

LOG NO: <i>March 8/91</i> RD.
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1990 SUMMARY REPORT  
ON THE  
GER 1, 2 & 3 MINERAL CLAIMS  
FOR  
JAZZMAN RESOURCES INC.

Located in the Iskut River Area  
Liard Mining Division  
NTS 104B/10  
56°39' North Latitude  
130°46' West Longitude

- Prepared by -  
S.L. TODORUK, Geologist  
C.K. IKONA, P.Eng.

March, 1991

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,052

## 1990 SUMMARY REPORT on the GER 1, 2 & 3 MINERAL CLAIMS

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## 1.0 INTRODUCTION

During August 22 to October 1, 1990 at the request of Jazzman Resources Inc., Pamicon Developments Ltd. carried out a small field exploration program on Jazzman's Ger 1-3 mineral claims (44 units) which are located in the Iskut River Gold Camp of northwestern British Columbia.

The program consisted of geological mapping, prospecting, soil sampling and minor hand trenching on one mineralized quartz vein discovered during the year.

Gold values assaying up to 0.356 ounces per ton gold were obtained from the Ridge Vein near the eastern boundary of the claims.

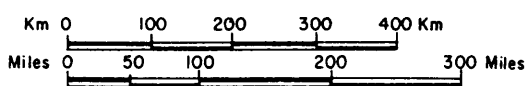
The Ger 1-3 claims are strategically located in relation to several promising precious and base metal prospects in this emerging gold camp of the province and as a result, warrant ongoing property evaluation in 1991. Continued geological mapping, prospecting, geochemical sampling and geophysical surveying should be budgeted for the property with a success contingent diamond drill program to test any favourable targets.

## 2.0 LIST OF CLAIMS

Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the following claims (Figure 2) are owned by I. Hagemoen. Separate documents indicate the claims are under option to Jazzman Resources Inc.

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
Ger 1	3756	20	December 5, 1986	December 5, 1991
Ger 2	3757	20	December 5, 1986	December 5, 1991
Ger 3	3758	4	December 5, 1986	December 5, 1991

**PROPERTY  
LOCATION**



<b>JAZZMAN RESOURCES INC.</b>			
<b>GER 1-3 CLAIMS</b>			
<b>PROPERTY LOCATION MAP</b>			
LIARD MINING DIVISION, B.C.			
<b>PAMICON DEVELOPMENTS LTD.</b>			
DRAWN. J.W.	N.T.S. 104 B/10 W.	DATE. March 1991	FIGURE. <b>1</b>

SKYLINE EXPLORATIONS LTD.

★ INEL

ALPHA JOINT VENTURE

★ KYBER PASS

WESTERN CANADIAN MINING CORP.

TECK

CAMP 1  
45 x 30W

CAMP 3  
45 x 30E

NTP  
25  
70 x 2

GER 3  
15 x 4W

NTP 3  
4N x 5W

GER 2  
5N x 4W

GER 1  
25N x 4E

WESTERN CANADIAN MINING CORP.

PROPERTY LOCATION

BULL-MOOSE RES. LTD.

JAZZMAN RESOURCES LTD.

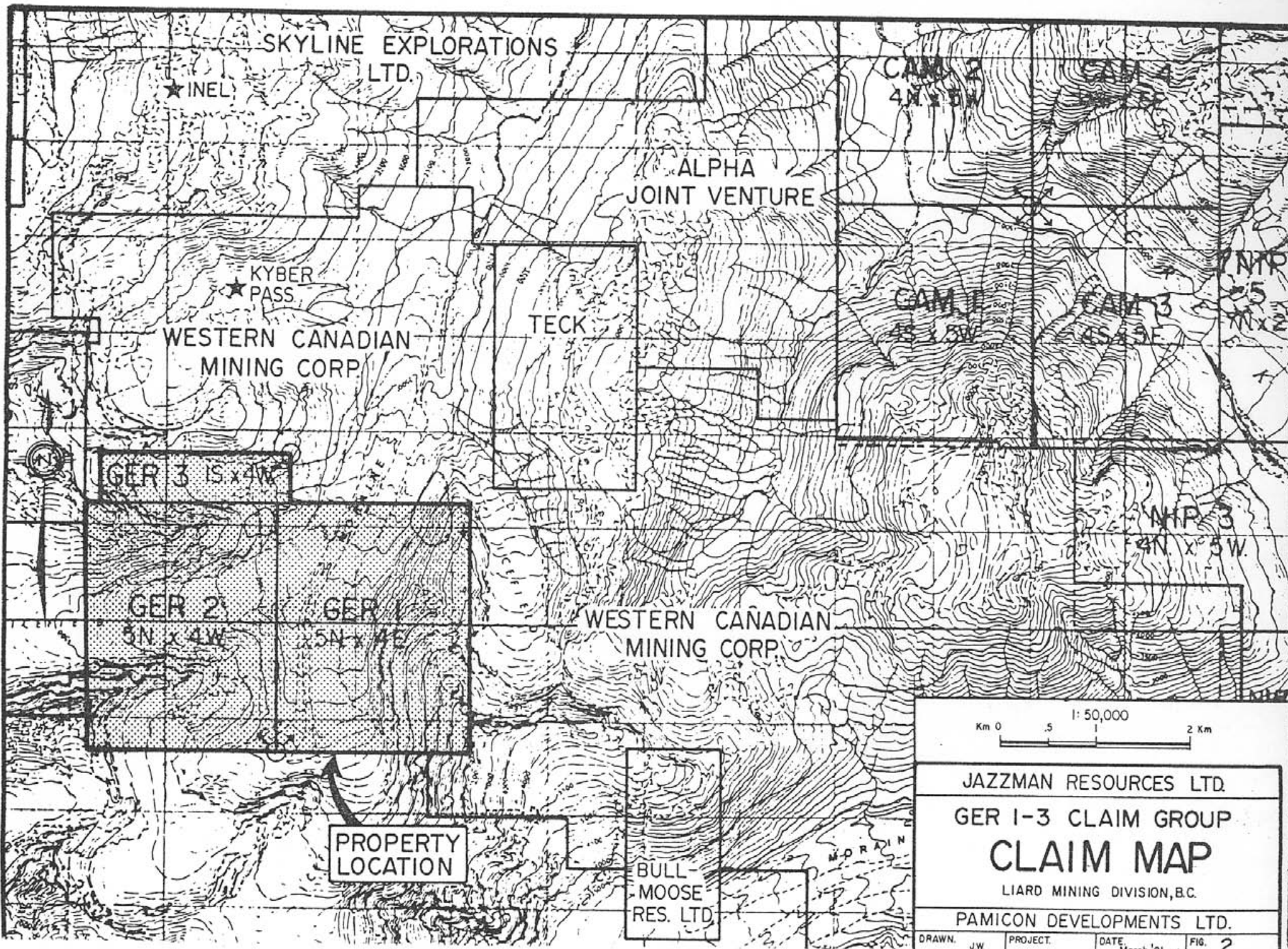
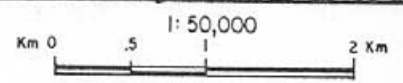
GER 1-3 CLAIM GROUP

CLAIM MAP

LIARD MINING DIVISION, B.C.

PAMICON DEVELOPMENTS LTD.

DRAWN. JW PROJECT. DATE March '91 FIG. 2



### 3.0 LOCATION, ACCESS AND GEOGRAPHY

The Ger 1, 2 & 3 mineral claims are located approximately 80 kilometres east of Wrangell, Alaska, and 100 kilometres northwest of Stewart, British Columbia on the eastern edge of the Coast Range Mountains (Figure 1). The Iskut River flows 15 kilometres to the north, while Snippaker Creek is situated 10 kilometres to the east. Coordinates of the claims area are 56°33' north latitude and 130°55' west longitude, and the property falls under the jurisdiction of the Liard Mining Division.

Access to the property is gained via helicopter, based at the Pamicon-Bronson camp (Cominco/Prime Snip airstrip). Fixed wing aircraft including Hercules transport planes service the Snip gravel airstrip on a regular basis. Flights originate from Wrangell, Alaska, Smithers, Terrace and Vancouver, B.C.

The Province of British Columbia has recently completed a study on possible road access to the Iskut River, Eskay Creek and Sulphurets areas. Construction of a road from the Stewart-Cassiar Highway from Bob Quinn Lake down the Iskut valley to Bronson Creek is anticipated in the near future.

Physiographically, the claims area is moderately forested below treeline and easily accessible above this elevation. Elevations on the property vary between 1000 and 2000 metres with treeline at approximately 1000 metres.

Geographically, the area is typical of mountainous and glaciated terrain with the elevations ranging from a few hundred metres above sea level in the river valley bottoms to in excess of 1500 metres at the ridge tops. Major drainages are U-shaped, whereas smaller side creeks tend to be steeply cut due to the intense erosional environment. Active glaciation is prevalent above the 1200 metre contour, with the tree line existing at 1000 metres. The upper reaches of the area are covered with alpine vegetation. The lower slopes are predominantly timbered with a variety of conifers with an undergrowth of devil's club. More open areas and steeper slopes contain dense slide alder growth. Both summer and winter temperatures would be considered generally

moderate and in excess of 200 centimetres of precipitation may be expected during any given year.

#### 4.0 AREA HISTORY

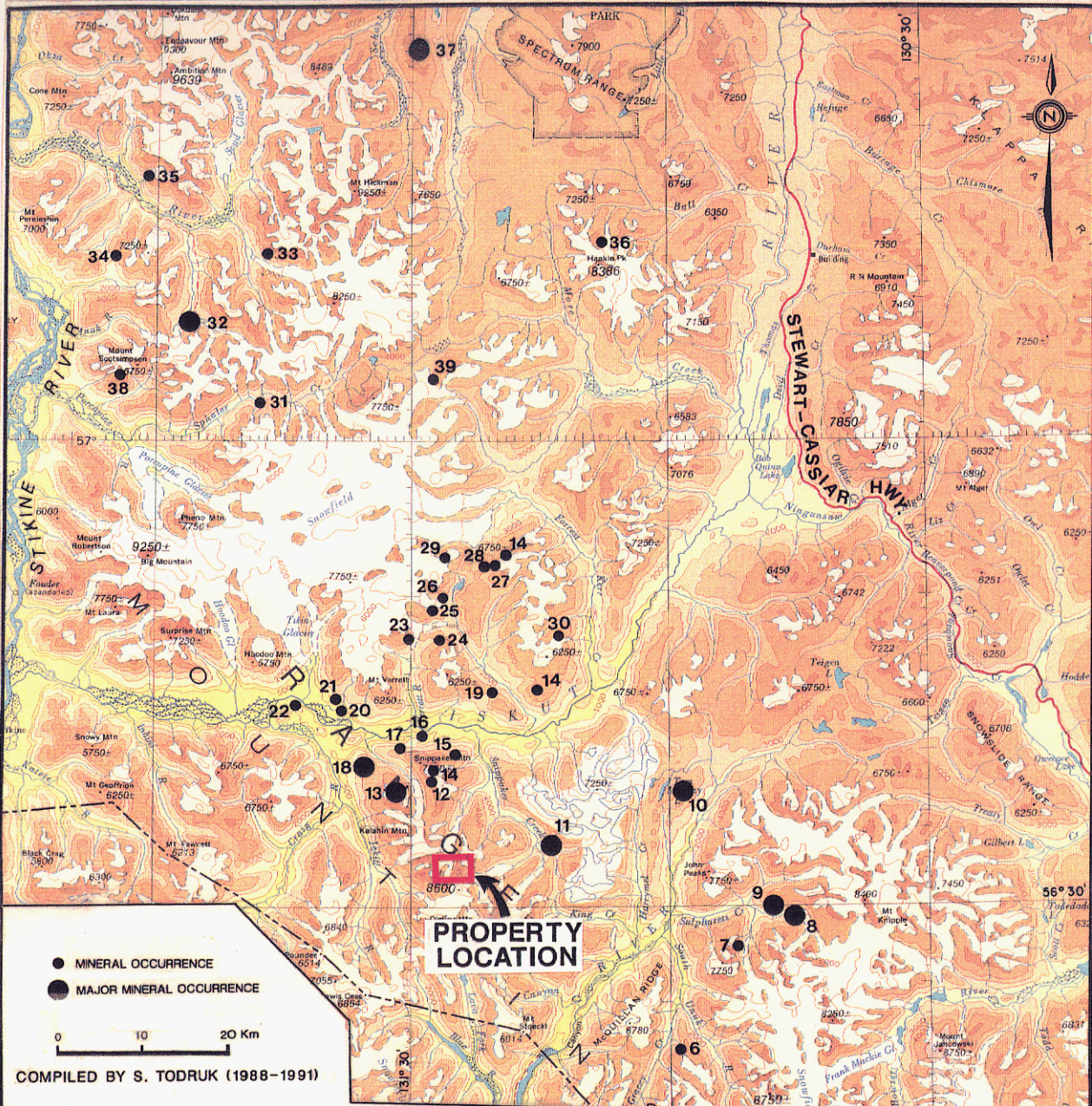
Figure 3 of this report presents a regional scale map of northwestern B.C. from the town of Stewart in the south to near Telegraph Creek in the north, a distance of 225 kilometres. Within this area, a semi-arcuate band of Hazelton Group equivalent volcanic and sedimentary rocks (Unuk River Formation, Betty Creek Formation, Salmon River Formation) with their metamorphic equivalents trend northwest and contain most of the known mineral occurrences. This group is bounded by the Coast Range intrusive complex to the west and by the much younger sediments of the Bowser Basin to the east.

This area of approximately 10,000 square kilometres has historically been referred to as the Stikine Arch. Mining activity within it goes back to the turn of the century. Due to the large size of the region it has been referred to in more specific areas which range from the Stewart area to Sulphurets, Iskut and Galore Creek areas. Recent discoveries appear to be filling in areas between these known mineralized camps. It is probable that the entire area can be considered as one large mineralized province with attendant subareas.

The history of the area can be divided into two time periods: circa 1900 to the mid-1970s and the more recent activities of the late 1970s, 1980s and early 1990s.

##### 1900 - 1975

The original discovery of mineralization in the area can be attributed to miners either en route to or returning from the Klondike gold fields at the turn of the century. Rivers flowing through the Alaska Panhandle served as



● MINERAL OCCURRENCE  
 ● MAJOR MINERAL OCCURRENCE

0 10 20 Km

COMPILED BY S. TODRUK (1988-1991)

PROPERTY OWNER	MINERAL RESERVES AND/OR ELEMENTS
1. Westain Resources Ltd./Silhik Premier Mines	6,100,000 tonnes 0.84 oz/ton Au, 1.33 oz/ton Ag
2. Westain Resources Ltd./Tronquin Mining Explorations Ltd.	1,250,000 tonnes 0.93 oz/ton Au, 0.67 oz/ton Ag
3. Moranda (Todd Creek Project)	Au
4. Scottie Gold Mine	Au
5. Gramic	10,830,000 tons 1.73 Cu
6. Canadian Cariboo Resources/Magna Ventures/Silver Princess Resources (Doc Project)	470,000 tons 0.27 oz/ton Au, 1.31 oz/ton Ag
7. Flacer Tone Inc. (Kerr Project)	66 million tons, .054 Cu, .010 oz/ton Au
8. Catcar Resources Ltd. (Gold Ridge Project)	375,000 tons 0.75 oz/ton Au, 1.0 oz/ton Ag
9. Newhawk/Granade (Solapurres Best Zone Project)	715,400 tons 0.43 oz/ton Au, 19.70 oz/ton Ag
10. Prime/Stikine Resources Ltd. (Zakay Creek Project)	4.36 million tons 0.77 oz/ton Au, 29.12 oz/ton Ag
11. Consolidated Silver Standard Mines Ltd. (E & L Deposit)	3,200,000 tons 0.805 Ni, 0.562 Cu
12. Inel Resources Ltd.	Au, Ag, Cu, Pb, Zn
13. Skyline Gold Corporation (Johnny Mountain Mine)	210,000 tons 0.45 oz/ton Au mined to August, 1990
14. Keatrel Resources Ltd.	Au, Ag, Cu, Pb, Zn
15. Hector Resources Inc./Nephele Resources Ltd. (Golden Spray Vein)	Au, Ag
16. Royal Bay/Big H Petroleum	Au, Ag, Cu, Pb, Zn
17. Vianow	Au, Ag, Cu, Pb, Zn
18. Coninco/Prime Resource Corp. (Snip Deposit)	1,032,000 tons 0.875 oz/ton Au
19. International Prism Exploration Ltd.	Ag, Au
20. Meridor Resources Ltd.	Au
21. Prime Resource Corp./American Ore Ltd./Golden Band	Au
22. Curus/Thios (Black & Bull Project)	Au, Ag, Cu, Pb, Zn
23. International Prism Exploration Ltd.	Au
24. Peppash Resource Corp.	Au
25. Sea Gold Resources Inc.	Au
26. Gulf International Minerals Ltd. (Northwest Zone)	Au, Ag, Cu
27. Consolidated Caprock Resources/Crimsonstar (Kerr Claims)	Ag, Cu, Au
28. International Prism Exploration Ltd.	Ag, Pb, Zn
29. International Prism Exploration Ltd.	Cu, Au
30. Avonvale Resources Inc. (Forrest Project)	Au, Ag, Cu
31. Pass Lake Resources Ltd./Lorica Resources Ltd. (Trek Project)	Cu, Au
32. Hudson Bay/Coninco/Tranco (Galore Creek Deposit)	125,000,000 tonnes 1.063 Cu, 0.397 g/t Au, 7.34 g/t Ag
33. Continental Gold Corp./Gigi Resources Ltd./Goldbelt Mines Ltd.	Au, Ag, Cu
34. Bellas Resources Ltd./Sarat Resources Ltd. (Jack Wilson Project)	Au, Cu
35. Pass Lake Resources Ltd./Consolidated Goldwest Ltd. (LD Project)	Au, Cu
36. Lac Minerals (Mankin Peak Project)	Au
37. Schaft Creek	910,000,000 tonnes 0.303 Cu, 0.020 Ni, 0.113 g/t Au, 0.992 g/t Ag
38. Consolidated Silver Standard/Pacific Century Expl. (Paydirt Project)	200,000 tons 0.120 oz/ton Au
39. Coninco (Forever Project)	Au, Ag, Cu, Pb, Zn

**JAZZMAN RESOURCES INC.**

**GER 1-3 CLAIMS**

**Regional Mineral Occurrence Map**

LIARD MINING DIVISION, B.C.

**PAMICON DEVELOPMENTS LTD.**

NTS: 103, 104	Date: March, 1991	FIGURE: 3
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access corridors and mineralization was noted along the Iskut and Unuk Rivers and at the head of the Portland Canal. Highlights of this period were:

- \* discovery of copper, gold, silver mineralization at Bronson Creek in the Iskut
- \* location of similar mineralization along the Unuk and at Sulphurets Creek
- \* discovery of the Silbak-Premier gold-silver mine near Stewart plus a number of other rich silver occurrences along the Portland Canal
- \* the location by Tom MacKay of the original mineralization at Eskay Creek near the headwater of the Unuk River

Development and production at this time was largely limited to the area around Stewart where a number of mines produced high grade silver. The most significant producer was the Silbak Premier some 12 km north of Stewart which from 1920 until 1936 produced some 2,550,000 tons grading 16.8 g/tonne gold and 409.5 g/tonne silver.

After World War II the area was explored for base metals, notably copper. This era led to the discovery of the Granduc, Galore Creek and Schaft Creek copper deposits and the E & L copper-nickel deposit. Published reserves of these are listed below and shown on Figure 3.

	<u>Tons</u>	<u>Cu</u> (%)	<u>Au</u> (g/t)	<u>Ag</u> (g/t)	<u>Mo</u> (%)	<u>Ni</u> (%)
Granduc	10,890,000	1.79				
Galore Creek	125,000,000	1.06	0.397	7.94		
Schaft Creek	910,000,000	0.30	0.113	0.992	0.02	
E & L	3,200,000	0.60				0.80

Of these Granduc was taken to production by Newmont Mining but a combination of low copper prices and high operating cost resulted in suspension of activity.

1975 - Present

The more recent activity in the area dates to the rise of precious metal prices in the 1970s. Significant early events at this time were:

- \* acquisition by Skyline Explorations of their property on Mt. Johnny near Bronson Creek in the Iskut in 1980
- \* continued work by Esso Minerals on Granduc Mining's properties on Sulphurets Creek in the Unuk River area
- \* re-organization of the Silbak-Premier property and participation by Westmin Resources Ltd.

Work on these properties led to the following reserves being published for the properties listed below as well as stimulating exploration activity in the area. This activity led to the definition drilling of the Snip deposit by Cominco/Prime, the reserves of which are also shown.

<u>Company</u>	<u>Deposit</u>	<u>Area</u>	<u>Short Tons</u>	<u>Au</u> (oz/t)	<u>Ag</u> (oz/t)	<u>Ref.</u>
Cominco/Prime	Snip	Iskut	1,032,000	0.875		Note 1
Newhawk/Lacana	West Zone	Sulphurets	550,400	0.420	18.00	Note 2
	Sulphurets	Sulphurets	20,000,000	0.08		Note 3
	Lake Zone					
Catear Resources	Gold Wedge	Sulphurets	295,000	0.835	2.44	Note 4
Westmin Silbak	Silbak	Stewart	5,770,000	2.06 g/t	86.3 g/t	

Note 1: News Release, Vancouver Stockwatch, November 7, 1988

Note 2: News Release, Northern Miner, February 19, 1990

Note 3: News Release, Vancouver Stockwatch, August 24, 1989

Note 4: Pers. Comm., Catear Resources

Between August, 1988 and July, 1990 Skyline Gold Corp. produced 210,000 tons grading 0.45 oz/ton Au (pers. comm., D. Yeager) from its Reg property.

These successes have generated extensive exploration activity in the area which has led to the discovery of a large number of mineral occurrences which are in a preliminary stage of evaluation. The most notable of these to date is on Tom MacKay's old Eskay Creek showings. The 1988/89/90 work on this project of Calpine/Stikine Resources indicates a major gold-silver-base metal mineral deposit of possible volcanogenic massive sulphide and epithermal affinity with a minimum strike length of 1800 metres. Some notable recent results on the project are:

DDH #CA 89-93	91.8 feet	0.453 oz/ton Au and 16.9 oz/ton Ag
DDH #CA 89-109	682.2 feet	0.875 oz/ton Au and 0.97 oz/ton Ag
	including 62.3 feet	7.765 oz/ton Au and 1.35 oz/ton Ag

These intersections are considered to be close to the true width of the mineralization. A great many other excellent intersections have been published by the companies and exploration is continuing with drilling and underground bulk sampling tests. Reserves based on this drilling indicate probable reserves of 4,364,000 tons grading 0.77 oz/ton Au and 29.12 oz/ton Ag (news release, September 14, 1990).

During the 1990 season American Fiber Corp./Consolidated Silver Butte intersected encouraging results in drilling on their adjoining claims south of Eskay Creek. Hole 90-30 returned 46.9 feet of 0.421 oz/ton Au and 30.91 oz/ton Ag (pers. comm. J. Bond, American Fiber).

Drilling on Gulf International Minerals' Northwest Zone near Newmont Lake has been ongoing between 1987 and 1990. A few of their more significant intersections are provided below (annual reports and news releases).

<u>Drill Hole</u>	<u>Interval</u> (feet)	<u>Length</u> (feet)	<u>Copper</u> (%)	<u>Silver</u> (oz/ton)	<u>Gold</u> (oz/ton)
87-25	343.0-373.0	30.0	0.23	0.11	0.404
	409.3-412.0	2.7	0.55	0.35	0.250
	470.2-473.8	3.6	0.42	0.19	1.520

<u>Drill Hole</u>	<u>Interval</u> (feet)	<u>Length</u> (feet)	<u>Copper</u> (%)	<u>Silver</u> (oz/ton)	<u>Gold</u> (oz/ton)
87-29	167.0-170.0	3.0	0.001	0.01	0.140
	205.0-241.5	36.5	0.97	1.16	1.605
88-28	213.9-229.0	15.1	0.41	0.29	0.810
	260.5-276.6	16.1	0.24	0.29	0.645
	300.2-301.5	1.3	0.15	0.17	0.320
	330.1-338.9	8.9	1.99	0.31	0.340
	353.0-363.2	10.2	1.02	0.22	0.268

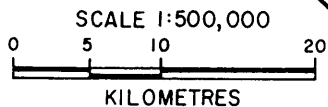
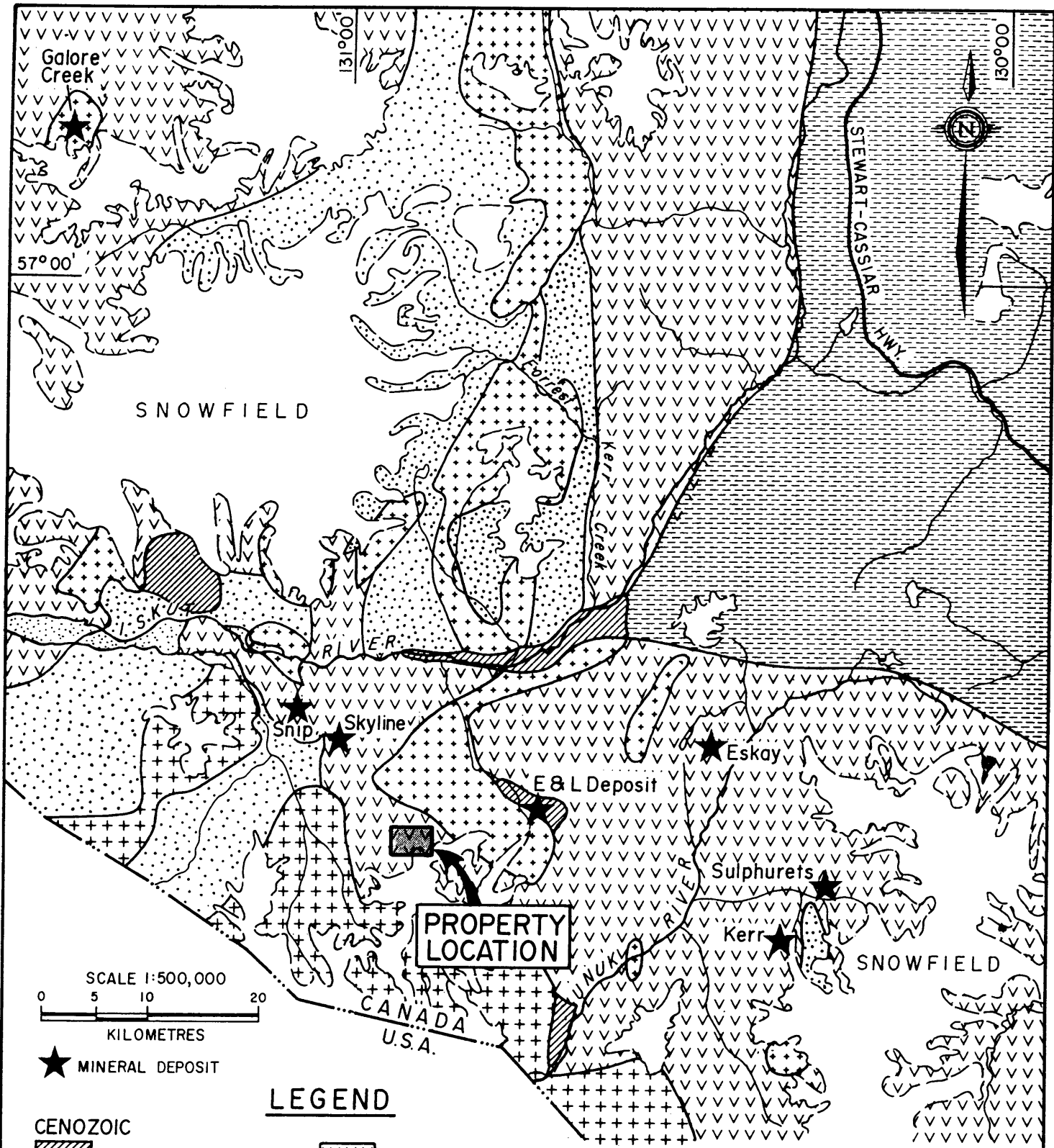
In February, 1991 Bond International Gold Inc. released a preliminary reserve estimate of 933,000 tons grading 0.370 oz/ton Au on their Red Mountain project 20 kilometres east of Stewart.

A great many other companies active in the areas have released assays from preliminary trenching and/or drilling. Many of these show excellent values in gold, silver and base metals and it is anticipated that additional properties with mineral reserves of possible economic significance will emerge. Of recent interest in the area is the discovery in 1990 of a Kuroko-type polymetallic volcanogenic massive sulphide occurrence on Eurus Resource Corp./Thios Resources Inc.'s Rock & Roll project. Trench samples range up to 0.317 oz/ton Au, 100 oz/ton Ag, 8.15% Pb, 4.24% Zn and 0.65% Cu over 4.6 feet while in drilling a 31.7 foot intersection graded 0.80 oz/ton Au, 25.7 oz/ton Ag, 2.07% Pb, 5.35% Zn, 0.58% Cu.

The locations of a number of these occurrences are indicated in the accompanying figure. At this time these represent only a fraction of the reported results in this rapidly developing area.

## 5.0 REGIONAL GEOLOGY

The geology of the Iskut-Galore-Eskay-Sulphurets area has undergone considerable study in the past few years by industry, federal and provincial geologists (Figure 4). Much of this work stemmed from Grove's mapping of the



★ MINERAL DEPOSIT

**LEGEND**

- CENOZOIC**
- Recent basalt flows
  - Early Tertiary felsic intrusives, primarily quartz monzonite
- MESOZOIC**
- Jurassic to Tertiary intrusives, felsic to intermediate, incl. Coast Range Intrusives
  - Middle to Upper Jurassic Bowser Lake Group clastic sediments
- PALEOZOIC**
- Upper Triassic to Upper Jurassic volcanics and sediments, Hazelton and Stuhini Groups
  - Permian and older clastic, limestone and volcanic rocks and metamorphic equivalents; includes metamorphic rocks of unknown age.

<b>JAZZMAN RESOURCES INC.</b>			
<b>GER 1-3 CLAIMS</b>			
<b>SIMPLIFIED REGIONAL GEOLOGY</b>			
LIARD MINING DIVISION, B.C.			
<b>PAMICON DEVELOPMENTS LTD.</b>			
Drawn.	J.W.	N.T.S. 104B/10W	Date. March 1991
			FIG. <b>4</b>

Geology interpreted from G.S.C. Map II-1971, Telegraph Creek; Equity Preservation Corp., Stewart-Sulphurets-Iskut Map 1988; B.C.G.S. Open File 1990-1; and from Pamicon Developments Ltd. field maps.

Stewart Complex (Grove, 1969, 1970, 1973, 1982, 1987). Earliest geological mapping of the area was carried out by Kerr (1948) during the 1920s and 1930s although Operation Stikine undertaken by the Geological Survey of Canada in 1957 produced the first publications. R.G. Anderson of the Geological Survey of Canada is presently mapping the area covered within NTS 104B.

Grove defined a northwest trending assemblage of Upper Triassic and Jurassic volcanics and sedimentary rocks extending from Alice Arm in the south to the Iskut River in the north as the Stewart Complex. Paleozoic limestone and volcanics underlie the complex while Mesozoic to Tertiary aged intrusives cut the units. Tertiary felsic plutons forming the Coast Plutonic Complex bound the area to the west while clastic sediments of the Spatsizi and Bowser Lake Groups overlap on the east.

Age dating of mineralization within the various mining districts suggests a close cospatial and coeval relationship with late Triassic to early Jurassic volcanics and intrusives. This has directed exploration efforts toward these members.

A stratigraphic column of the area's lithologies is presented on the following page.

## PALEOZOIC

### Stikine Assemblage Volcanic and Sedimentary Rocks

Paleozoic Stikine assemblage rocks commonly occur as uplifted blocks associated with major intrusive bodies as exposed along the southwest flanks of Johnny Mountain and Zappa Mountain.

At the base of the Stikine assemblage stratigraphic column, at least four distinctive limestone members have been differentiated interlayered with mafic

volcaniclastics, felsic crystal tuffs, pebble conglomerate and siliceous shale.

Mississippian rocks consist of thick-bedded limestone members interbedded with chert, pillowed basalt and epiclastic rocks.

Lower Permian units comprise thin- to thick-bedded corraline limestone interbedded with volcanic mafic to felsic volcanic flows, tuffs and volcaniclastics.

## MESOZOIC

### Stuhini Group Volcanic and Sedimentary Rocks

Upper Triassic Stuhini Group volcanic and sedimentary rocks are characterized by a distinct facies change from bimodal mafic to felsic flows and tuffs interbedded with thick sections of limestone in the northwest to predominantly mafic volcanics with minor shale members in the southeast.

### Hazelton Group Volcanic and Sedimentary Rocks

Lower Jurassic Hazelton Group volcanic and sedimentary rocks predominantly occur in the southeast, northwest corners and central portions of the Galore-Iskut-Sulphurets area. Hazelton Group stratigraphy consists of the lowermost Unuk River Formation (Grove, 1986) comprised of mafic to intermediate volcanics with interbedded shale, argillite and greywacke sediments capped by feldspar porphyry flow; the Betty Creek Formation (Grove, 1986) overlying the Unuk River Formation consists of maroon and green volcanic conglomerate and breccia often containing diagnostic jasperoidal veins, with the youngest uppermost member of the Hazelton Group consisting of dacite to rhyolite, spherulitic rhyolite welded tuff and tuff breccia with basal sediments and

upper pillow basalts correlative with Grove's (1986) Salmon River Formation and Alldrick's (1987) Mount Dilworth Formation.

Lower Jurassic volcanics of the area are commonly correlated with the Telkwa Formation of the Hazelton Group. A close spatial and coeval relationship has long been recognized (Alldrick, 1986, 1987 and others) between Lower Jurassic volcanism and early Jurassic intrusive activity and its metallogenic importance in precious metal mineralization (Premier porphyry). Because of the relationship, lower members of the Hazelton Group are considered the most favourable targets for exploration.

#### Spatsizi Group Sedimentary Rocks

Spatsizi Group shales, tuffs and limestone of upper Lower and lower Middle Jurassic age overlie Hazelton Group rocks in the eastern part of the map area. Buff, sandy bivalve and belemnite fossil bearing limestone units decrease in abundance in the north parts of the area at the expense of shale. Here, black radiolarian-bearing siliceous shale alternately interbeds with white tuffs giving the units an informal name of 'pyjama beds'. This pyjama bed sequence serves as an important marker for identifying the favourable underlying Hazelton Group.

#### Bowser Group Sedimentary Rocks

Bowser Lake Group Middle and Upper Jurassic clastic sediments cover most of the northeast quadrant of the map area. Interbedded shale and greywacke units predominate in the south while thick-bedded shales dominate toward the north. Near the highlands toward the northern reaches of the Bowser Basin, basal chert-rich conglomerates identify the Bowser Group as an overlap assemblage.



## CENOZOIC VOLCANIC ROCKS

Recent mafic flows and ash of the Hoodoo Formation, Iskut Formation and Lava Fork Formation cap specific areas within the region.

## PLUTONIC ROCKS

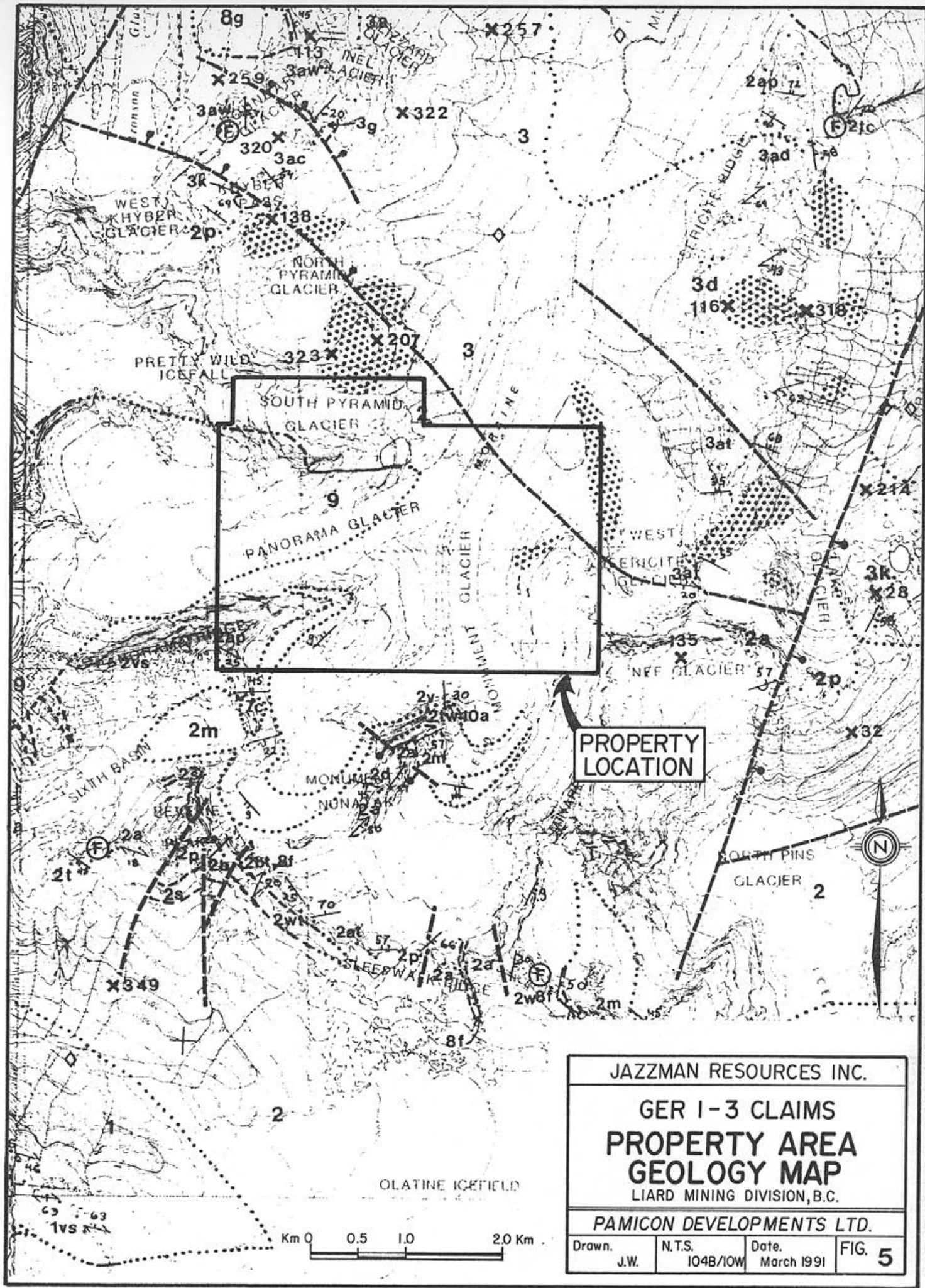
The Coast Plutonic Complex, forming the western boundary of the Stewart Complex, is generally characterized by felsic Tertiary plutons. Late Triassic Stuhini Group and Early Jurassic Hazelton Group plutonic styles suggest coeval and cospatial relationships with surrounding volcanics via distinctive porphyritic dykes such as the Premier Porphyry. Tertiary Coast Complex plutons lack these dykes and volcanic equivalents.

## 6.0 PROPERTY AREA GEOLOGY

Geological mapping carried out by the provincial government in the Ger 1-3 claims area is presented in Open File 1990-16, Geology and Mineral Deposits of the Snippaker Area by D.A. Alldrick, J.M. Britton, M.E. Maclean, K.D. Hancock, B.A. Fletcher and S.N. Hiebert. The geology in the claims area is illustrated in Figure 5 of this report.

The claims appear to be underlain almost entirely by rocks of the Upper Triassic Stuhini Group while older Paleozoic Stikine Assemblage units occur to the southwest and younger Lower Jurassic volcanosedimentary rocks including equivalents to the Unuk River, Betty Creek and Mount Dillworth Formations occur to the north and east. Intrusive rocks primarily consist of the Tertiary Coast Plutonic Complex to the west and south and the Jurassic Lehto Batholith to the northeast.

Stuhini Group volcanosedimentary rocks consist of medium to dark green, mafic to intermediate volcanic and volcanoclastic rocks and thick sequences of



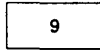
8g  
113  
3aw  
3aw  
3g  
320  
3ac  
3R  
69  
138  
WEST HYBER GLACIER 2p  
NORTH PYRAMID GLACIER  
PRETTY WILD ICEFALL  
323  
SOUTH PYRAMID GLACIER  
PANORAMA GLACIER  
9  
MONUMENT GLACIER  
WEST MERCITE GLACIER  
NEF GLACIER  
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## GOSSANOUS ALTERATION ZONES

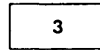
Pyrite ± quartz ± sericite ± carbonate ± clay; locally foliated to schistose

## INTRUSIVE ROCKS



**9** COAST PLUTONIC COMPLEX: Medium to coarse-grained biotite granite; biotite ± hornblende granodiorite; minor quartz diorite; locally foliated along margins

## LOWER JURASSIC



**3** UPPER VOLCANOSEDIMENTARY SEQUENCE: Heterogeneous, grey, green, rarely purple or maroon, massive to bedded pyroclastic and sedimentary rocks. Green and grey, intermediate to mafic volcaniclastics and flows intercalated with fine-grained immature sedimentary rocks. Locally thick conglomerates. Limestone rare or absent.

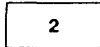
Includes equivalents of Unuk River, Betty Creek and Mount Dilworth formations. In the Snippaker-John Mountain area an upper package of felsic volcanics (consisting of units 3d, 3b, 3g and 3dh) is probably correlative with the combined Betty Creek and Mount Dilworth formations of the Sulphurets map area Hancock, 1990, and MacLean, 1990).

- 3v Undifferentiated, mainly volcanic rocks
- 3a Green and grey, massive to poorly bedded andesite; ash tuff to tuff breccia; feldspar ± hornblende phyric
- 3b Dark green, basaltic-andesite tuffs and flows
- 3d Grey, green and purple dacitic tuff, lapilli tuff, crystal and lithic tuff; massive to well bedded feldspar phyric; locally welded
- 3g Light grey and green dacite crystal and lapilli tuffs with minor hematitic stringers (Snippaker-Inel Ridge)
- 3k K-feldspar-plagioclase ± hornblende porphyritic andesitic to dacitic tuffs and flows ("Premier Porphyry")
- 3s Undifferentiated, mainly sedimentary rocks
- 3t Black, thinly bedded siltstone (turbidite), shale, argillite, mudstone
- 3h Maroon, hematitic mudstone with calcareous concretions
- 3w Grey, brown and green tuffaceous wacke; variably bedded
- 3c Conglomerate and volcanic conglomerate; polymictic, locally orange-weathering

## TRIASSIC

### STUHINI GROUP

## UPPER TRIASSIC



**2** LOWER VOLCANOSEDIMENTARY SEQUENCE: Medium to dark and volcaniclastic rocks and thick sequences of brown, black and minor limestone as beds, lenses and clasts

- 2v Undifferentiated, mainly volcanic rocks
- 2a Grey and green, plagioclase ± hornblende ± pyroxene
- 2p Grey and green, pyroxene ± feldspar porphyritic andesite
- 2m Melanocratic, pyroxene-rich basalt and andesite; with intercalated pyroxene-bearing wacke
- 2y Light grey-green, waxy, dacitic pyroxene-plagioclase
- 2i Aphyric andesitic tuffs and lapilli tuffs (Winslow R.)
- 2f Light weathering, felsic tuffs and breccias
- 2s Undifferentiated, mainly sedimentary rocks
- 2t Black, thinly bedded siltstone and fine sandstone
- 2w Grey, brown and green tuffaceous wacke; variably bedded
- 2c Conglomerate and volcanic conglomerate; polymictic
- 2l Grey, variably bedded limestone (mostly recrystallized)

brown, black and grey, immature sedimentary rocks, minor limestone as beds, lenses and clasts.

## 7.0 PROPERTY GEOLOGY

Due to steep topographical constraints only minimal geological mapping is able to be carried out on the Ger 1-3 mineral claims. However, access is possible in certain areas by expert rock climbers.

Mapping along the east side of the Ger 1 claim (Figure 6) on the ridge hosting the Ridge Vein indicates an aerially extensive zone of spectacular gossan produced from strongly pyritiferous metasilstone and metagreywacke units. Alteration within these rocks consists of pyrite + silicification + sericite + carbonate + clay. Along the west slope of this prominent ridge a small area of fine to medium grained, dark green andesite volcanic tuffs was also mapped.

In the southwest corner of the claims, similar metagreywacke and metasilstone predominate with minor amounts of andesite tuffs, locally pyritic well bedded argillites, schistose garnetiferous greywacke and gabbro intrusive.

Several light brown to pink coloured felsic (possibly feldspar porphyritic) dykes can be seen cross-cutting stratigraphy in several locations of the property by helicopter in areas where access is generally considered inaccessible.

## 8.0 MINERALIZATION AND GEOCHEMISTRY

A total of 50 prospect rock chip and 17 soil samples were collected from the Ger 1-3 claims in 1990. Sample locations are plotted on Figure 6 of this report.

Prospecting along the eastern boundary of the claims discovered a narrow 5 to 15 cm wide limonitic quartz vein (Ridge Vein) hosting 5 to 10% pyrite sulphide mineralization (Figure 7). The vein is hosted within gossanous, strongly silicified and pyritiferous metagreywacke. The vein is exposed for 17 metres and along strike shows varying orientations of 348/40W, 000/41W, 024/60NW. Assays of significance from this area are listed below:

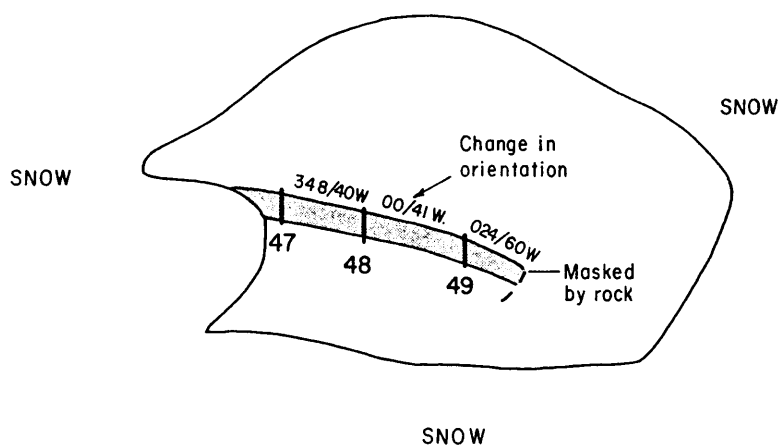
<u>Sample Number</u>	<u>Cu (ppm)</u>	<u>Ag (ppm)</u>	<u>Au</u>		<u>Remarks</u>
			<u>(ppb)</u>	<u>(oz/ton)</u>	
6513	26	5.0	--	0.224	select grab
6517	11	0.8	--	0.094	select grab
6543	131	12.0	--	0.356	resample 6513
6547	118	6.2	1,400	--	15 cm channel
6548	133	5.2	--	0.108	15 cm channel
6549	39	3.0	1,360	--	15 cm channel

Two short contour soil geochemistry lines were placed directly below the Ridge Vein (Figure 6) on the west side of the ridge in an attempt to pick up additional parallel mineralized veins or further expressions of the Ridge Vein. Individual soil samples were collected from stations spaced every 25 metres along the contour lines and from holes varying in depth from 20 to 40 cm. Samples were stored at the Bronson Creek base camp and then shipped to Vangeochem Labs in Vancouver, B.C. where they were analyzed for gold geochem and ICP multi-element content. A complete analytical procedure report is appended to this report.

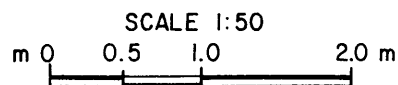
The highest gold values obtained along the contour lines were 25 ppb Au from four separate stations. Silver and copper values were as high as 1.8 ppm Ag and 122 ppm Cu.

180° SECTION 000°

6547 = 1400 ppb Au / 6.2 ppm Ag / 118 ppm Cu  
 6548 = 0.108 oz/t. Au / 5.2 ppm Ag / 133 ppm Cu  
 6549 = 1360 ppb Au / 3.0 ppm Ag / 39 ppm Cu



- Host is a strongly silicified meta greywacke ; 8-10% diss. euhedral pyrite
- Maximum TW of vein is 15 cm pinching to 5 cm to the North
- 2-3 cm argillic halo
- Samples prefixed by 065



JAZZMAN RESOURCES INC.			
GER 1-3 CLAIMS <b>RIDGE VEIN TRENCH</b> <b>SKETCH MAP</b>			
LIARD MINING DIVISION, B.C			
PAMICON DEVELOPMENTS LTD.			
DRAWN. J.W.	N.T.S. 104B/10W	DATE. March 1991	FIG. <b>7</b>

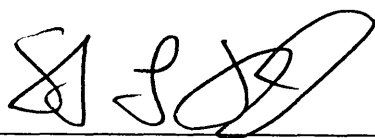
## 9.0 DISCUSSION AND CONCLUSIONS

A small exploration program was carried out on Jazzman Resources Inc.'s Ger 1-3 claims in 1990 which resulted in the discovery of a narrow gold-bearing quartz vein near the eastern boundary of the claims. Assays from this vein ranged up to 0.356 oz/ton Au. The identification of this style of auriferous veining indicates the potential yet remains for finding additional and economically more important gold structures on the claims.

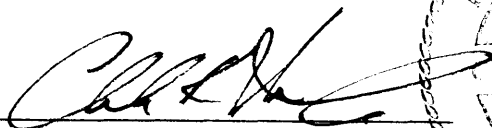
On the property large areas of gossan indicate extensive zones of pyrite + sericite + silicification + clay + carbonate alteration which may be indicative of as yet unidentified mineralized structures or systems. Laterally extensive felsic dykes can be seen cutting these zones which in many instances in the Iskut River Gold Camp display a close spatial relationship to gold mineralization.

Based on the favourable underlying host stratigraphy on the Ger 1-3 claims together with known occurrences and significant alteration halos, an ongoing exploration program utilizing expert rock climbers for geological mapping and prospecting is warranted for 1991. Contingent upon the success of this program, a modest diamond drill testing program could be implemented to test any potentially favourable mineralized targets.

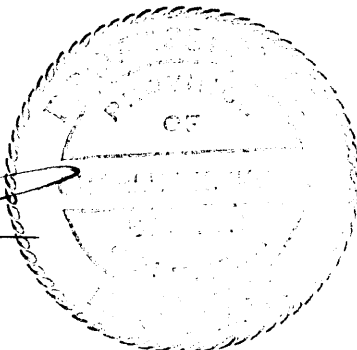
Respectfully submitted,



Steve Todoruk, Geologist



Charles K. Ikona, P.Eng.



**APPENDIX I**

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**APPENDIX II**

**COST STATEMENT**

**COST STATEMENT**  
**JAZZMAN RESOURCES INC.**  
**GER 1-2 MINERAL CLAIMS**  
**LIARD MINING DIVISION**  
**JULY 1, 1990 TO OCTOBER 31, 1990**

**WAGES**

**Geologists**

S. Todoruk (Senior Geologist)		
- 1 day @ \$400.00	\$	400.00
L. Vanzino (Field Geologist)		
- 3.5 days @ \$325.00		1,137.50
R. Gerhardt (Field Geologist)		
- 1 day @ \$325.00		325.00

**Manager/Coordinator**

K. Milledge - 1 day @ \$250.00	250.00
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**Prospectors**

N. Debock - 5 days @ \$300.00	1,500.00
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**Samplers/Trenchers**

C. O'Brien - 1 day @ \$225.00	225.00
E. Munroe (Blaster)- 3 days @ \$250.00	750.00
J. Elmore - 3 days @ \$225.00	<u>675.00</u>

<b>Total Wages</b>	<b>\$ 5,262.50</b>
--------------------	--------------------

<b>Project Supervision</b>	<b>673.70</b>
----------------------------	---------------

**CAMP AND EQUIPMENT EXPENSES**

**Room and Board**

Pamicon Crew	18.5 days	
Helicopter Crew	<u>2.0 days</u>	
	20.5 days @ \$125.00	\$ 2,562.50

<b>Field Equipment and Supplies</b>	<u>450.00</u>	<b>3,012.50</b>
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## GENERAL EXPENSES

Travel, Accommodation and Airfare	\$ 360.00	
Space Tel Communications	225.00	
Fixed Wing	112.80	
Helicopter	4,232.03	
Freight	239.36	
Plugger Rental	195.00	
Powder	200.00	
Reproductions	100.27	
Assays	1,173.00	
Report	<u>3,000.00</u>	

9,837.73

TOTAL THIS PROGRAM

\$ 18,786.43

**APPENDIX III**

**ANALYTICAL PROCEDURES**



November 21, 1990

TO: Mr. Steve Todoruk  
PAMICON DEVELOPMENTS LTD.  
711 - 675 W. Hastings St.  
Vancouver, BC V6B 1N4

FROM: VANGEOCHEM LAB LIMITED  
1630 Pandora Street  
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine Aqua Regia  
soluble gold in geochemical samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 5.00 to 10.00 grams of the minus 80-mesh portion of the samples were used. Samples were weighed out using an electronic micro-balance and deposited into beakers.
- (b) Using a 20 ml solution of Aqua Regia (3:1 solution of HCl to HNO<sub>3</sub>), each sample was vigorously digested over a hot plate.
- (c) The digested samples were filtered and the washed pulps were discarded. The filtrate was then reduced in volume to about 5 ml.

-2-

- (d) Au complex ions were then extracted into a di-isobutyl ketone and thiourea medium (Anion exchange liquids "Aliquot 336").
- (e) Separatory funnels were used to separate the organic layer.

3. Method of Detection

The detection of Au was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out onto a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values, in parts per billion, were calculated by comparing them with a set of gold standards.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Raymond Chan and his laboratory staff.



---

Raymond Chan  
VANGEOCHEM LAB LIMITED

November 21, 1990

TO: Mr. Steve Todoruk  
PAMICON DEVELOPMENTS LTD.  
711 - 675 W. Hastings St.  
Vancouver, BC V6B 1N4

FROM: VANGEOCHEM LAB LIMITED  
1630 Pandora Street  
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine hot acid soluble  
for 25 element scan by Inductively Coupled Plasma  
Spectrophotometry in geochemical silt and soil samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" X 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 0.50 gram portions of the minus 80-mesh samples were used. Samples were weighed out using an electronic balance.
- (b) Samples were digested with a 5 ml solution of HCl:HNO<sub>3</sub>:H<sub>2</sub>O in the ratio of 3:1:2 in a 95 degree Celsius water bath for 90 minutes.
- (c) The digested samples are then removed from the bath and bulked up to 10 ml total volume with demineralized water and thoroughly mixed.

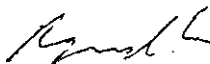
-2-

3. Method of Analyses

The ICP analyses elements were determined by using a Jarrell-Ash ICAP model 9000 directly reading the spectrophotometric emissions. All major matrix and trace elements are interelement corrected. All data are subsequently stored onto disketts.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Raymond Chan and his laboratory staff.



---

Raymond Chan  
VANGEOCHEM LAB LIMITED



MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

February 22, 1991

TO: Mr. Steve Todoruk  
PAMICON DEVELOPMENTS LTD.  
711 - 675 W. Hastings Street  
Vancouver, BC V6B 1N4

FROM: VANGEOCHEM LAB LIMITED  
1650 Pandora Street  
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine silver by fire assay method in geological samples.

1. Method of sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in 8" x 12" plastic bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized into 100-mesh or finer by using a disc mill. The pulverized samples were then put in the new bags for subsequent analyses.

2. Method of Digestion

- (a) 20.0 - 30.0 grams of the pulp samples were used. Samples were weighed out by using a top-loading balance into a fusion pot.
- (b) A flux of litharge, soda ash, silica, borax, either flour or potassium nitrite was added. The samples were thoroughly mixed and then fused at 1900 degrees Fahrenheit to form a lead button.
- (c) The silver was extracted by cupellation, weighed and parted with diluted nitric acid.



MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.


-2-

3. Method of Calculation

The silver was calculated by the weigh loss of the bead and then parts per million (ppm) was calculated.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Raymond Chan and the laboratory staff.

  
\_\_\_\_\_  
Raymond Chan  
VANGEOCHEM LAB LIMITED



MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

February 22, 1991

TO: Mr. Steve Todoruk  
PAMICON DEVELOPMENTS LTD.  
711 - 675 W. Hastings Street  
Vancouver, BC V6B 1N4

FROM: VANGEOCHEM LAB LIMITED  
1650 Pandora Street  
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine Cu, Pb and Zn  
assay samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in the new bags for subsequent analyses.

2. Method of Digestion

- (a) 0.200 gram portions of the minus 100 mesh samples were used. Samples were weighed out by using an analytical balance.
- (b) Samples were digested in multi acids in volumetric flasks.



MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

-2-

3. Method of Analyses

Cu, Pb and Zn concentrations were determined using a Techtron Atomic Absorption Spectrophotometer Model AA5 with their respective hollow cathode lamps. The digested samples were directly aspirated into an air and acetylene mixture flame. The results, in parts per million, were calculated by comparing them to a set of standards used to calibrate the atomic absorption units.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Raymond Chan and their laboratory staff.

A handwritten signature in black ink, appearing to read 'Raymond Chan', written over a horizontal line.

Raymond Chan  
VANGEOCHEM LAB LIMITED



**APPENDIX IV**

**ASSAY CERTIFICATES**

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656



**MAIN OFFICE**  
1088 TRIUMPH ST.  
VANCOUVER, B.C. V5L 1K5  
• (604) 251-5656  
• FAX (604) 254-5717

**BRANCH OFFICES**  
PASADENA, NFLD.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

**GEOCHEMICAL ANALYTICAL REPORT**  
=====

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
ADDRESS: 711 - 675 W. Hastings St.  
: Vancouver, BC  
: V6B 1N4

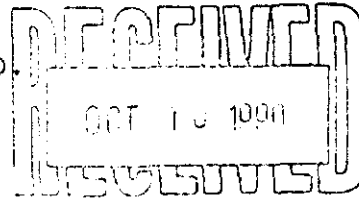
DATE: SEPT 14 1990

REPORT#: 900393 GA  
JOB#: 900393

PROJECT#: JAZZMAN GER  
SAMPLES ARRIVED: SEPT 05 1990  
REPORT COMPLETED: SEPT 14 1990  
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900393 NA  
TOTAL SAMPLES: 38  
SAMPLE TYPE: 38 ROCK  
REJECTS: SAVED

SAMPLES FROM: BRONSON CAMP  
COPY SENT TO: PAMICON DEVELOPMENTS LTD.



PREPARED FOR: MR. STEVE TODORUK

ANALYSED BY: VGC Staff

SIGNED: *[Signature]*

GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656



MAIN OFFICE  
1988 TRIUMPH ST.  
VANCOUVER, B.C. V5L 1K5  
● (604) 251-5656  
● FAX (604) 254-5717

BRANCH OFFICES  
PASADENA, N.F.L.D.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900393 GA

JOB NUMBER: 900393

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au
06501	nd
06502	nd
06503	nd
06504	70
06505	60
06506	50
06507	220
06508	380
06509	40
06510	10
06511	nd
06512	1360
06513	7800
06514	370
06515	70
06516	1360
06517	3500
06518	20
06519	nd
06520	nd
06521	nd
06522	nd
06523	10
06524	50
06525	50
06526	130
06527	60
06528	40
06529	180
06530	100
06531	750
06532	150
06533	650
06534	530
06535	100
06536	600
06537	80
06538	240

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656

**VGC VANGEOCHEM LAB LIMITED**

**MAIN OFFICE**  
4988 TRIUMPH ST.  
VANCOUVER, B.C. V5L 1K5  
• (604) 251-5656  
• FAX (604) 254-5717

**BRANCH OFFICES**  
PASADENA, N.F.L.D.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

**ASSAY ANALYTICAL REPORT**  
=====

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
**ADDRESS: 711 - 675 W. Hastings St.**  
: Vancouver, BC  
: V6B 1N4

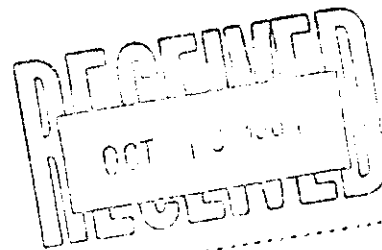
**DATE: SEPT 14 1990**

**REPORT#: 900393 AA**  
**JOB#: 900393**

**PROJECT#: JAZZMAN GER**  
**SAMPLES ARRIVED: SEPT 05 1990**  
**REPORT COMPLETED: SEPT 14 1990**  
**ANALYSED FOR: Au**

**INVOICE#: 900393 NA**  
**TOTAL SAMPLES: 2**  
**REJECTS/PULPS: 90 DAYS/1 YR**  
**SAMPLE TYPE: 2 ROCK**

**SAMPLES FROM: BRONSON CAMP**  
**COPY SENT TO: PAMICON DEVELOPMENTS LTD.**



**PREPARED FOR: MR. STEVE TODORUK**

**ANALYSED BY: Raymond Chan**

**SIGNED:**

*Raymond Chan*  
-----  
Registered Provincial Assayer

**GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.**

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656



**MAIN OFFICE**  
1988 TRIUMPH ST.  
VANCOUVER, B.C. V5L 1K5  
● (604) 251-5656  
● FAX (604) 254-5717

**BRANCH OFFICES**  
PASADENA, NFLD.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900393 AA

JOB NUMBER: 900393

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au oz/st
06513	.224
06517	.094

DETECTION LIMIT

.005

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001%

ppm = parts per million

< = less than

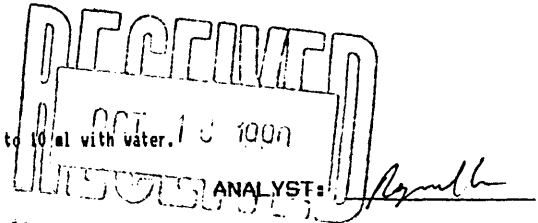
signed: \_\_\_\_\_

VANCOUVER LABORATORIES

1630 Pandora Street, Vancouver, B.C. V5L 1L6  
 Ph: (604)251-5656 Fax: (604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.



REPORT #: 900393 PA PAMICON DEVELOPMENTS LTD. PROJECT: JAZZMAN GER DATE IN: SEPT 05 1990 DATE OUT: OCT 05 1990 ATTENTION: MR.- STEVE TODORUK PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
06501	0.2	0.10	<3	26	<3	0.12	3.2	1	98	81	0.66	<0.01	0.05	78	7	<0.01	18	<0.01	38	<2	<2	8	<5	<3	88
06502	1.0	0.12	10	>1000	<3	0.23	2.6	3	156	35	1.00	0.03	0.01	117	8	<0.01	22	0.09	29	<2	<2	36	<5	<3	68
06503	0.3	0.07	<3	871	<3	0.09	2.2	<1	97	12	0.52	<0.01	<0.01	51	11	<0.01	19	0.03	27	<2	<2	18	<5	<3	31
06504	0.3	1.96	<3	27	<3	0.67	8.0	45	65	137	>10.00	0.32	1.41	680	15	0.12	36	0.06	65	56	21	98	<5	<3	59
06505	0.9	1.29	<3	15	<3	1.05	4.4	72	50	137	>10.00	0.23	0.58	333	13	0.06	58	0.03	91	20	15	175	<5	<3	63
06506	0.3	2.48	<3	32	<3	0.49	7.5	66	58	75	>10.00	0.30	1.93	835	12	0.09	21	0.05	132	50	22	108	<5	<3	201
06507	0.4	0.76	<3	30	<3	0.08	4.1	53	61	32	9.40	0.08	0.37	174	13	0.03	34	0.03	71	13	8	11	<5	<3	81
06508	0.2	0.83	<3	79	<3	0.14	3.0	14	113	32	5.46	0.04	0.18	241	142	0.01	16	0.04	49	<2	6	20	<5	<3	77
06509	0.1	0.14	<3	198	<3	<0.01	1.4	4	78	14	2.68	<0.01	0.01	68	22	<0.01	8	0.02	16	<2	2	11	<5	<3	33
06510	<0.1	0.70	<3	100	<3	0.11	7.8	28	32	18	>10.00	0.27	0.03	181	68	0.09	11	0.14	65	64	16	27	6	<3	31
06511	<0.1	0.10	<3	29	<3	<0.01	1.7	1	89	3	1.11	<0.01	<0.01	35	10	<0.01	5	<0.01	10	<2	<2	4	7	<3	5
06512	0.8	1.04	14	51	<3	0.14	4.5	7	123	65	6.36	0.07	0.75	497	6	0.02	12	0.01	24	6	8	38	<5	<3	27
06513	5.0	0.13	657	70	<3	0.03	9.2	2	83	26	5.16	0.03	0.03	50	7	<0.01	4	<0.01	74	5	4	11	<5	<3	13
06514	3.9	0.44	<3	11	<3	0.03	4.1	53	141	21	8.81	0.07	0.33	385	4	0.03	24	0.01	29	13	7	4	12	<3	21
06515	0.1	0.51	<3	100	<3	0.06	1.3	5	95	5	1.38	<0.01	0.35	191	8	<0.01	9	0.03	6	<2	4	5	<5	<3	14
06516	7.3	0.30	309	9	<3	0.13	10.8	16	172	36	>10.00	0.13	0.04	68	6	0.06	8	0.02	551	28	10	38	9	<3	184
06517	0.8	0.41	26	24	<3	0.10	5.2	15	58	11	7.07	0.07	0.21	148	7	0.03	9	<0.01	35	11	7	26	<5	9	22
06518	<0.1	1.69	<3	13	<3	0.98	3.2	89	118	8	6.73	0.18	0.35	304	10	0.04	10	0.07	19	4	10	166	<5	<3	21
06519	<0.1	1.01	<3	35	<3	0.80	2.5	73	48	7	5.14	0.14	0.07	156	11	0.02	4	0.06	12	<2	7	124	<5	<3	10
06520	0.5	1.30	<3	12	<3	0.29	4.6	194	107	16	>10.00	0.14	0.15	159	72	0.05	7	0.03	30	15	10	82	6	<3	14
06521	0.3	4.82	<3	21	<3	1.73	3.7	68	27	42	6.48	0.26	0.37	687	30	0.07	3	0.08	13	<2	16	373	<5	<3	63
06522	<0.1	0.98	<3	15	<3	0.83	3.5	104	111	7	6.36	0.16	0.10	147	21	0.04	5	0.04	25	6	8	184	<5	<3	8
06523	<0.1	1.49	<3	21	<3	0.86	3.2	55	47	23	5.39	0.15	0.71	314	20	0.04	14	0.03	23	3	10	147	<5	<3	28
06524	1.8	1.80	<3	140	<3	0.48	12.4	32	38	459	>10.00	0.56	1.67	2097	18	0.17	34	0.16	119	115	29	22	<5	<3	273
06525	2.2	3.31	<3	10	<3	1.43	7.3	129	113	2082	>10.00	0.37	0.98	637	13	0.11	107	0.17	52	34	23	48	<5	<3	118
06526	0.8	2.46	<3	7	<3	0.72	6.3	185	88	113	>10.00	0.22	0.53	334	17	0.07	28	0.04	69	17	15	42	<5	<3	115
06527	3.6	1.28	<3	17	<3	2.77	6.0	92	35	773	>10.00	0.34	0.25	1461	10	0.07	41	0.15	40	22	15	30	<5	<3	94
06528	6.5	1.11	<3	12	<3	4.35	7.9	84	61	3363	>10.00	0.51	0.15	831	14	0.10	94	0.12	65	47	18	147	<5	<3	192
06529	20.8	0.89	<3	3	<3	0.71	10.7	2058	26	1901	>10.00	0.47	0.12	241	20	0.13	70	0.06	148	89	24	87	<5	<3	141
06530	3.0	0.52	<3	6	<3	1.10	28.9	236	26	2025	>10.00	0.36	0.08	209	15	0.35	89	0.11	66	53	17	46	<5	<3	4142
06531	>50.0	2.07	<3	4	<3	0.54	9.5	94	111	2131	>10.00	0.30	1.17	840	17	0.10	37	0.11	117	45	20	20	<5	<3	320
06532	37.0	5.50	<3	30	<3	2.78	11.0	79	62	>20000	>10.00	0.37	1.65	2538	19	0.15	70	0.12	29	4	22	228	<5	<3	585
06533	1.4	0.27	<3	23	<3	1.55	2.6	37	73	312	5.00	0.19	0.11	656	7	0.01	4	<0.01	30	<2	5	49	<5	<3	37
06534	10.5	0.29	<3	4	<3	0.04	5.8	447	87	71	>10.00	0.14	0.02	63	23	0.05	15	<0.01	188	34	10	14	<5	<3	54
06535	3.6	0.64	<3	6	<3	0.17	5.3	160	55	51	8.34	0.10	0.06	398	19	0.03	<1	0.02	85	9	8	16	6	<3	17
06536	0.7	0.51	<3	6	<3	0.47	7.1	123	143	99	>10.00	0.25	0.10	161	9	0.06	29	<0.01	52	38	14	94	6	<3	16
06537	0.3	1.34	<3	31	<3	0.82	4.2	18	40	55	6.66	0.15	0.70	457	8	0.03	<1	0.08	17	<2	10	141	<5	<3	36
06538	1.0	1.03	<3	11	<3	0.70	4.3	28	91	363	>10.00	0.19	0.42	375	8	0.03	<1	0.04	28	13	11	85	<5	<3	43

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1  
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 2000 1000 10000 100 1000 20000  
 < - Less Than Minimum ) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANDMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

**ASSAY ANALYTICAL REPORT**  
=====

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
**ADDRESS: 711 - 675 W. Hastings St.**  
: Vancouver, BC  
: V6B 1N4

**DATE: OCT 11 1990**

**REPORT#: 900393 AC**  
**JOB#: 900393**

**PROJECT#: JAZZMAN GER**  
**SAMPLES ARRIVED: SEPT 05 1990**  
**REPORT COMPLETED: OCT 11 1990**  
**ANALYSED FOR: Ag**

**INVOICE#: 900393 NB**  
**TOTAL SAMPLES: 1**  
**REJECTS/PULPS: 90 DAYS/1 YR**  
**SAMPLE TYPE: 1 ROCK PULP**

**SAMPLES FROM: BRONSON CAMP**  
**COPY SENT TO: PAMICON DEVELOPMENTS LTD.**

**PREPARED FOR: MR. STEVE TODORUK**

**ANALYSED BY: Raymond Chan**

**SIGNED:**

-----  
*Raymond Chan*  
-----  
**Registered Provincial Assayer**

**GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.**

REPORT NUMBER: 900393 AC

JOB NUMBER: 900393

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Ag oz/st
06531	1.64

DETECTION LIMIT

.01

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001%

ppm = parts per million

< = less than

signed: \_\_\_\_\_

*[Handwritten Signature]*



**ASSAY ANALYTICAL REPORT**  
=====

CLIENT: PAMICON DEVELOPMENTS LTD.  
ADDRESS: 711 - 675 W. Hastings St.  
: Vancouver, BC  
: V6B 1N4

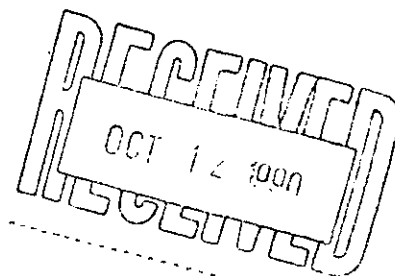
DATE: OCT 10 1990

REPORT#: 900393 AB  
JOB#: 900393

PROJECT#: JAZZMAN GER  
SAMPLES ARRIVED: SEPT 05 1990  
REPORT COMPLETED: OCT 10 1990  
ANALYSED FOR: Cu

INVOICE#: 900393 NB  
TOTAL SAMPLES: 1  
REJECTS/PULPS: 90 DAYS/1 YR  
SAMPLE TYPE: 1 ROCK PULP

SAMPLES FROM: BRONSON CAMP  
COPY SENT TO: PAMICON DEVELOPMENTS LTD.



PREPARED FOR: MR. STEVE TODORUK

ANALYSED BY: Raymond Chan

SIGNED: \_\_\_\_\_

*Raymond Chan*  
Registered Provincial Assayer

GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.

REPORT NUMBER: 900393 AB

JOB NUMBER: 900393

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Cu %
06532	2.28

DETECTION LIMIT

.01

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001%

ppm = parts per million

< = less than

signed: \_\_\_\_\_

*Raymond L.*

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L6  
(604) 251-5656



**MAIN OFFICE**  
~~1998 TRIUMPH ST.~~  
VANCOUVER, B.C. V5L 1K5  
● (604) 251-5656  
● FAX (604) 254-5717

**BRANCH OFFICES**  
PASADENA, NFLD.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

**GEOCHEMICAL ANALYTICAL REPORT**  
=====

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
ADDRESS: 711 - 675 W. Hastings St.  
: Vancouver, BC  
: V6B 1N4

DATE: SEPT 21 1990

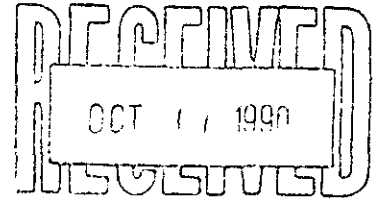
REPORT#: 900502 GA  
JOB#: 900502

PROJECT#: JAZZMAN GER  
SAMPLES ARRIVED: SEPT 17 1990  
REPORT COMPLETED: SEPT 21 1990  
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900502 NA  
TOTAL SAMPLES: 4  
SAMPLE TYPE: 4 ROCK  
REJECTS: SAVED

SAMPLES FROM: BRONSON CAMP  
COPY SENT TO: PAMICON DEVELOPMENTS LTD.

PREPARED FOR: MR. STEVE TODORUK



ANALYSED BY: VGC Staff

SIGNED: \_\_\_\_\_  
*[Signature]*

GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.

1630 PANDORA STREET  
VANCOUVER, BC V5L 1L1  
(604) 251-5656

**VGC VANGEOCHEM LAB LIMITED**

**MAIN OFFICE**  
~~1988 TRIUMPH ST.~~  
~~VANCOUVER, B.C. V6L 1K5~~  
● (604) 251-5656  
● FAX (604) 254-5717

**BRANCH OFFICES**  
PASADENA, N.F.L.D.  
BATHURST, N.B.  
MISSISSAUGA, ONT.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900502 GA

JOB NUMBER: 900502

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au
06539	ppb
06540	nd
06541	20
06542	20
	10

DETECTION LIMIT  
nd = none detected

5  
-- = not analysed

is = insufficient sample

1630 Pandora Street, Vancouver, B.C. V5L 1L6  
 Ph: (604) 251-5656 Fax: (604) 254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: Raymond L.

REPORT #: 900502 PA

PAMICON DEVELOPMENTS LTD.

PROJECT: JAZZMAN GER

DATE IN: SEPT 17 1990

DATE OUT: OCT 16 1990

ATTENTION: MR. STEVE TODORUK

PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
06539	0.4	2.23	<3	38	<3	1.07	1.0	24	140	133	6.76	0.24	0.37	200	13	0.11	9	0.03	<2	<2	11	142	<5	<3	24
06540	0.5	3.83	<3	79	<3	2.06	<0.1	12	102	140	3.23	0.20	0.30	291	108	0.12	10	0.07	<2	<2	12	280	<5	<3	29
06541	0.3	0.45	<3	11	<3	0.13	1.6	74	82	20	8.24	0.15	0.05	204	11	0.02	11	0.06	<2	10	9	7	<5	<3	25
06542	0.2	1.16	<3	79	<3	0.40	1.0	15	108	54	2.18	0.08	0.49	353	15	0.05	15	0.07	<2	<2	9	42	<5	<3	27
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000

< - Less Than Minimum    > - Greater Than Maximum    is - Insufficient Sample    ns - No Sample    ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

**GEOCHEMICAL ANALYTICAL REPORT**  
=====

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
ADDRESS: 711 - 675 W. Hastings St.  
: Vancouver, BC  
: V6B 1N4

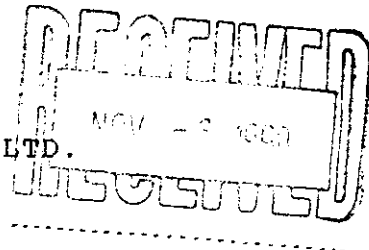
DATE: OCT 01 1990

REPORT#: 900600 GA  
JOB#: 900600

PROJECT#: JAZZMAN - GER  
SAMPLES ARRIVED: SEPT 27 1990  
REPORT COMPLETED: OCT 01 1990  
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900600 NA  
TOTAL SAMPLES: 4  
SAMPLE TYPE: 4 ROCK  
REJECTS: SAVED

SAMPLES FROM: BRONSON CAMP  
COPY SENT TO: PAMICON DEVELOPMENTS LTD.



PREPARED FOR: MR. STEVE TODORUK

ANALYSED BY: VGC Staff

SIGNED: \_\_\_\_\_

GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.

REPORT NUMBER: 900600 GA

JOB NUMBER: 900600

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au ppb
6543	> 10000
6544	1180
6545	120
6546	100

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

**ASSAY ANALYTICAL REPORT**  
=====

CLIENT: PAMICON DEVELOPMENTS LTD.  
ADDRESS: 711 - 675 W. Hastings St.  
          : Vancouver, BC  
          : V6B 1N4

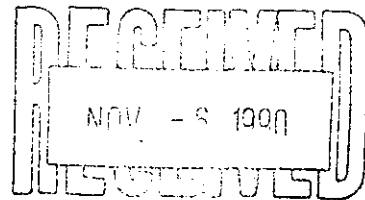
DATE: OCT 03 1990

REPORT#: 900600 AA  
JOB#: 900600

PROJECT#: JAZZMAN - GER  
SAMPLES ARRIVED: SEPT 27 1990  
REPORT COMPLETED: OCT 03 1990  
ANALYSED FOR: Au

INVOICE#: 900600 NA  
TOTAL SAMPLES: 1  
REJECTS/PULPS: 90 DAYS/1 YR  
SAMPLE TYPE: 1 ROCK

SAMPLES FROM: BRONSON CAMP  
COPY SENT TO: PAMICON DEVELOPMENTS LTD.



PREPARED FOR: MR. STEVE TODORUK

ANALYSED BY: Raymond Chan

SIGNED: *Raymond Chan*

-----  
Registered Provincial Assayer

GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.



REPORT NUMBER: 900600 AA

JOB NUMBER: 900600

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au oz/st
6543	.356

DETECTION LIMIT

.005

1 troy oz/short ton = 34.28 ppm

1 ppm = 0.0001%

ppm = parts per million

< = less than

signed: \_\_\_\_\_

*[Signature]*

# VANGEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6  
Ph: (604)251-5656 Fax: (604)254-5717

## ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Lyndal*

REPORT #: 900600 PA

PAMICON DEVELOPMENTS LTD.

PROJECT: JAZZMAN - GER

DATE IN: SEPT 27 1990

DATE OUT: NOV 2 1990

ATTENTION: MR. STEVE TODORUK

PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6543	12.0	0.15	1266	36	<3	0.04	7.3	2	293	131	6.70	0.04	0.07	69	4	0.12	10	<0.01	234	13	<2	6	<5	<3	969
6544	9.6	0.95	471	5	<3	0.20	6.5	14	181	54	>10.00	0.21	0.47	327	9	0.12	7	0.04	936	9	<2	41	<5	<3	379
6545	1.5	2.79	<3	27	<3	0.88	3.0	37	98	42	4.99	0.18	1.88	1124	14	0.09	21	0.13	14	<2	<2	97	<5	<3	162
6546	12.3	0.86	41	105	<3	4.24	3.3	30	87	3038	4.64	0.29	1.15	1371	11	0.08	5	0.07	34	<2	<2	182	<5	<3	143
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000
< - Less Than Minimum	) - Greater Than Maximum    is - Insufficient Sample    ns - No Sample    ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.																								

**RECEIVED**  
 NOV - 6 1990

**GEOCHEMICAL ANALYTICAL REPORT**

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
ADDRESS: 711 - 675 W. Hastings St.  
: Vancouver, BC  
: V6B 1N4

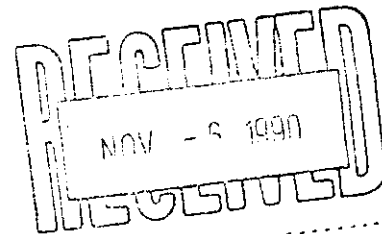
DATE: OCT 03 1990

REPORT#: 900616 GA  
JOB#: 900616

PROJECT#: JAZZMAN GER  
SAMPLES ARRIVED: OCT 01 1990  
REPORT COMPLETED: OCT 03 1990  
ANALYSED FOR: Au ICP

INVOICE#: 900616 NA  
TOTAL SAMPLES: 18  
SAMPLE TYPE: 18 SOIL  
REJECTS: DISCARDED

SAMPLES FROM: BRONSON CAMP  
COPY SENT TO: PAMICON DEVELOPMENTS LTD.



PREPARED FOR: MR. STEVE TODORUK

ANALYSED BY: VGC Staff

SIGNED: \_\_\_\_\_



GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.

REPORT NUMBER: 900616 GA

JOB NUMBER: 900616

PAMICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au ppb
L1450 000N	nd
L1450 025N	15
L1450 050N	10
L1450 075N	20
L1450 100N	20
L1450 125N	15
L1450 150N	nd
L1450 175N	10
L1450 200N	25
L1475 000N	10
L1475 025N	nd
L1475 050N	25
L1475 075N	20
L1475 100N	10
L1475 125N	25
L1475 150N	20
L1475 175N	nd
L1475 200N	25

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

# VANGEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6  
Ph: (604)251-5656 Fax: (604)254-5717

## ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Myndra*

REPORT #: 900616 PA

PANICON DEVELOPMENTS LTD.

PROJECT: JAZZMAN GER

DATE IN: OCT 01 1990

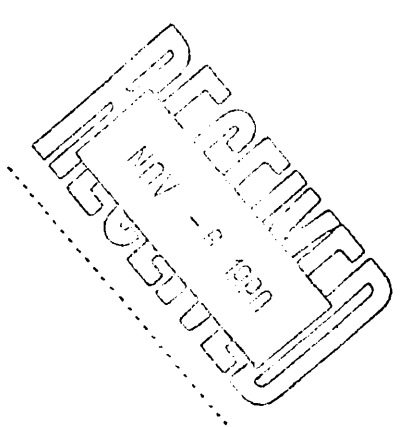
DATE OUT: NOV 2 1990

ATTENTION: MR. STEVE TODORUK

PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L1450 000N	0.6	5.19	<3	53	<3	0.11	1.6	30	32	76	6.55	0.16	0.48	4109	15	0.11	28	0.07	<2	<2	<2	7	<5	<3	175
L1450 025N	0.7	4.15	<3	123	<3	0.19	2.1	24	63	40	5.76	0.12	0.99	2669	14	0.06	38	0.08	<2	<2	<2	21	<5	<3	129
L1450 050N	1.8	3.24	<3	190	<3	0.20	1.7	25	71	54	5.35	0.12	1.14	4178	14	0.05	54	0.09	57	<2	<2	27	<5	<3	155
L1450 075N	1.0	4.80	<3	146	<3	0.20	1.4	27	43	108	6.89	0.18	1.48	1766	15	0.08	32	0.14	<2	<2	<2	30	<5	<3	181
L1450 100N	0.8	4.88	<3	352	<3	0.23	2.2	42	44	122	9.04	0.29	1.84	2665	19	0.12	23	0.21	<2	<2	<2	42	<5	<3	146
L1450 125N	0.7	4.73	<3	209	<3	0.18	2.0	34	46	109	6.59	0.17	1.27	2156	16	0.09	36	0.12	<2	<2	<2	29	<5	<3	175
L1450 150N	0.6	4.43	<3	137	<3	0.22	1.9	27	35	71	5.24	0.13	0.82	2070	11	0.09	20	0.08	<2	<2	<2	28	<5	<3	236
L1450 175N	0.7	1.65	<3	50	<3	0.16	1.0	10	20	15	1.97	0.04	0.65	532	9	0.04	2	0.09	<2	<2	<2	24	<5	<3	55
L1450 200N	0.7	3.84	<3	31	<3	0.06	1.7	8	26	22	5.11	0.09	0.32	671	12	0.08	<1	0.07	<2	<2	<2	7	<5	<3	71
L1475 000N	0.9	3.33	<3	89	<3	0.12	1.5	16	30	38	5.23	0.10	0.80	2132	10	0.06	8	0.06	26	<2	<2	21	<5	<3	197
L1475 025N	0.7	2.91	<3	84	<3	0.15	1.0	21	30	46	5.42	0.12	0.65	2499	15	0.07	10	0.07	35	<2	<2	29	<5	<3	173
L1475 050N	1.6	2.88	<3	168	<3	0.23	3.0	29	29	52	5.67	0.14	0.89	6931	14	0.06	10	0.09	63	<2	<2	32	<5	<3	137
L1475 075N	1.0	4.11	<3	205	<3	0.11	2.7	25	123	58	6.18	0.19	1.84	2419	33	0.06	80	0.07	<2	<2	<2	17	<5	<3	141
L1475 100N	0.8	4.94	<3	123	<3	0.13	1.7	38	46	103	7.00	0.18	1.25	3545	18	0.09	27	0.10	<2	<2	<2	33	<5	<3	188
L1475 125N	0.3	4.02	<3	281	<3	0.37	2.0	33	34	82	7.13	0.21	1.53	1281	13	0.17	18	0.18	<2	<2	<2	74	<5	<3	135
L1475 150N	0.5	4.69	<3	154	<3	0.10	1.2	20	40	49	5.76	0.13	1.24	1082	13	0.06	4	0.10	<2	<2	<2	28	<5	<3	109
L1475 175N	0.3	4.48	<3	676	<3	0.29	1.8	29	12	46	4.34	0.19	2.04	1082	10	0.05	<1	0.16	<2	<2	<2	45	<5	<3	104
L1475 200N	0.7	4.67	<3	168	<3	0.14	2.2	51	21	111	7.14	0.17	1.05	2561	11	0.07	13	0.15	<2	<2	<2	27	<5	<3	122

Minimum Detection      0.1   0.01   3   1   3   0.01   0.1   1   1   1   0.01   0.01   0.01   1   1   0.01   1   0.01   2   2   2   1   5   3   1  
 Maximum Detection      50.0   10.00   2000   1000   1000   10.00   1000.0   20000   1000   1000   20000   10.00   10.00   10.00   20000   1000   10.00   20000   10.00   20000   2000   1000   10000   100   1000   20000  
 < - Less Than Minimum    > - Greater Than Maximum    is - Insufficient Sample    ns - No Sample    ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.



**GEOCHEMICAL ANALYTICAL REPORT**  
=====

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
**ADDRESS: 711 - 675 W. Hastings St.**  
**: Vancouver, BC**  
**: V6B 1N4**

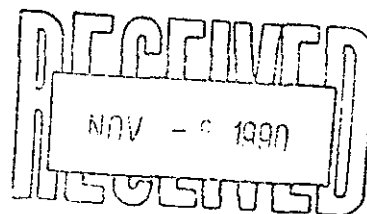
**DATE: OCT 18 1990**

**REPORT#: 900665 GA**  
**JOB#: 900665**

**PROJECT#: JAZZMAN - GER**  
**SAMPLES ARRIVED: OCT 11 1990**  
**REPORT COMPLETED: OCT 18 1990**  
**ANALYSED FOR: Au (FA/AAS) ICP**

**INVOICE#: 900665 NA**  
**TOTAL SAMPLES: 6**  
**SAMPLE TYPE: 6 ROCK**  
**REJECTS: SAVED**

**SAMPLES FROM: BRONSON CAMP**  
**COPY SENT TO: PAMICON DEVELOPMENTS LTD.**



**PREPARED FOR: MR. STEVE TODORUK**

**ANALYSED BY: VGC Staff**

**SIGNED: \_\_\_\_\_**  
*[Handwritten signature]*

**GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.**

# VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1630 PANDORA STREET  
VANCOUVER, B.C.  
V5L 1L6  
TEL (604) 251-5656  
FAX (604) 254-5717

BRANCH OFFICES  
BATHURST, N.B.  
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900665 GA

JOB NUMBER: 900665

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1.

SAMPLE #	Au ppb
6601	2080
6602	180
6547	1400
6548	3800
6549	1360
6550	100

DETECTION LIMIT  
nd = none detected

5  
-- = not analysed

is = insufficient sample

**ASSAY ANALYTICAL REPORT**  
=====

**CLIENT: PAMICON DEVELOPMENTS LTD.**  
ADDRESS: 711 - 675 W. Hastings St.  
: Vancouver, BC  
: V6B 1N4

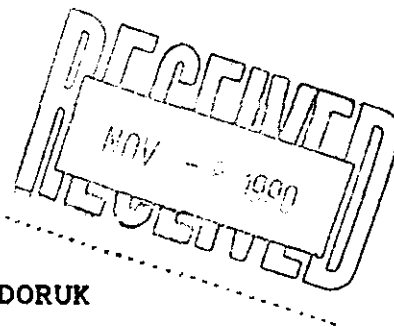
DATE: OCT 18 1990

REPORT#: 900665 AA  
JOB#: 900665

PROJECT#: JAZZMAN - GER  
SAMPLES ARRIVED: OCT 11 1990  
REPORT COMPLETED: OCT 18 1990  
ANALYSED FOR: Au

INVOICE#: 900665 NA  
TOTAL SAMPLES: 2  
REJECTS/PULPS: 90 DAYS/1 YR  
SAMPLE TYPE: 2 ROCK

SAMPLES FROM: BRONSON CAMP  
COPY SENT TO: PAMICON DEVELOPMENTS LTD.



PREPARED FOR: MR. STEVE TODORUK

ANALYSED BY: Raymond Chan

SIGNED: \_\_\_\_\_

Registered Provincial Assayer

GENERAL REMARK: RESULTS FAXED TO MR. DONALD PENNER & BRONSON CAMP.



REPORT NUMBER: 900665 AA

JOB NUMBER: 900665

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au oz/st
6601	.054
6548	.108

DETECTION LIMIT

.005

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.0001%

ppm = parts per million

< = less than

signed: \_\_\_\_\_

*Raymond L.*

1630 Pandora Street, Vancouver, B.C. V5L 1L6  
 Ph: (604) 251-5656 Fax: (604) 254-5717

ICAP GEOCHEMICAL ANALYSIS

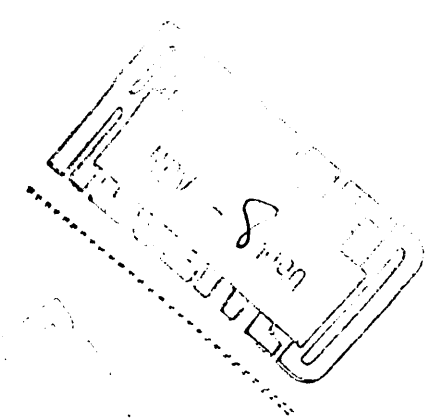
A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Agard*

REPORT #: 900665 PA PAMICON DEVELOPMENTS LTD. PROJECT: JAZZMAN - GER DATE IN: OCT 11 1990 DATE OUT: NOV 07 1990 ATTENTION: MR. STEVE TODDRUK PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6601	6.9	0.07	231	40	<3	0.09	2.6	10	205	39	3.86	0.01	0.02	57	13	0.02	9	<0.01	261	31	<2	9	<5	<3	96
6602	1.2	1.88	<3	18	<3	1.32	2.3	56	76	50	>10.00	0.28	0.76	695	10	0.08	5	<0.01	<2	<2	<2	219	<5	<3	44
6547	6.2	0.29	451	59	<3	0.18	3.9	10	188	118	8.71	0.11	0.07	88	16	0.05	<1	0.01	92	15	<2	44	<5	<3	16
6548	5.2	0.33	1117	24	<3	0.13	6.8	19	171	133	9.72	0.15	0.08	63	5	0.06	<1	<0.01	144	18	<2	24	<5	<3	33
6549	3.0	0.33	324	50	<3	0.28	2.6	16	260	39	5.61	0.05	0.05	93	18	0.03	<1	<0.01	179	13	<2	62	<5	<3	17
6550	0.4	3.55	<3	35	<3	0.68	0.2	54	160	26	7.78	0.19	2.93	1655	19	0.05	14	0.06	<2	<2	<2	70	<5	<3	101
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	10000	100	1000	20000	

< - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.



IMPRIME AU CANADA

**APPENDIX V**

**ROCK SAMPLE DESCRIPTION FORMS**

**PAMICON DEVELOPMENTS LIMITED**

**Geochemical Data Sheet - ROCK SAMPLING**

Sampler N. De Rock + Bob + Luke Project Jazzman Ger  
 Date Aug 22 + 23 Property Ger 1-3

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

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Al ppm	As %	Ag ppm	Cu ppm		
0.6501	Ger 1	Grab	10cm	Qtz	Limy	-	180' 10cm x 4cm	nd	-	0.2	81		
6502	"	"	30cm	Arg shales	✓	Pyr	4380'	nd	-	1.0	35		
6503	"	"	"	"	"	"	" Same	nd	-	0.3	12		
Aug 23													
6504		Grab	30cm	Slt stn	Limy	Magt Pyr	5400' on E. ridge crest	70	-	0.3	137		
6505		"	"	"	"	"	"	60	-	0.9	137		
6506		"	"	Slt stn	Limy	Magt Pyr.	5360' on E ridge crest	50	-	0.3	75		
6507		"	"	Slt stn schist	"	Pyr	5350'	220	-	0.4	32		
6508		"	"	Qtz	"	"	5270'	380	-	0.2	32		
6509		"	"	"	"	"	"	40	-	0.1	14		
6510		"	"	"	"	"	5180' 1010' 30cm x 8cm	10	-	0.1	18		
6511	"	"	"	"	"	"	" " Same	nd	-	0.1	3		
6512	"	"	"	Slt stn	"	"	4940' 2m x 3m	1360	-	0.8	65		
6513		"	"	QU	limonite	pyrite	10-30 cm true width = QU	7800	0.224	5.0	76		
6514		"	30cm	Qtz	"	Pyr	50cm x 20cm Same	370	-	3.9	21		
6515	"	"	"	"	"	"	"	70	-	0.1	5		
6516		"	"	"	"	"	"	1360	-	7.3	36		
6517		"	"	Qtz	"	"	5cm x 3m 4550' W side E ridge	3500	0.044	0.8	11		

**PAMICON DEVELOPMENTS LIMITED**

**Geochemical Data Sheet - ROCK SAMPLING**

Sampler Neil + Luke  
Date Aug 26 '90

Project Jazzman Ger  
Property Ger 1-3

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

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au Feb 20	Au 97	Ag Mar 8	Cu Apr 8	Ag 97	
06518	1335m	Grab		Silicified Intrusive	Silice	3% Py + Phyr	5m x 25m alteration zone 170/62G	20	-	<0.1	8	-	
6519	"	"		"	Silice	"	Sheared + Silicified	nd	-	<0.1	7	-	
6520	"	"		"	Silice	"		nd	-	0.5	16	-	
6521	3630'	Grab	30cm	Shr	Limy	Py	N 350° 45° E 30cm x 25cm in alteration zone.	nd	-	0.3	42	-	
6522	1385m	Grab		Silicified Intrusive	Silice	Py + Phyr	Marked 6530 in field.	nd	-	<0.1	7	-	
6523	1420m	Grab		"	"	"	Marked 6529 in field	10	-	<0.1	23	-	
6524	3730'	Grab	30cm	lonstr	limy	Py	5m x 10m + Steep.	50	-	1.8	459	-	
6525	"	"	"	"	"	Py + Mag Fe		50	-	2.2	2082	-	
6526					"	Fe		130	-	0.8	113	-	
6527					"	Fe	All float from below East ridge Gossen.	60	-	3.6	773	-	
6528					"	Fe		40	-	6.5	3363	-	
6529					"	Fe		180	-	20.8	1901	-	
6530					"	Fe		100	-	3.0	2025	-	
6531					"	Fe		750	-	50.0	2131	1.64	
06532	Upper level Bolt 1500	Grab		Meta Andesite	Silice	Py + Phyr + mm	30cm calcite vein 035/40 exposed for 1.5m.	150	-	37.0	22006 270%	-	
06533	" " 1500	Grab	58cm 5cm	Q.V.	Silice	Pyrite.	Vein trends 020/80E	650	-	1.4	312	-	
06534	Adj to 06533	Grab		Meta Andesite	Silice	Pyrite	20% to 4% py + 0.5cm quartz stringers	530	-	12.5	71	-	
06535	1445m	Grab		Silicified Intrusive	Silice	Pyrite + Phyr	10m altered zone on bluffs 15cm strong silicified shear 310/55E	100	-	3.6	51	-	
06536	1435m	Grab		Silicified Intrusive	Silice	Pyrite locally 30%	15m x 8m alteration zone.	600	-	0.7	99	-	











**PAMIC I  
DEVELOPMENTS LIMITED**

**Geochemical Data Sheet - SOIL SAMPLING**

Sampler E.G. Munroe  
Date Sept 26/90

Project \_\_\_\_\_  
Property Jazzman GER

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

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS			
				Colour	Texture	Drainage				As	Ag	Cu	
00N	L1475	30cm	B	DB	Fine	DRY	50°	ALPINE	- very steep	As 10	Ag 0.9	Cu 38	
25 N	"	30cm	B	DB	"	"	50°	"	ALPINE	nd	0.7	46	
50 N	"	25cm	B	DB	COARSE	"	50°	"		25	1.6	52	
75 N	"	30cm	B	LB	Fine	"	50°	"	- elevation 1475m	20	1.0	58	
100 N	"	25cm	B	RB	"	"	50°	"	00N → 200N	10	0.8	103	
125 N	"	35cm	B	LB	COARSE	"	50°	"		25	0.3	82	
150 N	"	35	B	RB	Fine	"	50°	"		20	0.5	49	
175 N	"	40	B	B	COARSE	"	50°	"		nd	0.3	46	
200N	"	25	B	DB	COARSE	"	50°	"		25	0.7	111	

- Station 200N  
located  
below trench  
0.270

**PAMIC DEVELOPMENTS LIMITED**

**Geochemical Data Sheet - SOIL SAMPLING**

Sampler E.G. Munroe  
Date Sept 26/90

Project \_\_\_\_\_  
Property JAZZMAN GER

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

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage				Au ppm	Ag ppm	Cu ppm			
00 N	11450	35cm	B	RB	Fine	DRY	50°	Alpine	- very steep	nd	0.6	76			
25 N	"	30	B	DB	"	"	50°	"	Alpine	15	0.7	40			
50 N	"	30	B	DB	COARSE	"	50°	"		10	1.8	54			
75 N	"	30	B	DB	"	"	50°	"		20	1.0	108			
100 N	"	40	B	RB	"	"	50°	"		20	0.8	122			
125 N	"	25	B	RB	Fine	"	45°	"		15	0.7	109			
150 N	"	40	B	DB	COARSE	"	40°	"		nd	0.6	71			
175 N	"	30	B	DB	"	"	40°	"		10	0.7	15			
200 N	"	25	B	DB	"	"	20°	"		25	0.7	22			
									- STAT. 200 N						
									located						
									below 0.270						
									Trench just SE.						
									AT 1450 m.						
									elevation						

**APPENDIX VI**

**STATEMENT OF QUALIFICATIONS**

STATEMENT OF QUALIFICATIONS

I, STEVE L. TODORUK, of 5700 Surf Circle, 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 generated by myself, under the direction of Charles K. Ikona, Professional Engineer.
6. THAT I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to receive any such interest.
7. THAT I hereby grant permission to Jazzman Resources Inc. for the use of this report in a Prospectus or Statement of Material Facts or any other such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at Vancouver, B.C., this 5<sup>th</sup> day of March, 1991.



Steve L. Todoruk, Geologist

**APPENDIX VII**

**ENGINEER'S CERTIFICATE**

ENGINEER'S CERTIFICATE

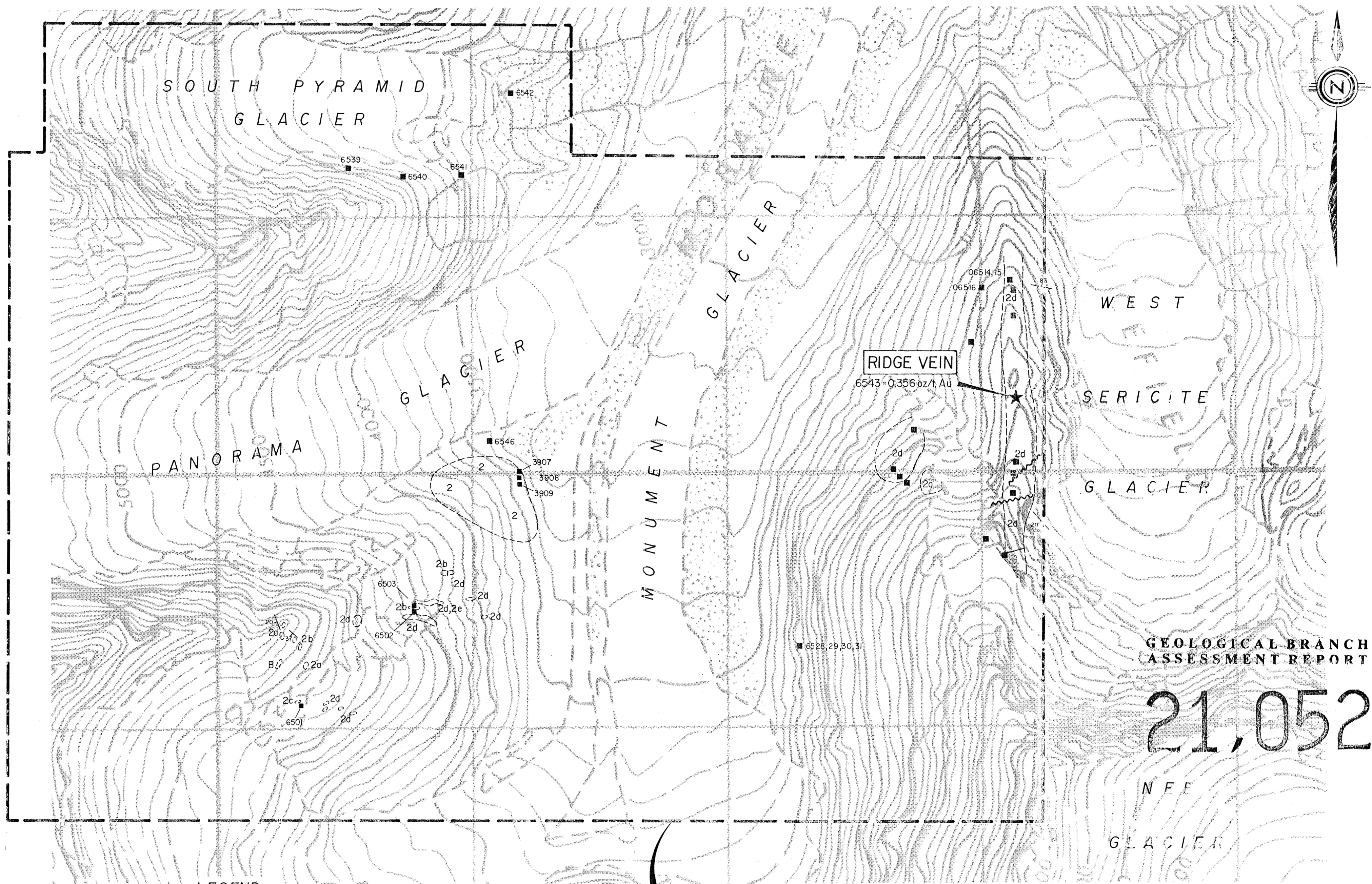
I, CHARLES K. IKONA, of 5 Cowley Court, Port Moody, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Mining Engineer 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 degree in Mining Engineering.
3. THAT I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. THAT this report is based on work conducted under my direction in 1988 and on extensive knowledge of the immediate area.
5. THAT I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to receive any such interest.
6. THAT I consent to the use by Jazzman Resources Inc. of this report in a Prospectus or Statement of Material Facts or any other such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at Vancouver, B.C., this 2<sup>nd</sup> day of MAR, 1991.



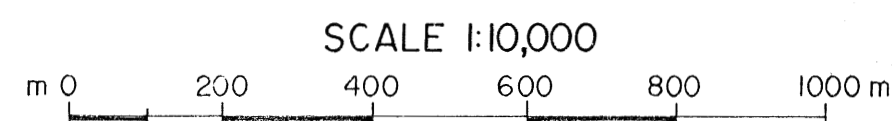
Charles K. Ikona, P.Eng.



**LEGEND**

- 2a ANDESITE TUFFS, LOCALLY BEDDED
- 2b ARGILLITES, WELL BEDDED, LOCALLY PYRITIFEROUS
- 2c SCHISTOSE GARNETIFEROUS GREYWACKE
- 2d METAGREYWACKE, METASILTSTONE
- INTRUSIVES**
- B GABBRO
- STRONGLY GOSSANOUS ZONE OF PYRITE ± SILICIFICATION  
± SERICITE ± CARBONATE ± CLAY

APPROXIMATE  
CLAIM BOUNDARY



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,052

N E E

GLACIER

JAZZMAN RESOURCES INC.

GER 1-3 CLAIMS  
PROPERTY GEOLOGY &  
ROCK SAMPLE  
LOCATION MAP

CLARD MINING DIVISION, B.C.

PAMICON DEVELOPMENTS LTD.

DRAWN J.W.	N.T.S. 104B/11	DATE MARCH, 1991	FIG. 6
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