

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 92.08.15

ASSESSMENT REPORT 21845

MINING DIVISION: Atlin

PROPERTY: Rizz  
LOCATION: LAT 58 50 00 LONG 133 54 00  
UTM 08 6521806 563503  
NTS 104K13W  
CLAIM(S): Rizz 1-4  
OPERATOR(S): American Bullion Min.  
AUTHOR(S): Konkin, K.J.  
REPORT YEAR: 1991, 30 Pages  
KEYWORDS: Paleozoic, Amphibolite gneisses, Schists, Marbles, Rhyolites  
WORK  
DONE: Prospecting  
PROS 2000.0 ha  
Map(s) - 1; Scale(s) - 1:10 000

LOG NO: NOV 22 1991	RD.
ACTION:	
FILE NO:	

**PROSPECTING AND  
SAMPLING REPORT  
ON THE RIZZ PROPERTY**

ATLIN MINING DIVISION  
N.T.S.: 104K/13

<b>SUB-RECORDER RECEIVED</b>
NOV - 5 1991
M.R. # ..... \$.....
VANCOUVER, B.C.

LATITUDE: 58° 50' NORTH  
LONGITUDE: 133° 54' WEST

AMERICAN BULLION MINERALS LTD.  
#1500-675 West Hastings Street  
Vancouver, B.C.  
Canada  
V6B 1N2

BY: K.J. KONKIN, B.Sc., F.G.A.C.

OCTOBER, 1991

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,845**

TABLE OF CONTENTS

	<u>Page No.</u>
SUMMARY .....	1
INTRODUCTION .....	2
Location and Access.....	2
Physiography and Climate .....	2
Claim Status .....	2
Personnel and Operations .....	5
History .....	6
REGIONAL GEOLOGY .....	6
PROPERTY GEOLOGY .....	8
MINERALIZATION .....	8
PROSPECTING AND ROCK GEOCHEMICAL PROGRAM .....	10
CONCLUSIONS AND RECOMMENDATIONS .....	10
STATEMENT OF 1990 AND 1991 EXPLORATION EXPENDITURES .....	11
PROPOSED 1992 EXPLORATION EXPENDITURES .....	12
REFERENCES .....	13
STATEMENT OF QUALIFICATIONS .....	14

**LIST OF FIGURES**

<b><u>Figure No.</u></b>		<b><u>Page No.</u></b>
1	LOCATION MAP .....	3
2	CLAIM MAP .....	4
3	REGIONAL GEOLOGY MAP .....	7
4	PROPERTY GEOLOGY MAP .....	9
5	ROCK SAMPLE MAP .....	back pocket

**LIST OF APPENDICES**

- I ANALYTICAL METHODS
- II ANALYTICAL RESULTS
- III SAMPLE LEDGERS

## INTRODUCTION

American Bullion Minerals Ltd., a mineral exploration company based in Vancouver, B.C. carried out a reconnaissance prospecting and rock geochemical sampling program during the month of September in 1990, which was followed up by a prospecting and rock geochemical survey program in July, 1991. This report summarizes work completed during the 1990 and 1991 field seasons.

### Location and Access

The Rizz Claim Group lies within the Atlin Mining Division in northwestern British Columbia, approximately 83 air-kilometers south of Atlin, B.C. (see Figure 1). The property is centered at coordinates 58° 50' north latitude and 133° 54' west longitude and is located on N.T.S. map sheet 104K/13.

Access to the Property is gained by helicopter from Atlin, B.C. Mobilization of camp equipment, and personnel is made possible from the Tulsequah air strip located approximately 26 air-kilometers southeast of the Rizz Claims. Foot access throughout certain parts of the Property is restricted due to precipitous terrain.

### Physiography and Climate

The topography of the Tulsequah District is characterized by steep, rugged mountainous terrain. Much of the area is covered by icefields and glaciers belonging to the Tulsequah Glacier system. The Taku and Tulsequah rivers cut broad, glaciated valley floors, while smaller creeks and run off streams cascade down steep valley walls.

Topography rises abruptly from the Tulsequah Glacier at 640 m elevation to mountain ridges at 2286 m elevation. Vegetation is sparse with only tag alder, juniper and small shrubs growing along the lower valley walls.

The property surface is comprised of 65-70% outcrop exposure. Water supply is plentiful during the summer months as numerous streams and glaciers provide an adequate fresh water source for exploration needs. Precipitation is moderate to heavy, typical of the northern coastal region. Snowfall occurs in early October. A four to five month field season is normally expected.

### Claim Status

The Rizz Property is wholly owned by American Bullion Minerals Ltd. Four contiguous, modified-grid, mining claims were staked by the Company as the Rizz #1-4 claims (see Figure 2). The claims, located within the Atlin Mining Division, are summarized below:

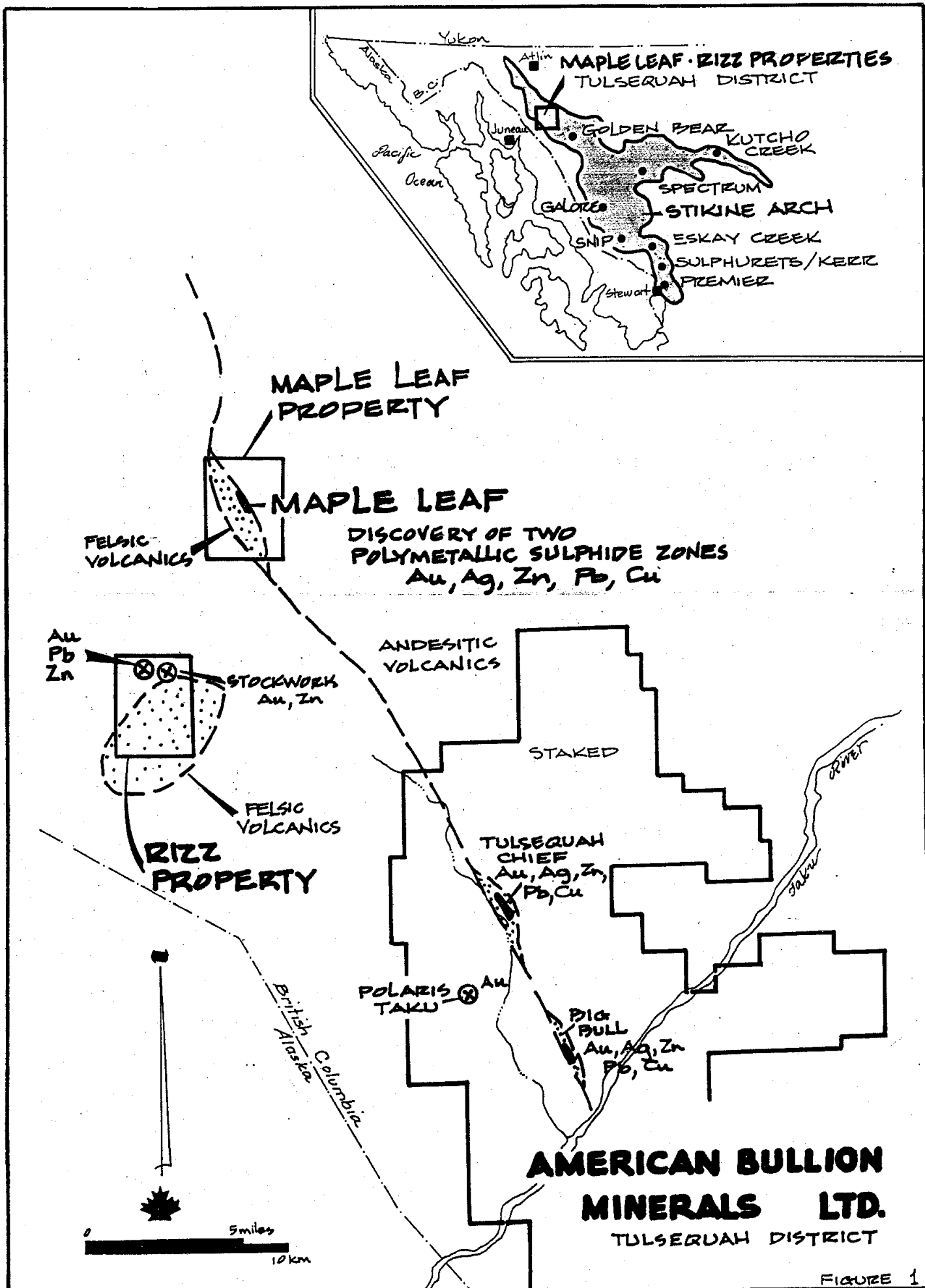
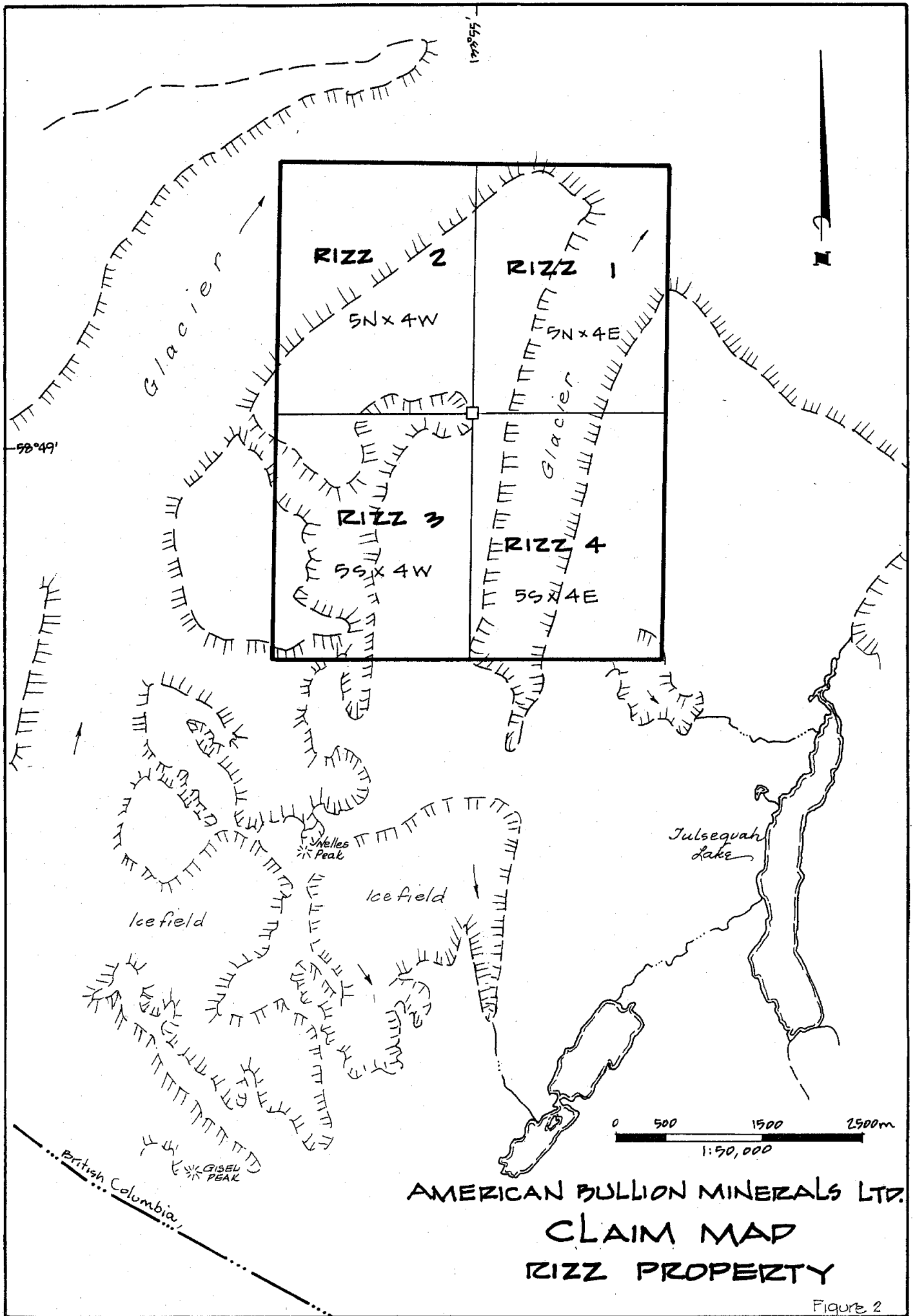


FIGURE 1



AMERICAN BULLION MINERALS LTD.  
**CLAIM MAP**  
**RIZZ PROPERTY**

Figure 2

CLAIM NAME	RECORD NUMBER	RECORD DATE	DUE DATE	NO OF UNITS
RIZZ #1	4352	SEP. 08/90	SEP. 08/92	20
RIZZ #2	4353	SEP. 08/90	SEP. 08/92	20
RIZZ #3	4354	SEP. 08/90	SEP. 08/92	20
RIZZ #4	4355	SEP. 08/90	SEP. 08/92	20
			Total	<u>80</u>

Personnel and Operations

Prospecting and rock geochemical surveys were carried out during September, 1990 and July, 1991 by American Bullion Minerals Ltd. personnel. Personnel included:

<u>NAME</u>	<u>POSITION</u>	<u>PERIOD</u>	<u>DAYS</u>
John Brock	President	Sept. 08/90	1
Wayne Roberts	Vice-President, Expl.	Sept. 09/90 Sept. 26/90	1 1
Peter Risby	Prospector	Sept. 09/90	1
Ken Konkin	Project Geologist	Sept. 09/90 July 21 - 22/91	2 2
Howie Ridge	Geological Assist.	July 21 - 22/91	2

Field crews were mobilized from Atlin via helicopter and fixed-wing aircraft. The sampling and prospecting crews utilized a Bell 206 helicopter for set-outs from a base camp at the Maple Leaf Property, located approximately 10 kilometers to the north of the Rizz claims. Supplies were purchased from Atlin and Whitehorse. Wayne Roberts, Vice-President, Exploration for American Bullion Minerals Ltd., supervised all field operations.



## History

The Rizz Project is a new discovery and has no previous history of prior exploration. The Tulsequah area has a long history dating back to the discovery of the Polaris-Taku, Tulsequah Chief and Big Bull Mines in the 1920's. The Polaris-Taku produced 760,000 tons of ore yielding 231,000 ounces gold, 12,000 ounces silver and 90 tons of copper during eleven years of operation. Combined production from the Tulsequah Chief-Big Bull Mines total 1,029,089 tons of ore yielding 94,254 ounces gold, 3,400,773 ounces silver, 13,603 tons copper, 13,463 tons lead, 62,346 tons zinc and 227 tons cadmium.

## REGIONAL GEOLOGY

A major unconformity divides the layered rocks in the Tulsequah map-area into two broad divisions. The first includes Precambrian to Triassic rocks of the Atlin Horst and Stikine Arch. The second division of rocks are younger Mesozoic sedimentary and volcanic rocks lying between the Stikine Arch and Atlin Horst. Much of the western part of the map-area is underlain by granitic rocks of the Coast Crystalline Belt. (see Figure 3).

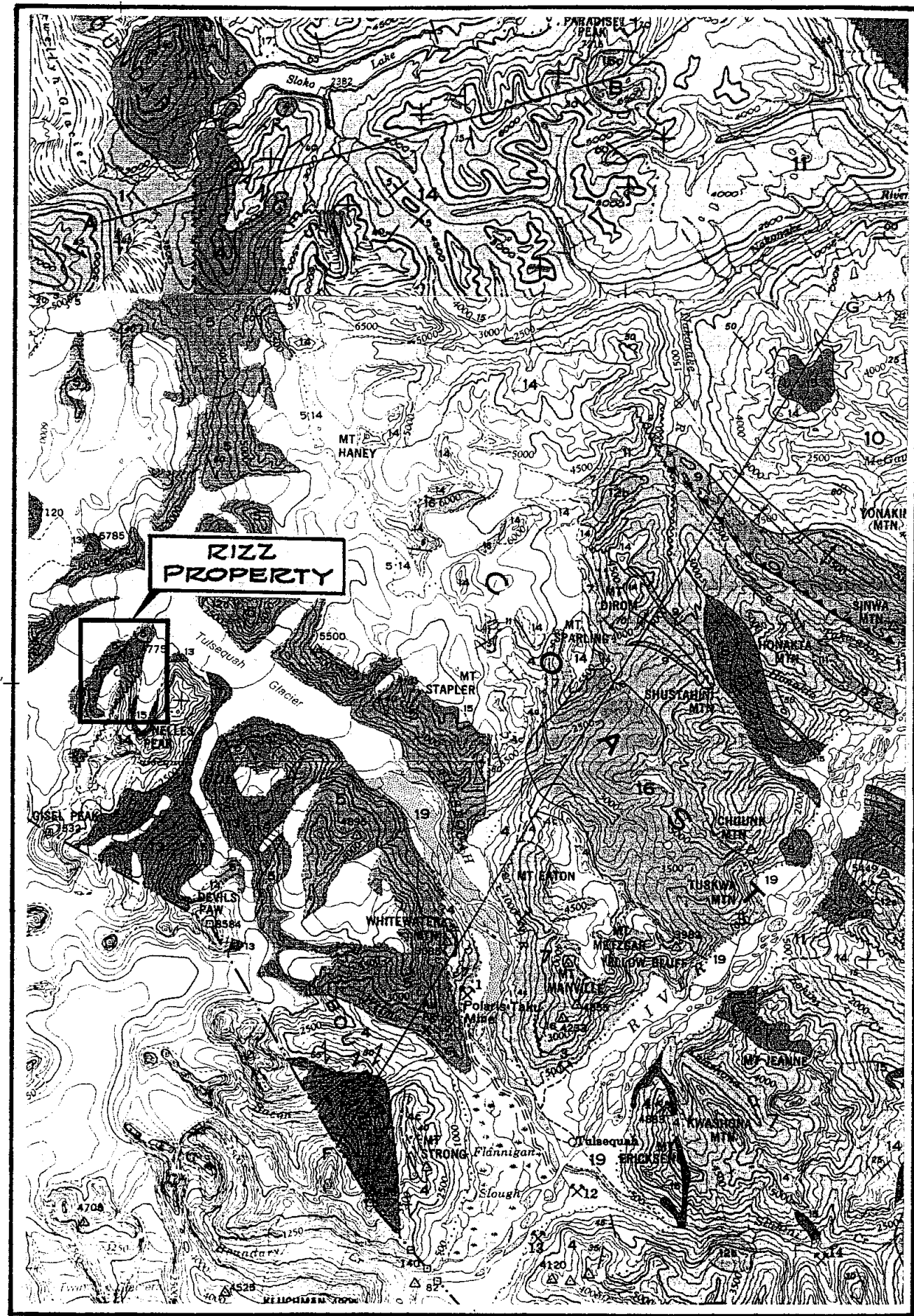
Near the Canadian-USA border and Property area, the rocks are Paleozoic age metamorphics intruded by Cretaceous-Tertiary age granitic Coast Plutonic Complex. Late Paleozoic age andesitic units predominately underlie the district particularly near the Taku-Tulsequah River confluence.

Unconformably overlying the late Paleozoic volcanics are the Upper Triassic Stuhini Group volcanic and volcanoclastic units. These rocks are in turn overlain by late Cretaceous and early Tertiary Sloko Group intermediate volcanics and derived sediments. The eastern region of the Tulsequah map-area is overlain by flat-lying late Tertiary and Pleistocene basalt.

Structurally, three major episodes of tectonic activity are documented in the Tulsequah map-area. The three episodes, culminating in mid-Triassic, Upper Jurassic and early Tertiary time, left major unconformities. The oldest mid-Triassic Tahltanian Orogeny was a time of uplift, folding, regional metamorphism and granitic intrusion. It preceded the Upper Triassic period of volcanism and clastic sedimentation. Folding and deformation of the Tahltanian Orogeny was partly masked by younger less intense folds of Upper Jurassic age. Tectonic structures related to the early Tertiary deformation can only be observed where Sloko rocks are affected.

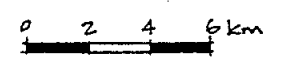
The northwesterly trending King Salmon Thrust Fault and Nahlin Faults are located in the northeast corner of the Tulsequah map-area. The area is largely underlain by predominately clastic sediments of Jurassic age Laberge Group and predominately limestone of Upper Triassic age Sinwa Formation.

LEGEND



CENOZOIC	QUATERNARY PLEISTOCENE AND RECENT	
	19	Fluviatile gravel, sand, silt; glacial outwash, till, alpine moraine and undifferentiated colluvium; 19a, landslides
	TERTIARY AND QUATERNARY LATE TERTIARY AND PLEISTOCENE LEVEL MOUNTAIN GROUP	
	15	Basalt, olivine basalt, related pyroclastic rocks; in part younger than some of 19
	17	HEART PEAKS FORMATION: rusty-weathering trachyte and rhyolite flows, pyroclastic rocks, and related intrusions
	CRETACEOUS AND TERTIARY LATE CRETACEOUS AND EARLY TERTIARY SLOKO GROUP	
	14	Light green, purple and white rhyolite, dacite, and trachyte flows, pyroclastic rocks, and derived sediments
	16	Probably genetically related to 14; 15. Felsite, quartz-feldspar porphyry; 16. Medium- to coarse-grained, pink, biotite-hornblende quartz monzonite
	PRE-UPPER CRETACEOUS	
	13	CENTRAL PLUTONIC COMPLEX: granodiorite, quartz diorite; minor diorite, leuco-granite, migmatite and agmatite; age and relationship to 12 uncertain
JURASSIC AND/OR CRETACEOUS POST MIDDLE JURASSIC		
12	12a, hornblende-biotite granodiorite; 12b, biotite-hornblende quartz diorite; 12c, hornblende diorite; 12d, augite diorite. Age and relationship to 13 uncertain	
JURASSIC LOWER AND MIDDLE JURASSIC LABERGE GROUP (10, 11)		
11	TAKWAHONI FORMATION: granite-boulder conglomerate, chert-pebble conglomerate, greywacke, quartzose sandstone, siltstone, shale	
MESOZOIC	10 INKLIN FORMATION: well bedded greywacke, graded siltstone and silty sandstone, pebbly mudstone, limy pebble conglomerate; 10a, limestone	
	TRIASSIC UPPER TRIASSIC	
	9	SINWA FORMATION: limestone; minor sandstone, argillite, chert
	STUHNI GROUP (7, 8)	
	7	7. Mainly volcanic rocks; andesite and basalt flows, pillow lava, volcanic breccia and agglomerate, lapilli tuff; minor volcanic sandstone, greywacke, and siltstone
	8	8. KING SALMON FORMATION: thick bedded, dark greywacke, conglomerate, mudstone, siltstone, and shale; minor andesitic lava, volcanic breccia, tuff, limestone, limy shale; locally enclosed in 7
	LOWER OR MIDDLE TRIASSIC (?)	
	6	Fine- to medium-grained, strongly foliated diorite, quartz diorite; and minor granodiorite; age uncertain
	TRIASSIC AND EARLIER PRE-UPPER TRIASSIC	
	4	Fine-grained, clastic sediments and intercalated volcanic rocks, largely altered to greenstone and phyllite; chert, Jasper, greywacke, limestone; 4a, mainly chert, slate, argillite; minor greenstone; 4b, mainly greenstone; 4c, limestone, may include some 1
PALEOZOIC	Quartz-albite-amphibole gneiss; quartz-biotite schist, garnetiferous schist, augen gneiss, tremolite marble; mainly metamorphosed equivalents of 3 and 4, may be in part older than 3	
	PERMIAN	
	3	Chiefly limestone and dolomitic limestone; minor chert, argillite, sandy limestone
	PERMIAN (?)	
	1	May not all be of the same age 1. Peridotite, serpentinite, small irregular bodies of gabbro and pyroxene diorite 2. Fine- to medium-grained gabbro and pyroxene diorite
A		
Diorite gneiss, amphibolite, migmatite; age unknown		

NOTE:  
Geology: After Souther 1971  
Tulsequah and  
Juneau Geology: Map 1262A



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**RIZZ PROPERTY**

**REGIONAL GEOLOGY MAP**

ATLIN MINING DIVISION P.C.

Geology by:	NTS: 10AK/137	Plate No.:
Drawn by: V. Hutchings	Scale: 1:250,000	3
Date:		

### PROPERTY GEOLOGY

The Property is predominately underlain by regionally metamorphosed sedimentary and volcanic rock units of Paleozoic age. Rock units consist of quartz-albite-amphibolite gneiss, quartz-biotite schist, garnetiferous schist, augen gneiss and tremolite marble. Also, minor fine-grained hornblende-biotite-chlorite schist, quartz-sericite schist and a few lenses of sheared bluish-grey limestone are included in the Pre-Upper Triassic formation. The youngest rocks on the Property are Sloko Group, late Cretaceous to early Tertiary age intermediate volcanic flows, pyroclastics and derived sediments consisting of pale green, purple and white rhyolite, dacite and trachyte flows with minor felsite and quartz-feldspar porphyry (see Figure 4).

Pre-Upper Cretaceous age intrusives cut the older Paleozoic metamorphics and are in fault contact with the younger Sloko Group volcanics. These intrusive rocks are part of the Coast Plutonic Complex and include: granodiorite, quartz diorite, minor diorite, leuco-granite and migmatite.

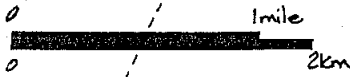
### MINERALIZATION

American Bullion's prospecting crews discovered base metal sulphide mineralization containing significant gold, silver and zinc values within a 400 meter long boulder train deposited on an arm of the Tulsequah Glacier.

The boulder train contains thousands of tons of mineralized and altered angular felsic volcanic blocks. Disseminated and stringer stockwork quartz-pyrite-sphalerite mineralization assayed up to 27.63 g/T Au, 425.15 g/T Ag and 15.9% Zn while chip samples from 12 mineralized felsic blocks averaged 3.77 g/T Au, 49.71 g/T Ag and 4.13% Zn. The source of the mineralization has yet to be discovered.

A talus sample of laminated white marble obtained from the northwest corner of the Property hosted 1-20 cm thick layers of massive galena and sphalerite mineralization. A grab sample assayed 3.43 g/T Au, 560.92 g/T Ag, 8.25% Pb and 7.30% Zn. The source area of this mineralization has yet not been explored.

TALUS GRABBS  
BANDED Pb/Zn  
Assays: 3.43 g/T Au  
562.29 g/T Ag  
7.3% Zn  
0.2% Pb



glacier

Tulsequah Glacier

DEV - TRI  
META - SEDIMENTS

BOULDER TRAIN (+400 m)  
STOCKWORK PY + ZN IN  
FELSIC VOLCANICS.  
Assays to: 27.63 g/T Au, 15.9% Zn  
Samples average:  
3.77 g/T Au  
4.97 g/T Ag  
4.1% Zn.

DIORITE

FELSIC FLOWS and  
PYROCLASTICS

Tulsequah  
Lake

DIORITE

British  
Alaska / Columbia

**AMERICAN BULLION MINERALS LTD.**

**RIZZ PROPERTY  
GEOLOGY MAP**

### PROSPECTING AND ROCK GEOCHEMICAL PROGRAM

During the 1990 and 1991 field seasons a total of 36 rock samples were collected from float boulders and outcrop located on the Rizz property. The samples were shipped to Min-En Labs and analysed for gold, silver, zinc and lead. Figure 5 shows the location of rock samples with corresponding metal values. Analytical data and individual sample descriptions are given in the Appendices in the back of the report. Prospecting and sampling of outcrop has been inhibited by areas of steep terrain.

### CONCLUSIONS AND RECOMMENDATIONS

Prospecting has led to the discovery of significant float occurrences of gold-bearing stockwork mineralization in felsic volcanics as well as precious metal bearing lead-zinc bands within meta-sediments.

The Rizz #1-4 claims, totalling 80 units, were staked upon discovery of this large 400 meter long mineralized boulder train located on an arm of the Tulsequah Glacier. The angular felsic volcanic boulders, containing quartz-sphalerite-pyrite stockwork mineralization have an average assay of 3.77 g/T Au, 49.71 g/T Ag, and 4.13% Zn from 12 samples. Individual assays as high as 27.63 g/T Au, 425.15 g/T Ag and 15.9% Zn were obtained from selected samples within the boulder pile.

Continued prospecting efforts in the northwestern portion of the Property located talus containing laminated white marble hosting banded massive galena and sphalerite. Sampling the sulphide talus boulders yielded assays of 3.43 g/T Au, 560.92 g/T Ag, 8.25% Pb and 7.30% Zn.

Further prospecting and rock sampling is recommended to locate the source of the mineralized float. The estimated cost of the program is \$20,000.

SUMMARY OF EXPENDITURES

(During the period September 09, 1990 - July 31, 1991)

	<u>EXPENDITURES</u>
Analysis - Assays	518.38
Accommodation	746.81
Consulting - Geological	1,080.00
Drafting, Maps, Prints	56.39
Expediting	6.68
Equipment - Lease, Rentals	94.94
Equipment - Consumables	12.40
Salaries and Wages	1,640.00
Transportation - Airlines	244.64
Transportation - Helicopter	4,613.68
Transportation - Vehicle	144.00
Transportation - Freight	5.30
Project Management Fees paid	<u>508.82</u>
Total Expenditures	<u>\$9,709.47</u>

PROPOSED 1992 EXPLORATION BUDGET

<u>EXPLORATION FUNCTION</u>	<u>ESTIMATED COST</u>
Assays	\$ 800
Accommodation	600
Consulting - Geological	4,300
Drafting	500
Expediting	500
Equipment - Consumables	300
Fuel	100
Property Maintenance	400
Salaries and Wages	1,500
Transportation - Airlines	1,400
Transportation - Fixed Wing	1,000
Transportation - Helicopter	6,000
Transportation - Vehicle	400
Transportation - Freight	200
Subtotal	18,000
Project Management	2,000
Total	<u>\$20,000</u>

REFERENCES

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- Greig, J.A. (1990) The Tulsequah Chief Massive Sulphide Project, Northwestern B.C., Summary Report.
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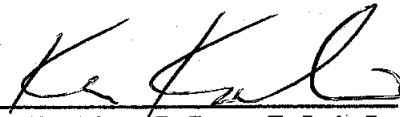


STATEMENT OF QUALIFICATIONS

I, KENNETH J. KONKIN, Geologist, resident at 4117 Burkerridge Place, in the City of West Vancouver, in the Province of British Columbia, hereby certify that:

- 1) I received a Bachelor of Science degree in Geology from the University of British Columbia in 1984.
- 2) I am a Fellow of the Geological Association of Canada (#F5743).
- 3) Since 1980, I have been involved with numerous mineral exploration programs throughout Canada and the United States of America.
- 4) I am a consulting geologist working on behalf of American Bullion Minerals Ltd.
- 5) This report is based on a review of reports, documents, maps, other technical data, and on my field work carried out during September, 1990 and July, 1991.
- 6) I hold no direct or indirect interest in the property, nor in any securities of American Bullion Minerals Ltd. or in any associated companies, nor do I expect to receive any.

October 30, 1991  
Date

  
K.J. Konkin, B.Sc., F.G.A.C.

**APPENDIX I**  
**ANALYTICAL METHODS**



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

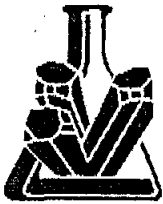
Division of Assayers Corp. Ltd.

**GOLD ASSAY PROCEDURE:**  
-----

Samples are dried @ 95 C and when dry are crushed on a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to - 1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300 - 400 gram sub-sample (in accordance with Gy's statistical rules). This sub-sample is then pulverized on a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Samples are fire assayed using one assay ton sample weight. The samples are fluxed, a silver inguirt added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved, diluted to volume and mixed.

These aqua regia solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 3 standard deviations of its known or the whole set is re-assayed. Likewise the blank must be less than 0.015 g/tonne.



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

-----  
PROCEDURE FOR AU, PT OR PD FIRE GEOCHEM  
-----

Geochemical samples for Au Pt Pd are processed by Min-En Laboratories, at 705 West 15th St., North Vancouver, B. C., laboratory employing the following procedures:

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized on a ring mill pulverizer.

A suitable sample weight; 15.00 or 30.00 grams is fire assay preconcentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PRECEDURE REPORT FOR ASSESSMENT WORK:

-----  
PROCEDURE FOR WET GOLD GEOCHEMICAL ANALYSIS  
-----

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

5.00 grams of sample is weighed into porcelain crucibles and cindered @ 800 C for 3 hours. Samples are then transferred to beakers and digested using aqua regia, diluted to volume and mixed.

Further oxidation and treatment of 75% of the above solution is then extracted for gold by Methyl Iso-butyl Ketone.

The MIBK solutions are analyzed on an atomic absorption spectrometer using a suitable standard set.



ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

-----  
PROCEDURE FOR TRACE ELEMENT ICP  
-----

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu,  
Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb,  
Sr, Th, U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR AG, CU, PB, ZN, NI, CO OR CD GEOCHEM

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analysed on atomic absorption spectrometers using the appropriate standard sets. A background correction can be applied to Ag, Pb, and Cd if requested.

**APPENDIX II**  
**ANALYTICAL RESULTS**





**MLN-EN LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

SEP 18 1990

705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**THUNDER BAY LAB.:**  
TELEPHONE (807) 622-8958  
FAX (807) 623-5931

**SMITHERS LAB.:**  
TELEPHONE/FAX (604) 847-3004

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

Assay Certificate

OV-1435-RA1

Company: **AMERICAN BULLION**  
Project: **MAPLE LEAF R122**  
Attn: **JOHN BROCK**

Date: **SEP-14-90**

Copy 1. AMERICAN BULLION, VANCOUVER, B.C.

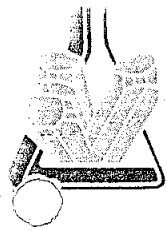
*We hereby certify the following Assay of 24 ROCK samples submitted SEP-12-90 by JOHN BROCK.*

Sample Number	AU g/tonne	AU oz/ton	AG g/tonne	AG oz/ton	CU %	PB %	ZN %
11509	.01	.001	0.6	.02	.003	.01	.01
11510	.44	.013	10.2	.30	.039	.02	.67
11511	.05	.001	4.1	.12	.014	.01	1.10
11512	.03	.001	1.8	.05	.008	.01	.02
11513	11.04	.322	5.6	.16	.001	.01	.01
11514	*6.25	.182	405.0	11.81	.076	17.40	6.73
11515	.22	.006	49.9	1.46	.008	2.04	3.34
11516	5.24	.153	164.0	4.78	.152	8.22	11.25
11517	.04	.001	4.2	.12	.002	.06	.07
11518	.52	.015	46.0	1.34	.028	2.26	1.16
11519	1.32	.039	91.0	2.65	.017	3.94	6.65
11520	.18	.005	25.7	.75	.593	.87	1.61
11521	2.35	.069	230.0	6.71	.790	9.82	11.50
11522	.61	.018	70.5	2.06	.042	4.03	7.90
11523	1.93	.056	159.0	4.64	.129	7.98	7.95
11524	*4.86	.142	124.0	3.62	.605	5.00	4.89
11525	*2.91	.085	133.0	3.88	.268	6.65	6.78
11526	1.30	.038	135.0	3.94	.078	6.17	10.60
11527	.94	.027	53.8	1.57	.028	1.96	4.24
11528	.49	.014	50.0	1.46	.019	2.06	4.26
11529	.02	.001	4.0	.12	.002	.02	.04
11530	.01	.001	2.2	.06	.001	.01	.02
11531	.02	.001	0.3	.01	.002	.01	.02
11532	.01	.001	0.9	.03	.001	.01	.02

R122

\*SSAMPLES CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by *[Signature]*  
MLN-EN LABORATORIES



**MIN-EN LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
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**THUNDER BAY LAB.:**  
TELEPHONE (807) 622-8958  
FAX (807) 623-5931

**SMITHERS LAB.:**  
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1435-RA2

Company: **AMERICAN BULLION**  
Project: **MAPLE LEAF R122**  
Attn: **JOHN BROCK**

Date: **SEP-14-90**  
Copy 1. AMERICAN BULLION, VANCOUVER, B.C.

*We hereby certify* the following Assay of 22 ROCK samples submitted SEP-12-90 by JOHN BROCK.

Sample Number	AU g/tonne	AU oz/ton	AG g/tonne	AG oz/ton	CU %	PB %	ZN %
11533	.15	.004	9.9	.29	.002	.01	.02
11534	.02	.001	0.3	.01	.001	.01	.01
11535	.54	.016	15.4	.45	.002	.01	.01
11536	.12	.004	28.0	.82	.024	.87	1.88
11537	2.71	.079	103.0	3.00	.125	4.30	4.47
11538	.24	.007	6.5	.19	.027	.04	1.84
11539	.06	.002	10.2	.30	.022	.03	.22
11540	*2.88	.084	16.6	.48	.049	.02	2.27
11541	*2.42	.071	28.4	.83	.100	.04	9.65
11542	.16	.005	5.8	.17	.011	.02	.87
11543	.12	.004	10.0	.29	.012	.02	.23
11544	*7.20	.210	16.7	.49	.010	.02	.42
11545	.18	.005	75.0	2.19	.032	2.87	3.17
11546	.18	.005	6.8	.20	.030	.03	1.30
11547	2.26	.066	58.3	1.70	.210	.06	11.40
11548	.09	.003	5.9	.17	.012	.01	2.91
11549	.18	.005	42.0	1.23	.022	1.45	4.06
11550	27.65	.806	425.0	12.40	.068	.53	15.90
11552	.02	.001	4.2	.12	.009	.01	1.40
11553	2.12	.062	111.0	3.24	.140	3.57	9.20
11554	1.83	.053	90.0	2.63	.039	3.85	10.60
11555	1.60	.047	130.0	3.79	.010	6.02	15.40

} R122

} R122

} R122

\*SAMPLES CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by \_\_\_\_\_

MIN-EN LABORATORIES

Report: 9000936 R American Bullion Minerals Ltd.

Project: RIZZ #1-4

Page 1 of 1

Sample Name	Type	Cu %	Pb %	Zn %	Ag oz/st	Au oz/st
0-11360	Rock	0.01	<0.01	0.01	0.03	<0.005
0-11361	Rock	0.01	<0.01	<0.01	0.04	<0.005
0-11362	Rock	0.01	<0.01	<0.01	<0.01	<0.005
0-11363	Rock	<0.01	0.02	0.06	<0.01	<0.005
0-11364	Rock	0.02	<0.01	<0.01	0.03	0.008
0-11365	Rock	0.01	<0.01	0.01	0.04	<0.005
0-11366	Rock	0.01	<0.01	0.01	<0.01	<0.005
0-11367	Rock	0.01	8.25	7.30	16.36	0.100
0-11368	Rock	<0.01	0.02	0.02	<0.01	<0.005

**APPENDIX III**  
**SAMPLE LEDGERS**

MAZEL LEAF

Property

SAMPLE LEDGER

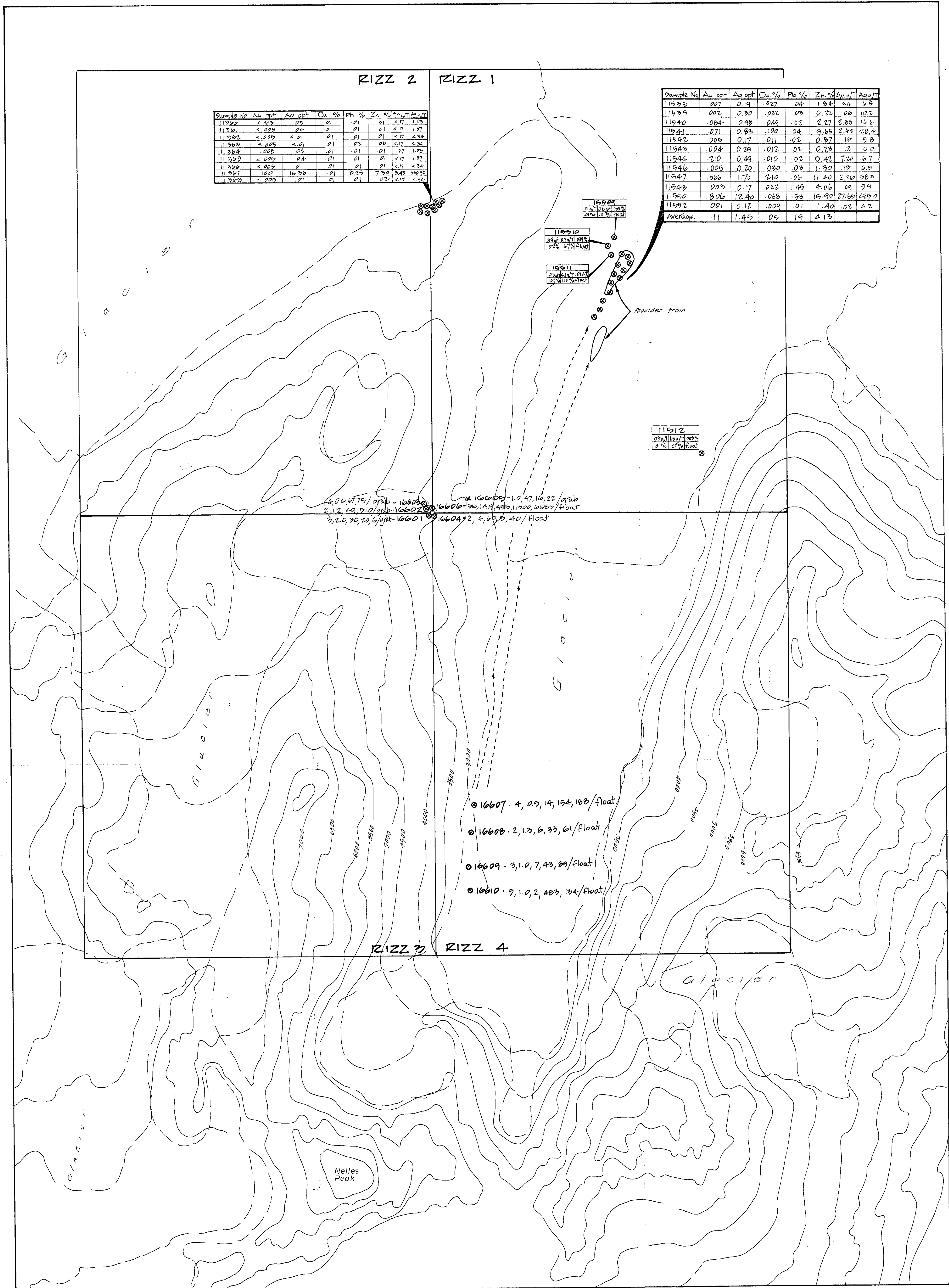
SAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		Au	Ag	Cu Pb	Zn	DESCRIPTION
	Metres	Feet	Metres	Feet					
11501	grab		grab		ppm 61	ppm 13.6	ppm 110/190	ppm 68	Ser-gtz schist 10-15% dis. 5% PT
02	float		float		525	20.9	15,000/ 3350	680	" " " " " " " 2-7%
03	"		"		2	1.6	445/64	67	Siliceous siliceous bi-gtz schist 10-15% PT
04	"		"		6	2.4	49/42	36	Ser-gtz schist 15-20% PT
05		3.0		7.0	7	9.4	30/ 4400	4750	Ser-gtz schist 3-5% PT, 1-3% SL + CP
06	float		float		3	0.9	70/82	425	gtz vein bx 10-15% SL, 3-5% PT + CP
07		0-10		10.0	4	1.4	40/ 1000	1450	gtz-ser schist 1-3% PT, 1-2% SL + CP
08		0-10		10.0	2	0.9	20/ 32	82	Ser-gtz schist, well siliceous fissil 2-3% PT
R122 09	float		float		.027 .001	.027 .02	.003% .01	% .01	Rizz claim Glacier Vale limonite gltz vein 3-5% PT, tr PT Hanging
10	"		"		.013	.30	.039	.02	Rizz claim fissil. 3-5% PT, tr 1-2% SL, tr
11	"		"		.001	.12	.014	.01	1.10 " " " " 5-7% SL, 3-5% PT, tr CP
12	"		"		.001	.05	.008	.01	.02 Gussan zone Rizz claim, siliceous siliceous 2-3% North East claims 10-15% SL
13	"		"		.322	.16	.001	.01	Rizz claim 20-30 cm wide PT-SL ords 2-3% 5-7% PT, tr CP
14	"		0.7 m float boulder		.182	11.81	.076 17.4	6.73	Boulder Bnd Ser-gtz schist 10-15% SL 7-10% 3-5% PT
15	"		"		.006	1.46	.008 2.04	3.34	" " " " " 3-5% SL tr-CP
16	"		0.3 m float boulder		.153	4.78	.152 8.22	11.75	5-7% PT, 1-2% CP, bx gtz vein 20-25% SL, 10-15% " " " " SL + GL 1 inch over 30 cm
17	"		"		.001	0.12	.002 0.06	0.07	Ser-gtz schist 2-10% PT Boulder Bnd
18	"		"		.015	1.34	.028 2.26	1.16	Boulder Bnd siliceous gtz-ser schist 5-7% SL + CP 3-5% P
19	"		"		.039	2.65	.017 3.94	6.65	" " bx vein 3-5% SL, 5-7% SL, 2-3% PT
20	"		"		.005	0.75	.503 .07	1.61	" " Ser-gtz schist 5-5% SL 2-3% SL, tr CP

Property

## SAMPLE LEDGER

SAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		opt Au	opt Ag	Cu %		DESCRIPTION
	Metres	Feet	Metres	Feet			Pb %	Zn %	
11538	float		float		.007	0.19	.027 .04	1.84	Moraine float 3-5% Pt, 2-3% SL s. / at felsic
39	"		"		.002	0.30	.022 .03	0.22	" " 2-3% " Pt - 1% SL " " "
40	"		"		.084	0.48	.049 .02	2.27	" " 2-3% Pt + Pb 2-3% SL " " "
41	"		"		.071	0.83	.100 .04	9.65	" " 25% SL, 10-15% Pt, stringers
42	"		"		.005	0.17	.01 .02	0.87	" " 1-2% SL, 3-5% Pt s. / at felsic
43	"		"		.004	0.27	.012 .02	0.23	" " 10-15% in x Pt blobs 1-2% SL
44	"		"		.210	0.47	.010 .02	0.42	" " 7-10% Pt 3-5% SL, s. / at felsic
46	"		"		.005	0.20	.030 .03	1.30	" " 2-3% Pt 5-7% Pt " " "
47	"		"		.066	1.70	.210 .06	11.40	" " 25-30% SL, 5-7% Pt " " "
48	"		"		.003	0.17	.022 1.45	4.06	" " 5-7% SL, 3-5% Pt " " "
50	"		"		.806	12.40	.068 .53	15.90	" " 30-35% SL, 10-15% Pt " " "
52	"		"		.001	0.12	.009 .01	1.40	" " 3-5% SL, 2-3% <del>Pt</del> " " "
			Average		0.11	1.85	.05/19	4.13	





Sample No	Au opt	Ag opt	Cu %	Pb %	Zn %	As %	Bi %
11302	<.005	.02	.01	.01	.01	<.17	1.03
11301	<.005	.04	.01	.01	.01	<.17	1.37
11302	<.005	<.01	.01	.01	.01	<.17	6.34
11303	<.005	<.01	.01	.02	.06	<.17	6.34
11304	.005	.03	.01	.01	.01	<.17	1.03
11305	<.005	.04	.01	.01	.01	<.17	1.37
11306	<.005	.01	.01	.01	.01	<.17	6.34
11307	100	16.36	.01	0.25	7.50	3.43	340.92
11308	<.005	.01	.01	.01	.02	<.17	6.34

Sample No	Au opt	Ag opt	Cu %	Pb %	Zn %	Au opt	Ag opt
11539	.007	0.19	.027	.04	1.84	24	6.9
11539	.002	0.30	.022	.03	0.22	06	10.2
11540	.004	0.48	.049	.02	2.27	2.08	16.6
11541	.071	0.92	.100	.04	9.65	2.42	28.4
11542	.005	0.17	.011	.02	0.87	16	5.8
11543	.004	0.29	.012	.02	0.23	12	10.0
11544	.210	0.44	.010	.02	0.42	7.20	16.7
11546	.005	0.20	.030	.03	1.30	1.8	6.8
11547	.066	1.70	.210	.06	11.40	2.26	58.3
11548	.003	0.17	.022	1.45	4.06	09	5.9
11550	8.06	12.40	.068	.93	15.90	27.65	429.0
11592	.001	0.12	.009	.01	1.40	.02	4.2
Average	.11	1.45	.05	.19	4.13		

4, 04, 07, 75 / grab - 16603  
 2, 1, 2, 4, 9, 210 / grab - 16602  
 3, 2, 0, 30, 20, 6 / grab - 16601  
 x 16605 - 1, 0, 47, 16, 22 / grab  
 16606 - 36, 14, 9, 1700, 1685 / float  
 16604 - 2, 14, 60, 5, 40 / float

- 16607 - 4, 05, 14, 154, 188 / float
- 16608 - 2, 13, 6, 33, 61 / float
- 16609 - 3, 1, 0, 7, 43, 29 / float
- 16610 - 3, 1, 0, 2, 483, 134 / float

**LEGEND**

- |       |
|-------|
| 11512 |
| .021  |
| .02   |
| .02   |
| .02   |
| .02   |
| .02   |
| .02   |
| .02   |

 Sample No Au opt Ag opt Cu % Pb % Zn % As % Bi %  
 Assay
- |                           |
|---------------------------|
| 16607-4, 05, 14, 154, 188 |
| Float                     |

 Sample No Au opt Ag ppm Cu ppm Pb ppm Zn ppm  
 Sample type
- ⊗ Float
- x Grab
- Legal corner post

**21,845**

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**5781**

**ATLIN MINING DIVISION**

**P.C.**

**5**

Scale: 1:10,000  
 Date: October 1991  
 Drawn by: V. Hutcheson  
 Geology by: K. Kankin  
 Facsimile (604) 687-2419 - Telephone (604) 687-4951  
 15th Floor, 675 W. Hastings Street, Vancouver, B.C., Canada V6B 1N2  
**AMERICAN BULLION MINERALS LTD.**  
**RIZZ PROPERTY**  
**ROCK SAMPLE MAP**