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**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORTS**

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**PROSPECTING REPORT  
ON THE  
MOUNTAIN MINERAL CLAIM**

**Liard Mining Division, B.C.  
NTS: 094E/13 E  
(57° 48' N. LATITUDE, 127° 50' W. LONGITUDE)**

**PREPARED  
BY  
JOHN M. MIRKO**

**DECEMBER 10, 1995**

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**24,186**

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## Summary

Past and present work indicates that the Mountain claim covers a large undrilled area of multiphase intrusions, volcanic and sedimentary rocks with good potential to host commercial deposits of precious and base metals.

## Introduction

This report has been prepared by Mr. John Mirko, the property owner. It is based on the authors personal examination of the subject property on September 15, 1995, and a review of published and un-published data from the previous property owners.

## Property

The Mountain claim consists of one mineral claim consisting of 20 units (25 hectares each); record no. 330878. Claim title is recorded with the Provincial Ministry of Energy, Mines and Petroleum Resources and appears to be located in accordance with all applicable laws. The anniversary date for the Mountain claim is September 18, 1994. The recorded owner is Mr. John Mirko.

## Location and Access

The Mountain claim is located at 57° 48' north latitude and 127° 50' west longitude in the Chukachida river area, NTS map sheet No. 094E/13E, Liard mining division, British Columbia. The nearest road access is to the Lawyers/Energex mine area, thence by helicopter to the property, a distance of 35 kilometres. Alternative points of supply could be either Iskut, on highway 37, (120 km) or the Kutcho airstrip (75 km) to the north. Float plane access to numerous lakes in the area is also available.

Topography is typically rugged with elevations ranging from 1,300 to 2,200 metres A.S.L. Outcrop is rare except on peaks, ridges, cliffsides or gullies. Higher elevations are mainly covered by talus, whereas lower elevations are covered by an assortment of sub alpine fir, brush, grasses and sandy overburden. Water is present year round in the main valley bottoms as creeks or ponds.

Camps and airstrip sites are available on/or near the property. Exploration activities are best carried out during the summer season from June to mid October.

Access for this program was afforded by truck from L.B. Warren's base camp on Kenny Creek west of Germanson Landing, with about 11 hours needed to access the Alberts Hump/Energex road turnoff five kilometres from the Cheni Gold Mine which was used for a helicopter pick-up point.

## History

Previous to 1980, there is no record or evidence of work on the property. The property was originally staked in July 1980 by S.E.R.E.M. Inc. to cover the suspected source of stream sediment samples highly anomalous in gold. Further work in 1980 included silt, soil and rock sampling, general mapping, grid layout and cursory mapping. In 1981, 1982 and 1983 assessment work including rock sampling and more intensive prospecting was done. In 1985, further assessment work consisting of V.L.F. electro-magnetic/resistivity surveys (4.5 kilometres) and geological mapping was carried out.

The initial work in 1980 outlined two extensive distinct soil anomalies with high gold values. The eastern anomaly is about 700 metres long by 250 metres wide and the west anomaly about 500 metres long and 100 metres wide, both with their values greater than 100 ppb gold.

Of over 140 float and rock samples taken between 1980 and 1985 none gave values of more than 45 ppb gold.

As no significant results were obtained from previous rock sampling, the source of the gold/copper anomalies is still to be delineated.

## Property Geology and Mineralization

The Mountain claim is underlain by Upper Triassic (Takla) volcanic and sedimentary rocks, and a pyritic feldspar porphyry unit of unknown age; with multiple phase plutons of Lower Jurassic age intruding all units.

The Takla rocks include limy interbeds with plagioclase porphyry flows and some augite porphyry. Some waterlain textures were also observed in the Takla rocks. The pyritic feldspar unit is recessive and occurs in gullies and in the talus.

The different phases of the pluton include diorite, monzonite, quartz monzonite and aplite.

All rocks are intruded by narrow mafic (andesite, diabase) dikes.

The main intrusion outcrops on the west and slightly north of the Mountain claim. The interbedded sedimentary and volcanic rocks, and the pyritic feldspar porphyry outcrop on the Mountain claim and to the east. West of the Mountain claim the above units strike predominantly east-west and dip about 60° south. Towards the east of the claim they strike mainly northeast and dip moderately north. At the main outcrop contact with the intrusion to the north of the Mountain claim, the volcanics are hornfelsed and the limy interbeds are converted to skarn containing actinolite, tremolite, epidote, chlorite, magnetite and minor pyrite and pyrrhotite. Areas of silicification with chlorite and epidote veinlets also occur within reaction zones. The intrusion is usually bleached of all mafics at contacts. Some alteration envelopes of k-feldspar, chlorite and epidote with pyrite are present on fractures in the intrusion.

Past work found no significant mineralization on the property, although pyrite is abundantly disseminated in and adjacent to silicified rocks, with pyrrhotite rich float having also been found.

Previous work outlined two extensive geochemical soil anomalies; the east anomaly being about 700 metres long and 250 metres wide and the west anomaly being about 500 metres long and 100 metres wide, both with gold values greater than 100 ppb. The north central part of the east anomaly gave gold values from 500 to 6,200 ppb over an area about 350 metres long x 150 metres wide. An extensive copper anomaly with values up to 1,070 ppm occurs coincident with the two gold anomalies.

In 1991, two float rock samples taken by the author returned anomalous (170 and 1,200 ppb) gold values from the recessive weathering pyritic feldspar porphyry rocks. Two unconcentrated five to six kilogram stream sediment samples of coarse gravel were also taken from active parts of the west flowing creek near the legal corner claim post. The values returned were 5800 and 1900 ppb gold. This creek is located at the 1,200 metre level, 1,500 metres southwest of the uppermost part (1,900 metre level) of the east soil anomaly.

### **Observations and Conclusions**

Due to conflicting past reports, the Author and two prospectors returned to the Mountain Claim to obtain information regarding the nature and location of the source for the high gold anomaly on the property.

As the slope and main area of interest is entirely covered by overburden and talus fines, nine soil/talus fine samples were taken while prospecting along a line (mostly on contour) across an old apparent soil anomaly found by S.E.R.E.M. in 1980. Samples were all over one kilogram and taken from at least 0.3 metres depth. Sites are flagged and/or marked by small rock cairns heading east from the helicopter landing site on the saddle. Random traverse prospecting back and forth over the main gossan/altered area resulted in six rock samples being collected from interesting float. All were of quite siliceous rocks only as most other types are weathered out and covered by the sandy talus from the intrusive feldspar porphyry. Four of the soil samples confirm the presence of higher gold values coincident with the gossan just below the ridge (samples MTS-1 to MTS-3 and H+10E). Rock sample MT4 appears to be slightly anomalous in gold. It is apparent that past prospecting was not thorough enough.

More soil sampling on a tighter grid should be initiated and as no trenching has ever been done on the property, it should be tried upslope from the anomalous gold values.

**Bibliography**

Vulimiri, Mohan R., Crooker, Grant - Geological and Geophysical Assessment Report, Mountain Group, for serem Inc., September, 1985.

Vulimiri, Mohan R., Crooker, Grant - Geological and Rock Sampling Report, Mountain Claim Group for Serem Inc., May 1983.

Crawford, Sheila A. - Geochemical Report on the Mountain Claim Group (50 Units) for Serem Inc., July 1982.

Vulimiri, Mohan R., Crawford, Sheila A. - Geochemical and Prospecting Report on the Mountain Claim Group (90 Units), for Serem Inc., December, 1980.

Reynolds, Paul and Mirko, John M. - Summary Report on the Mountain Mineral Claim, April 13, 1992

Reynolds, Paul - Summary Report on the Mountain Mineral Claim, October 26, 1994.

**CERTIFICATE**

I, John M. Mirko, of 541 Hermosa Avenue, North Vancouver, British Columbia do hereby certify that:

- 1) I am a prospector and have sufficient experience to investigate and report on mineral potential.
- 2) I have actively practiced my profession since 1972.
- 3) I own the Mountain claim.

Dated this 10th day of December, 1995.



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John M. Mirko, Prospector

**APPENDIX I**

**FIGURES 1 - 3**

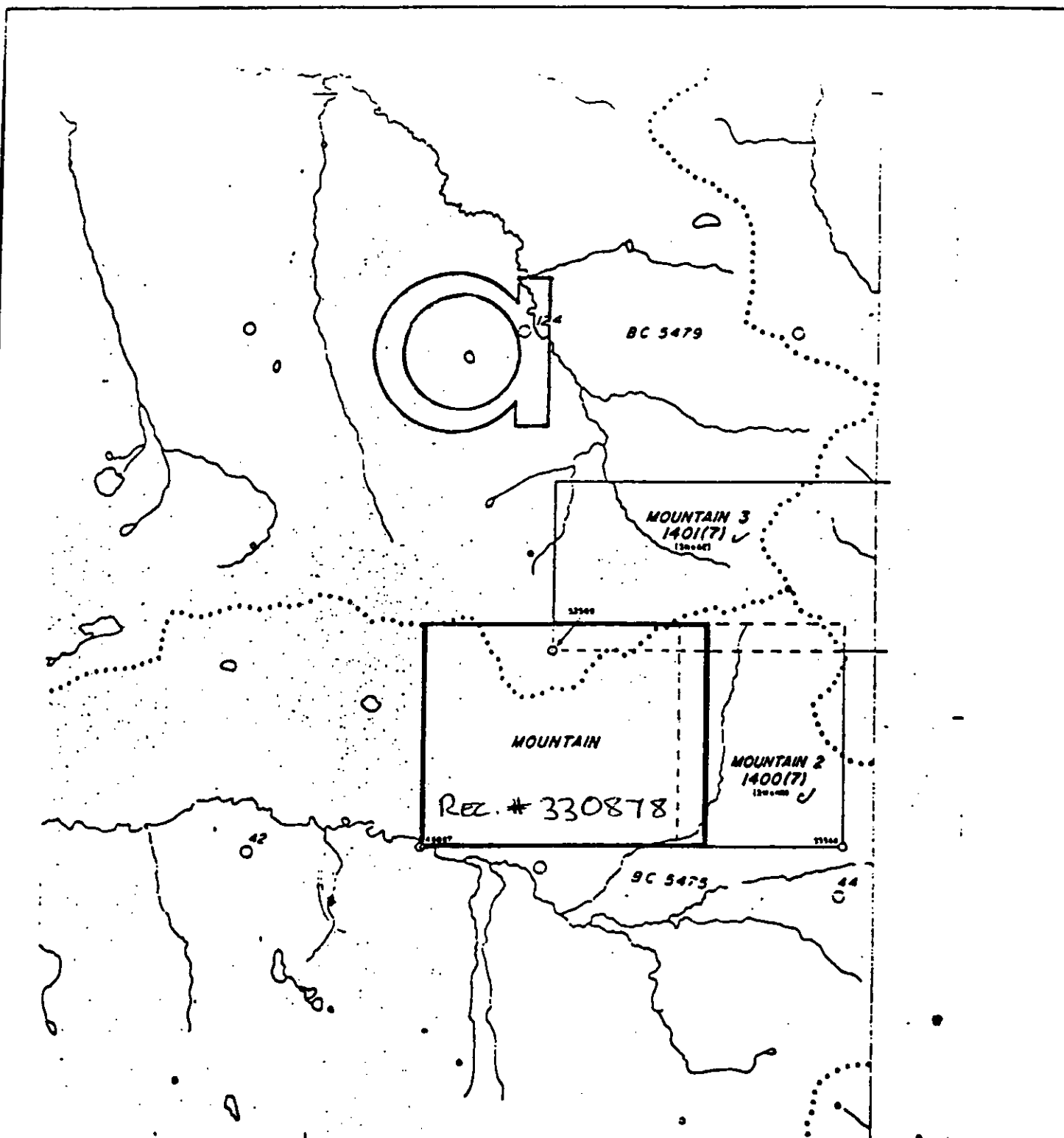




MOUNTAIN CLAIM  
 LIARD MINING DIVISION

*LOCATION MAP*

Scale: 1:50,000	Drawn by:	Date: April '97	N.T.S. 0.5E-17E	Fig. 1
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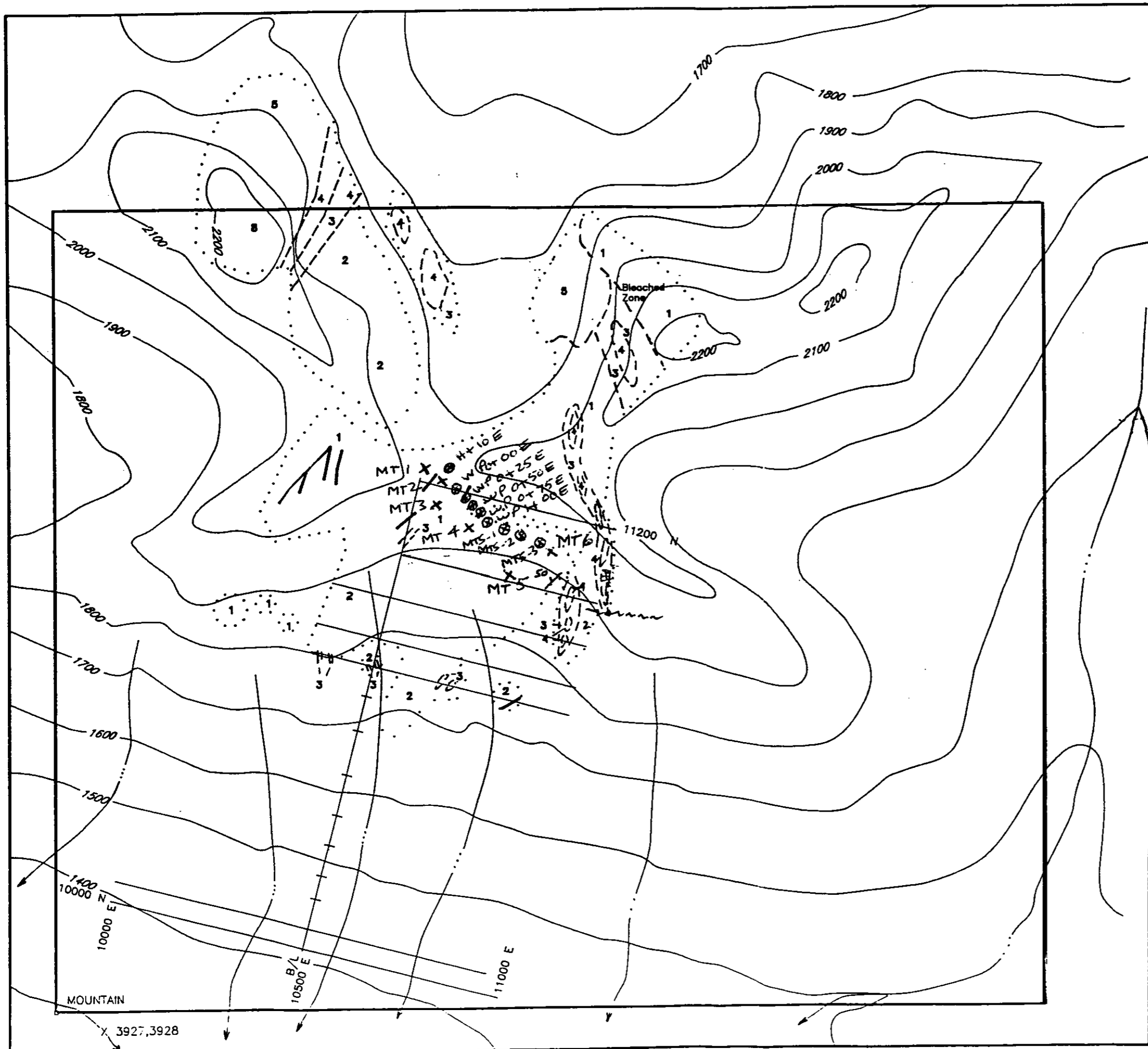


MAP 94-E-13-E

127° 30' 57° 45'



MOUNTAIN CLAIM				
LIARD MINING DIVISION				
<b>CLAIM MAP</b>				
Scale:	Drawn by:	Date:	N.T.S.	2

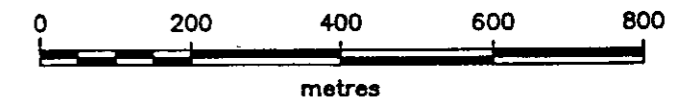


**LEGEND**

- Mafic (andesite & diabase) dykes
- Multi-phase intrusion (monzonite, quartz monzonite, quartz diorite)
- Magnetite
- Skarn (chlorite+tremolite+actinolite+epidote)
- Pyritic - feldspar porphyry
- Takiya Volcanic & Sedimentary Rocks (limey units interbedded with plagioclase porphyry & augite porphyry)

- Contact
- Outcrop Boundary
- Fault
- Bedding
- Grid line
- Contour in metres at 100 m. intervals
- Legal corner post

- MTS-1 Sample location & number
- MT 5 ROCK SAMPLE LOCATION & NUMBER



<b>MOUNTAIN CLAIM</b>				
LIARD MINING DIVISION				
<b>GEOLOGY, SAMPLE LOCATION AND PROSPECTING MAP</b>				
Scale: 1:10,000	Drawn by: Geo-Comp	Date:	N.T.S. 94E-13E	Fig. 3

**APPENDIX II**  
**SAMPLE DESCRIPTIONS AND ASSAY SHEETS**

## SAMPLE DESCRIPTIONS

<u>Sample No.</u>	<u>Type</u>	<u>Observations</u>
MT1	Subcrop/Grab	Siliceous bleached quartz feldspar porphyry
MT2	Float/Grab	Rusty quartz feldspar porphyry
MT3	Float/Grab	Rusty quartz feldspar porphyry
MT4	Float/Grab	Highly siliceous, porphyritic andesite with 2% pyrite
MT5	Float/Grab	Highly siliceous, porphyritic andesite with 6% pyrite
MT6	Float/Grab	Siliceous, pyritic, biotite quartz feldspar porphyry
MTS-1	Soil/Talus Fines	Very coarse residual talus fines, dark orange
MTS-2	Soil/Talus Fines	Very coarse residual talus fines, dark orange
MTS-3	Soil/Talus Fines	Sandy, residual talus fines, orange
H+10E	Soil/Talus Fines	Medium coarse talus fines, yellow-orange
WP 0+00E	Soil/Talus Fines	Medium coarse talus fines, yellow-orange
WP 0+25E	Soil/Talus Fines	Sandy soil, dark red oxidized, some rock chips
WP 0+50E	Soil/Talus Fines	Sandy soil, dark red oxidized, some rock chips
WP 0+75E	Soil/Talus Fines	Sandy soil, dark red oxidized, some rock chips
WP 1+00E	Soil/Talus Fines	Sandy soil, dark red oxidized, some rock chips



COMP: CANAM MINING CORP.

PROJ: BODINE

ATTN: JOHN MIRILO

MIN-EN LABS — ICP REPORT

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FILE NO: 5V-0395-SJ1+2+3

DATE: 95/10/02

\* SOIL/SILT \* (ACT:F31)

Table with columns: SAMPLE NUMBER, AG PPM, AL %, AS PPM, BA PPM, BE PPM, BI PPM, CA %, CD PPM, CO PPM, CR PPM, CU PPM, FE %, GA PPM, K %, LI %, MG %, MN PPM, MO PPM, NA %, NI PPM, P PPM, PB PPM, SB PPM, SN PPM, SR PPM, TH PPM, TI %, U PPM, V PPM, W PPM, ZN PPM, AU-WET PPB. Rows include samples like LV2+50E SILT, LV1+35S SILT, MTS-1, MTS-2, MTS-3, MB1, QC295, QC195, BFP-2, BFP-11, WPO+00E, WPO+25E, WPO+50E, WPO+75E, WP1+00E, H+10E, LV1+00S 0+00E, LV1+00S 0+25E, LV1+00S 0+50E, LV1+00S 0+75E, LV1+00S 1+00E, LV1+00S 1+25E, LV1+00S 1+50E, LV1+00S 1+75E, LV1+00S 2+00E, LV1+00S 2+25E, LV1+00S 2+75E, LV1+00S 3+00E, LV1+00S 3+25E, LV1+00S 3+50E, LV1+00S 3+75E, LV1+00S 4+00E, LV1+00S 4+25E, LV1+00S 4+50E, LV1+00S 4+75E, LV1+00S 5+00E, LV1+00S 5+25E, LV1+00S 5+50E, LV1+00S 5+75E, LV1+00S 6+00E, LV1+00S 6+25E, LV1+00S 6+50E, LV1+00S 6+75E, LV1+00S 7+00E, LV1+00S 7+25E, LV1+00S 7+50E, LV1+00S 7+75E, LV1+00S 8+00E, LV1+00S 8+25E, LV1+00S 8+50E, LV1+00S 8+75E, LV1+00S 9+00E, LV1+00S 9+25E, LV1+00S 9+50E.

### APPENDIX III

#### ITEMIZED COST STATEMENT

Labour	J. Mirko (prospector)	2 days @ \$350	700.00
	C. Warren (prospector)	2 days @ \$275	550.00
	M. Middleton (prospector)	2 days @ \$275	550.00
	L.B. Warren (camp, driving)	1 days @ \$200	200.00
Helicopter	1.2hrs + fuel + tax		1,056.00
Assays	6 rocks + prep		119.50
	9 soils + prep		123.75
4X4 truck	3 days @ \$100		300.00
Shipping, L.D. phone, radio, report			200.00
Room and Board	6 man days @ \$120		720.00
Equipment, sample bags, hand helds, flagging, tools, maps, etc.			110.00
Travel to and from camp inc. food and fuel (x 50%)			300.00
<hr/> <b>TOTAL</b>			<b>\$4929.25</b>



**APPENDIX IV**

**COPY OF STATEMENT OF WORK**