rusty weathering silicified alteration hosting disseminated chalcocite and small shear related malachite mineralization.

## 8.0 1992 PROGRAM

Based on recommendations from the work in 1991 a grid totalling 36.4 km was established on the Bud 3 & 4 and eastern portion of the Bud 9 claims between May 18th and 25th, 1992. Control for this grid was compass and topofil with north/south lines on a 400 metre spacing and stations at each 100 metres. This grid was employed to collect geochemical samples. The samples were taken from the B soil horizon which generally occurred between 15 and 60 cm of depth. Extensive overburden and glacial material was noted in a large number of areas which will probably tend to subdue results as noted by previous authorities.

Samples were placed in kraft envelopes, air dried and forwarded to Bondar-Clegg laboratories in North Vancouver for analysis.

A total of 363 soil samples, 1 stream sediment sample and 7 rock samples were analyzed. Results of this sampling are presented in Figures 4 and 6 with lab reports contained in the appendices.

## 9.0 DISCUSSION OF RESULTS

The soil sampling program indicates a number of areas with elevated geochemical copper values on the claims (Figure 6). Although line spacing is too broad to date for exact determination these areas appear to trend northwest-southeast and occur intermittently across the entire grid area. Studies in the Mt. Polley area by Imperial Metals Corp. has shown the direction of glaciation to be from southeast to northwest.

The rock samples collected were from the ML showing area near the centre of the grid area. Results are presented below with locations plotted on Figure 4.

<u>Sample Number</u>	<u>Au (ppb)</u>	<u>Cu (ppm)</u>
R2 ML-01	<5	377
R2 ML-02	<5	42
R2 ML-03	<5	15
R2 ML-04	<5	165
R2 ML-05	<5	39
R2 ML-06	<5	201
R2 ML-07	221	8890

As can be seen on Figure 6 the ML area appears to be on strike with several of the geochemical anomalies but has more subdued geochemical responses than the other areas.

## 10.0 CONCLUSIONS

The 1992 project consisted of widely spaced geochemical soil sampling along with some minor rock chip sampling. It has identified several areas of geochemical response peripheral to the ML syenite stock which require further work. More detailed grids should be established in these areas and serve as control for further geochemical sampling, geological mapping and possible geophysical surveying which could be followed by a drill testing program.

Respectfully submitted,



S.L. Todoruk, P.Geo.



**APPENDIX I**

**BIBLIOGRAPHY**

## BIBLIOGRAPHY

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**APPENDIX II**

**COST STATEMENT**

**COST STATEMENT**  
**BUD 1, 2, 3, 4, 9 MINERAL CLAIMS**  
**MAY 18 TO MAY 26, 1992**  
**CARIBOO MINING DIVISION**

**WAGES**

S. Todoruk, P.Geo.		
6 days @ \$225.00	\$1,350.00	
2 days @ \$110.00	220.00	
M. Schatten (Geologist)		
6 days @ \$200.00	1,200.00	
J. Elmore (Sampler)		
6 days @ \$225.00	1,350.00	
2 days @ \$110.00	<u>220.00</u>	
		\$4,340.00

**GENERAL EXPENSES**

Truck Rental - 7 days @ \$50.00	\$ 350.00	
Field Supplies	283.35	
Accommodations	120.00	
Travel Expenses and Meals	565.78	
Assays	1,495.00	
Report	902.00	
Recording Fees	380.00	
Project Supervision	<u>483.90</u>	
		<u>4,580.03</u>
		8,920.03
	GST	<u>624.40</u>

**TOTAL THIS PROJECT**

\$9,544.43

**APPENDIX III**

**SAMPLE DESCRIPTIONS**



Sampler M. SCHAFFEN  
Date MAY 19-23, 1992

Project JACOBIE LAKE  
Property ML

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS			
				Colour	Texture	Drainage				Cu	MM	APK	
12+00E	B 000	4-6"	B	REDDISH BROWN			-		FEW FRAGS IN SOIL; ANGULAR TO SUB-ROUNDED	16			
13+00E							-			21			
14+00E							-			29			
15+00E							-			17			
16+00E							-			15			
17+00E							-			17			
18+00E							-			18			
19+00E							-			30			
20+00E							-			15			
21+00E							-			17			
22+00E							-			30			
23+00E							-			32			
24+00E							-			27			
25+00E	N/S								@ 24+6E START OF SWAMP				
26+00E	N/S								@ 26+27E END BASE LINE DUE TO SLOUGH N 30M WEST				
27+00E	TO 32+00E			N/S					SLOUGH + SWAMP				
33+00E		8-10"	B	REDDISH BROWN			0-10°			26			
34+00E							0-10°			55			
35+00E							0-10°			32			
36+00E							0-5°			27			

**PAMIC DEVELOPMENTS LIMITED**

**Geochemical Data Sheet - SOIL SAMPLING**

Sampler M. SCHATTEN  
Date MAY 19-23, 1992

Project JACOBIE LAKE  
Property \_\_\_\_\_

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS			
				Colour	Texture	Drainage				Cu	As	ML	
37+00E	B 000		B	REDDISH BROWN		GOOD	θ		TOP OF SMALL KNOLL W/ VERY ROCKY SOIL - FRAGS ANGULAR TO SUB-ANGULAR	42			
38+00E				GREYISH BROWN			θ			15			
39+00E				REDDISH BROWN			0-5°		③ 39+50E STREAM RUNNING ~ N-S	16			
40+00E				BROWNISH GREY			5-10°			28			
41+00E							0-5°			26			
42+00E							0-5°			19			
43+00E							0-5°			30			
44+00E			A/B	BROWN + BLACK			5-10°		SOIL ROCKY W/ SUB-ANGULAR FRAGS	33			
45+00E			B			POOR	θ		SAMPLE TAKEN @ 45+20E DUE TO SWAMPY GROUND. ROCKY SOIL AS ABOVE.	27			
46+00E			B	BROWN			5-10°			36			
47+00E				REDDISH BROWN			θ			14			
48+00E						POOR	θ	GRASS / MOSS		52			
49+00E				GREYISH BROWN			θ	GRASS		45			
50+00E							θ	GRASS		86			
51+00E				REDDISH BROWN			0-5°			30			
52+00E				GREY BROWN			0-5°		WET.	64			
53+00E				REDDISH BROWN			θ			141	<5		
54+00E				BROWN			0-5°			48			
55+00E							θ		ROCKY SOIL W/ SUB-ANGULAR FRAGS	34			
56+00E				GREYISH BROWN			0-5°		FEW FRAGS - SUB-ROUNDED	25			







Sampler JASON ELMORE  
Date May 19/92

Project ML  
Property Bud claims

NTS 93A12  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Cu	Mg	Az		
40+00E	2500N	40cm	B	Lt BROWN	FINE		35°			27				
39+00E	2500N	50cm	B	GREY BROWN	COR		20°			43				
38+00E	2500N	30cm	B	BROWN	COR		Flat			42				
37+00E	2500N	40cm	B	Lt BROWN	COR		//			36				
36+00E	2500N	40cm	B	GREY BROWN	COR		//			21				
35+00E	2500N	50cm	B	Lt BROWN	FINE		//			27				
34+00E	2500N	40cm	B	GRAY	COR		//			62				
33+00E	2500N	60cm	B	BROWN	COR		//			69				
32+00E	2500N	60cm	B	Redish BROWN	FINE		//			32				
31+00E	2500N	50cm	B	Lt BROWN	Med		//			34				
30+00E	2500N	35cm	B	TAN BROWN	FINE		//			27				
29+00E	2500N	60cm	B	DARK BROWN	FINE clay		//			54				
28+00E	2500N	40cm	B	GREY BROWN	COR		//			22				
27+00E	2500N	50cm	B	TAN BROWN	COR		//			39				
26+00E	2500N	30cm	B	DARK BROWN	COR		//			85				
25+00E	2500N	25cm	B	DARK BROWN	COR clay		//			64				
24+00E	2500N	30cm	B	Lt BROWN	COR		//			14				
23+00E	2500N	35cm	B	TAN BROWN	COR		40°			33				
22+00E	2500N	45cm	B	GRAY BROWN	COR		Flat			31				
21+00E	2500N	40cm	B	// //	COR		//			42				



Sampler JASON ELMORE  
Date MAY 20/02

Project ML  
Property \_\_\_\_\_

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Cu	Au			
2400N	L8+00E	40cm	B	ORANGE BROWN	FINE		Flat		39					
2300N	8+00E	"	B	Lt BRO	" "		"		20					
2200N	8+00E	35	B	DARK BRO	COR		"		119	6				
2100N	8+00E	"	B	Lt BRO	COR		"		34					
2000N	8+00E	40	B	Green Brown	FINE		"		26					
1900N	8+00E	25	B	DARK BROWN	Med		"		24					
1800N	8+00E	35	B	" "	COR		"		33					
1700N	8+00E	25	B	Lt BRO	Med		10°		30					
1600N	8+00E	30	B	" "	FINE		Flat		33					
1500N	8+00E	"	B	" "	Med		"		26					
1400N	8+00E	35	B	DARK BRO	COR		"		70					
1300N	8+00E	30	B	Black	"		"		200	<5				
1200N	8+00E	35	B	Lt Bro	Med		10°		84					
1100N	8+00E	30	B	" "	COR		"		70					
1000N	8+00E	25	B	" "	FINE		"		22					
900N	8+00E	30	B	" "	Med		Flat		24					
800N	8+00E	25	B	Grey Brown	COR		"		19					
700N	8+00E	"	B	Lt Brown	Med		"		23					
600N	8+00E	30	B	" "	FINE		"		20					
500N	8+00E	"	B	DARK BROWN	COR		"		60					



Sampler Steve Todorak  
Date May 19/20 - 1992

Project ML  
Property Bud 1-4, 9 claims

Location Ref NTS  
Air Photo No                     

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Cu	ppb			
L12+00E	1+00 N	45	B	m. brn	fine		flat		no fragments	27				
	2+00 N	55	B	"			flat		lots of angular frags.	29				
	3+00 N	40		"			"		lots of sub-ang. to sub-rounded frags.	45				
	4+00 N	50	B	"			"		" "	49				
	5+00 N	40		lite red sandy brown			"		lots of sub- to well-rounded pebbles. 4-5 ft rounded bldr. nearby	80				
	6+00 N	45	B	med. brn		swampy	"		rounded to sub-rnd. pebbles + cobbles	26				
	7+00 N	50	B	"			flat		" "	26				
	8+00 N	50	B	"			"		* some organic roots	25				
	9+00 N	40	B	lite grey brown			"		medium amount of sub-rnd. to sub-ang. pebbles/cobbles	17				
	10+00 N	40	B	med. brn.			"		" "	52				
	11+00 N	65	B	"			"		Some small rounded pebbles	36				
	12+00 N	50	B	rusty red/brn color			"		lots of rounded to sub-rounded pebbles	32				
	13+00 N	60	B	light-med. brown			"		Some pebbles	48				
	14+00 N	55	B	med. brn	fine		"		a few sub-rounded pebbles.	24				
	15+00 N	60	B	light rusty-brn.			"		med. amount of pebbles.	26				
	16+00 N	50	B	med. brn.					Some rid. pebbles.	32				
L12+00E	17+00 N	70	B	brown	fine				very few pebbles	42				
L12+00E	17+15 N			silt sample						31				





Sampler Jason Elmore  
Date May 22, 1992

Project MC  
Property Bud 1-4,9 claims

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Cu	MM	Ag	ppb	
L16+00E	1+00N	25	B	lite brown			flat			17				
	2+00N	35	B	"			"			15				
	3+00N	40	B	"			"			28				
	4+00N	30	B	grey-brown			"			30				
	5+00N	40	B	dark brown			"			268	8			
	6+00N	35	B	brown			"			42				
	8+00N	35	B	med. brn.			"			67				
	9+00N	40	B	med. brown			"			30				
	10+00N	30	B	lite brown			"			24				
	11+00N	30	B	dark brown			"			79				
	12+00N	30	B	grey brn.			"			18				
	13+00N	25	B	med. brown			"			25				
	14+00N	25	B	lite brown			"			23				
	15+00N	25	B	"			"			40				
	16+00N	40	B	"			"	beside small stream		39				
	17+00N	25	B	orange brown			"			18				
	18+00N	30	B	lite brown			"			30				
	19+00N	40	B	"			"			37				
	20+00N	25	B	orange brown			"			40				
	21+00N	30	B	"			"			21				
	22+00N	25	B	dark brown			"			48				

PAMIC  
DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler Jason Elmore  
Date May 23, 1992

Project ML  
Property Bud 1-4, 9 claims

NTS 93 A 12  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Cu ppm	As ppb			
L20+00E /	1+00 N	25	B	lite brown			flat			26				
	2+00 N	30	B	dk brn			"			68				
	3+00 N	30	B	lt brn			"			23				
	4+00 N	25	B	"			"			34				
	5+00 N	30	B	"			"			36				
	6+00 N	35	B	dk brn			"			73				
	7+00 N	20	B	lt brn.			"			30				
	8+00 N	25	B	"			"			33				
	9+00 N	20	B	grey brown			"			23				
	10+00 N	35	B	lt brn.			"			27				
	11+00 N	30	B	grey brn.			"			22				
	12+00 N	30	B	dk brn.			"			29				
	13+00 N	30	B	grey brn.			"			16				
	14+00 N	20	B	lt brn.			"			31				
	15+00 N	25	B	med. brn.			"			32				
	16+00 N	35	B	lt brn.			"			37				
L20+00E /	17+00 N	30	B	lite brown			flat			24				



Sampler M. SCHATEN  
Date MAY 19 - 23, 1992

Project JACOBIE LAKE  
Property \_\_\_\_\_

Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

NTS

SAMPLE NO.	LOCATION	HORIZ DEPTH		DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
		Depth	MOISTURE	Colour	Texture	Drainage				Cu	Pb	Zn	As	PPb
1+00N	L 56E	B		BROWN	CLAY		0		FEW FRAGS	49				
2+00N				GREY BROWN			0		FEW ANGULAR FRAGS	31				
3+00N							0			53				
4+00N				DARK GREY			0			51				
5+00N				BROWN			0-5°		FEW ANGULAR FRAGS	24				
6+00N		A		BLACK & REDDISH BROWN			0		ORGANICS - COULDN'T GET BELOW "A" HORIZON	46				
0+00	L 3350E	B		BROWN			5-10°		FEW ANGULAR FRAGS	35				
1+00N							0-5°		FEW SUB-ROUNDED FRAGS	57				
2+00N				GREY BROWN			0		ROCKY SOIL, SUB-ANGULAR FRAGS	34				
3+00N				BROWN			0-5°			69				
4+00N				GREY BROWN			5-10°			82				
5+00N							0-5°			30				
6+00N				REDDISH BROWN			0-5°			61				
7+00N							15°			29				
8+00N							0-5°			31				
9+00N							20°			29				
10+00N				BROWN			15°		ROCKY SOIL W/ MAINLY SUB-ANGULAR TO ANGULAR FRAGS	83				
11+00N							0-5°		AS ABOVE @ 11+50N CROSS HIGHWAY	54				
12+00N				GREY BROWN			5-10°		ROCKY SOIL W/ MAINLY ANGULAR FRAGS	40				
13+00N							5-10°		AS ABOVE	62				

PAMIC  
DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler M. SCHMIDT  
Date MAY 19 - 23, 1992

Project JACOBIE LAKE  
Property \_\_\_\_\_

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS						
				Colour	Texture	Drainage				Cu	MM	AN	AS			
1400N	L3350E	8"	B	GREY BROWN			15°			47						
1500N							0-5°			30						
1600N							5-10°			24						
1700N				GREY + REDDISH	BROWN		20-25°			32						
1800N				GREY BROWN			15°			39						
1900N				BROWN			10-15°			78						
2000N				BROWN			15-20°		ROCKY SOIL W/ SUB-ANGULAR FRAGS	30						
2100N				REDDISH BROWN			0-5°			43						
2200N				BROWN			0			30						
2300N				REDDISH BROWN			0			32						
2400N				GREY BROWN			0		N/S @ 2400N DUE TO BOG INTERSECTED @ 2500N	34						
100N	L2400E			REDDISH BROWN			0	GRASS	@ 2400N + 30+70E	30						
200N							0-5°		@ ABN CROSS BLAZED CLAIM LINE	40						
300N				GREY	CLAY		0		FEW ROUNDED FRAGS	20						
400N				REDDISH BROWN			0		FEW ANGULAR FRAGS	29						
500N				GREY BROWN	CLAY		10°			29						
600N				BROWN			0-5°			30						
700N				REDDISH BROWN			0			36						
800N				GREY BROWN			0		FEW ANGULAR FRAGS. @ 877N CREEK ~NW-SE	33						
900N				BROWN			20-25°		SAMPLE TAKEN @ 918N DUE TO BOG GROUND	32						

Sampler M. SCHATON  
Date MAY 19-23, 1992

Project JACOBIE LAKE  
Property \_\_\_\_\_

Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

NTS

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS			
				Colour	Texture	Drainage				Cu ppm	Au ppb		
1000N	L24100E	8"	B	REDDISH BROWN			8°			28			
1100N				BROWN			5°			158	12		
1200N							10-15°			28			
1300N							5°			46			
1400N				DARK BROWN			5-10°			39			
1500N				REDDISH BROWN			5-10°			35			
1600N				GREYISH BROWN			15°			27			
1700N				BROWN			5-10°		① 1700N-1800N BLUFF ~30M WIDE STRIKING NW-MARCOON BASALT w/ FINE PYROXENE CRYSTALS. QUARTZITE FLOAT.	45			
1800N				REDDISH BROWN			35-40°		ROCKY SOIL w/ ANGULAR FRAGS.	50			
1900N							15-20°		② 1948N MARCOON BASALT BLUFF ~20-30M WIDE STRIKING NW.	52			
2000N				BROWN			15°		ROCKY SOIL w/ ANGULAR FRAGS	38			
2100N							15-20°		FEW SUB-ROUNDED FRAGS	49			
2200N				GREYISH BROWN			20°			44			
2300N				BROWN			15°		③ 2300N SWAMPY FOR 50M FEW ANGULAR FRAGS.	29			
2400N				GREY	ROCKY SOIL w/ ANGULAR FRAGS		30°		④ 2384-2395N NISBY BLUFF OF SUBCROPPING BASALT STRIKING ~E-W	76	INTERSECT @ 23100E		⑤ 2436N
2400N	L28100E			REDDISH BROWN			8°			24			
2300N							10-15°		FEW ANGULAR FRAGS	23			
2200N				BROWN			15°			39			
2100N				REDDISH BROWN			5-10°			36			
2000N							15-20°		FEW SUB-ROUNDED FRAGS	23			

# PAMIC DEVELOPMENTS LIMITED

## Geochemical Data Sheet - SOIL SAMPLING

Sampler M. SCHATTEN  
 Date MAY 19-23, 1992

Project JACOBIE LAKE  
 Property ML

NTS  
 Location Ref \_\_\_\_\_  
 Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS			
				Colour	Texture	Drainage				Cu	Pb	Ag	As
1900N	LRBE	8"	B	BROWN			10-15°		FEW SUB-ANGULAR FRAGS	42			
1800N				REDDISH BROWN			0-5°			45			
1700N				BROWN			10-15°		FEW SUB-ANGULAR FRAGS	33			
1600N				BROWN			15°		①1667N SIC BASALT. ①1648N WESTERLY STRIKING BASALT BLUFF	26			
1500N				REDDISH BROWN			10-15°		①1529N CROSS OLD E-W LINE	27			
1400N				BROWN			10°		BASALT SUB-CROP	23			
1300N				BROWN			0-5°			18			
1200N				BROWN			25-30°		①1180N DIRT ROAD	85			
1100N				BROWN			10°		①1150N HIGHWAY; SWAMP ①1100N SAMPLE ①1080N	50			
1000N				BROWN			0-5°		ROCKY SOIL, FRAGS SUB-ROUNDED TO SUB-ANGULAR	34			
900N				DARK BROWN	CLAY		0	GRASS	FRAGS SUB-ROUNDED	88			
800N				BROWN			10-15°		FRAGS SUB-ANGULAR	43			
700N				REDDISH BROWN			5°			55			
									①1640N INTERSECT HIGHWAY EOL				

PAMICON  
DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler Jason Elmore  
Date May 21, 1992

Project MC  
Property Bwd-1-4, 9 claims

NTS  
Location Ref 93 A 12  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS							
				Colour	Texture	Drainage				Cu ppm	As ppm	Pb ppm	Zn ppm	Fe ppm			
L36+00E /	2+00 N																
	2+00A	35	B	rusty brown			flat					34					
	3+00 N	25	B	grey brown			"					25					
	4+00 N	40	B	reddish brown			"					30					
	5+00 N	35	B	dk brn			"					39					
	6+00 N	30	B	"			"					36					
	7+00 N	25	B	"			"					37					
	8+00 N	25	B	grey brown			"					33					
	9+00 N	35	B	"			"					11					
	10+00 N	25	B	dark brown			"					41					
	11+00 N	30	B	"			"					39					
	12+00 N	40	B	"			"					23					
	13+00 N	35	B	light brown			"					16					
	14+00 N	40	B	"			"					15					
	15+00 N	35	B	dark brown			"					38					
	16+00 N	35	B	light brown			"					25					
L36+00E /	17+00 N	35	B	dk brown			"					28					
												35					





Sampler Steve Todoruk  
Date May 20, 1992

Project ML  
Property Bud 1-4, 9

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS							
				Colour	Texture	Drainage				Cu ppm	Au ppb						
L40+00E	1+00N																
	2+00N	50	A	black		swampy	flat		whole area is wet + swampy	6							
	3+00N	55	B	med. brn.	fine		flat		a few pebbles	21							
	4+00N	35	B	grey-brown			"		some pebbs/cobbs.	43							
	5+00N	65	B	med. grey-brn.			"		pebbs/cobbs.	22							
	6+00N	50	B	grey-brown			3-5° to N		" "	33							
	7+00N	40	B	grey-brown			flat		pebbs/cobbs.	31							
	8+00N	60	B	med. brown			flat		pebbles	37							
	9+00N	30	A/B	grey + black		wet	flat		not really swampy but is wet	86							
	10+00N	40	B	med. brown			3-5° to South		moderate pebbs/cobbs - nice open forest	26							
	11+00N	60	B	rusty red/brown			flat		a few sub-rnd to sub-ang. pebbs. * in syenite area.	31							
	12+00N	50	B	rusty brown			flat		some ang. to sub-rnd. frags.	33							
	13+00N	50	C	rusty brown			flat		- old treched area - Fe-carb. old. basalt. Lots ang. frags.	72							
	14+00N	55		med. brown			8-10° to N		some pebbs/cobbs.	35							
	15+00N	70		lite rusty/brn.			5° to N		some pebbs/cobbs. - in logged area.	65							
	16+00N	50		lite rusty/brown			flat		- is a few sub-rnd. pebbs/cobbs.	39							
L40+00E	17+00N	60		med. brown			flat		- some rd. pebbs/cobbs - is big glacial bldrs. around.	18							

PAMIC  
DEVELOPMENTS LIMITED

Geochemical Data Sheet - SOIL SAMPLING

Sampler Steve Todoruk  
Date \_\_\_\_\_

Project MC  
Property Bud 1-4,9

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

93A12

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Cu ppm	As ppb			
L40+00E/	18+00N	45	B	light rusty/brn.			5° to west		fair amount of pebbles/cobbs.	22				
	19+00N	40		light grey/brn.			5° to west		fair amt of sub-rnd. to sub-ang. frags.	18				
	20+00N	50		rusty/red brn.			5-8° to N.		medium amt. of pebbles/cobbs.	27				
	21+00N	55		med. brown			5-8° to N		medium amt. of pebbles	35				
	22+00N	45		med. brown			5° to North		fair amt. of sub-rnd. pebbles.	37				
	23+00N	45		black + med. brn.	fine		5° to N		- in cedar stand - some black organics	58				
	24+00N	40		med. to dark brn.			5-7° to N		- med. amt. of <1" pebbles.	28				
L40+00E/	25+00N													
L40+00E/	26+00N	30	B	med. br			flat			27				
	27+00N	35	B	"			flat			22				
	28+00N	30	B	grey-brown			flat			17				
	29+00N	25	B	med. brown			flat			27				
	30+00N	20	B	light brown			flat			37				
L40+00E/	31+00N	25	B	orange brown			flat			29				

Sampler Steve Todoruk  
Date May 21, 1992

Project ML  
Property Bud 1-4, 9 claims

NTS  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS			
				Colour	Texture	Drainage				Cu	As		
L44+00E /	1+00N	40	B	med. grey-brn.			5-10° to N		medium amount of pebbles	20			
	2+00N	45	B	med. brown			5° to N		quite a few pebbles/cobbs.	41			
	3+00N	45	B	med. brn.			flat		* sample is 15 m W of station - some pebbles/cobbs.	28			
	4+00N	55	B	med. brn.	fine		flat		Few pebbles	26			
	5+00N	35	B	med. brn.	clayey		flat		* whole area may have been logged/disturbed.	92			
	6+00N	40	A	black		swampy	flat			136	8		
	7+00N	50	B	lite grey			flat		Air amount of pebbles/cobbs.	70			
	8+00N	35	B	med. brown			flat		some pebbles	21			
	9+00N	40	B	rusty/brown			5° to South		" "	25			
	10+00N	35	B	rusty brown			flat		" "	15			
	11+00N	45	B	rusty brown			flat		- fair amount of ang. rock frags. * in syenite area?	25			
	12+00N	45	B	med. brown			flat		* seen syenite folus at 11+90 N = pebbles/cobbs.	53			
	13+00N	45	B	rusty brown			flat		pebbles/cobbs	35			
	14+00N	50	B	very rusty			10° to North		* grey limestone outcrop	30			
	15+00N	40	B	med. brown			5° to North		- beneath killer over tree stump.	43			
	16+00N	40	B	lite grey-brn.		moist	flat		* 35 m W of station by stump. - pebbles/cobbs.	28			
L44+00E /	17+00N	60	B	med. grey-brn.			5° to East		lots pebbles/cobbs.	24			



Sampler Jason Elmore  
Date May 21, 1992

Project ML  
Property Bud 1-4, 9 claims

NTS 93 A 12  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Cu MM	As Mb			
L48+00E	1+00N	25	B	grey brown			flat			12				
	2+00N	25	B	brown			"			39				
	3+00N	35	B	lite brown			"			40				
	4+00N	40	B	"			"			65				
	5+00N	50	B	black			"			116	10			
	6+00N	60	A	black		let	"	organics		175	12			
	7+00N	40	B	black			"			95				
	8+00N	30	B	lite brown			"			30				
	9+00N	25	B	"			"			23				
	10+00N	25	B	"			"			19				
	11+00N	35	B	dk brown			"			35				
	12+00N	40	A	black			"			108	45			
	13+00N	20	B	lite brown			"			16				
	14+00N	40	A	black			"			17				
	15+00N	25	B	dk brown			"			15				
	16+00N	30	B	lite brown			"			26				
	17+00N	20	B	"			"			39				
L48+00E	18+00N	30	B	"			Flat			20				



Sampler Steve Todoruk  
Date May 23, 1992

Project ML  
Property Bud 1-4, 9

Location Ref NTS  
Air Photo No

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS			
				Colour	Texture	Drainage				Cu ppm	As ppm		
LS2400E/	1+00N	40	B	dark brown	fine	moist	flat		82				
	2+00N	40	B	dark brown	fine	moist	flat	Some black organics	150	10			
	3+00N	50	B	dark brown		moist	flat	Some organics	102	<5			
	4+00N	45	B	dark brown			flat	- in logged area by stump.	63				
	5+00N	50	B	dark brown		moist	flat		122	8			
	6+00N	50	B	dark brown	fine		flat		51				
	7+00N	50	B	light grey-brn.			flat	a few pebbles	21				
	8+00N	40	B	grey-brown			flat	- pebbles/cobb	41				
	9+00N	35	B	dark brown			flat	- pebbles/cobb	85				
	10+00N	45	B	grey-brown			flat	- a few pebbles	52				
	11+00N	35	B	med-brown			flat	- " "	33				
	12+00N	40	B	rusty brown			flat	- a fair bit of pebbles/cobb.	30				
	13+00N	35	B	med-brown			5° to North	- pebbles/cobb - may be disturbed * poly lithic Bx etc	34				
	14+00N	35	B	rusty brown			5° to N	- ang. frags.	37				
	15+00N	30	B	med-brown			flat	- logged - pebbles/cobb.	106	6			
	16+00N	35	B	rusty brown			5° to N	- logged - pebbles/cobb	27				
LS2400E/	17+00N	65	A	black		swampy	flat	- organics	252	8			





**APPENDIX IV**

**ANALYTICAL CERTIFICATES**

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 V7P 2R5  
 (604) 985-0681 Telex 04-352667



**Geochemical  
 Lab Report**

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V92-00467.1 ( COMPLETE )

REFERENCE INFO:

CLIENT: MR. JOHN KERR & ASSOCIATES LTD.  
 PROJECT: NONE GIVEN

SUBMITTED BY: J. KERR  
 DATE PRINTED: 9-JUN-92

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	20	5 PPB	FIRE ASSAY	FIRE ASSAY @ 10 G

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOIL	16	1 -80	16	SAMPLES FROM STORAGE	20
R ROCK	4	2 -150	4		

REPORT COPIES TO: MR. JOHN R. KERR, P. ENG.  
 MR. STEVE TODORUK

INVOICE TO: MR. JOHN R. KERR, P. ENG.

Bondar-Clegg & Company Ltd.  
130 Pemberton Ave.  
North Vancouver, B.C.  
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PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
---------------	---------------	--------

S1 L8+00E 13+00N		<5
S1 L8+00E 22+00N		6
S1 L16+00E 5+00N		8
S1 L20+00E 20+00N		12
S1 L24+00E 11+00N		12

S1 B/L25+00N 48+00E		8
S1 L44+00E 6+00N		8
S1 L48+00E 5+00N		10
S1 L48+00E 6+00N		12
S1 L48+00E 12+00N		<5

S1 L52+00E 2+00N		10
S1 L52+00E 3+00N		<5
S1 L52+00E 5+00N		8
S1 L52+00E 15+00N		6
S1 L52+00E 17+00N		8

S1 L53+00E 0+00		<5
R2 ML-01		<5
R2 ML-04		<5
R2 ML-06		<5
R2 ML-07		318

Bondar-Clegg & Company Ltd.  
130 Pemberton Ave.  
North Vancouver, B.C.  
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# Geochemical Lab Report

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PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
L48+00E 5+00N Duplicate		10 <5

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 V7P 2R5  
 (604) 985-0681 Telex 04-352667



**Geochemical  
 Lab Report**

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V92-00467.0 ( COMPLETE )

REFERENCE INFO:

CLIENT: MR. JOHN KERR & ASSOCIATES LTD.  
 PROJECT: NONE GIVEN

SUBMITTED BY: J. KERR  
 DATE PRINTED: 3-JUN-92

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	7	5 PPB	FIRE ASSAY	FIRE ASSAY @ 10 G
2	Cu Copper	371	1 PPM	HCL:HNO3 (3:1)	ATOMIC ABSORPTION

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOIL	363	1 -80	364	CRUSH/SPLIT <10 LB	7
T STREAM SED, SILT	1	2 -150	7	PULVERIZATION	7
R ROCK	7			DRY, SIEVE -80	364

REPORT COPIES TO: MR. JOHN R. KERR, P. ENG.  
 MR. STEVE TODORUK

INVOICE TO: MR. JOHN R. KERR, P. ENG.

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 3-JUN-92

REPORT: V92-00467.0 ( COMPLETE )

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM
S1 L8+00E 4+00N			32	S1 L12+00E 15+00N			26
S1 L8+00E 5+00N			60	S1 L12+00E 16+00N			32
S1 L8+00E 6+00N			20	S1 L12+00E 17+00N			42
S1 L8+00E 7+00N			23	S1 L12+00E 18+00N			20
S1 L8+00E 8+00N			19	S1 L12+00E 19+00N			30
S1 L8+00E 9+00N			24	S1 L12+00E 20+00N			27
S1 L8+00E 10+00N			22	S1 L12+00E 21+00N			31
S1 L8+00E 11+00N			70	S1 L12+00E 22+00N			70
S1 L8+00E 12+00N			84	S1 L12+00E 25+00N			32
S1 L8+00E 13+00N			200	S1 L13+00E 0+00			21
S1 L8+00E 14+00N			70	S1 L13+00E 25+00N			20
S1 L8+00E 15+00N			26	S1 L14+00E 0+00			29
S1 L8+00E 16+00N			33	S1 L14+00E 25+00N			48
S1 L8+00E 17+00N			30	S1 L15+00E 0+00			17
S1 L8+00E 18+00N			33	S1 L15+00E 25+00N			32
S1 L8+00E 19+00N			24	S1 L16+00E 0+00			15
S1 L8+00E 20+00N			26	S1 L16+00E 1+00N			17
S1 L8+00E 21+00N			34	S1 L16+00E 2+00N			15
S1 L8+00E 22+00N			114	S1 L16+00E 3+00N			28
S1 L8+00E 23+00N			20	S1 L16+00E 4+00N			30
S1 L8+00E 24+00N			39	S1 L16+00E 5+00N			268
S1 L8+00E 25+00N			42	S1 L16+00E 6+00N			42
S1 L9+00E 25+00N			27	S1 L16+00E 8+00N			67
S1 L10+00E 25+00N			62	S1 L16+00E 9+00N			30
S1 L11+00E 25+00N			19	S1 L16+00E 10+00N			24
S1 L12+00E 0+00			16	S1 L16+00E 11+00N			79
S1 L12+00E 1+00N			27	S1 L16+00E 12+00N			18
S1 L12+00E 2+00N			29	S1 L16+00E 13+00N			25
S1 L12+00E 3+00N			45	S1 L16+00E 14+00N			23
S1 L12+00E 4+00N			49	S1 L16+00E 15+00N			40
S1 L12+00E 5+00N			80	S1 L16+00E 16+00N			39
S1 L12+00E 6+00N			26	S1 L16+00E 17+00N			18
S1 L12+00E 7+00N			26	S1 L16+00E 18+00N			30
S1 L12+00E 8+00N			25	S1 L16+00E 19+00N			37
S1 L12+00E 9+00N			17	S1 L16+00E 20+00N			40
S1 L12+00E 10+00N			52	S1 L16+00E 21+00N			21
S1 L12+00E 11+00N			36	S1 L16+00E 22+00N			48
S1 L12+00E 12+00N			32	S1 L16+00E 25+00N			24
S1 L12+00E 13+00N			48	S1 L17+00E 0+00			17
S1 L12+00E 14+00N			24	S1 L17+00E 25+00N			28

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 3-JUN-92

REPORT: V92-00467.0 ( COMPLETE )

PROJECT: NONE GIVEN

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM
S1 L18+00E 0+00			18	S1 L24+00E 5+00N			29
S1 L18+00E 25+00N			30	S1 L24+00E 6+00N			30
S1 L19+00E 0+00			30	S1 L24+00E 7+00N			36
S1 L19+00E 25+00N			91	S1 L24+00E 8+00N			33
S1 L20+00E 0+00			15	S1 L24+00E 9+00N			32
S1 L20+00E 1+00N			26	S1 L24+00E 10+00N			28
S1 L20+00E 2+00N			68	S1 L24+00E 11+00N			158
S1 L20+00E 3+00N			23	S1 L24+00E 12+00N			28
S1 L20+00E 4+00N			34	S1 L24+00E 13+00N			46
S1 L20+00E 5+00N			36	S1 L24+00E 14+00N			39
S1 L20+00E 6+00N			73	S1 L24+00E 15+00N			35
S1 L20+00E 7+00N			30	S1 L24+00E 16+00N			27
S1 L20+00E 8+00N			33	S1 L24+00E 17+00N			45
S1 L20+00E 9+00N			23	S1 L24+00E 18+00N			50
S1 L20+00E 10+00N			27	S1 L24+00E 19+00N			52
S1 L20+00E 11+00N			22	S1 L24+00E 20+00N			38
S1 L20+00E 12+00N			29	S1 L24+00E 21+00N			49
S1 L20+00E 13+00N			16	S1 L24+00E 22+00N			44
S1 L20+00E 14+00N			31	S1 L24+00E 23+58N			29
S1 L20+00E 15+00N			32	S1 L24+00E 24+00N			76
S1 L20+00E 16+00N			37	S1 L24+00E 25+00N			14
S1 L20+00E 17+00N			24	S1 L25+00E 25+00N			64
S1 L20+00E 18+00N			31	S1 B/L25+00N 43+00E			53
S1 L20+00E 19+00N			51	S1 B/L25+00N 44+00E			26
S1 L20+00E 20+00N			157	S1 B/L25+00N 45+00E			20
S1 L20+00E 21+00N			25	S1 B/L25+00N 46+00E			49
S1 L20+00E 22+00N			27	S1 B/L25+00N 47+00E			36
S1 L20+00E 23+00N			84	S1 B/L25+00N 48+00E			159
S1 L20+00E 25+00N			36	S1 B/L25+00N 49+00E			46
S1 L21+00E 0+00			17	S1 B/L25+00N 50+00E			34
S1 L21+00E 25+00N			42	S1 B/L25+00N 51+00E			60
S1 L22+00E 0+00			30	S1 L26+00E 25+00N			85
S1 L22+00E 25+00N			31	S1 L27+00E 25+00N			39
S1 L23+00E 0+00			32	S1 L28+00E 7+00N			55
S1 L23+00E 25+00N			33	S1 L28+00E 8+00N			43
S1 L24+00E 0+00			27	S1 L28+00E 9+00N			88
S1 L24+00E 1+00N			30	S1 L28+00E 10+00N			34
S1 L24+00E 2+00N			40	S1 L28+00E 11+00N			50
S1 L24+00E 3+00N			20	S1 L28+00E 12+00N			85
S1 L24+00E 4+00N			29	S1 L28+00E 13+00N			18



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PROJECT: NONE GIVEN

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM
S1 L28+00E 14+00N			23	S1 L33+50E 22+00N			30
S1 L28+00E 15+00N			27	S1 L33+50E 23+00N			32
S1 L28+00E 16+00N			26	S1 L33+50E 24+50N			34
S1 L28+00E 17+00N			33	S1 L34+00E 0+00			55
S1 L28+00E 18+00N			45	S1 L34+00E 25+00N			62
S1 L28+00E 19+00N			42	S1 L35+00E 0+00			32
S1 L28+00E 20+00N			23	S1 L35+00E 25+00N			27
S1 L28+00E 21+00N			36	S1 L36+00E 0+00			27
S1 L28+00E 22+00N			39	S1 L36+00E 2+00			34
S1 L28+00E 23+00N			23	S1 L36+00E 2+00A			25
S1 L28+00E 24+00N			24	S1 L36+00E 3+00N			30
S1 L28+00E 25+00N			22	S1 L36+00E 4+00N			39
S1 L29+00E 25+00N			54	S1 L36+00E 5+00N			36
S1 L30+00E 25+00N			27	S1 L36+00E 6+00N			37
S1 L31+00E 25+00N			34	S1 L36+00E 7+00N			33
S1 L32+00E 25+00N			32	S1 L36+00E 8+00N			11
S1 L33+00E 0+00			26	S1 L36+00E 9+00N			41
S1 L33+00E 25+00N			69	S1 L36+00E 10+00N			39
S1 L33+50E 0+00			35	S1 L36+00E 11+00N			23
S1 L33+50E 1+00N			57	S1 L36+00E 12+00N			16
S1 L33+50E 2+00N			34	S1 L36+00E 13+00N			15
S1 L33+50E 3+00N			69	S1 L36+00E 14+00N			38
S1 L33+50E 4+00N			82	S1 L36+00E 15+00N			25
S1 L33+50E 5+00N			30	S1 L36+00E 16+00N			28
S1 L33+50E 6+00N			61	S1 L36+00E 17+00N			35
S1 L33+50E 7+00N			29	S1 L36+00E 18+00N			29
S1 L33+50E 8+00N			31	S1 L36+00E 19+00N			24
S1 L33+50E 9+00N			29	S1 L36+00E 20+00N			30
S1 L33+50E 10+00N			83	S1 L36+00E 21+00N			46
S1 L33+50E 11+00N			54	S1 L36+00E 22+00N			28
S1 L33+50E 12+00N			40	S1 L36+00E 23+00N			27
S1 L33+50E 13+00N			62	S1 L36+00E 24+00N			34
S1 L33+50E 14+00N			47	S1 L36+00E 25+00N			21
S1 L33+50E 15+00N			30	S1 L37+00E 0+00			42
S1 L33+50E 16+00N			24	S1 L37+00E 25+00N			36
S1 L33+50E 17+00N			32	S1 L38+00E 0+00			15
S1 L33+50E 18+00N			39	S1 L38+00E 25+00N			42
S1 L33+50E 19+00N			78	S1 L39+00E 0+00			16
S1 L33+50E 20+00N			30	S1 L39+00E 25+00N			43
S1 L33+50E 21+00N			43	S1 L40+00E 0+00			28

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PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM
S1 L40+00E 2+10N			6	S1 L44+00E 7+00N			70
S1 L40+00E 3+00N			21	S1 L44+00E 8+00N			21
S1 L40+00E 4+00N			43	S1 L44+00E 9+00N			25
S1 L40+00E 5+00N			22	S1 L44+00E 10+00N			15
S1 L40+00E 6+00N			33	S1 L44+00E 11+00N			25
S1 L40+00E 7+00N			31	S1 L44+00E 12+00N			53
S1 L40+00E 8+00N			37	S1 L44+00E 13+00N			35
S1 L40+00E 9+00N			86	S1 L44+00E 14+00N			30
S1 L40+00E 10+00N			26	S1 L44+00E 15+00N			43
S1 L40+00E 11+00N			31	S1 L44+00E 16+00N			28
S1 L40+00E 12+00N			33	S1 L44+00E 17+00N			24
S1 L40+00E 13+00N			72	S1 L44+00E 18+00N			32
S1 L40+00E 14+00N			35	S1 L44+00E 19+00N			39
S1 L40+00E 15+00N			65	S1 L44+00E 20+00N			35
S1 L40+00E 16+00N			39	S1 L44+00E 21+00N			7
S1 L40+00E 17+00N			18	S1 L44+00E 22+00N			43
S1 L40+00E 18+00N			22	S1 L44+00E 23+00N			29
S1 L40+00E 19+00N			18	S1 L44+00E 24+00N			65
S1 L40+00E 20+00N			27	S1 L45+00E 0+00			27
S1 L40+00E 21+00N			35	S1 L46+00E 0+00			36
S1 L40+00E 22+00N			37	S1 L47+00E 0+00			14
S1 L40+00E 23+00N			58	S1 L48+00E 0+00			52
S1 L40+00E 24+00N			28	S1 L48+00E 1+00N			12
S1 L40+00E 25+00N			27	S1 L48+00E 2+00N			39
S1 L40+00E 26+00N			27	S1 L48+00E 3+00N			40
S1 L40+00E 27+00N			22	S1 L48+00E 4+00N			65
S1 L40+00E 28+00N			17	S1 L48+00E 5+00N			116
S1 L40+00E 29+00N			27	S1 L48+00E 6+00N			175
S1 L40+00E 30+00N			37	S1 L48+00E 7+00N			95
S1 L40+00E 31+00N			29	S1 L48+00E 8+00N			30
S1 L41+00E 0+00			26	S1 L48+00E 9+00N			23
S1 L42+00E 0+00			19	S1 L48+00E 10+00N			19
S1 L43+00E 0+00			30	S1 L48+00E 11+00N			35
S1 L44+00E 0+00			33	S1 L48+00E 12+00N			108
S1 L44+00E 1+00N			20	S1 L48+00E 13+00N			16
S1 L44+00E 2+00N			41	S1 L48+00E 14+00N			17
S1 L44+00E 3+00N			28	S1 L48+00E 15+00N			15
S1 L44+00E 4+00N			26	S1 L48+00E 16+00N			26
S1 L44+00E 5+00N			92	S1 L48+00E 17+00N			39
S1 L44+00E 6+00N			136	S1 L48+00E 18+00N			20

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM
S1 L48+00E 20+00N			32	S1 L56+00E 4+00N			51
S1 L48+00E 21+00N			52	S1 L56+00E 5+00N			24
S1 L48+00E 22+00N			39	S1 L56+00E 6+00N			46
S1 L48+00E 23+00N			22	T1 L12+00E 17+15N			31
S1 L48+00E 24+00N			39	R2 ML-01		<5	377
S1 L49+00E 0+00			45	R2 ML-02		<5	42
S1 L50+00E 0+00			86	R2 ML-03		<5	15
S1 L51+00E 0+00			30	R2 ML-04		<5	165
S1 L52+00E 0+00			64	R2 ML-05		<5	39
S1 L52+00E 1+00N			82	R2 ML-06		<5	201
S1 L52+00E 2+00N			150	R2 ML-07		221	8890
S1 L52+00E 3+00N			102				
S1 L52+00E 4+00N			63				
S1 L52+00E 5+00N			122				
S1 L52+00E 6+00N			51				
S1 L52+00E 7+00N			21				
S1 L52+00E 8+00N			41				
S1 L52+00E 9+00N			85				
S1 L52+00E 10+00N			52				
S1 L52+00E 11+00N			33				
S1 L52+00E 12+00N			30				
S1 L52+00E 13+00N			34				
S1 L52+00E 14+00N			37				
S1 L52+00E 15+00N			106				
S1 L52+00E 16+00N			27				
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S1 L52+00E 21+00N			49				
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S1 L53+00E 0+00			141				
S1 L54+00E 0+00			48				
S1 L55+00E 0+00			34				
S1 L56+00E 0+00			25				
S1 L56+00E 1+00N			49				
S1 L56+00E 2+00N			31				
S1 L56+00E 3+00N			53				



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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Cu PPM
L8+00E 11+00N			70	L48+00E 2+00N			39
Duplicate			71	Duplicate			38
L11+00E 25+00N			19	L48+00E 20+00N			32
Duplicate			20	Duplicate			32
L12+00E 19+00N			30	L52+00E 12+00N			30
Duplicate			29	Duplicate			29
L16+00E 6+00N			42	L56+00E 1+00N			49
Duplicate			41	Duplicate			50
L18+00E 25+00N			30				
Duplicate			29				
L20+00E 14+00N			31				
Duplicate			32				
L24+00E 3+00N			20				
Duplicate			20				
L24+00E 20+00N			38				
Duplicate			39				
L28+00E 9+00N			88				
Duplicate			86				
L29+00E 25+00N			54				
Duplicate			56				
L33+50E 14+00N			47				
Duplicate			45				
L36+00E 2+00A			25				
Duplicate			25				
L36+00E 22+00N			28				
Duplicate			28				
L40+00E 8+00N			37				
Duplicate			40				
L40+00E 28+00N			17				
Duplicate			17				
L44+00E 10+00N			15				
Duplicate			15				

**APPENDIX V**


**STATEMENT OF QUALIFICATIONS**

STATEMENT OF QUALIFICATIONS

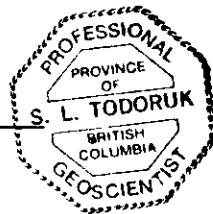
I, STEVE L. TODORUK, of 6471 Samron Road, West Sechelt, in the Province of British Columbia, DO HEREBY CERTIFY:

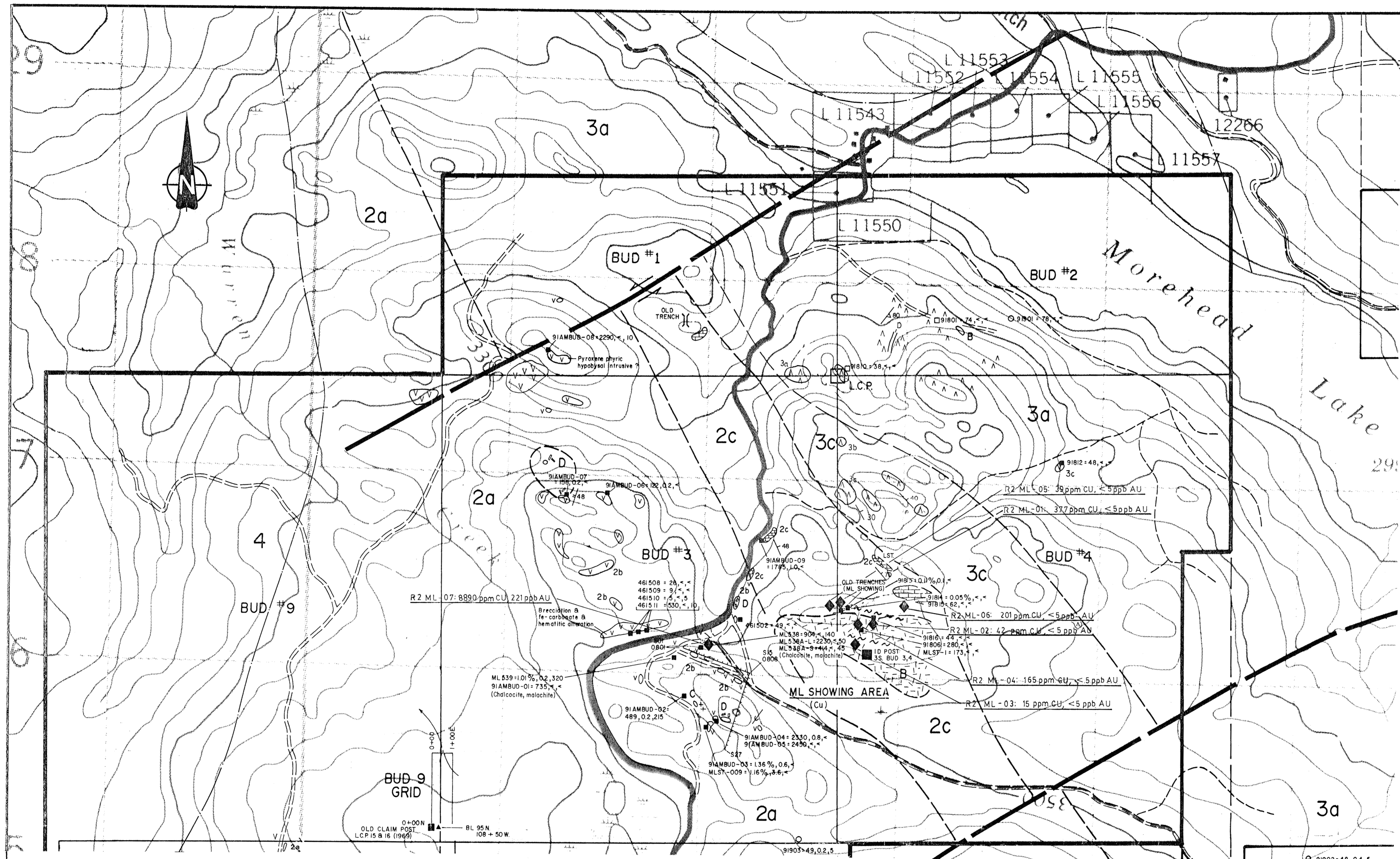
1. THAT I am a Geologist in the employment of Pamicon Developments Limited, with offices at Suite 711, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
3. THAT my primary employment since 1979 has been in the field of mineral exploration.
4. THAT my experience has encompassed a wide range of geologic environments and has allowed considerable familiarization with prospecting, geophysical, geochemical and exploration drilling techniques.
5. THAT this report is based on data and information collected by the authors of this report.

DATED at Vancouver, B.C., this 21 day of July, 1992.



Steve L. Todoruk, P.Geo.





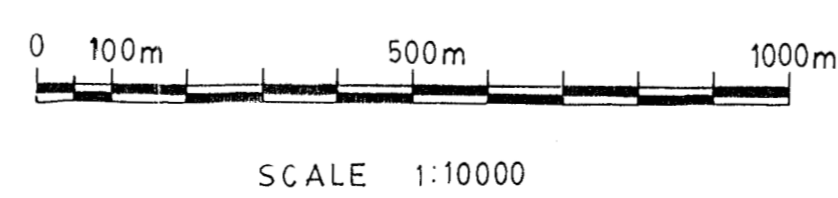
**LITHOLOGIES**

- SEDIMENTARY & VOLCANIC ROCKS**
- TERTIARY**
- 4 GLACIAL FUVIOLACIAL AND FLUVIAL GRAVEL AND SAND (EQUIVALENT TO BCMEMPR'S MAP No.67, UNIT II)
- LOWER JURASSIC**
- 3A VOLCANOCLASTICS AND VOLCANIC FLOWS (EQUIVALENT TO BCMEMPR'S MAP No.67, UNITS 4 & 3)
    - 3d: MAROON GREY BASALT
    - 3c: GREY SILTSTONE, SANDSTONE
    - 3b: MAROON MAFIC CRYSTAL TUFF, BANDED; TUFFACEOUS SILTSTONE & SANDSTONE
    - 3a: MAROON GREY POLYLITHIC BRECCIA
- UPPER TRIASSIC**
- 2V MAINLY ALKALI AND ALKALI-OLIVINE BASALT, BASALTIC BRECCIA, LIMESTONE; (EQUIVALENT TO BCMEMPR'S MAP No.67, UNIT 2)
    - 2c: MASSIVE TO BEDDED GREY LIMESTONE
    - 2b: MAROON BASALTIC POLYLITHIC BRECCIA TO LAPILLI TUFF
    - 2a: MAROON PYROXENE, FELDSPAR PHERIC BASALT, OLIVINE BASALT, AMYGDALOIDAL
- INTRUSIVE ROCKS**
- A GAVIN LAKE STOCK; GREY-TAN MEDIUM GRAINED QUARTZ MONZONITE, 3-5mm ROUND QUARTZ EYES, EUHEDRAL BIOTITE, PERVASIVE Fe-CARBONATE ALTERATION, QUARTZ VEINLET STOCKWORK, MINOR PYRITE, CHALCOPYRITE.
  - B GREY AND PINK, MEDIUM TO FINE GRAINED MONZONITE, MONZODIORITE, SYENODIORITE AND SYENITE; PYROXENE AND/OR HORNBLende-BEARING (INCLUDES MT. POLLEY STOCK).
  - C LIGHT GREY MEDIUM GRAINED QUARTZ DIORITE
  - D GREY AND PINK K-FELDSPAR PORPHYRITIC-SYENITE; 1-2mm EUHEDRAL POTASSIUM FELDSPARS IN FINER GREY GRANDMASS; GREY PYROXENE, PYROXENE-PLAGIOCLASE PORPHYRITIC, FINE TO MEDIUM GRAINED.

**SYMBOLS**

- REGIONAL FAULT
  - GEOLOGICAL CONTACT
  - OVER BURDEN LIMIT
  - OUTCROP LIMIT
  - GENERAL AREA OF OUTCROP
  - FAULT, INFERRED
  - BEDDING, DIP
  - SHEER FABRIC; DIP
  - FRACTURE; DIP
  - DYKE, VEIN; DIP
  - GLACIAL STRIATION
  - HISTORIC GRID STATION TIED TO 1991 WORK
  - SWAMP
  - DRAINAGE
  - SECONDARY ROAD, LOGGING ROAD
  - TRAIL
- MODIFIED FROM BCMEMPR PREL. MAP No. 67
- GEOLOGICAL BRANCH ASSESSMENT REPORT**
- 22,455**

◆ — 1992 Rock Sample Location



CANIM LAKE GOLD CORP.  
ML PROJECT

**Property Geology & Rock Sample Locations Map**

CARIBOO MINING DIVISION, B.C.

DEVELOPMENTS LIMITED  
#711-675 West Hastings St., Vancouver, B.C. V6B 1N4

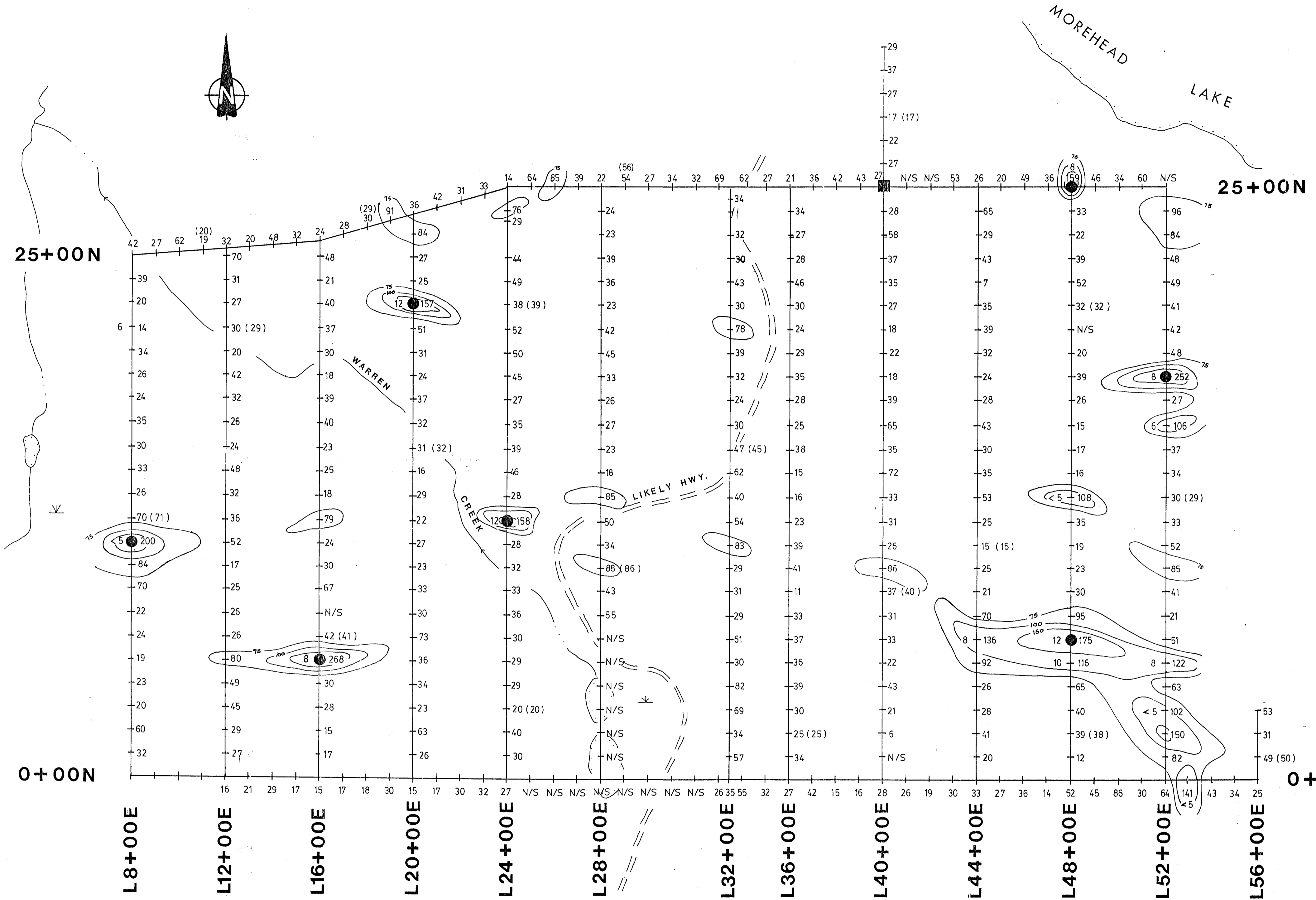
Geologist: NTS: 93A/12 Date: JULY, 1992 FIGURE: 4

461503 1991 ROCK SAMPLE  
 91503 1990 ROCK SAMPLE  
 24802 1991 SILT SAMPLE  
 91807 1990 SILT SAMPLE

VALUES Cu (ppm or oz/t) Ag (ppm) Au (ppb)  
(<- LESS THAN DETECTION)

GEOLGY AFTER BCMEMPR PAPER 1988-1





**LEGEND**

AU | CU (duplicate)  
ppb | ppm (assay)

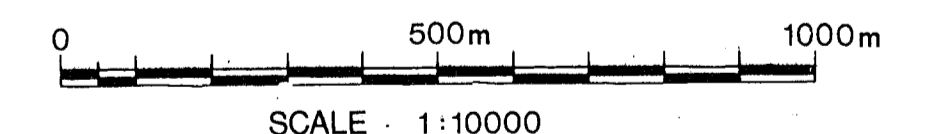
75  
100  
150

Contour values 75ppm,  
100ppm & 150ppm.

● Highlight > 150 ppm CU

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,455



CANIM LAKE GOLD CORP.  
ML PROJECT

**CU Soil Geochemistry**

CARIBOO MINING DIVISION, B.C.

**PAMICON DEVELOPMENTS LIMITED**  
#711-875 West Hastings St., Vancouver, B.C. V6B 1N4

Geologist: NTS: 93A/12 Date: JULY, 1992 FIGURE: 6