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ACTION:

FILE NO:

1990 SUMMARY REPORT
ON THE
GAB 6 MINERAL CLAIM
FOR
THUMPER RESOURCES CORP.

Located in the Iskut River Area
Liard Mining Division
British Columbia
NTS 104B/15W

56°51' North Latitude
130°52' West Longitude

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

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,151

March, 1991

GEOLOGICAL REPORT on the GAB 6 MINERAL CLAIM

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1.0 INTRODUCTION

During August to September, 1991 at the request of Thumper Resources Ltd., Pamicon Developments Ltd. carried out a small field exploration program on the Gab 6 mineral claim (20 units). Activity included geological mapping, prospecting and soil geochemistry sampling.

The Gab 6 claim is situated 3.5 kilometres east of Gulf International Minerals' Northwest Zone Au-Ag skarn project. That company has directed in excess of \$2,000,000 toward evaluating their property between 1987 and 1990. Also in the area, recent excitement has been centred on Thios Resources Inc./Eurus Resource Corp.'s polymetallic Black Dog massive sulphide prospect located 27 km to the southwest just west of the Snip and Johnny Mountain gold mines.

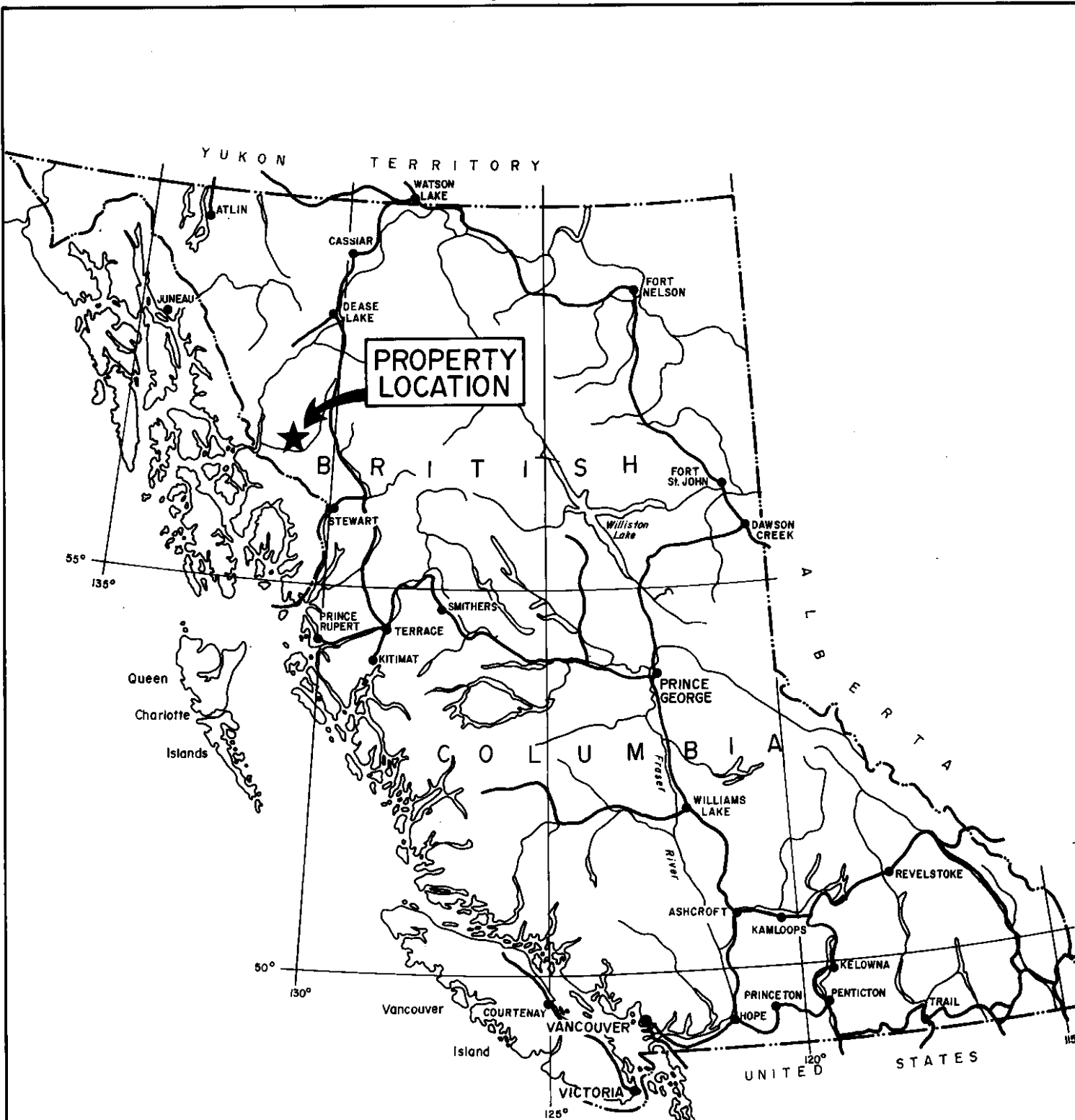
Recent government geological re-interpretation of stratigraphy in the Gab 6 claim area are now inferring the age of many of the rocks to be Jurassic as opposed to Paleozoic as initially believed. This thinking now places stratigraphy here as possibly correlative to that which hosts the Eskay Creek massive sulphide deposit 35 km to the southeast.

2.0 LIST OF CLAIMS

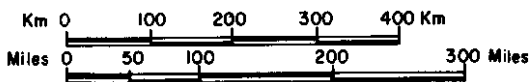
Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the following claim (Figure 2) is owned by Thumper Resources Corp.

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
Gab 6	3831	20	December 22, 1986	December 22, 1992

The legal corner post of the Gab 6 claim was inspected and appears to be as recorded.



THUMPER RESOURCES CORP.			
GAB 6 CLAIM			
PROPERTY LOCATION MAP			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN. J.W.	N.T.S. 104 B/15	DATE. MARCH, 1991	FIGURE. 1



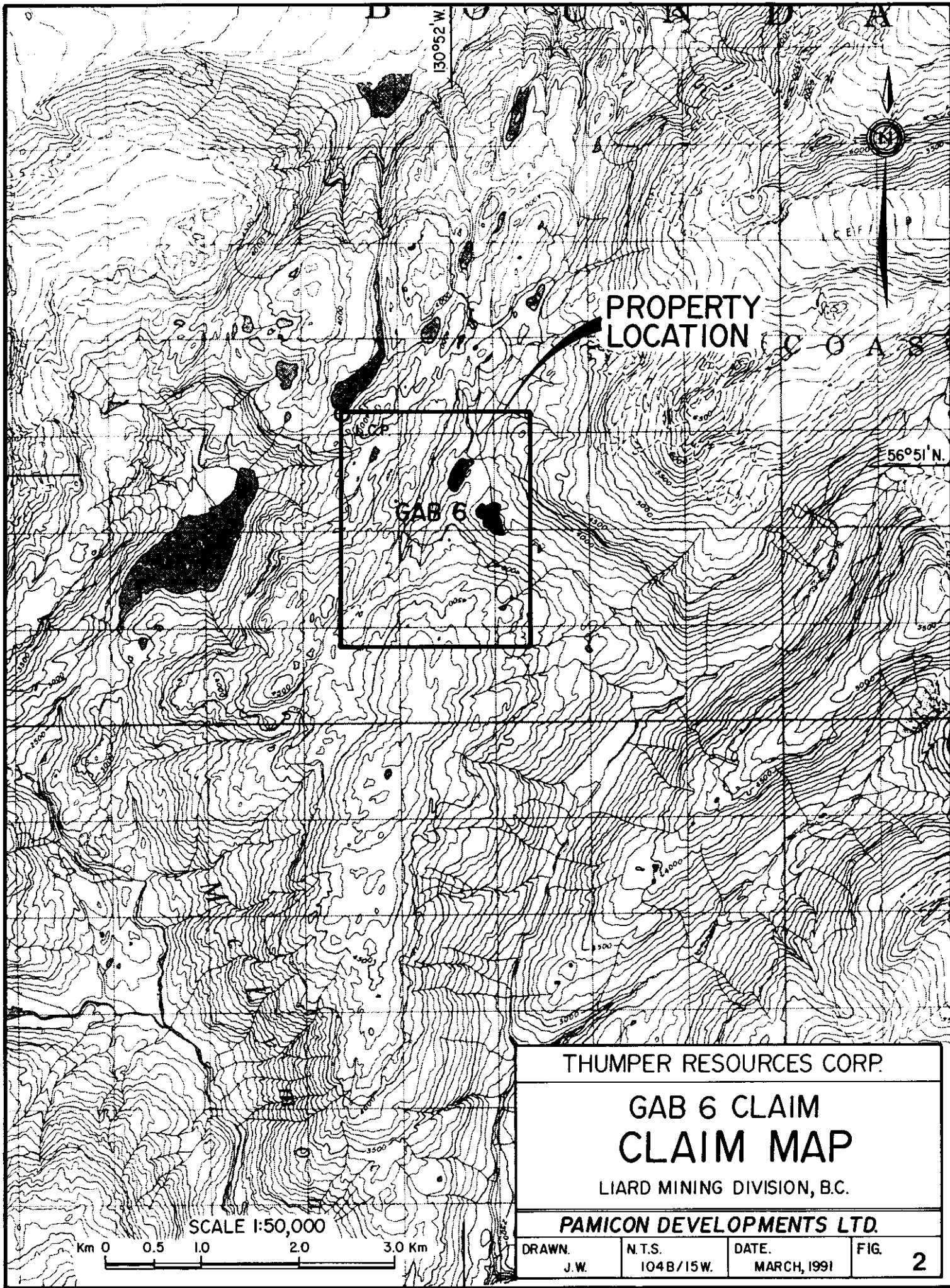
3.0 LOCATION, ACCESS AND GEOGRAPHY

The Gab 6 claim is located approximately 100 kilometres east of Wrangell, Alaska, and 115 kilometres northwest of Stewart, British Columbia, on the eastern edge of the Coast Range Mountains (Figure 1). Newmont Lake is situated 1 km west of the claim boundary and the Iskut River 15 kilometres to the south of the Gab 6 claim.

Coordinates of the claims area are 56°51' north latitude and 130°52' west longitude, and the property falls under the jurisdiction of the Liard Mining Division.

Access to the Gab 6 claim would be via fixed wing aircraft from Wrangell, Alaska or Smithers, British Columbia to either the Forrest Kerr gravel airstrip 10 kilometres northeast of the Gab 6 claim or the Bronson Creek gravel airstrip located 22 kilometres southwest from the claim. From these gravel airstrips, helicopter support is needed to reach the Gab 6 mineral claim. In addition, the Bob Quinn gravel airstrip is located 40 kilometres to the northeast on Highway 37 at Kilometre 139. Access to the property by helicopter or fixed wing can also be accomplished from this airstrip.

Geographically, the area is typical of mountainous and glaciated terrain with the elevations ranging from 700 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.



PROPERTY
LOCATION

GAB 6

THUMPER RESOURCES CORP.

GAB 6 CLAIM
CLAIM MAP

LIARD MINING DIVISION, B.C.

PAMICON DEVELOPMENTS LTD.

SCALE 1:50,000
Km 0 0.5 1.0 2.0 3.0 Km

DRAWN. J.W.	N.T.S. 104B/15W.	DATE. MARCH, 1991	FIG. 2
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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.

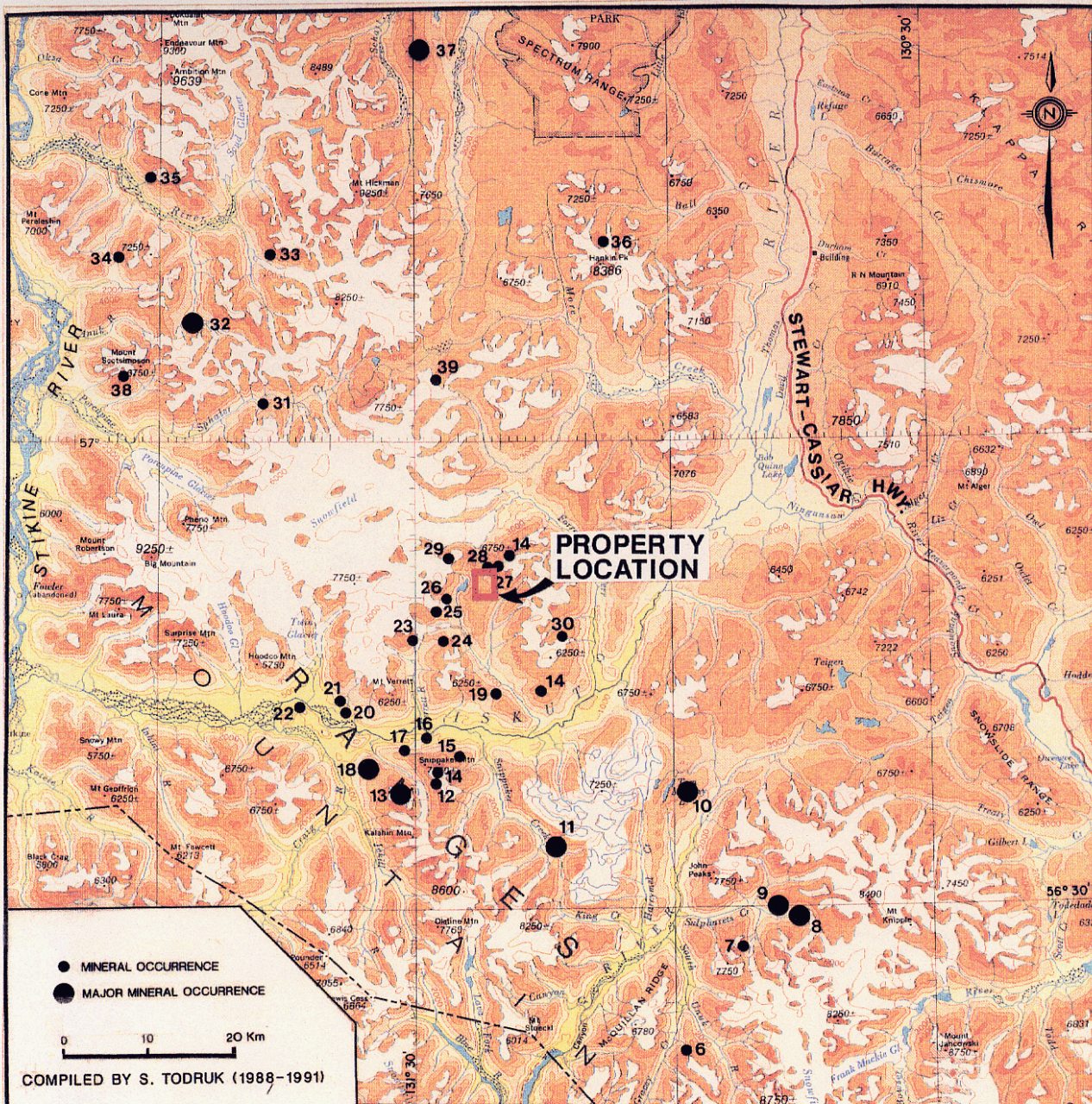
This area of approximately 10,000 square kilometres has historically been referred to as the Stikine Arch. Mining activity within it goes back to the turn of the century. Due to the large size of the region it has been referred to in more specific areas which range from the Stewart area to Sulphurets, 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 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



● MINERAL OCCURRENCE
 ● MAJOR MINERAL OCCURRENCE

0 10 20 Km

COMPILED BY S. TODRUK (1988-1991)

PROPERTY OWNER

1. Vestain Resources Ltd./Sibik Premier Mines
2. Vestain Resources Ltd./Tourmaline Mining Explorations Ltd.
3. Borama (Todd Creek Project)
4. Scottie Gold Mine
5. Grandec
6. Canadian Cariboo Resources/Magna Ventures/Silver Princess Resources (Boc Project)
7. Placer Dome Inc. (Kerr Project)
8. Calcutt Resources Ltd. (Gold Wedge Project)
9. Newmont/Granite (Sulphurets West Zone Project)
10. Prime/Erkine Resources Ltd. (Hazy Creek Project)
11. Consolidated Silver Standard Mines Ltd. (E & L Deposit)
12. Inel Resources Ltd.
13. Skyline Gold Corporation (Johnny Mountain Mine)
14. Kestrel Resources Ltd.
15. Hector Resources Inc./Mepheline Resources Ltd. (Golden Spray Vein)
16. Royal Day/Big M Petroleum
17. Winslow
18. Cominco/Prime Resource Corp. (Snip Deposit)
19. International Prisa Exploration Ltd.
20. Meridor Resources Ltd.
21. Prime Resource Corp./American Ore Ltd./Golden Band
22. Duran/Thins (Rock & Hail Project)
23. International Prisa Exploration Ltd.
24. Pezzold Resource Corp.
25. Sea Gold Resources Inc.
26. Gulf International Minerals Ltd. (Northwest Zone)
27. Consolidated Caprock Resources/Crimsonstar (Kerr Claims)
28. International Prisa Exploration Ltd.
29. International Prisa Exploration Ltd.
30. Avendale Resources Inc. (Forrest Project)
31. Pass Lake Resources Ltd./Morica Resources Ltd. (Trek Project)
32. Hudson Bay/Coninco/Kenoco (Galore Creek Deposit)
33. Continental Gold Corp./Giga Resources Ltd./Goldbelt Mines Ltd.
34. Bellex Resources Ltd./Sarabat Resources Ltd. (Jack Wilson Project)
35. Pass Lake Resources Ltd./Consolidated Goldwest Ltd. (JD Project)
36. Lac Minerals (Hankin Peak Project)
37. Schult Creek
38. Consolidated Silver Standard/Pacific Century Expl. (Paydirt Project)
39. Coninco (Foreman Project)

MINERAL RESERVES AND/OR ELEMENTS

- 6,100,000 tonnes 0.064 oz/ton Au, 1.35 oz/ton Ag
- 1,860,000 tonnes 0.09 oz/ton Au, 0.67 oz/ton Ag
- Au
- 10,890,000 tons 1.75 Cu
- 470,000 tons 0.21 oz/ton Au, 1.31 oz/ton Ag
- 66 million tons, .86% Cu, .010 oz/ton Au
- 375,000 tons 0.75 oz/ton Au, 1.0 oz/ton Ag
- 715,400 tons 0.43 oz/ton Au, 19.78 oz/ton Ag
- 4.16 million tons 0.17 oz/ton Au, 29.12 oz/ton Ag
- 3,200,000 tons 0.88% Ni, 0.60% Co
- Au, Ag, Cu, Pb, Zn
- 210,000 tons 0.45 oz/ton Au mined to August, 1990
- Au, Ag, Cu, Pb, Zn
- Au, Ag
- Au, Ag, Cu, Pb, Zn
- Au, Ag, Cu, Pb, Zn
- 1,032,000 tons 0.875 oz/ton Au
- Ag, Au
- Au
- Au, Ag, Cu
- Ag, Cu, Au
- Ag, Pb, Zn
- Cu, Au
- Au, Ag, Cu
- Cu, Au
- 125,000,000 tonnes 1.06% Cu, 0.397 g/t Au, 7.94 g/t Ag
- Au, Ag, Cu
- Au, Cu
- 910,000,000 tonnes 0.30% Cu, 0.020% Mo, 0.113 g/t Au, 0.992 g/t Ag
- 200,000 tons 0.120 oz/ton Au
- Au, Ag, Cu, Pb, Zn

THUMPER RESOURCES CORP.

GAB 6 CLAIM
Regional Mineral Occurrence Map

LIARD MINING DIVISION, B.C.

PAMICON DEVELOPMENTS LTD.

NTS: 103, 104 Date: MARCH, 1991 FIGURE: 3

- * 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 Lake Zone	Sulphurets	20,000,000	0.08		Note 3
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
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 September 1989 Bond International Gold Inc. announced initial drill results from their Red Mountain project. This project is located 20 kilometres east of Stewart. A 66 metre intersection on the Marc Zone reportedly graded 9.88 gm/tonne gold and 49.20 gm/tonne silver. On the Willoughby Gossan Zone a 20.5 metre intersection is reported as 24.98 gm/tonne gold and 184.2 gm/tonne silver.

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 zone to date has been drill tested along 600 metres of strike length.

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 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.

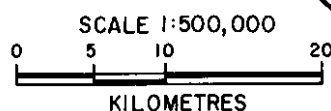
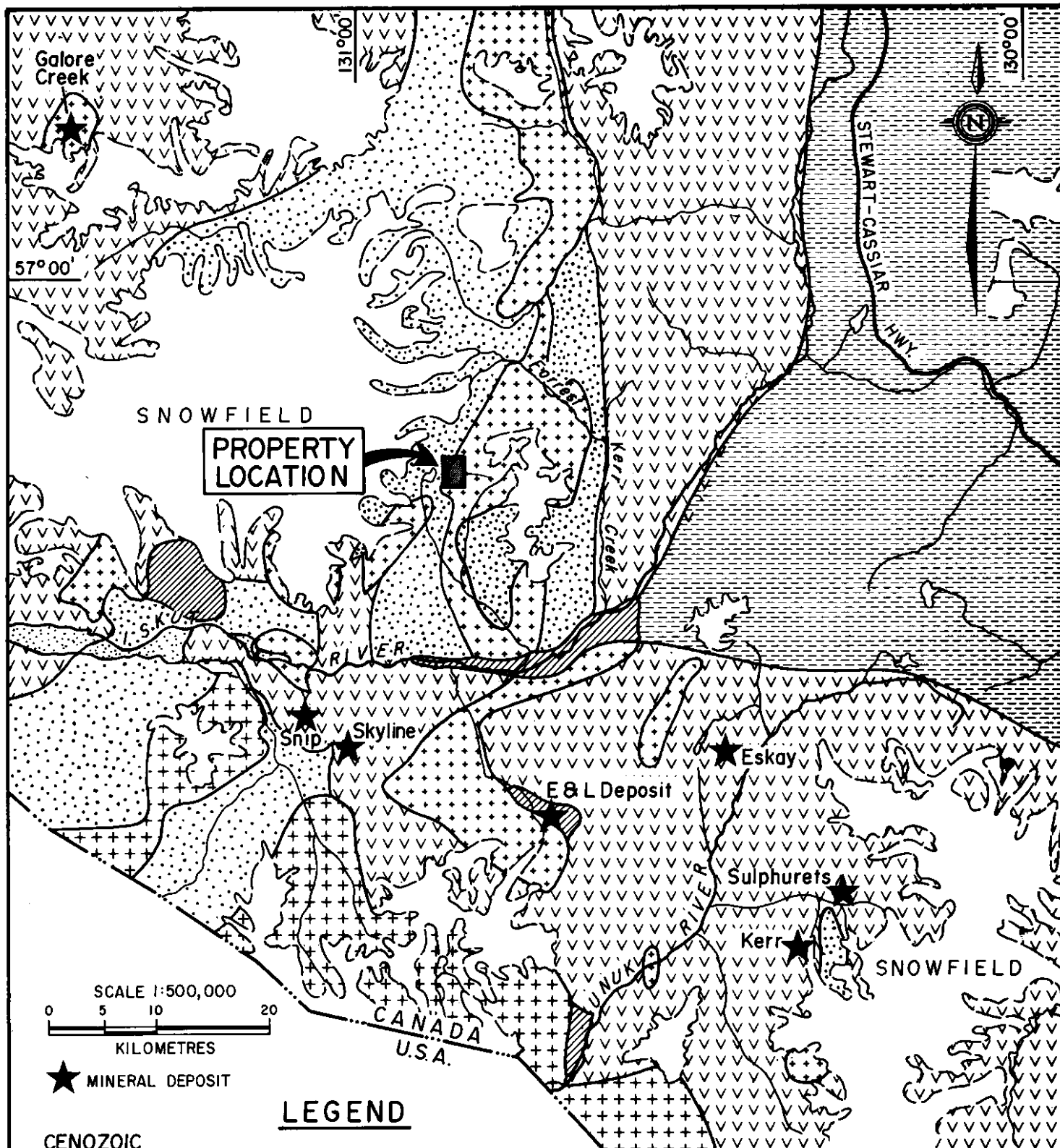
PALEOZOIC

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

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



★ MINERAL DEPOSIT

LEGEND

- CENOZOIC**
- Recent basalt flows
 - Early Tertiary felsic intrusives, primarily quartz monzonite
 - 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.

THUMPER RESOURCES CORP.			
GAB 6 CLAIM			
SIMPLIFIED REGIONAL GEOLOGY			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
Drawn. J.W.	N.T.S. 103,104	Date. March, 1991	FIG. 4

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-; and from Pamicon Developments Ltd. field maps.

Stratigraphy of the Iskut River Area
(after descriptions by R.G. Anderson and J.M. Logan)

Stratigraphy	Lithology	Comments
BOWSER GROUP		
M. Jurassic	conglomerate, siltstone, sandstone, shale	Successor basin
—gradational to unconformable—		
SPATSIZI GROUP		
L. Jurassic	shale, tuff, limestone	
—unconformable—		
HAZELTON GROUP		
E. Jurassic	coeval alkalic/calc-alkalic	contractional event? Island Arc rocks
—gradational to unconformable—		
STUHINI GROUP		
L. Triassic	intrusions; mafic volcanic rocks in the east, bimodal in the west	extensional in western area
	polymictic conglomerate basaltic to andesitic volcanics (plagioclase and hornblende)	no Triassic clasts; limestone clasts common
M. Triassic	sedimentary rocks	
—unconformable—		
—contractional event—		
STIKINE ASSEMBLAGE		
Permian	thin bedded coralline to crystalline limestone (over 1000 m thick), fossiliferous; intermediate flows and volcanoclastics	volcanic units resemble Hazelton Group rocks
E. Permian	rusty argillite	
—unconformable—		
	'siliceous' turbidite, felsic lapilli tuff	extensional event
Missis- sippian	mafic meta- volcanics and metasediments	upper coralline limestone and conglomerate lower limestone with tuff layers
—unconformable—		
E. Devonian	limestone; intermediate to felsic volcanics	contractional events; rocks highly deformed

Plutonic Rocks - Coast Plutonic Complex

L. Tertiary	granodiorite, diorite, basalt
—intrusive contacts—	
E. Tertiary	quartz diorite, granodiorite, quartz monzonite, feldspar porphyry, granite
—intrusive contact—	
M. Jurassic	quartz monzonite, feldspar porphyry, syenite
—intrusive contact—	
L. Jurassic	diorite, syenodiorite, granite
—intrusive contact—	
L. Triassic	diorite, quartz diorite, granodiorite
? Not determined	quartz diorite, ?

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

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 import-

ance 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

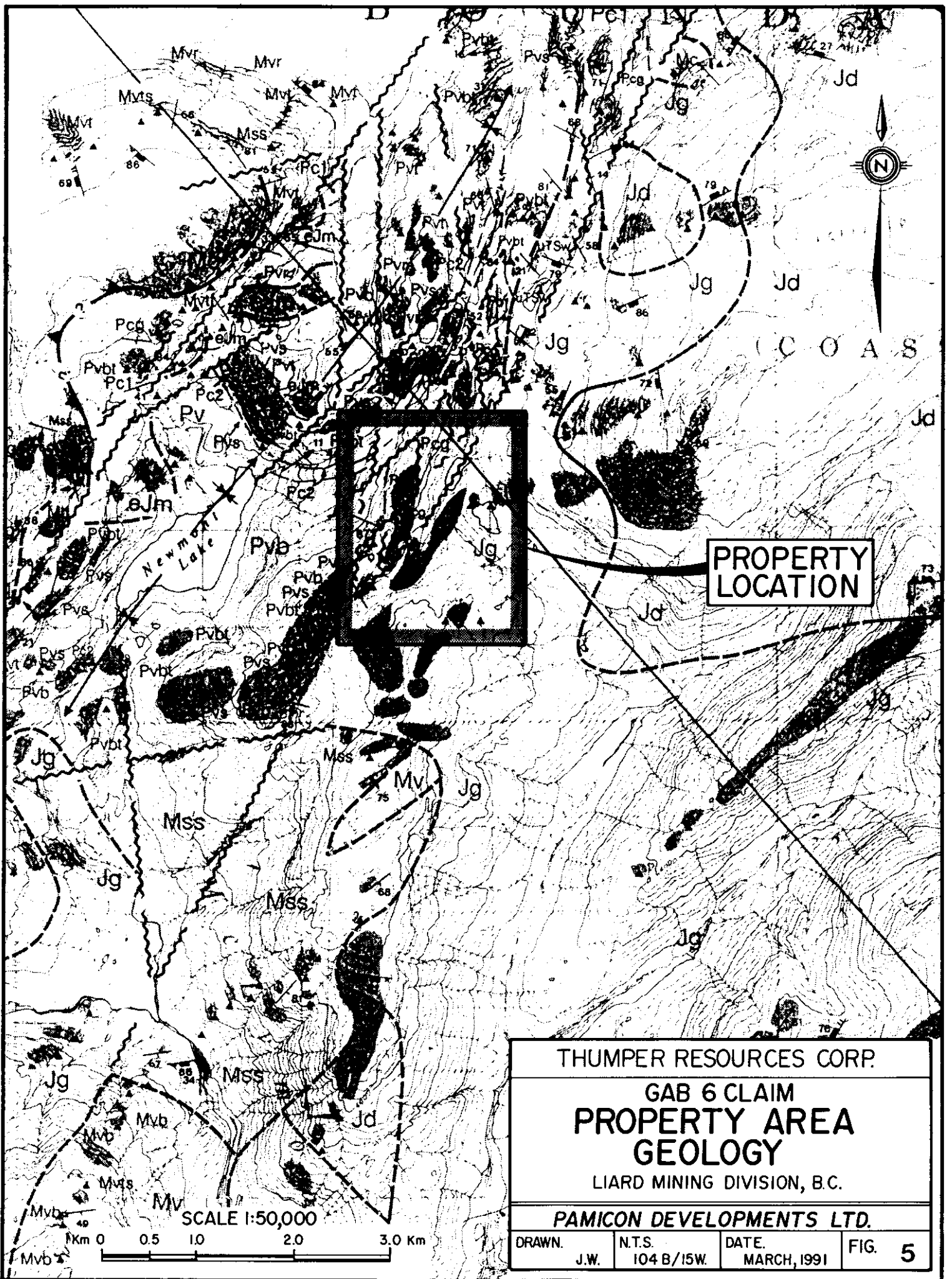
The Coast Plutonic Complex, forming the western boundary of the Stewart Complex, is generally characterized by felsic Tertiary plutons. Late Triassic Stuhini Group and Early Jurassic Hazelton Group plutonic styles suggest coeval and cospatial relationships with surrounding volcanics via distinctive porphyritic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

6.0 PROPERTY GEOLOGY

A general understanding of the geology in the claims area is taken from provincial government geological mapping carried out in 1989 (Open File 1990-2 by J.M. Logan, V.M. Koyanagi, J.R. Drobe) (Figure 5). More recent work by the BCMEMPR consisting chiefly of fossil age dating has indicated that a structural package marked by the McLymont Fault on the west and a similarly prominent northeast trending structural lineament 3 km to the east defines what is now termed the McLymont Graben. This graben is portrayed as a broad synform from which at its lowest topographical elevation south of Newmont Lake has yielded latest Upper Triassic aged conodonts.

Northward, on the north-northeast shores of Newmont Lake, a thick succession of crystal tuffs, volcanic sandstone, dark grey to black algal limestone and andesite breccia flows occurs from which more than ten attempts were made at various locations to retrieve conodonts or radiolarian fossils for age dating purposes. No noticeable fossils were present suggesting this package of rocks signifies an age of early Jurassic (pers. comm. J.M. Logan, BCMEMPR) and consequently correlative to rocks of the Betty Creek Formation seen elsewhere in the Iskut River Camp to the east.

Also found higher up section and to the north are rocks of felsic volcanic composition and again are being contemplated as correlative to the Mount Dillworth Formation which is spatially associated with the world class



PROPERTY
LOCATION

THUMPER RESOURCES CORP.

GAB 6 CLAIM
PROPERTY AREA
GEOLOGY

LIARD MINING DIVISION, B.C.

PAMICON DEVELOPMENTS LTD.

DRAWN.	N.T.S.	DATE.	FIG.
J.W.	104 B/15W.	MARCH, 1991	5

LEGEND

QUATERNARY

- Rv** RECENT VOLCANICS
- Qal** TILL, ALLUVIUM

LAYERED ROCKS

MIDDLE TO UPPER JURASSIC BOWSER LAKE GROUP

- Jbp** FLANK BEDDED SHALE AND LOCALLY CROSSBEDDED SANDSTONE TURBIDITE COUPLETS
- Jbog** CHERT PEBBLE TO GRAWULE CONGLOMERATE

JURASSIC

- Ju** UNWIDED SEDIMENTS AND VOLCANICS
- Jw** BRECCIATED AND CRACKLE FRACTURED DARK GREEN AND GREY SLICEOUS SILTSTONES AND PHYRIC CHERT, CARBONACEOUS TUFFACEOUS WACKES WITH INTERBEDDED CONGLOMERATE CONTAINING CLASTS OF CHERT, BLACK SILTSTONE, AND INTERMEDIATE TO FELSIC VOLCANICS (P₁₋₁₀)

MIDDLE(?) JURASSIC

- mJvb** DENSE MEDIUM GRAY TO GREY FELLOW BASALT, LOCALLY ANHYDRODIAL, PLAGIOCLASE PHYRIC, FELLOW BRECCIA FLOWS AND FLOW BRECCIAS, HYALOCLASTIC
- mJvs** THINLY BEDDED, ALTERNATING BLACK AND WHITE SLICEOUS TUFFS AND SEDIMENTS

LOWER(?) JURASSIC

- Ljp** FISSILE, THIN BEDDED, SILTSTONE AND SANDSTONE WITH CARBONACEOUS WOOD FRAGMENTS, GRANULE CONGLOMERATES CONTAINING INTERMEDIATE VOLCANIC, SEDIMENTARY AND LIMESTONE CLASTS.
- Lr** BROWNISH GREY LAPILLI AND CRYSTAL TUFF; PHYOLITE CRYSTAL TUFF AND LESSER FLOWS (L₁₋₄)

UPPER TRIASSIC STUHNI GROUP

- uTs** UNWIDED VOLCANICS AND SEDIMENTS
- uTsv1** MAROON AND GREEN PLAGIOCLASE AND LESSER AUGITE-PHYRIC LAPILLI TO BLOCK TUFFS AND ASSOCIATED EPICLASTICS
- uTsv** MAROON AND GREEN PORPHYRYC VOLCANIC FLOW BRECCIAS, PLAGIOCLASE-PHYRIC (uTsv₁₋₄)
- uTsl** GREY-GREEN APHANTIC TUFF
- uTsw** TUFFACEOUS WACKES, ANGLITE, LIMESTONE, CARBONACEOUS AND CALCAREOUS SILTSTONE INTERBEDDED WITH FINE GRAINED SANDSTONE AND MINOR CONGLOMERATE; MAROON VOLCANIC CONGLOMERATE WITH LIMESTONE CLASTS (uTsw₁₋₁₀)

PALEOZOIC STIHKNE ASSEMBLAGE

- Fu** UNWIDED METAVOLCANICS AND METASEDIMENTS

WESTERN ASSEMBLAGE

PERMIAN

- Pv** UNWIDED PERMIAN VOLCANICS AND SEDIMENTS
- Pv1** LAPILLI AND PLAGIOCLASE CRYSTAL TUFF, FELSIC WELDED ASH TUFF, THINLY BEDDED SLICEOUS LIMESTONE LENSES, ANHYOLITE FLOWS (Pv₁); VOLCANIC SANDSTONE, SILTSTONE AND MAROON SHALLOW(?) WATER CONGLOMERATES (Pv₁₋₄)
- Pc2** ALGAL LIMESTONE; THIN LAMINATED, DARK GRAY TO BLACK, LOCALLY FETID, WEATHERS BUFF, PSOLITE-RICH BEDS AND CLSPATE STACKED CONCAVE ALGAL STRUCTURES COMMON
- Pvb** HORNBLENDE-PLAGIOCLASE PORPHYRYC ANDERITE BRECCIA FLOWS; LOCALLY ANHYDRODIAL, CONTAINS 30 TO 40 PERCENT (MINOR) WHITE PLAGIOCLASE AND 15 PERCENT OLIVINIC ACICULAR HORNBLENDE CRYSTALS; MAROON LAPILLI AND LAPILLI TUFF (Pvb₁₋₁₀)
- Pc1** BIOCLASTIC LIMESTONE WITH CHERT INTERBEDS; MEDIA-BEDDED TO MASSIVE GRAY BIOCLASTIC CALCARENITE AND LESSER BUFF SILTY DOLOMITIC LIMITE, THIN BEDDED SECTIONS CONTAIN BEACH TO YELLOWISH BUFF JACONPHOLUS SILICA BEES UP TO 30 CENTIMETRES THICK; SOLITARY CORALS, FORAMINIFERA, BRACHIOPODS, CRINIDS AND WACOLS BRACHIOPODS ARE LOCALLY ABUNDANT
- Pcg** THICK BEDDED, BOLDER TO PEBBLE CONGLOMERATE, CLASTS ARE AUGITE PHYRIC, PLAGIOCLASE PHYRIC, ANDERITE, BASALT, AND LIMESTONE CLASTS.

MISSISSIPPIAN - PENNSYLVANIAN

- Mas** SILTSTONE-SANDSTONE TURBIDITES AND LESSER CHERTS
- Mc** THICK-BEDDED ORIOVAL CALCARENITE WITH INTERBEDDED SLICEOUS SILTSTONE
- Mv** UNWIDED VOLCANICS
- Mvt** MAFIC TO INTERMEDIATE SUBVOLCANIC LAPILLI TUFF; SLICEOUS DUST TUFFS AND EPICLASTICS (Mvt₁₋₁₀); INTERMEDIATE TO FELSIC ASH FLOW AND WELDED TUFFS (Mvt₁₋₁₀)
- Mvr** PHYOLITE, PHYODATE, PINK AND ORANGE FLOW BANDED BRECCIAS VARYING TO MASSIVE SUBVOLCANIC BONES, OLIGOPORPHYRYC FELDSPAR AND QUARTZ (Mvr₁₋₁₀)
- Mvb** MASSIVE-ANHYDRODIAL, BASALT FLOWS; HYALOCLASTIC DEBRIS FLOWS (Mvb₁₋₁₀); FELLOW BASALT (Mvb₁₋₁₀)

EASTERN ASSEMBLAGE

PERMIAN

- Ptc** DEFORMED CHLORITIC TUFFS AND METAVOLCANICS, INTERBEDDED TUFFACEOUS AND SLICEOUS SILTSTONES AND NUMEROUS THIN BEDDED RECRYSTALLIZED LIMESTONES.
- Pc** LIMESTONE, BIOCLASTIC, MEDIA-BEDDED, RECRYSTALLIZED, WHITE TO BUFF, SPARSLEY ORIOVAL, CALCARENITE WHICH LOCALLY IS COMPLETELY RECRYSTALLIZED TO COARSE CALOT

PERMIAN AND OLDER

- Pms** METASEDIMENTS AND MINOR LIMESTONE, SILTSTONES ARE GRAY TO LIGHT GREEN, PHYLIC AND INTERLASED WITH GRANITIC ANGLITE AND SLICEOUS PHYOLITE AND THIN LENSES OF DARK BROWN LIMESTONE, GREEN AND WHITE SLICEOUS TURBIDITE COUPLETS AND CHERTY TUFFS (Pms₁₋₁₀) OCCUR MAIN IN THE STRATIOMAPVW.
- Pc** LIMESTONE, RECRYSTALLIZED, THIN BEDDED TO MORE COMMONLY MASSIVE, WHITE TO BUFF COLOURED.
- Pmv** MAFIC TO FELSIC METAVOLCANICS, RARE LIMESTONE LENSES; WARMLY FOLIATED TO SCHISTOSE, PURPLE TO DARK GREEN PLAGIOCLASE PORPHYRYC FLOWS AND TUFFS.

LOWER DEVONIAN

- lDc** DEFORMED CORALLINE LIMESTONES; LESSER INTERBEDDED PEBBLE CONGLOMERATE, SLICEOUS AND CARBONACEOUS SHALES AND BOTH MAFIC AND FELSIC TUFFS.

INTRUSIVE ROCKS

CRETACEOUS AND YOUNGER (?)

- Kp** PLAGIOCLASE QUARTZ PORPHYRY; OCCURS AS SMALL PLUGS AND DYKES INTRUDING NORTH TRENCHING FAULTS, PHYRIC AND CRIDGED TO YELLOW AND RED GOSSANS.

JURASSIC AND YOUNGER (?)

- Jg** BIOTITE GRANITE - PINK COARSE TO MEDIUM GRAINED, FOLIOGRAMULAR TO 'QUARTZ EYE' PORPHYRYC, LESS COMMONLY HORNBLENDE IS THE MAJIC CONSTITUENT, QUARTZ EXCEEDS 20 PERCENT, QUARTZ RICH PHASES (50 PER CENT) ARE SPATIALLY RELATED TO FAULT STRUCTURES
- Jqm** HORNBLENDE QUARTZ MONOZYTE TO MONOZYTE-COARSE TO MEDIUM GRAINED, HORNBLENDE AVERAGES 20 PERCENT AS 3 MILLIMETRE CRYSTAL LATHS AND POSSIBLY CLOTS, BIOTITE WHERE PRESENT IS FINE GRAINED AND LESS THAN 5 PERCENT.
- Jd** HORNBLENDE DIORITE, HORNBLENDE QUARTZ DIORITE; HORNBLENDE IS CHLORITIC AND COMPRISES MORE THAN 40 PERCENT OF THE ROCK.

MIDDLE(?) JURASSIC

- Jdl** DIORITE TO GABBRO; COARSE GRAINED, OCCURS AS STOCKS AND SILLS, PLAGIOCLASE CRYSTALS ARE EMBEDDED TO SUBMEDIAL ACICULAR CLOTS WHICH BAPART A DISTINCTIVE FELTY INTERLOCKING TEXTURE, THESE SUBVOLCANIC INTRUSIONS MAY REPRESENT FEEDERS TO THE FELLOW BASALTS (L₁₋₄)



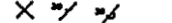










EARLY JURASSIC

- eJm** HORNBLENDE-PLAGIOCLASE-PORPHYRYC MONOZYTE; OCCURS AS DYKES, SILLS AND PLUGS CHARACTERIZED BY A NEMATITIC GROUNDMASS ALTERED WITH FINE SUBMEDIAL EMBEDDED PLAGIOCLASE (UP TO 30 PERCENT) AND HORNBLENDE CRYSTALS, TRACHYTIC TEXTURES ARE COMMON; STROPHOLITE MAGNETIC.
- eJg** HORNBLENDE BIOTITE POTASSIUM FELDSPAR MEGACRYSTIC GRANITE.

AGE UNKNOWN

- qd** HORNBLENDE QUARTZ DIORITE; MEDIUM GRAINED, LOCALLY FOLIATED AND ALTERED, CONTAINS IRREGULAR MAFIC INCLUSIONS (UP TO 100 CENTIMETRES) OF AMPHIBOLITES.
- d** ALTERED DIORITE
- DYKES** (a) PHYRIC ANDERITE AND BASALT; (b) MAFIC PLAGIOCLASE PHYRIC; (c) LAPPROPHYRIC; (d) PHYOLITE/LAPILLI

MAP SYMBOLS

- Geological contact (defined, approximate, assumed) 
- Unconformable contact (defined, assumed) 
- Bedding (horizontal, inclined, overturned) 
- Foliation 
- Fault (observed, inferred) 
- Thrust or high angle reverse fault (defined, assumed) 
- Anticline (direction of plunge indicated) 
- Syncline (direction of plunge indicated) 
- Minor fold axis 
- Joint 
- Dyke 
- Vein 
- Outcrop visited 

polymetallic Eskay Creek volcanogenic massive sulphide deposit 35 km to the southeast.

Along the eastern side and extending through the south-central part of the claim, fault bounded blocks of Paleozoic massive grey crinoidal limestone occur.

To the southeast, early Jurassic monzonite intrusive forms a large mass.

7.0 MINERALIZATION AND GEOCHEMISTRY

Soil sampling with a mattock from B-C horizon, in Kraft bags.

Prior to 1990 known mineralization on the Gab 6 mineral claim consisted of limestone hosted narrow barite fractures to shears hosting varying amounts of galena, sphalerite and tetrahedrite. Several occurrences of this style of mineralization were known along the limestone trend on the property and continued for several kilometres to the north where significant occurrences occur on Hixon Gold Resources Ltd.'s claims and Kestrel Resources Ltd.'s property. Assay values from these properties range up to 150 oz/ton Ag and 10 to 15% Pb-Zn while to date on Thumper's ground assays have ranged up to 9.58 oz/ton Ag, 3.0% Pb and >10% Zn. Low values in gold are reported from all showings along this structure.

During the 1990 season, sampling was again briefly done in the areas of known mineralization as well as continued elsewhere on the property (Figure 6). No new mineral occurrences of significance were discovered while assays of significance from the barite fracture/shears are summarized below:

<u>Sample Number</u>	<u>Ag (oz/ton)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Remarks</u>
43352	--	--	1.38	select grab
43353	3.37	16.2	1.17	select grab
43354	--	--	3.68	select grab
43402	--	3.56	--	select grab

<u>Sample Number</u>	<u>Ag (oz/ton)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Remarks</u>
43403	--	3.46	--	select grab
43406	>1.00	5.18	3.96	select grab
43407	>2.00	0.91	5.27	select grab
43416	7.21	--	4.54	select grab

8.0 DISCUSSION AND CONCLUSIONS

During 1990 continued exploration and evaluation of Thumper Resources Corp.'s Gab 6 mineral claim took place in the Iskut River Gold Camp of northwest British Columbia. Over the course of the past few years several significant prospects have been advanced to major economic ore deposits including Eskay Creek, Snip and Johnny Mountain. Most recently, continued definition on the Black Dog massive sulphide prospect appears to indicate this too will be a major discovery. Elsewhere, promising projects in the region receiving ongoing emphasis include those held by Gulf International Minerals (Northwest Zone and Inel), Placer Dome Inc. (Kerr deposit), Noranda/High Frontier Resources/Kennecott (Gozz prospect), and the American Fibre/Silver Butte Resources Ltd. (SIB prospect).

Recent re-evaluation and interpretation of stratigraphy in the area of the Gab 6 claim has suggested rocks are possibly of similar age or slightly younger than those which host the world class Eskay Creek volcanogenic massive sulphide (VMS) deposit to the southeast of the property. As this type of deposit is historically usually associated with specific stratigraphic sequences and limited time frames, this should become a major focus of exploration efforts on the Gab 6 property.

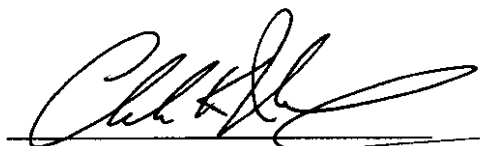
Possible evidence in the claims area indicating a VMS environment include a submarine environment, broad As-Zn soil anomalies just west of the Gab 6 claim boundary, the abundance of barite (+ base and precious metals) and bimodal volcanism (andesite and rhyolite) to the north of the claims.

A program for the 1991 field season should consist of detailed mapping, soil geochemistry, grid establishment and geophysical surveying. Contingent upon the success of this phase, a diamond drill testing program may be warranted.

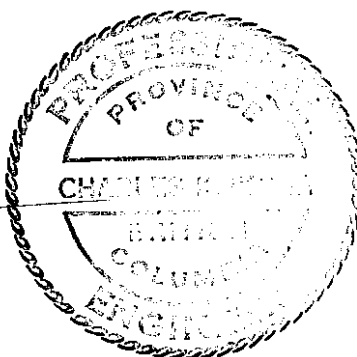
Respectfully submitted,



S.L. Todoruk, Geologist



C.K. Ikona, P.Eng.



APPENDIX I

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BIBLIOGRAPHY

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APPENDIX II

COST STATEMENT

COST STATEMENT
THUMPER RESOURCES CORP.
GAB 6 MINERAL CLAIM
LIARD MINING DIVISION
JULY 1, 1990 TO OCTOBER 31, 1990

WAGES

Geologists

R. Darney (Senior Geologist)	
- 3 days @ \$400.00	\$1,200.00
R. Gerhardt (Field Geologist)	
- 4 days @ \$325.00	1,300.00
K. Curtis (Field Geologist)	
- 1 day @ \$325.00	325.00

Manager/Coordinator

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

Prospectors

N. Debock - 1 day @ \$300.00	300.00
J. Anderson - 3 days @ \$300.00	900.00
W. Wiggins - 2 days @ \$250.00	500.00
J. Gordon - 1 day @ \$225.00	225.00
P. Hoffman - 1 day @ \$225.00	225.00
T. Montgomery - 1 day @ \$225.00	225.00

Samplers

B. Charlton - 2.5 days @ \$225.00	562.50
J. Elmore - 1 day @ \$225.00	225.00
C. O'Brien - 1 day @ \$225.00	225.00
D. Flinn - 1 day @ \$225.00	225.00
B. Lightle - 1 day @ \$250.00	<u>225.00</u>

Total Wages	\$ 6,912.50
--------------------	--------------------

Project Supervision	885.65
----------------------------	---------------

CAMP AND EQUIPMENT EXPENSES

Room and Board			
Pamicon Crew	24.5 days		
Helicopter Crew	<u>1.0 day</u>		
	25.5 days @ \$125.00	\$ 3,187.50	
Field Equipment and Supplies		<u>612.50</u>	3,800.00

GENERAL EXPENSES

Travel, Accommodation and Airfare		\$ 490.00	
Space Tel Communications		225.00	
Fixed Wing		122.40	
Helicopter		3,052.26	
Assays		2,678.00	
Freight		138.72	
Map Reproductions		150.06	
Report		<u>2,000.00</u>	
			<u>8,856.44</u>
TOTAL THIS PROGRAM			<u>\$ 20,454.59</u>

APPENDIX III

ROCK SAMPLE DESCRIPTION FORMS

PAMICON DEVELOPMENTS LIMITED

Geochemical Data Sheet - ROCK SAMPLING

Sampler N. DeBock
Date Aug 2 1990

Project Thumper
Property Gab 61

NTS _____
Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS				
				Rock Type	Alteration	Mineralization		Au ppb	Ag	Pb	Zn	Cu ppm
43351	4400	Grab	2m	Tuff	Fe	Pyr		nd	<0.1	29	27	36
352	4400	"	30cm	Barite	Fe	Zn Pb Cu	barite shears with quartz, sphalerite,	nd	9.0	2820	5931 1.30%	518
353	4250	"	"	Barite	"	"	± tetrahedrite	nd	>50.0 3.37%	>2000 16.2%	1825 1.17%	207
354	"	"	"	Barite	"	"	"	nd	28.0	4885	5200 3.48%	716
43355	Aug 5/90 elev. 3770	select grab		Volcanics	QU		re-sample of 32631	670	4.4	91	41	
43356		select grab					re-sample of 32630	30	<0.1	55	85	

DEVELOPMENTS LIMITED

Geochemical Data Sheet - ROCK SAMPLING

Willy, Tod, Paul,

Sampler Neil DeBock

Project Thurper

NTS _____

Date August 3, 1990

Property Cals 6

Location Ref _____

Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS						
				Rock Type	Alteration	Mineralization		Au ppb	Ag	Cu	Pb	Zn	As	
43401	1315m elev.	select grab	float	altered volcanics		minor Cu stain		nd	0.2	117	689	1004		
43402	1300m elev.	select grab		limestone	calcite-barite	fine-grained galena ± ml.		nd	19.6	189	3.56%	7425		
43403		select grab		limestone	barite shear	galena		30	9.6	66	3.46%	1079		
43404		"		limestone	barite shear	galena		10	>50.0	6283	8523	2.05%		
43405		"			barite shear	sp. ? ± galena		30	1.4	192	365	566		
43406		"		limestone	barite shear	hematite		26	48.0	1167	5.18%	396%		
43407		"		limestone	barite shear	gal + ml + hematite		10	>50.0	3094	.91%	527%		
43408		"			barite shear	sp.		30	15.2	210	801	1.46%		
43409		"						10	1.0	47	153	741		

FAIR DEVELOPMENTS LIMITED

Geochemical Data set - ROCK SAMPLING

NTS _____

Sampler John Anderson
Date Sept 8/90

Project _____
Property Thumper

Location Ref _____
Air Photo No _____

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		A ppm	Ag	Cu ppm	Pb	Zn	
43410	1280 meters	Grab	10cm	Qtz		< 1%	pyrite	100	8.6	439	58	1251	
Sept 9/90													
43411	1250 meters	Grab	15 cm	Qtz		2%	pyrite	50	0.6	45	20	33	
43412	1260	Grab	15cm	Qtz		5%	"	20	0.4	51	37	19	
43413	1280	Grab	20cm	Qtz		2%	"	10	0.2	16	16	11	
43414	1280	Grab	10cm	Qtz		2%	"	310	1.6	15	15	6	
43415	1280	Grab	15cm	Qtz		2%	"	20	4.0	24	6	13	
43416		Grab		Pyrite Qtz	limonite	Tetrahedrite		nd.	>50.0 7.21%	2667	259	> 20000 484%	

APPENDIX IV

ANALYTICAL PROCEDURES



MAIN OFFICE
1830 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.

March 19, 1991

TO: Mr. Al Montgomery
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 gold by fire assay method and detect by atomic absorption spectrophotometry 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 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 Extraction

- (a) 20.0 to 30.0 grams of the pulp samples were used. Samples were weighed out using a top-loading balance and deposited into individual fusion pots.
- (b) A flux of litharge, soda ash, silica, borax, and, either flour or potassium nitrite is added. The samples are then fused at 1900 degrees Fahrenheit to form a lead "button".

-2-

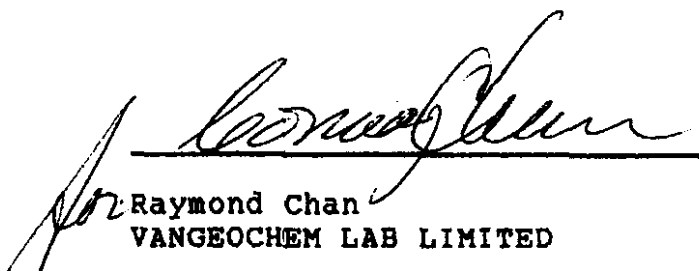
- (c) The gold is extracted by cupellation and parted with diluted nitric acid.
- (d) The gold beads are retained for subsequent measurement.

3. Method of Detection

- (a) The gold beads are dissolved by boiling with concentrated aqua regia solution in hot water bath.
- (b) The detection of gold was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. The gold values, in parts per billion, were calculated by comparing them with a set of known gold standards.

4. Analysts

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



Mr. Raymond Chan
VANGEOCHEM LAB LIMITED

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.

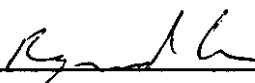
-2-

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.



Raymond Chan
VANGEOCHEM LAB LIMITED

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.


-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

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 HNO₃), 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:HNO₃:H₂O 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

APPENDIX V

ASSAY CERTIFICATES

1630 PANDORA STREET
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(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
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~~VANCOUVER, B.C. V5L 1K5~~
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• 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: AUG 24 1990

REPORT#: 900231 GA
JOB#: 900231

PROJECT#: THUMPER
SAMPLES ARRIVED: AUG 13 1990
REPORT COMPLETED: AUG 24 1990
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900231 NA
TOTAL SAMPLES: 9
SAMPLE TYPE: 9 ROCK
REJECTS: SAVED

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

RECEIVED
SEP 10 1990
REGISTERED

PREPARED FOR: MR. STEVE TODORUK

ANALYSED BY: VGC Staff

SIGNED: _____
Ray...

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

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(604) 251-5656



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~~VANCOUVER, B.C. V5L 1K5~~
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● FAX (604) 254-5717

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

REPORT NUMBER: 900231 GA

JOB NUMBER: 900231

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Au ppb
43355	670
43356	30
43403	30
43404	10
43405	30
43406	20
43407	10
43408	30
43409	10

DETECTION LIMIT
nd = none detected

5
-- = 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 HNO₃ to H₂O 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: Royce

REPORT #: 900231 PA PANICON DEVELOPMENTS LTD. PROJECT: THUMPER DATE IN: AUG 13 1990 DATE OUT: SEPT 06 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
43355	4.4	1.70	5	62	<3	0.19	1.9	40	115	41	5.43	0.24	0.82	823	31	<0.01	34	0.03	91	28	8	3	<5	<3	49
43356	<0.1	0.19	<3	407	<3	0.06	0.7	14	14	18	1.60	<0.01	0.08	1983	27	<0.01	<1	<0.01	55	9	16	818	<5	<3	15
43403	9.6	0.01	<3	84	<3	1.62	11.6	<1	104	66	0.45	<0.01	0.89	502	10	<0.01	<1	<0.01	>20000	16	<2	253	<5	<3	1079
43404	>50.0	<0.01	699	73	<3	>10.00	159.9	<1	59	6283	0.36	<0.01	0.87	619	44	<0.01	13	<0.01	8523	>2000	<2	482	<5	<3	>20000
43405	1.4	1.89	<3	>1000	<3	7.79	9.5	18	10	192	5.90	<0.01	2.67	2192	25	<0.01	22	0.09	365	78	3	171	<5	<3	566
43406	48.0	0.05	35	94	<3	1.74	57.9	<1	72	1167	0.72	<0.01	0.10	183	71	<0.01	<1	0.02	>20000	545	32	537	<5	<3	>20000
43407	>50.0	<0.01	234	98	<3	8.15	300.6	<1	104	3094	0.58	<0.01	1.23	674	100	<0.01	<1	0.05	10017	1301	7	733	<5	<3	>20000
43408	15.2	<0.01	104	134	<3	0.46	121.8	<1	35	210	0.26	<0.01	<0.01	46	30	<0.01	2	0.02	801	173	5	1098	<5	<3	17175
43409	1.0	0.28	20	927	<3	>10.00	5.2	32	60	47	4.75	<0.01	5.41	1340	14	<0.01	26	0.08	153	<2	14	365	<5	<3	741
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
 SEP 10 1990
 150515

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

VGC VANGEOCHEM LAB LIMITED

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.

ASSAY ANALYTICAL REPORT
=====

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

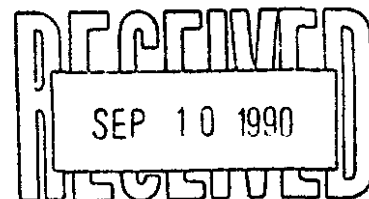
DATE: SEPT 07 1990

REPORT#: 900231 AA
JOB#: 900231

PROJECT#: THUMPER
SAMPLES ARRIVED: AUG 13 1990
REPORT COMPLETED: SEPT 07 1990
ANALYSED FOR: Pb Zn

INVOICE#: 900231 NB
TOTAL SAMPLES: 5
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 5 ROCK

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



.....
PREPARED FOR: PAMICON DEVELOPMENTS LTD.

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
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VGC VANGEOCHEM LAB LIMITED

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.
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RENO, NEVADA, U.S.A.

REPORT NUMBER: 900231 AA

JOB NUMBER: 900231

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Pb %	Zn %
43403	3.46	--
43404	--	2.05
43406	5.18	3.96
43407	.91	5.27
43408	--	1.46

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

.01

ppm = parts per million

< = less than

signed: _____

Raymond Lee

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
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VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
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~~VANCOUVER, B.C. V5L 1K5~~
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● 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: AUG 24 1990

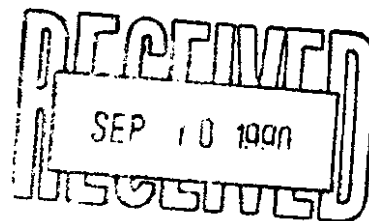
REPORT#: 900256 GA
JOB#: 900256

PROJECT#: THUMPER
SAMPLES ARRIVED: AUG 17 1990
REPORT COMPLETED: AUG 24 1990
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900256 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: _____

Raymond Lee

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

1630 PANDORA STREET
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VGC VANGEOCHEM LAB LIMITED

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

REPORT NUMBER: 900256 GA JOB NUMBER: 900256 PANICON DEVELOPMENTS LTD. PAGE 1 OF 1

SAMPLE #	Au
43351	nd
43352	nd
43353	nd
43354	nd
43401	nd
43402	nd

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

1630 Pandora Street, Vancouver, B.C. V5L 1L6
 Ph: (604) 251-5656 Fax: (604) 251-1117

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O 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*

REPORT #: 900256 PA

PAMICON DEVELOPMENTS LTD.

PROJECT: THUMPER

DATE IN: AUG 17 1990

DATE OUT: SEPT 07 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
43351	<0.1	1.00	<3	66	90	0.56	0.5	21	213	36	1.69	0.27	1.14	388	17	<0.01	46	0.04	29	<2	13	22	<5	<3	27
43352	9.0	0.03	87	585	<3	4.31	111.1	10	136	518	0.44	<0.01	0.40	350	25	<0.01	13	0.04	2820	186	5	192	<5	<3	15431
43353	>50.0	<0.01	<3	26	<3	3.83	156.3	8	33	207	0.51	<0.01	2.18	767	41	<0.01	3	<0.01	>20000	272	13	800	<5	<3	18253
43354	28.0	<0.01	732	30	<3	1.86	340.4	8	141	716	2.41	<0.01	0.84	171	71	<0.01	7	<0.01	4885	343	9	917	<5	<3	>20000
43401	0.2	2.82	<3	>1000	209	3.12	8.4	40	49	117	5.19	<0.01	1.22	997	20	<0.01	16	0.09	689	<2	16	141	<5	<3	1004
43402	19.6	0.02	<3	83	<3	0.81	49.8	9	110	189	0.38	<0.01	0.40	238	35	<0.01	<1	0.02	>20000	113	8	575	<5	<3	7425
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
 SEP 10 1990
 RESULTS

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

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
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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 12 1990

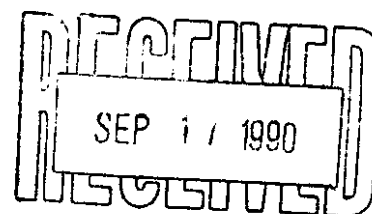
REPORT#: 900256 AA
JOB#: 900256

PROJECT#: THUMPER
SAMPLES ARRIVED: AUG 17 1990
REPORT COMPLETED: SEPT 12 1990
ANALYSED FOR: Pb Zn Ag

INVOICE#: 900256 NB
TOTAL SAMPLES: 4
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 4 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
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(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

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● FAX (604) 254-5717

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

REPORT NUMBER: 900256 AA JOB NUMBER: 900256 PANICON DEVELOPMENTS LTD. PAGE 1 OF 1

SAMPLE #	Pb %	Zn %	Ag oz/st
43352	--	1.38	--
43353	16.20	1.17	3.37
43354	--	3.68	--
43402	3.56	--	--

DETECTION LIMIT .01 .01 .01
1 Troy oz/short ton = 34.28 ppm 1 ppm = 0.0001% ppm = parts per million < = less than

signed: Raymond Lee

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

VGC **VANGEOCHEM LAB LIMITED**

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.

GEOCHEMICAL ANALYTICAL REPORT
=====

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

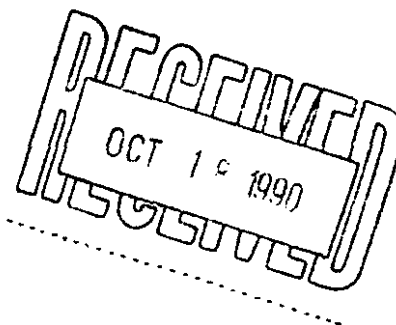
DATE: SEPT 26 1990

REPORT#: 900507 GA
JOB#: 900507

PROJECT#: THUMPER
SAMPLES ARRIVED: SEPT 17 1990
REPORT COMPLETED: SEPT 26 1990
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900507 NA
TOTAL SAMPLES: 7
SAMPLE TYPE: 7 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.

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BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900507 GA JOB NUMBER: 900507 PANICON DEVELOPMENTS LTD. PAGE 1 OF 1

SAMPLE #	Au
	ppb
43410	100
43411	50
43412	20
43413	10
43414	310
43415	20
43416	nd

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

ICAP GEOCHEMICAL ANALYSIS

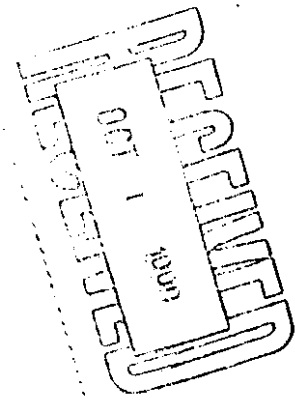
A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *R. Smith*

REPORT #: 900507 PA PAMICON DEVELOPMENTS LTD. PROJECT: THUMPER DATE IN: SEPT 17 1990 DATE OUT: OCT 17 1990 ATTENTION: MR. STEVE TODORUK PAGE 1 OF 1

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
43410	8.6	0.10	10	26	<3	0.33	22.4	3	146	439	2.66	0.06	0.02	316	22	0.08	9	<0.01	58	<2	4	13	<5	<3	1251
43411	0.6	0.06	<3	32	<3	0.02	1.6	3	107	45	5.34	0.06	0.02	92	29	0.03	<1	<0.01	20	<2	5	2	<5	<3	33
43412	0.4	0.16	<3	28	<3	0.04	1.0	10	144	51	6.29	0.08	0.07	84	15	0.03	<1	<0.01	37	<2	6	5	<5	<3	19
43413	0.2	0.09	<3	45	<3	0.02	0.2	4	134	16	4.22	0.05	0.03	130	4	0.02	<1	<0.01	16	<2	4	2	<5	<3	11
43414	1.6	0.06	<3	32	<3	<0.01	0.2	2	224	15	3.38	0.04	<0.01	60	17	0.02	<1	<0.01	15	<2	3	2	<5	<3	6
43415	4.0	0.20	<3	11	<3	<0.01	<0.1	4	147	24	2.37	0.02	0.11	233	2	0.02	<1	<0.01	6	<2	3	1	<5	<3	13
43416	>50.0	0.04	253	20	<3	4.34	287.6	5	42	2667	2.24	0.23	1.72	2404	<1	2.29	<1	0.01	259	1654	3	508	<5	<3	>20000

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.



ASSAY ANALYTICAL REPORT

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

DATE: OCT 12 1990

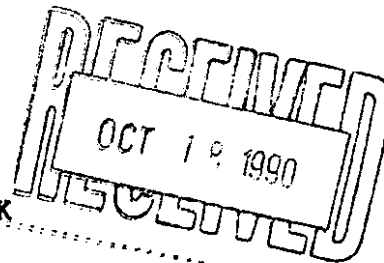
REPORT#: 900507 AA
JOB#: 900507

PROJECT#: THUMPER
SAMPLES ARRIVED: SEPT 17 1990
REPORT COMPLETED: OCT 12 1990
ANALYSED FOR: Ag

INVOICE#: 900507 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.

VGC VANGEOCHEM LAB LIMITED

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

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

REPORT NUMBER: 900507 AA

JOB NUMBER: 900507

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Ag oz/st
43416	7.21

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 19 1990

REPORT#: 900507 AB
JOB#: 900507

PROJECT#: THUMPER
SAMPLES ARRIVED: SEPT 17 1990
REPORT COMPLETED: OCT 19 1990
ANALYSED FOR: Zn

INVOICE#: 900507 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.

RECEIVED
OCT 23 1990
RECEIVED

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: 900507 AB

JOB NUMBER: 900507

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 1

SAMPLE #	Zn %
43416	4.54

DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01

1 ppm = 0.0001%

ppm = parts per million

< = less than

signed: _____

Raymond L.

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VGC VANGEOCHEM LAB LIMITED

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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 07 1990

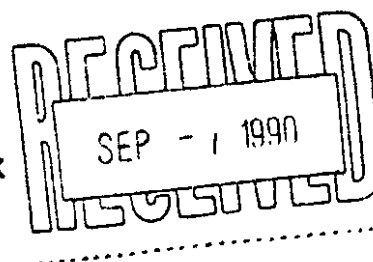
REPORT#: 900216 GA
JOB#: 900216

PROJECT#: THUMPER
SAMPLES ARRIVED: AUG 10 1990
REPORT COMPLETED: SEPT 07 1990
ANALYSED FOR: Au ICP

INVOICE#: 900216 NA
TOTAL SAMPLES: 46
SAMPLE TYPE: 46 SOIL
REJECTS: DISCARDED

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.

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REPORT NUMBER: 900216 GA

JOB NUMBER: 900216

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 2

SAMPLE #	Au
L1220 000S	25
L1220 025S	35
L1220 050S	10
L1220 075S	15
L1220 100S	35
L1220 125S	25
L1220 150S	15
L1220 175S	5
L1220 200S	nd
L1220 225S	10
L1220 250S	15
L1220 275S	nd
L1220 300S	nd
L1220 325S	10
L1220 350S	nd
L1220 375S	nd
L1220 400S	nd
L1220 425S	15
L1220 475S ^{450S}	5
L1220 500S	nd
L1220 525S	10
L1220 550S	5
L1220 575S	20
L1220 600S	nd
L1220 625S	20
L1220 650S	15
L1220 675S	5
L1220 700S	10
L1220 725S	nd
L1220 750S	nd
L1220 775S	5
L1220 800S	5
L1220 825S	15
L1220 850S	nd
L1220 875S	5
L1220 900S	10
L1220 925S	25
L1220 950S	5
L1220 975S	25

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

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REPORT NUMBER: 900216 GA JOB NUMBER: 900216 PANICON DEVELOPMENTS LTD. PAGE 2 OF 2

SAMPLE #	µg ppb
L1220 1000S	nd
L1220 1025S	25
L1220 1050S	5
L1220 1075S	5
L1220 1100S	10
L1220 1125S	5
L1220 1150S	5

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

SEP - 7 1990

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O 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: *Ryan*

REPORT #: 900216 PA PANICON DEVELOPMENTS LTD. PROJECT: THUMPER DATE IN: AUG 10 1990 DATE OUT: SEPT 03 1990 ATTENTION: MR. STEVE TODORUK PAGE 1 OF 2

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
L1220 000S	<0.1	6.37	<3	174	<3	0.10	3.2	11	26	25	4.07	0.14	0.15	2124	13	<0.01	28	0.16	42	<2	25	6	<5	<3	341
L1220 025S	0.0	5.54	<3	109	<3	0.07	2.4	10	20	21	6.15	0.13	0.11	2371	10	<0.01	25	0.10	45	<2	21	4	<5	<3	164
L1220 050S	<0.1	3.00	<3	107	<3	0.12	3.2	13	18	16	2.75	0.08	0.25	1789	12	<0.01	33	0.10	39	<2	11	8	<5	<3	114
L1220 075S	16.6	1.93	1033	274	<3	0.09	14.9	36	8	240	4.13	0.10	0.13	>20000	14	<0.01	14	0.05	235	10	13	6	<5	<3	856
L1220 100S	0.4	4.94	<3	93	<3	0.29	2.8	14	12	29	4.76	0.14	0.26	3945	12	<0.01	13	0.09	60	<2	22	17	<5	<3	176
L1220 125S	6.1	1.79	485	258	<3	0.35	2.4	26	7	26	2.36	0.08	0.54	3221	8	<0.01	7	0.09	109	<2	11	41	<5	<3	299
L1220 150S	<0.1	2.24	<3	349	<3	0.25	1.5	16	11	13	3.22	0.09	1.02	730	8	<0.01	9	0.04	45	2	12	28	<5	<3	54
L1220 175S	<0.1	2.04	<3	166	<3	0.36	2.0	15	8	16	2.43	0.10	0.85	1262	7	<0.01	8	0.05	45	7	9	14	7	<3	48
L1220 200S	<0.1	3.04	138	75	<3	0.10	3.5	19	14	23	3.55	0.11	0.42	3146	12	<0.01	9	0.16	61	6	14	8	<5	<3	103
L1220 225S	<0.1	3.79	<3	46	<3	0.04	1.6	10	13	18	2.82	0.05	0.23	469	11	<0.01	5	0.11	40	<2	19	4	<5	<3	103
L1220 250S	<0.1	3.77	<3	129	<3	0.06	2.4	9	10	11	2.76	0.08	0.47	388	10	<0.01	7	0.07	29	<2	17	8	<5	<3	100
L1220 275S	<0.1	2.68	278	277	10	0.25	1.6	16	10	26	2.97	0.11	0.16	7296	10	<0.01	10	0.22	43	<2	13	20	<5	<3	94
L1220 300S	<0.1	4.31	<3	62	<3	0.08	2.4	15	15	33	4.15	0.10	0.38	1426	11	<0.01	11	0.14	47	<2	17	10	<5	<3	93
L1220 325S	<0.1	3.72	<3	77	37	0.07	3.2	14	14	32	3.86	0.13	0.38	1617	11	<0.01	11	0.13	69	<2	16	8	<5	<3	166
L1220 350S	<0.1	6.32	<3	264	<3	0.05	3.5	12	10	19	5.08	0.18	0.13	2312	15	<0.01	6	0.05	49	<2	24	2	<5	<3	277
L1220 375S	<0.1	3.57	<3	96	<3	0.02	2.8	9	12	10	2.90	0.07	0.32	340	10	<0.01	<1	0.11	39	<2	19	4	<5	<3	91
L1220 400S	<0.1	2.75	<3	51	<3	0.03	1.3	9	12	14	2.85	0.07	0.28	807	11	<0.01	1	0.10	45	<2	14	5	<5	<3	108
L1220 425S	<0.1	3.25	<3	129	<3	0.02	2.0	13	9	12	3.69	0.09	0.56	1381	9	<0.01	2	0.15	41	<2	13	5	<5	<3	66
L1220 475S	<0.1	2.71	<3	64	<3	<0.01	1.6	13	9	11	3.20	0.10	0.45	1037	7	<0.01	<1	0.06	44	2	11	1	<5	<3	71
L1220 500S	<0.1	1.92	<3	90	<3	0.02	1.3	13	10	12	3.16	0.08	0.31	3601	7	<0.01	<1	0.20	60	11	15	3	<5	<3	73
L1220 525S	<0.1	3.10	<3	79	<3	0.01	0.6	10	11	12	2.43	0.07	0.38	227	8	<0.01	<1	0.12	42	<2	14	2	<5	<3	64
L1220 550S	<0.1	2.52	<3	194	<3	0.29	1.2	14	9	41	3.21	0.13	0.56	1766	8	<0.01	<1	0.20	49	<2	12	8	<5	<3	111
L1220 575S	<0.1	3.43	<3	330	<3	0.05	3.0	18	11	42	3.74	0.12	0.81	2033	10	<0.01	<1	0.20	58	4	14	5	<5	<3	126
L1220 600S	<0.1	4.51	<3	69	21	0.04	1.7	15	15	22	3.69	0.10	0.64	1217	11	<0.01	<1	0.18	49	<2	22	4	<5	<3	111
L1220 625S	<0.1	3.21	<3	110	<3	0.13	1.3	13	13	25	3.98	0.11	0.50	941	8	<0.01	<1	0.15	48	<2	17	7	<5	<3	153
L1220 650S	<0.1	5.57	<3	174	<3	0.03	2.1	10	10	24	4.57	0.12	0.21	2325	11	<0.01	<1	0.13	47	<2	21	2	<5	<3	269
L1220 675S	<0.1	9.12	<3	37	<3	0.02	1.9	8	10	16	5.65	0.15	0.08	853	12	<0.01	<1	0.06	39	<2	28	<1	<5	<3	137
L1220 700S	<0.1	3.86	<3	51	<3	0.04	1.5	14	13	28	3.73	0.11	0.35	994	9	<0.01	<1	0.10	59	<2	19	3	<5	<3	200
L1220 725S	<0.1	4.61	<3	58	<3	0.05	2.2	13	16	22	4.80	0.12	0.46	1155	9	<0.01	<1	0.06	57	<2	21	5	<5	<3	156
L1220 750S	<0.1	5.80	<3	80	30	0.02	2.0	8	9	18	4.83	0.12	0.12	1085	12	<0.01	<1	0.03	37	<2	23	1	<5	<3	282
L1220 775S	<0.1	3.20	<3	158	<3	0.09	3.5	17	238	33	4.22	0.11	0.55	2005	236	<0.01	1081	0.08	58	2	16	8	<5	<3	229
L1220 800S	<0.1	3.25	<3	50	<3	<0.01	2.4	14	15	29	4.08	0.11	0.45	1402	13	<0.01	<1	0.06	61	10	16	3	5	<3	136
L1220 825S	<0.1	6.01	<3	32	36	0.01	0.2	9	10	17	4.84	0.14	0.12	1176	14	<0.01	<1	0.04	60	3	25	<1	<5	<3	201
L1220 850S	<0.1	5.00	<3	77	<3	0.03	0.1	9	11	20	4.51	0.11	0.21	1084	11	<0.01	<1	0.05	49	<2	24	2	<5	<3	195
L1220 875S	<0.1	5.04	<3	89	<3	0.02	<0.1	8	12	16	4.33	0.10	0.25	646	9	<0.01	<1	0.07	40	<2	21	1	<5	<3	127
L1220 900S	<0.1	4.37	<3	274	35	0.21	<0.1	9	9	9	3.21	0.11	0.37	629	6	<0.01	<1	0.11	39	<2	18	15	<5	<3	85
L1220 925S	<0.1	5.77	108	64	13	0.04	<0.1	8	15	30	4.48	0.13	0.28	378	8	<0.01	<1	0.09	43	<2	21	3	<5	<3	137
L1220 950S	<0.1	2.38	<3	28	9	0.01	0.2	6	12	13	2.06	0.08	0.18	233	5	<0.01	<1	0.08	45	<2	18	3	<5	<3	69
L1220 975S	<0.1	4.79	<3	32	<3	<0.01	<0.1	5	8	14	4.77	0.10	0.08	1413	10	<0.01	<1	0.02	33	<2	23	<1	<5	<3	154

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 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.

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O 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 G.*

REPORT #: 900216 PA PAMICON DEVELOPMENTS LTD. PROJECT: THUMPER DATE IN: AUG 10 1990 DATE OUT: SEPT 03 1990 ATTENTION: MR. STEVE TODORUK PAGE 2 OF 2

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
L1220 1000S	<0.1	3.07	<3	45	<3	0.66	2.1	28	10	81	4.49	0.15	1.35	1973	9	<0.01	19	0.09	33	<2	23	23	<5	<3	100
L1220 1025S	<0.1	5.11	<3	79	<3	0.27	2.6	19	16	107	4.23	0.11	1.06	2294	7	<0.01	21	0.10	21	<2	23	25	<5	<3	116
L1220 1050S	<0.1	2.26	<3	34	<3	0.09	1.8	11	12	28	3.67	0.07	0.34	505	9	<0.01	8	0.11	34	<2	18	8	<5	<3	73
L1220 1075S	<0.1	3.17	<3	22	<3	0.26	2.3	15	17	49	3.28	0.09	0.45	403	9	<0.01	9	0.08	31	<2	21	9	<5	<3	76
L1220 1100S	<0.1	3.20	<3	56	<3	0.50	2.3	21	12	33	3.69	0.12	0.79	2576	9	<0.01	10	0.15	24	<2	24	30	<5	<3	117
L1220 1125S	<0.1	3.69	<3	40	<3	0.16	3.4	22	13	113	4.52	0.10	1.08	2706	8	<0.01	<1	0.11	26	<2	26	7	<5	<3	126
L1220 1150S	<0.1	1.91	<3	84	<3	0.56	3.7	28	14	30	4.96	0.14	1.12	1318	5	<0.01	5	0.07	33	<2	22	12	<5	<3	84
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.

PAMICON DEVELOPMENTS LTD. CANADA

1630 PANDORA STREET
VANCOUVER, BC V5L 1L8
(604) 251-5656



MAIN OFFICE
~~1908 TRIUMPH ST.~~
~~VANCOUVER, B.C. V6L 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

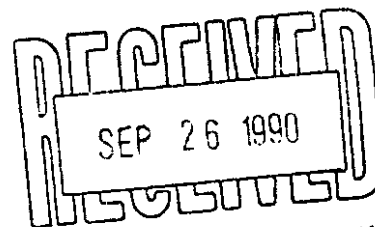
DATE: SEPT 12 1990

REPORT#: 900401 GA
JOB#: 900401

PROJECT#: THUMPER
SAMPLES ARRIVED: SEPT 06 1990
REPORT COMPLETED: SEPT 12 1990
ANALYSED FOR: Au ICP

INVOICE#: 900401 NA
TOTAL SAMPLES: 11
SAMPLE TYPE: 11 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.

1630 FANDORA STREET
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(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

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● FAX (604) 254-5717

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

REPORT NUMBER: 900401 GA JOB NUMBER: 900401 PANICON DEVELOPMENTS LTD. PAGE 1 OF 1

SAMPLE #	Au
L0+75B 000N	10
L0+75B 025N	10
L0+75B 050N	20
L0+75B 075N	15
L0+75B 100N	20
L0+75B 125N	10
L0+75B 150N	25
L0+75B 175N	10
L0+75B 200N	25
L0+75B 225N	25
L0+75B 250N	10

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 HNO₃ to H₂O 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: *[Signature]*

REPORT #: 900401 PA

PANICON DEVELOPMENTS LTD.

PROJECT: THUMPER

DATE IN: SEPT 06 1990

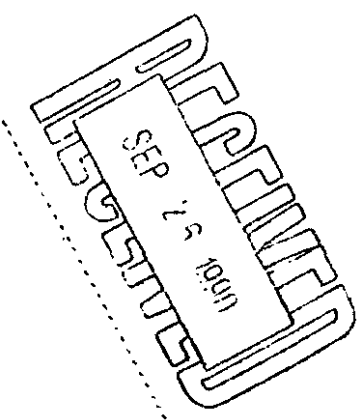
DATE OUT: SEPT 24 1990

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
L0+7SE 000N	0.1	3.66	<3	92	<3	0.12	2.3	11	17	24	4.11	0.02	0.28	872	14	<0.01	11	0.08	19	<2	10	8	<5	11	174
L0+7SE 025N	<0.1	2.67	<3	244	<3	0.10	1.4	8	12	10	3.06	<0.01	0.47	857	10	<0.01	4	0.12	<2	<2	6	5	<5	8	90
L0+7SE 050N	<0.1	6.07	<3	46	<3	0.04	1.2	7	14	11	4.99	0.02	0.08	1048	20	<0.01	2	0.04	<2	<2	11	1	<5	19	162
L0+7SE 075N	<0.1	4.55	<3	327	<3	0.08	1.7	7	16	13	4.48	0.01	0.10	822	15	<0.01	<1	0.07	16	<2	11	8	<5	14	139
L0+7SE 100N	0.2	1.99	<3	40	6	0.02	1.7	5	11	11	3.09	<0.01	0.16	301	9	<0.01	<1	0.08	10	<2	9	4	<5	6	66
L0+7SE 125N	<0.1	3.32	<3	102	<3	0.05	1.6	9	12	20	3.77	0.01	0.33	1493	11	<0.01	<1	0.13	12	<2	8	8	<5	11	147
L0+7SE 150N	<0.1	3.22	<3	176	<3	0.04	2.3	10	11	22	4.96	0.02	0.38	2214	12	<0.01	<1	0.09	11	<2	8	4	<5	10	260
L0+7SE 175N	0.1	4.20	<3	77	<3	0.02	1.4	8	14	22	3.77	0.01	0.24	874	13	<0.01	<1	0.11	3	<2	9	3	<5	13	215
L0+7SE 200N	<0.1	2.33	32	296	6	0.18	1.1	6	11	16	2.77	0.01	0.23	1450	9	0.81	<1	0.14	<2	<2	6	40	<5	7	113
L0+7SE 225N	<0.1	2.59	66	80	10	<0.01	2.1	15	7	22	3.12	0.01	0.88	4730	9	<0.01	<1	0.13	<2	<2	6	3	5	9	77
L0+7SE 250N	<0.1	3.95	<3	274	<3	0.02	3.0	7	11	14	4.96	0.02	0.15	2796	16	<0.01	<1	0.06	21	<2	10	2	<5	12	231

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 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 ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.



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VGC VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
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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

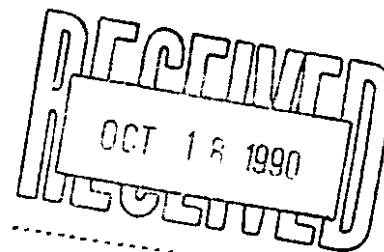
DATE: SEPT 21 1990

REPORT#: 900508 GA
JOB#: 900508

PROJECT#: THUMPER
SAMPLES ARRIVED: SEPT 17 1990
REPORT COMPLETED: SEPT 21 1990
ANALYSED FOR: Au ICP

INVOICE#: 900508 NA
TOTAL SAMPLES: 56
SAMPLE TYPE: 56 SOIL
REJECTS: DISCARDED

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.

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REPORT NUMBER: 900508 GA

JOB NUMBER: 900508

PAMICON DEVELOPMENTS LTD.

PAGE 1 OF 2

SAMPLE #	Au ppb
B/L 000S	5
B/L 025S	nd
B/L 050S	20
B/L 075S	nd
B/L 100S	15
B/L 125S	nd
B/L 150S	5
B/L 175S	10
B/L 200S	10
B/L 225S	25
B/L 250S	nd
B/L 275S	nd
B/L 300S	5
B/L 325S	nd
B/L 350S	5
B/L 375S	nd
B/L 400S	nd
B/L 425S	10
B/L 450S	10
B/L 475S	10
B/L 500S	10
B/L 525S	nd
B/L 550S	5
B/L 575S	nd
B/L 600S	5
B/L 625S	nd
B/L 650S	15
B/L 675S	5
B/L 700S	nd
B/L 750S	5
B/L 775S	nd
B/L 800S	nd
B/L 825S	10
B/L 850S	5
B/L 875S	5
B/L 900S	10
B/L 925S	nd
B/L 950S	15
B/L 975S	15

DETECTION LIMIT

5

nd = none detected

-- □ not analysed

is = insufficient sample

1630 PANDORA STREET
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VGC VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
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MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900500 GA

JOB NUMBER: 900500

PANICON DEVELOPMENTS LTD.

PAGE 2 OF 2

SAMPLE #	Au ppb
B/L 1000S	15
B/L 1025S	nd
B/L 1050S	20
B/L 1075S	20
B/L 1100S	nd
B/L 1125S	10
B/L 1150S	nd
B/L 1175S	10
B/L 1200S	5
B/L 1225S	nd
B/L 1250S	5
B/L 1275S	10
B/L 1300S	15
B/L 1325S	nd
B/L 1350S	15
B/L 1375S	5
B/L 1400S	10

DETECTION LIMIT
nd = none detected

5
-- = not analysed

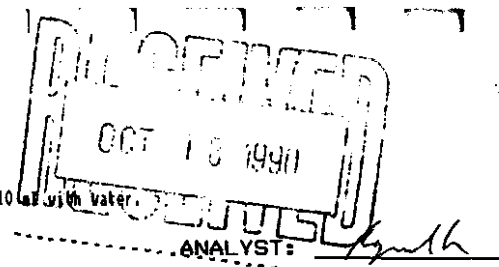
is = insufficient sample

WALCOBROS LABORATORIES LTD.

1630 Pandora Street, Vancouver, B.C. V5L 1L6
 Ph:(604)251-3636 Fax:(604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O 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 #: 900508 PA

PANICON DEVELOPMENTS LTD.

PROJECT: THUMPER

DATE IN: SEPT 17 1990

DATE OUT: OCT 17 1990

ATTENTION: MR. STEVE TOORUK

PAGE 1 OF 2

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
B/L 000S	0.4	5.79	<3	39	<3	0.06	1.0	5	31	14	4.56	0.08	0.07	392	32	0.06	27	0.03	<2	<2	23	2	<5	<3	80
B/L 025S	2.1	2.56	447	84	<3	0.20	0.7	16	23	37	5.00	0.09	0.49	2188	15	0.05	12	0.11	77	<2	12	14	<5	<3	147
B/L 050S	0.2	4.24	<3	38	<3	0.08	2.2	8	27	18	5.23	0.11	0.23	579	24	0.08	6	0.04	3	<2	21	5	<5	<3	124
B/L 075S	0.1	3.46	<3	70	<3	0.16	2.0	11	26	23	3.34	0.08	0.34	401	19	0.07	11	0.08	7	<2	16	16	<5	<3	112
B/L 100S	0.1	5.04	<3	86	<3	0.14	1.7	7	25	41	5.02	0.12	0.13	1072	27	0.15	12	0.04	30	<2	21	3	<5	<3	935
B/L 125S	0.2	5.54	<3	82	<3	0.09	1.9	8	30	21	4.46	0.10	0.15	709	28	0.09	4	0.06	<2	<2	23	6	<5	<3	136
B/L 150S	<0.1	2.37	<3	22	<3	0.06	2.2	7	19	14	4.86	0.08	0.18	315	16	0.06	9	0.06	17	<2	17	5	<5	<3	84
B/L 175S	<0.1	9.69	<3	44	<3	0.06	0.6	7	32	15	5.38	0.13	0.07	1118	42	0.10	3	0.05	<2	<2	32	2	<5	<3	132
B/L 200S	<0.1	2.74	<3	30	<3	0.06	1.2	8	20	13	4.17	0.07	0.10	223	18	0.08	7	0.04	16	<2	19	4	<5	<3	84
B/L 225S	<0.1	5.66	<3	70	<3	0.12	0.9	9	28	25	3.21	0.06	0.40	736	23	0.04	10	0.05	<2	<2	21	13	<5	<3	76
B/L 250S	<0.1	2.76	<3	198	<3	0.15	1.2	11	20	28	3.59	0.09	0.42	2021	13	0.07	16	0.06	11	<2	14	11	<5	<3	118
B/L 275S	<0.1	5.40	<3	81	<3	0.07	1.4	8	26	15	4.16	0.09	0.12	960	27	0.09	3	0.06	<2	<2	23	4	<5	<3	149
B/L 300S	0.1	2.84	<3	110	<3	0.12	0.8	10	20	18	3.20	0.08	0.31	561	13	0.06	12	0.05	6	<2	12	16	<5	<3	83
B/L 325S	<0.1	2.99	<3	44	<3	0.11	1.5	10	22	19	4.44	0.08	0.39	600	17	0.05	12	0.04	5	<2	14	10	<5	<3	78
B/L 350S	0.2	3.33	<3	18	<3	0.06	2.3	7	22	21	7.59	0.12	0.06	366	23	0.07	7	0.05	26	<2	22	2	<5	<3	65
B/L 375S	0.2	4.75	<3	37	<3	0.07	2.5	10	25	16	4.85	0.10	0.15	1172	25	0.09	11	0.07	2	<2	22	4	<5	<3	162
B/L 400S	0.1	0.96	<3	53	<3	0.02	1.0	4	8	8	1.14	0.01	0.06	70	7	0.02	5	0.01	11	<2	7	6	<5	<3	35
B/L 425S	0.2	0.89	<3	54	<3	0.06	1.1	3	6	5	0.97	0.02	0.07	65	5	0.02	8	0.03	16	<2	6	8	<5	<3	29
B/L 450S	0.5	2.71	<3	54	<3	0.07	0.9	5	18	11	3.21	0.05	0.18	229	17	0.03	11	0.06	3	<2	13	6	<5	<3	57
B/L 475S	0.1	2.53	<3	25	<3	0.04	1.8	6	18	12	4.54	0.07	0.10	377	19	0.06	8	0.06	16	<2	17	3	<5	<3	74
B/L 500S	0.3	2.49	<3	112	<3	0.10	1.6	8	19	16	4.82	0.08	0.15	424	18	0.06	17	0.06	17	<2	16	11	<5	<3	93
B/L 525S	0.1	2.42	213	116	<3	0.08	1.4	10	17	22	3.43	0.06	0.29	3161	17	0.05	13	0.18	12	<2	13	9	<5	<3	175
B/L 550S	0.1	3.83	36	37	<3	0.06	1.3	7	20	14	3.91	0.08	0.15	1585	23	0.07	15	0.06	26	<2	17	4	<5	<3	171
B/L 575S	<0.1	1.35	258	56	<3	0.05	1.1	13	18	19	4.66	0.07	0.13	10379	25	0.05	12	0.06	82	<2	12	4	<5	<3	191
B/L 600S	<0.1	2.61	951	155	<3	0.17	<0.1	11	15	24	3.93	0.09	0.23	6129	36	0.07	16	0.08	12	<2	13	16	<5	<3	211
B/L 625S	0.3	3.88	<3	31	<3	0.04	2.1	5	23	11	5.40	0.09	0.05	356	25	0.07	13	0.05	12	<2	22	3	<5	<3	71
B/L 650S	0.4	6.10	<3	64	<3	0.05	1.3	7	23	13	5.12	0.11	0.10	1460	31	0.10	13	0.05	<2	<2	25	2	<5	<3	196
B/L 675S	0.2	2.07	1090	622	<3	0.77	<0.1	9	12	25	4.20	0.17	0.11	>20000	32	0.07	20	0.18	51	<2	12	44	6	<3	467
B/L 700S	0.2	5.51	<3	32	<3	0.05	1.6	5	23	12	4.29	0.08	0.07	748	27	0.07	16	0.05	<2	<2	23	2	<5	<3	96
B/L 750S	0.4	2.83	<3	32	<3	0.04	2.2	8	21	13	6.23	0.09	0.10	257	19	0.07	15	0.04	19	<2	20	4	<5	<3	70
B/L 775S	0.5	2.44	<3	22	<3	0.04	2.6	8	20	13	6.68	0.10	0.07	324	22	0.08	12	0.03	35	<2	20	3	<5	<3	93
B/L 800S	0.3	3.72	447	60	<3	0.07	0.8	10	25	25	5.17	0.12	0.28	3544	22	0.09	23	0.11	19	<2	19	5	<5	<3	265
B/L 825S	0.3	2.26	<3	54	<3	0.16	2.3	14	20	26	3.94	0.09	0.49	1133	11	0.05	27	0.06	15	<2	11	14	<5	<3	137
B/L 850S	0.5	3.87	<3	36	<3	0.06	1.5	9	23	23	4.80	0.10	0.22	1184	22	0.08	21	0.08	12	<2	19	5	<5	<3	145
B/L 875S	1.1	4.02	<3	22	<3	0.03	2.5	6	25	10	4.53	0.07	0.07	255	22	0.06	16	0.05	8	<2	23	3	<5	<3	63
B/L 900S	0.4	5.33	<3	13	<3	0.06	2.7	7	28	18	7.19	0.14	0.10	453	29	0.11	16	0.09	7	<2	25	2	<5	<3	104
B/L 925S	1.3	2.62	55	55	<3	0.05	2.9	9	21	18	4.67	0.07	0.15	1411	21	0.05	16	0.13	10	<2	16	5	<5	<3	118
B/L 950S	0.7	2.26	150	26	<3	0.05	1.3	10	24	19	5.26	0.09	0.20	1007	27	0.07	20	0.07	28	<2	17	5	<5	<3	88
B/L 975S	0.4	5.23	<3	29	<3	0.03	1.7	8	29	15	4.28	0.09	0.09	1156	32	0.07	38	0.05	<2	<2	23	2	<5	<3	119

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.

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 HNO₃ to H₂O 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: *Ryall*

REPORT #: 900508 PA

PANICON DEVELOPMENTS LTD.

PROJECT: THUMPER

DATE IN: SEPT 17 1990

DATE OUT: OCT 17 1990

ATTENTION: MR. STEVE TORORUK

PAGE 2 OF 2

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
B/L 1000S	<0.1	2.90	125	84	<3	0.08	0.8	12	46	25	3.83	0.08	0.40	6953	48	0.06	146	0.07	14	<2	12	5	<5	<3	127
B/L 1025S	<0.1	3.75	<3	18	<3	0.06	0.2	8	25	16	4.80	0.09	0.12	1332	22	0.08	5	0.05	4	<2	19	3	<5	<3	108
B/L 1050S	<0.1	4.90	<3	15	<3	0.06	0.5	7	25	18	5.58	0.11	0.08	676	28	0.09	1	0.05	<2	<2	23	2	<5	<3	100
B/L 1075S	<0.1	6.47	222	47	<3	0.06	<0.1	8	26	16	4.90	0.13	0.10	1568	29	0.09	2	0.07	<2	<2	23	2	<5	<3	157
B/L 1100S	<0.1	2.09	875	84	<3	0.04	<0.1	14	9	25	3.48	0.07	0.62	1183	11	0.06	4	0.03	6	<2	7	3	<5	<3	56
B/L 1125S	<0.1	6.15	<3	33	<3	0.04	1.0	5	27	15	4.74	0.10	0.09	1122	30	0.08	3	0.05	<2	<2	24	2	<5	<3	136
B/L 1150S	0.1	4.75	<3	35	<3	0.05	<0.1	8	22	17	5.37	0.11	0.12	1231	26	0.11	8	0.06	<2	<2	20	3	<5	<3	127
B/L 1175S	<0.1	5.32	<3	70	<3	0.03	<0.1	5	23	19	4.81	0.09	0.07	885	27	0.07	3	0.04	<2	<2	22	3	<5	<3	93
B/L 1200S	<0.1	4.24	<3	25	<3	0.03	1.1	9	22	20	4.90	0.10	0.21	330	27	0.08	3	0.06	5	<2	19	4	<5	<3	113
B/L 1225S	<0.1	2.95	64	80	<3	0.04	<0.1	18	13	25	3.28	0.07	0.95	718	14	0.06	8	0.06	<2	<2	12	7	<5	<3	103
B/L 1250S	<0.1	6.34	<3	18	<3	0.02	0.7	6	28	16	6.46	0.12	0.06	422	31	0.09	1	0.03	<2	<2	26	<1	<5	<3	76
B/L 1275S	<0.1	2.81	<3	134	<3	0.05	0.3	12	13	22	3.96	0.08	0.48	1715	14	0.06	9	0.08	6	<2	12	6	<5	<3	122
B/L 1300S	<0.1	3.16	<3	90	<3	<0.01	<0.1	9	10	22	3.43	0.06	0.54	1050	10	0.04	9	0.06	<2	<2	10	3	<5	<3	96
B/L 1325S	<0.1	2.64	<3	119	<3	0.04	<0.1	19	13	33	4.02	0.08	0.40	2044	14	0.07	7	0.11	16	<2	12	6	<5	<3	107
B/L 1350S	<0.1	5.01	<3	28	<3	0.04	<0.1	8	24	21	4.62	0.10	0.15	432	27	0.09	6	0.07	3	<2	23	5	<5	<3	129
B/L 1375S	<0.1	4.68	<3	14	<3	0.01	0.5	7	24	17	6.07	0.11	0.08	1069	27	0.09	9	0.04	7	<2	22	1	<5	<3	110
B/L 1400S	0.1	1.94	39	183	<3	0.05	<0.1	17	9	31	4.25	0.08	0.42	2051	10	0.06	7	0.08	17	<2	7	5	<5	<3	85
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.

VANGEOCHEM LAB

GEOCHEMICAL ANALYTICAL REPORT
=====

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

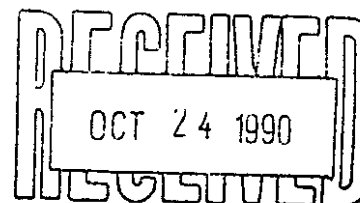
DATE: OCT 01 1990

REPORT#: 900539 GA
JOB#: 900539

PROJECT#: THUMPER
SAMPLES ARRIVED: SEPT 20 1990
REPORT COMPLETED: OCT 01 1990
ANALYSED FOR: Au ICP

INVOICE#: 900539 NA
TOTAL SAMPLES: 56
SAMPLE TYPE: 56 SOIL
REJECTS: DISCARDED

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.

REPORT NUMBER: 900539 GA

JOB NUMBER: 900539

PANICON DEVELOPMENTS LTD.

PAGE 1 OF 2

SAMPLE #	Au ppb
LO+75E 275N	15
LO+75E 300N	nd
LO+75E 325N	10
LO+75E 350N	15
LO+75E 375N	25
LO+75E 400N	nd
LO+75E 425N	10
LO+75E 450N	15
LO+75E 475N	5
LO+75E 500N	15
LO+75E 525N	10
LO+75E 550N	15
LO+75E 575N	15
LO+75E 600N	10
LO+75E 625N	5
LO+75E 650N	5
LO+75E 675N	5
LO+75E 700N	nd
LO+75E 725N	nd
LO+75E 750N	20
LO+75E 775N	5
LO+75E 800N	nd
LO+75E 825N	5
LO+75E 850N	nd
LO+75E 875N	5
LO+75E 925N	nd
LO+75E 950N	nd
LO+75E 975N	nd
LO+75E 1000N	15
LO+75E 1025N	nd
LO+75E 1050N	nd
LO+75E 1075N	nd
LO+75E 1100N	nd
LO+75E 1125N	20
LO+75E 1150N	5
LO+75E 1175N	5
LO+75E 1200N	nd
LO+75E 1225N	20
LO+75E 1250N	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

900N

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: 900539 GA

JOB NUMBER: 900539

PANICON DEVELOPMENTS LTD.

PAGE 2 OF 2

SAMPLE #	Au
	ppb
L0+75E 1275N	nd
L0+75E 1300N	nd
L0+75E 1325N	nd
L2+00E 000S	nd
L2+00E 025S	5
L2+00E 050S	15
L2+00E 075S	nd
L2+00E 100S	20
L2+00E 125S	5
L2+00E 150S	20
L2+00E 175S	10
L2+00E 200S	nd
L2+00E 225S	10
L2+00E 250S	5
L2+00E 275S	nd
L2+00E 300S	nd
L2+00E 325S	nd

DETECTION LIMIT

5

nd = none detected

-- = 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 HNO₃ to H₂O 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: *[Signature]*

REPORT #: 900539 PA

PANICON DEVELOPMENTS LTD.

PROJECT: THUMPER

DATE IN: SEPT 20 1990

DATE OUT: OCT 19 1990

ATTENTION: MR. STEVE TODORUK

PAGE 1 OF 2

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
L0+75E 275N	0.2	2.79	<3	72	<3	0.06	1.0	9	14	12	4.23	0.07	0.30	1579	14	0.05	9	0.07	<2	<2	13	8	<5	<3	92
L0+75E 300N	0.5	2.82	651	376	<3	0.38	<0.1	11	14	19	2.78	0.10	0.42	1444	16	0.06	9	0.10	15	<2	11	185	<5	<3	118
L0+75E 325N	0.6	2.22	22	72	<3	0.05	<0.1	20	10	24	3.42	0.05	0.52	3133	9	0.04	6	0.17	<2	<2	9	7	<5	<3	49
L0+75E 350N	0.4	2.69	37	264	<3	0.22	0.6	11	11	20	3.39	0.09	1.07	849	12	0.06	12	0.06	<2	<2	11	42	<5	<3	111
L0+75E 375N	0.2	2.80	<3	269	<3	0.30	1.7	20	15	25	6.42	0.15	0.90	1576	9	0.09	8	0.07	9	<2	16	23	<5	<3	115
L0+75E 400N	0.2	2.84	<3	88	<3	0.10	0.7	11	12	14	3.56	0.08	0.65	246	10	0.06	10	0.05	<2	<2	10	10	<5	<3	88
L0+75E 425N	<0.1	3.36	<3	92	<3	0.14	0.7	13	13	24	2.86	0.08	1.33	265	15	0.06	12	0.06	<2	<2	15	12	<5	<3	123
L0+75E 450N	<0.1	3.55	45	56	<3	0.05	1.0	23	14	31	4.12	0.08	2.28	2999	19	0.06	10	0.09	15	<2	14	6	<5	<3	123
L0+75E 475N	<0.1	2.70	44	50	<3	0.88	<0.1	4	10	16	3.09	0.13	0.34	732	9	0.04	5	0.05	<2	<2	12	24	<5	<3	94
L0+75E 500N	<0.1	2.49	<3	13	<3	0.04	0.6	6	15	18	6.64	0.10	0.12	696	16	0.10	8	0.02	28	<2	22	2	<5	<3	121
L0+75E 525N	<0.1	3.52	<3	78	<3	0.09	0.7	9	14	39	4.94	0.10	0.31	1854	12	0.10	10	0.04	<2	<2	14	9	<5	<3	194
L0+75E 550N	0.2	3.59	<3	32	<3	0.05	<0.1	6	19	25	4.02	0.07	0.20	266	13	0.07	8	0.14	3	<2	20	6	<5	<3	114
L0+75E 575N	0.1	4.35	<3	16	<3	0.03	0.1	4	16	16	6.01	0.10	0.06	839	19	0.09	6	0.05	11	<2	26	2	<5	<3	78
L0+75E 600N	<0.1	4.79	<3	40	<3	0.05	<0.1	9	16	19	4.99	0.09	0.26	2265	16	0.09	8	0.07	<2	<2	20	4	<5	<3	178
L0+75E 625N	<0.1	4.92	<3	58	<3	0.06	<0.1	6	15	20	3.83	0.07	0.19	903	14	0.07	7	0.07	<2	<2	20	6	<5	<3	106
L0+75E 650N	<0.1	4.66	<3	46	<3	0.06	0.3	8	18	24	4.69	0.09	0.22	588	16	0.09	10	0.08	<2	<2	21	7	<5	<3	132
L0+75E 675N	0.2	7.00	<3	26	<3	0.03	<0.1	4	15	17	5.45	0.10	0.09	743	23	0.10	6	0.04	<2	<2	26	2	<5	<3	139
L0+75E 700N	<0.1	4.60	<3	26	<3	0.03	0.6	8	14	18	4.81	0.07	0.20	1700	17	0.09	9	0.08	<2	<2	23	3	<5	<3	98
L0+75E 725N	<0.1	2.06	1324	170	<3	0.24	<0.1	10	11	15	5.01	0.09	0.10	14159	24	0.09	7	0.07	59	<2	11	10	<5	<3	596
L0+75E 750N	<0.1	5.23	806	141	<3	0.02	<0.1	18	13	19	4.16	0.07	0.23	4261	45	0.06	8	0.04	18	<2	12	4	<5	<3	218
L0+75E 775N	0.2	2.99	<3	37	<3	0.03	<0.1	3	13	15	4.92	0.06	0.16	252	14	0.05	10	0.07	14	<2	20	5	<5	<3	71
L0+75E 800N	0.2	4.13	<3	98	<3	0.05	<0.1	4	11	12	3.42	0.06	0.13	597	13	0.07	6	0.04	<2	<2	19	4	<5	<3	79
L0+75E 825N	0.1	2.14	22	315	<3	0.23	<0.1	9	6	14	2.83	0.06	0.47	1466	7	0.04	11	0.06	<2	<2	6	11	<5	<3	76
L0+75E 850N	0.3	4.99	<3	47	<3	0.03	<0.1	8	14	25	3.93	0.07	0.20	1246	16	0.08	10	0.07	<2	<2	20	4	<5	<3	158
L0+75E 875N	0.2	3.45	<3	69	<3	0.03	<0.1	8	11	17	2.83	0.05	0.30	1260	12	0.05	5	0.10	<2	<2	16	6	<5	<3	89
L0+75E 925N	0.6	4.30	<3	30	<3	0.02	0.8	7	18	26	8.36	0.12	0.14	212	22	0.10	6	0.03	21	<2	31	3	<5	<3	63
L0+75E 950N	0.5	5.40	<3	22	<3	0.01	<0.1	6	15	20	6.57	0.10	0.11	375	22	0.10	6	0.02	<2	<2	27	2	<5	<3	111
L0+75E 975N	0.3	0.76	4	56	<3	<0.01	<0.1	1	3	15	0.58	<0.01	0.05	10	3	<0.01	6	0.03	16	<2	8	4	<5	<3	24
L0+75E 1000N	0.2	3.35	<3	28	<3	0.01	0.2	3	14	14	6.58	0.09	0.07	293	17	0.09	3	0.04	24	<2	27	2	<5	<3	70
L0+75E 1025N	0.2	3.62	<3	70	<3	0.05	<0.1	9	14	27	3.06	0.06	0.33	575	11	0.07	11	0.08	<2	<2	18	8	<5	<3	104
L0+75E 1050N	0.1	3.53	<3	13	<3	<0.01	<0.1	3	15	15	7.16	0.09	0.07	197	17	0.10	5	0.04	13	<2	26	<1	<5	<3	60
L0+75E 1075N	<0.1	3.26	<3	56	<3	0.08	<0.1	9	15	28	3.04	0.05	0.36	306	10	0.06	9	0.09	<2	<2	21	12	<5	<3	69
L0+75E 1100N	<0.1	1.97	<3	30	<3	0.05	0.6	8	13	24	6.82	0.09	0.27	540	12	0.07	14	0.04	23	<2	21	8	<5	<3	80
L0+75E 1125N	<0.1	3.10	<3	49	<3	0.10	<0.1	10	16	28	2.75	0.06	0.39	336	9	0.05	13	0.09	<2	<2	18	12	<5	<3	68
L0+75E 1150N	<0.1	2.60	<3	15	<3	<0.01	<0.1	3	14	15	3.44	0.04	0.05	47	10	0.05	5	0.04	8	<2	27	3	<5	<3	33
L0+75E 1175N	<0.1	2.49	<3	68	<3	0.10	<0.1	11	10	33	3.36	0.06	0.46	989	8	0.06	12	0.07	8	<2	13	13	<5	<3	108
L0+75E 1200N	<0.1	2.81	<3	62	<3	0.20	<0.1	13	11	31	3.54	0.08	0.56	657	9	0.07	13	0.07	19	<2	16	21	<5	<3	89
L0+75E 1225N	<0.1	2.32	<3	84	<3	0.18	0.8	16	9	45	4.10	0.08	0.59	1641	8	0.06	12	0.07	10	<2	12	20	<5	<3	119
L0+75E 1250N	<0.1	2.62	<3	57	<3	0.11	<0.1	9	11	29	2.71	0.05	0.46	302	8	0.05	15	0.07	<2	<2	13	15	<5	<3	90

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.

UNITED CANADA

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 HNO₃ to H₂O 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: *[Signature]*

REPORT #: 900539 PA

PANTON DEVELOPMENTS LTD.

PROJECT: THUMPER

DATE IN: SEPT 20 1990

DATE OUT: OCT 22 1990

ATTENTION: MR. STEVE TODORUK

PAGE 2 OF 2

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
L0+75E 1275N	0.4	3.54	<3	70	<3	0.21	<0.1	11	14	24	3.89	0.10	0.34	918	12	0.07	8	0.05	<2	<2	20	20	<5	<3	130
L0+75E 1300N	0.3	3.62	<3	27	<3	0.07	<0.1	7	15	15	4.44	0.08	0.15	334	14	0.07	<1	0.05	<2	<2	37	5	<5	<3	74
L0+75E 1325N	0.3	6.70	<3	105	<3	2.07	<0.1	10	12	38	3.30	0.23	0.52	847	9	0.07	<1	0.07	<2	<2	3	228	<5	<3	103
L2+00E 000S	0.7	2.11	<3	27	<3	0.09	<0.1	5	8	12	1.67	0.02	0.19	139	9	0.04	<1	0.08	<2	<2	45	13	<5	<3	47
L2+00E 025S	0.2	3.77	<3	81	<3	0.12	<0.1	12	13	27	4.03	0.09	0.41	1258	9	0.07	<1	0.10	<2	<2	9	13	<5	<3	114
L2+00E 050S	0.1	2.51	<3	99	<3	0.70	<0.1	29	13	35	4.89	0.17	1.47	2003	8	0.07	<1	0.06	<2	<2	49	34	<5	<3	112
L2+00E 075S	0.2	3.29	<3	67	<3	0.14	<0.1	11	14	22	2.83	0.06	0.37	352	8	0.06	<1	0.05	<2	<2	43	16	<5	<3	99
L2+00E 100S	0.3	3.68	<3	110	<3	0.08	<0.1	10	8	30	3.84	0.08	0.33	1600	8	0.06	<1	0.06	<2	<2	9	10	<5	<3	128
L2+00E 125S	0.1	2.83	<3	106	<3	0.16	<0.1	11	10	23	3.22	0.05	0.49	838	6	0.05	<1	0.07	<2	<2	10	20	<5	<3	98
L2+00E 150S	0.1	2.32	<3	53	<3	0.11	<0.1	12	10	25	3.40	0.05	0.47	1084	5	0.03	<1	0.04	<2	<2	<2	14	<5	<3	77
L2+00E 175S	0.2	3.13	<3	57	<3	0.06	<0.1	10	10	23	3.08	0.05	0.37	306	7	0.06	<1	0.06	<2	<2	24	14	<5	<3	71
L2+00E 200S	0.3	4.02	<3	60	<3	<0.01	<0.1	8	10	23	3.24	0.05	0.28	587	9	0.05	<1	0.07	<2	<2	21	8	<5	<3	70
L2+00E 225S	0.2	2.57	<3	92	<3	0.10	<0.1	13	11	30	3.04	0.06	0.51	529	6	0.06	<1	0.07	<2	<2	13	18	<5	<3	96
L2+00E 250S	0.1	2.91	<3	454	<3	0.24	<0.1	19	11	29	3.00	0.08	0.88	789	5	0.06	<1	0.08	<2	<2	37	34	<5	<3	85
L2+00E 275S	0.3	3.05	<3	43	<3	<0.01	<0.1	7	7	16	1.92	0.02	0.25	208	6	0.04	<1	0.07	<2	<2	43	6	<5	<3	50
L2+00E 300S	0.2	3.71	<3	64	<3	<0.01	<0.1	9	8	21	3.70	0.07	0.26	835	10	0.11	<1	0.06	<2	<2	23	5	<5	<3	178
L2+00E 325S	0.2	2.49	<3	21	<3	<0.01	<0.1	7	4	11	3.51	0.03	0.09	363	9	0.06	<1	0.04	<2	<2	53	<1	<5	<3	53

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 ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

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 reported on herein or in the securities of Thumper Resources Corp. nor do I expect to receive such interest.
7. THAT I consent to the use by Thumper Resources Corp. 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 20th day of March, 1991.



Steve L. Todoruk, Geologist

APPENDIX VII

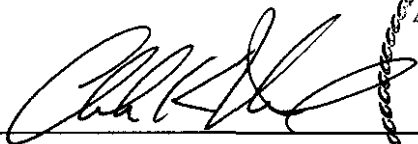
ENGINEER'S CERTIFICATE

ENGINEER'S CERTIFICATE

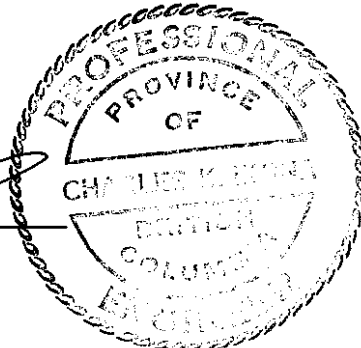
I, CHARLES K. IKONA, of 5 Cowley Court, Port Moody, in the Province of British Columbia, DO HEREBY CERTIFY:

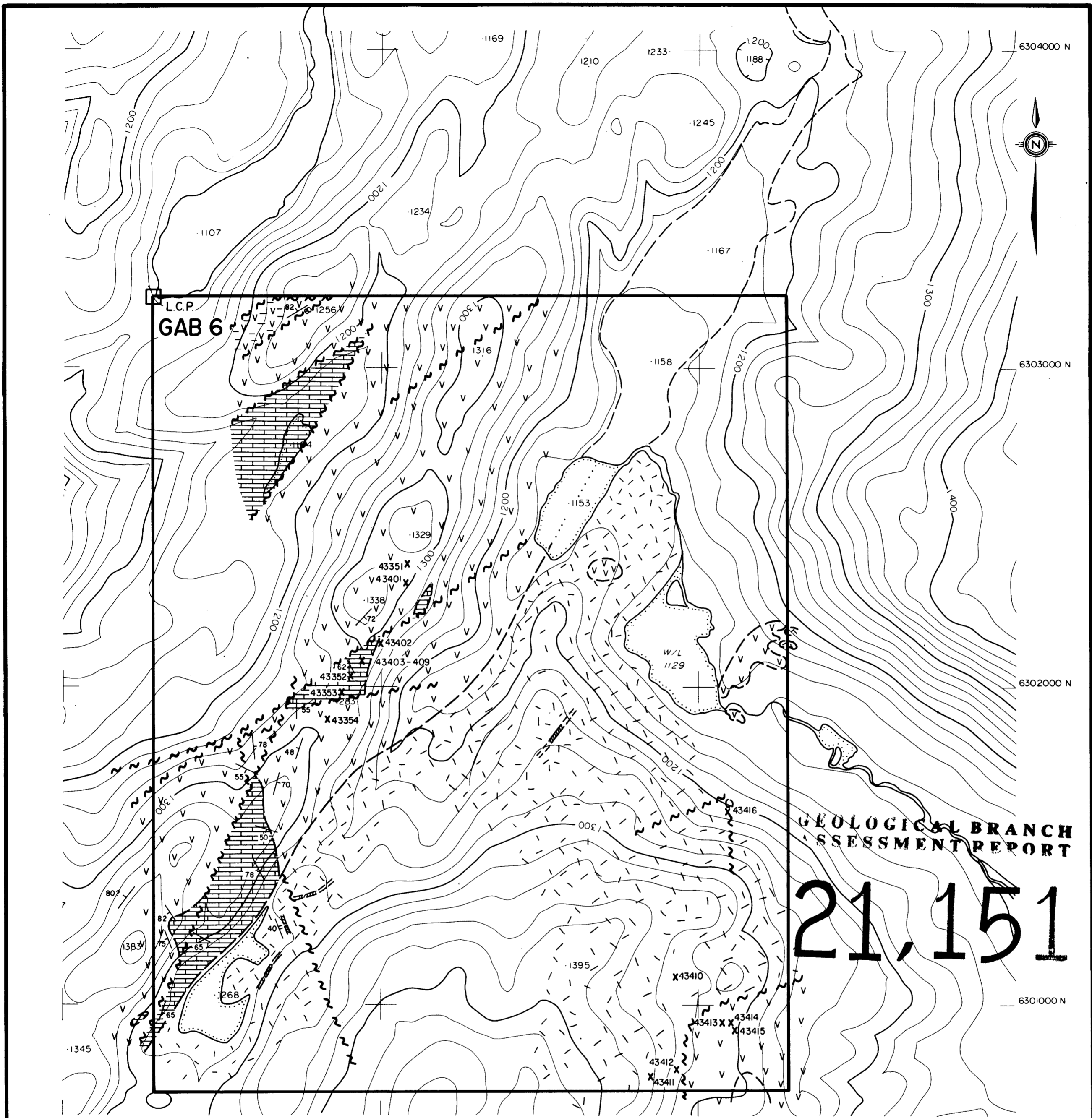
1. THAT I am a Consulting Mining Engineer with offices at Suite 711, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a degree in Mining Engineering.
3. THAT I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. THAT this report is based on work conducted under my direction in 1990 and on extensive knowledge of the immediate area.
5. THAT I have no direct or indirect interest in the property described herein or the securities of the Company nor do I expect to receive any such interest.
6. THAT I consent to the use by Thumper Resources Corp. 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 20th day of MARCH, 1991.



Charles K. Ikona, P.Eng.





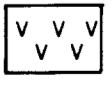
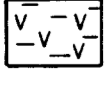



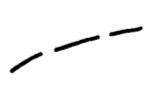
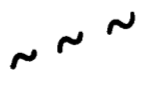
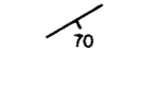
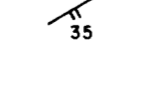

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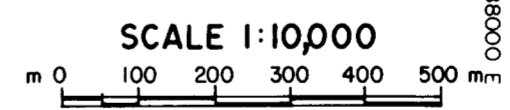
21,151

LEGEND

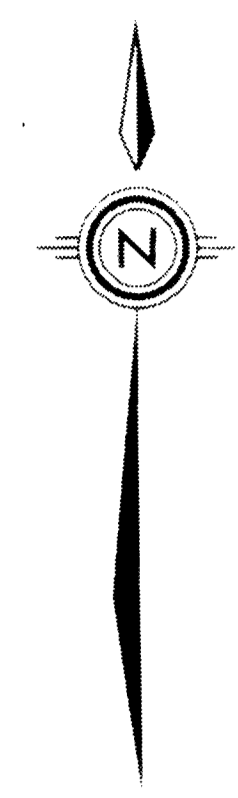
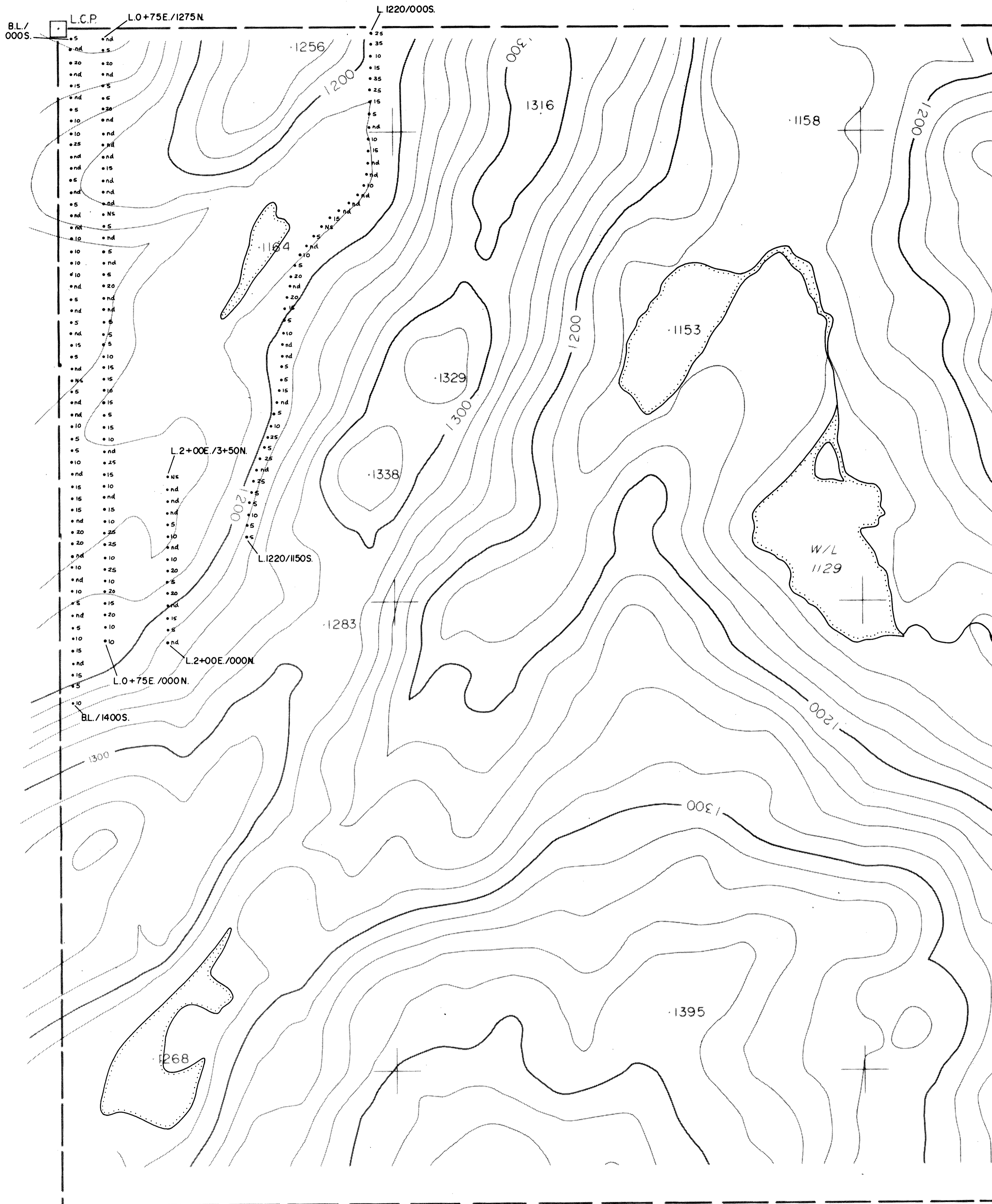
SYMBOLS

-  ANDESITE DYKE : Dark green, fine grained or fine porph. texture dykes <1 cm-5m wide post intrusive
-  GRANITE: Subporphyritic texture with 3-5 mm quartz xtlls in K-spar, (plag), (mafics) coarse-med grained ground mass
-  VOLCANIC PYROCLASTICS: Mainly "agglomerates" + tuffs (of same episode ?)
-  VOLCANIC SILTSTONES: And/or wackes
-  LIMESTONE: Light grey, with buff ankerite alteration locally, crinoidal limestone; hosts barite ± Cu ± Pb mineralization (fault associated)

-  GEOLOGICAL CONTACT
-  ASSUMED FAULT
-  BEDDING ; DIP
-  DYKE ; DIP
-  ROCK SAMPLE LOCATION



THUMPER RESOURCES CORP.			
GAB 6 CLAIM 1990 PROPERTY GEOLOGY & ROCK SAMPLE LOCATION MAP			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN. J.W.	N.T.S. 1048 / 15	DATE. MARCH, 1991	FIG. 6



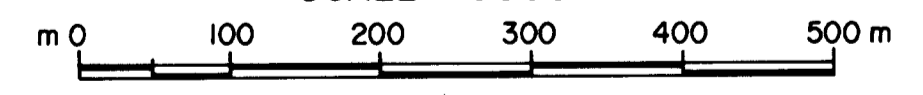
LEGEND

25 • SOIL SAMPLE LOCATION SHOWING Au IN P.P.B.

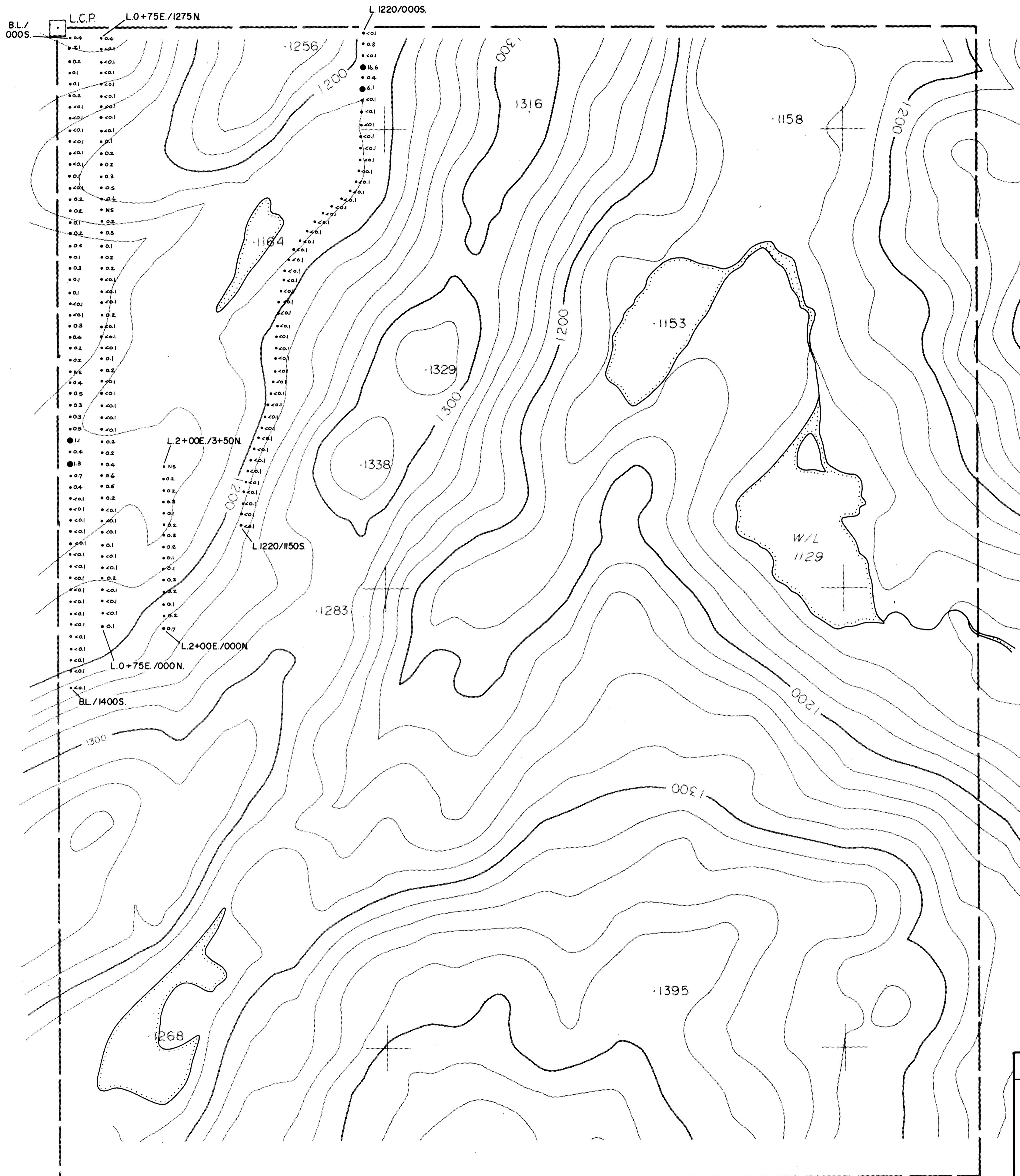
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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SCALE 1:5000



THUMPER RESOURCES CORP.			
GAB 6 CLAIM			
SOIL GEOCHEMISTRY			
GOLD			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN.	N.T.S.	DATE	FIG.
J.W.	104 B/15	MARCH, 1991	7



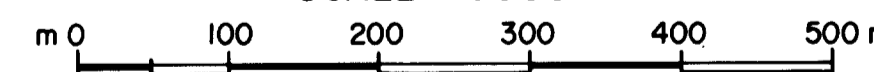
LEGEND

• Ag SOIL SAMPLE LOCATION SHOWING Ag IN PPM.

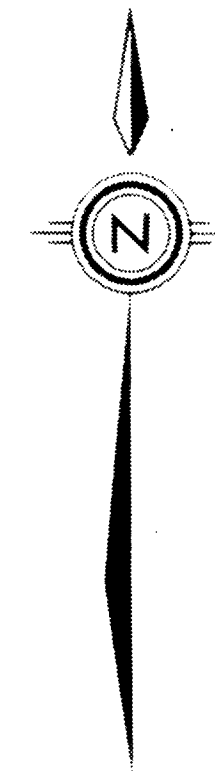
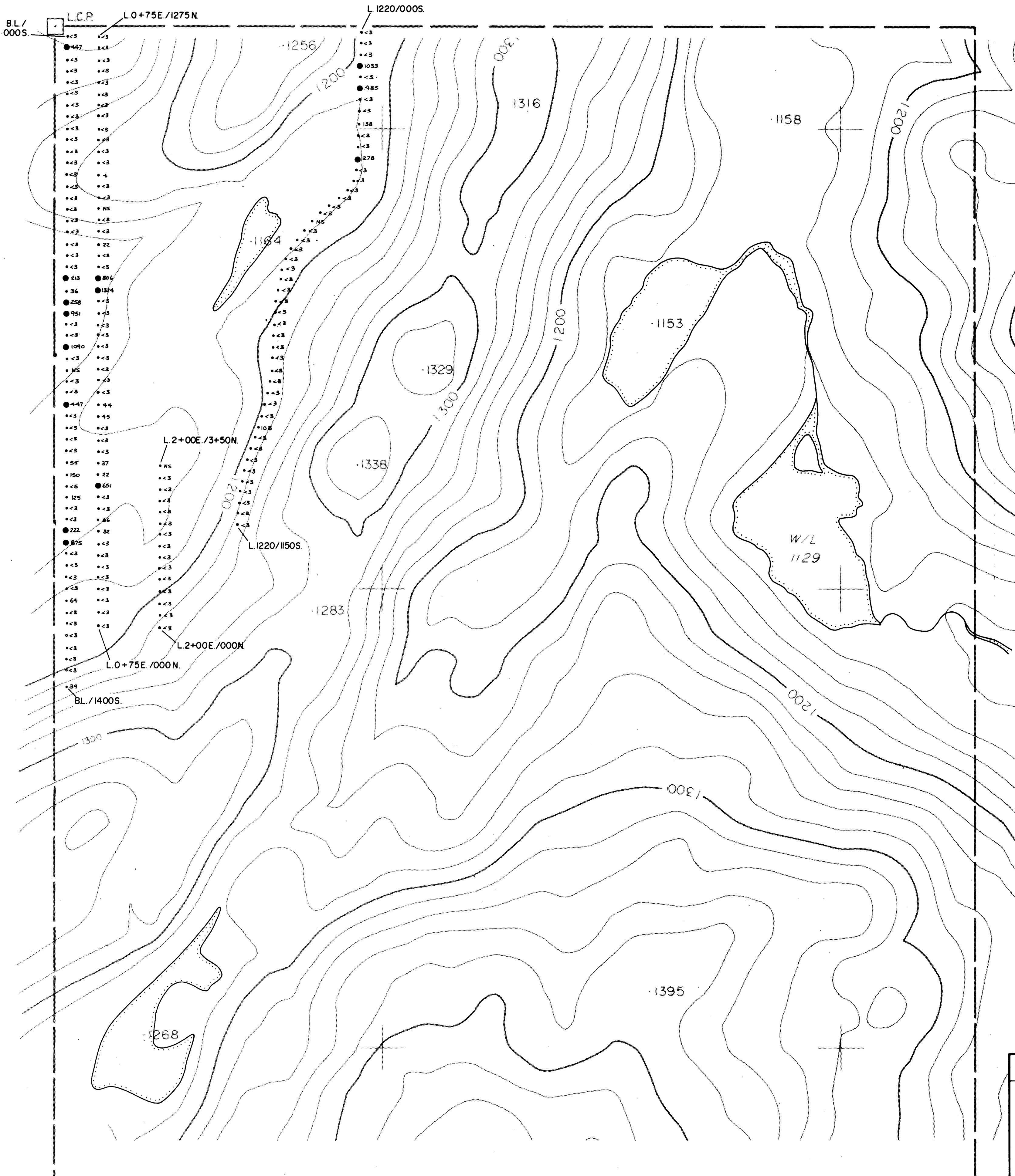
• Ag 30000
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SCALE 1:5000



THUMPER RESOURCES CORP.			
GAB 6 CLAIM SOIL GEOCHEMISTRY SILVER			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN. J.W.	N.T.S. 104 B/15	DATE. MARCH, 1991	FIG. 8



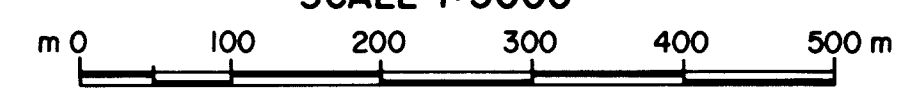
LEGEND

1500 SOIL SAMPLE LOCATION SHOWING AS IN P.P.M.

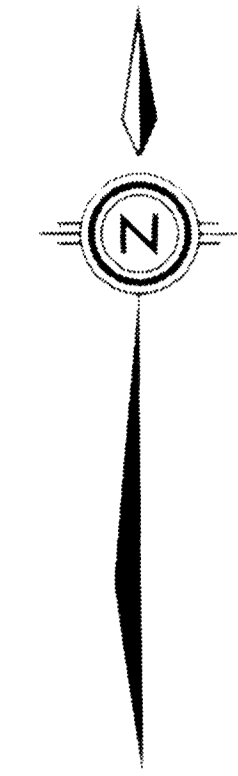
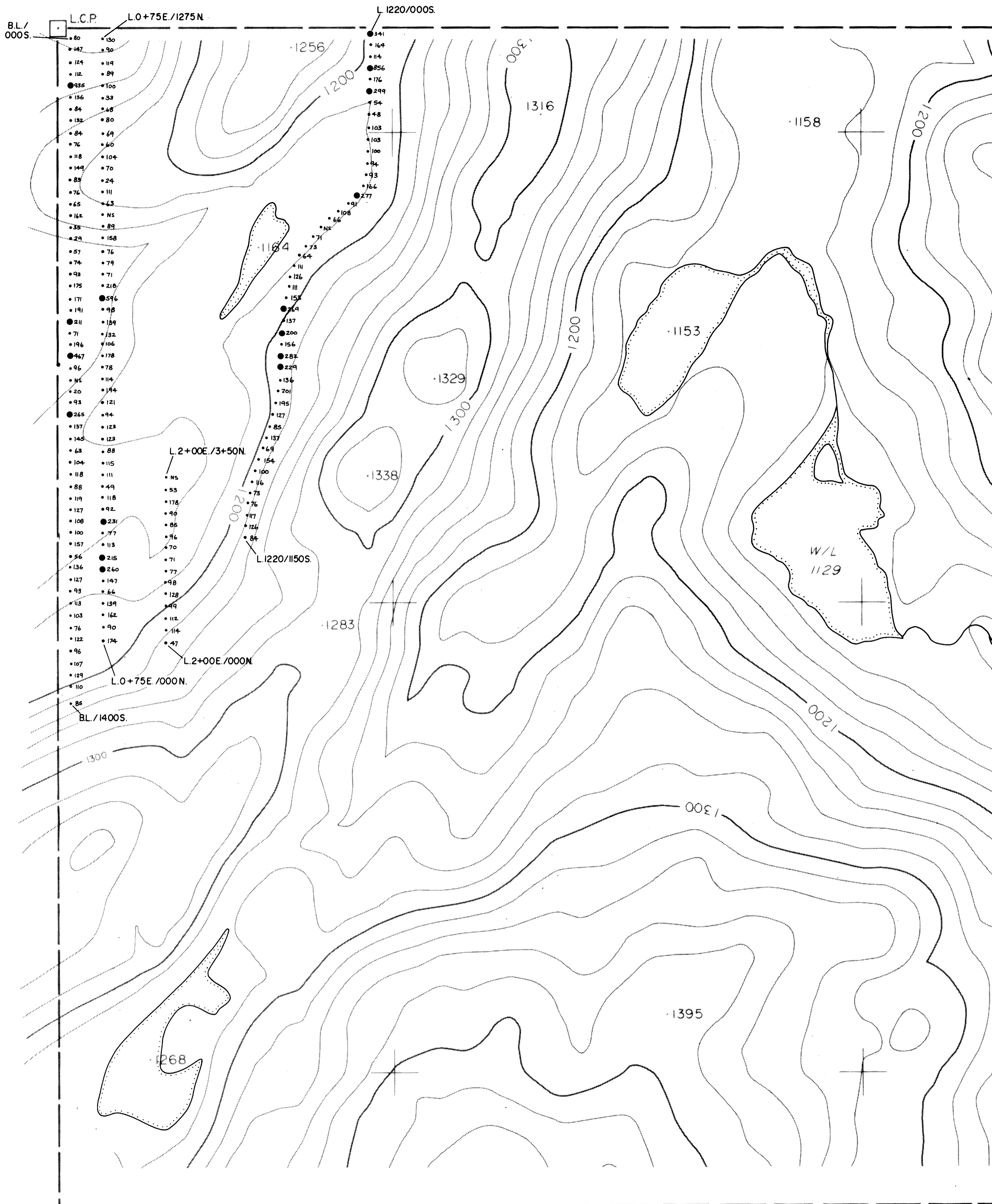
● AS SAMPLED 200 P.P.M.
**GEOLOGICAL BRANCH
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21,151

SCALE 1:5000



THUMPER RESOURCES CORP.			
GAB 6 CLAIM SOIL GEOCHEMISTRY ARSENIC			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN. J.W.	N.T.S. 104 B/15	DATE. MARCH, 1991	FIG. 9



LEGEND
 122 • SOIL SAMPLE LOCATION SHOWING Zn IN PPM.
 • Zn

**GEOLOGICAL BRANCH
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21,151

SCALE 1:5000
 0 100 200 300 400 500 m

THUMPER RESOURCES CORP.			
GAB 6 CLAIM			
SOIL GEOCHEMISTRY			
ZINC			
LIARD MINING DIVISION, B.C.			
PAMICON DEVELOPMENTS LTD.			
DRAWN.	N.T.S.	DATE	FIG.
J.W.	104 B/15	MARCH, 1991	10