

520339
92K/12

Latitude: 50 38'
Longitude: 125 31'

**GEOLOGICAL SUMMARY REPORT
ON THE
LOUGHBOROUGH CLAIM GROUP
Vancouver Mining Division
BRITISH COLUMBIA**

By
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6498-128 B Street
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V3W 9P4

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1.0 INTRODUCTION

The property is located on the east side of Loughborough Inlet, approximately 60 kilometers north of Campbell River, 10 kilometers northwest of the Dortha Morton Mine. The area represents an ideal geological environment for epithermal quartz veins and volcanogenic massive sulfide deposits. Published geological information suggests that mineralization in the Dortha Morton Mine area is the product of shearing and hydrothermal activity along the contact zone between argillite roof pendant and granitic intrusive of the Coast Plutonic Complex.

The most recent geological work done on the property has delineated a 100 meters wide contact metamorphic zone located at the central part of the property. Detailed soil samples conducted along the contact metamorphic zone and in the vicinity of the Shamrock old workings delineated three strong soil geochemical anomalies returned elevated values of 30-80 ppb gold (the background value for gold is 5 ppb), 5-10 ppm silver, 200-1400 ppm copper, and 200-1100 ppm zinc. These zones were traced for 350 meters long and 50 meters wide, and are considered the principal target for follow-up exploration program.

2.0 LOCATION & ACCESS

The Loughborough Claim Group is located approximately 60 kilometers north of Campbell River, on the east side of Loughborough Inlet, on the main land. Access is by boat from Campbell River along Loughborough Inlet.

3.0 PROPERTY STATUS

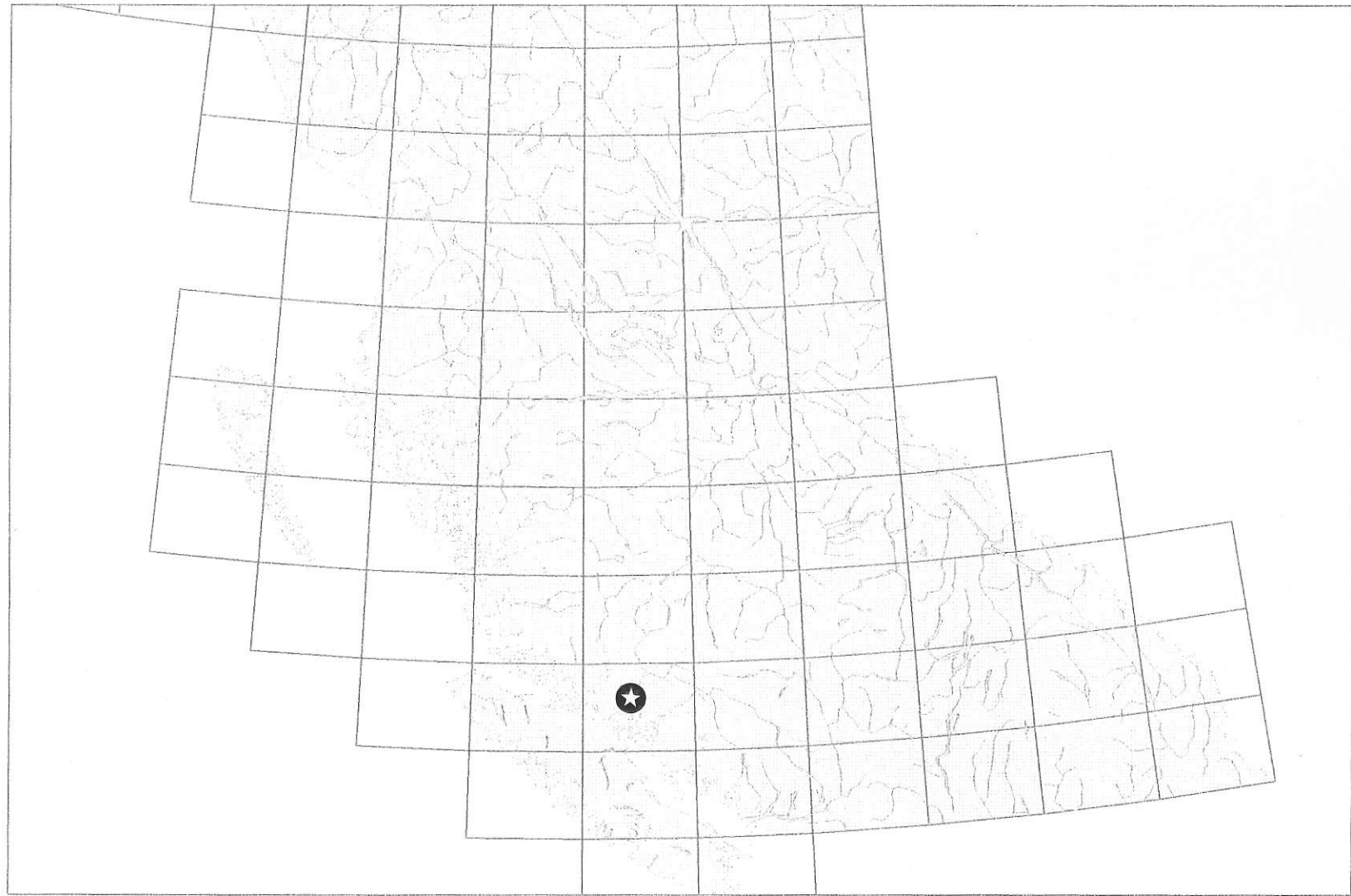
The property is comprised of one (four post claim), and two (two post) claims totaling eleven units. The property was staked in June 8th, 2002 and is owned by Fayz Yacoub of Surrey B.C.

Pertinent claim data is as follows:

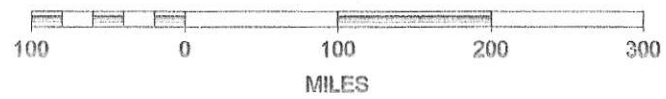
Claim Name	Number of units	Record Number	Record Date	Expiry Date
Shamrock 1	9	393757	June 10, 2002	June 8, 2003
Shamrock 2	1	393758	June 10, 2002	June 8, 2003
Shamrock 3	1	393759	June 10, 2002	June 8, 2003

The total area of the property is 2.75 square kilometers, 275 hectares (679.25 acres).

Loughborough Claim Group (General Location Map)

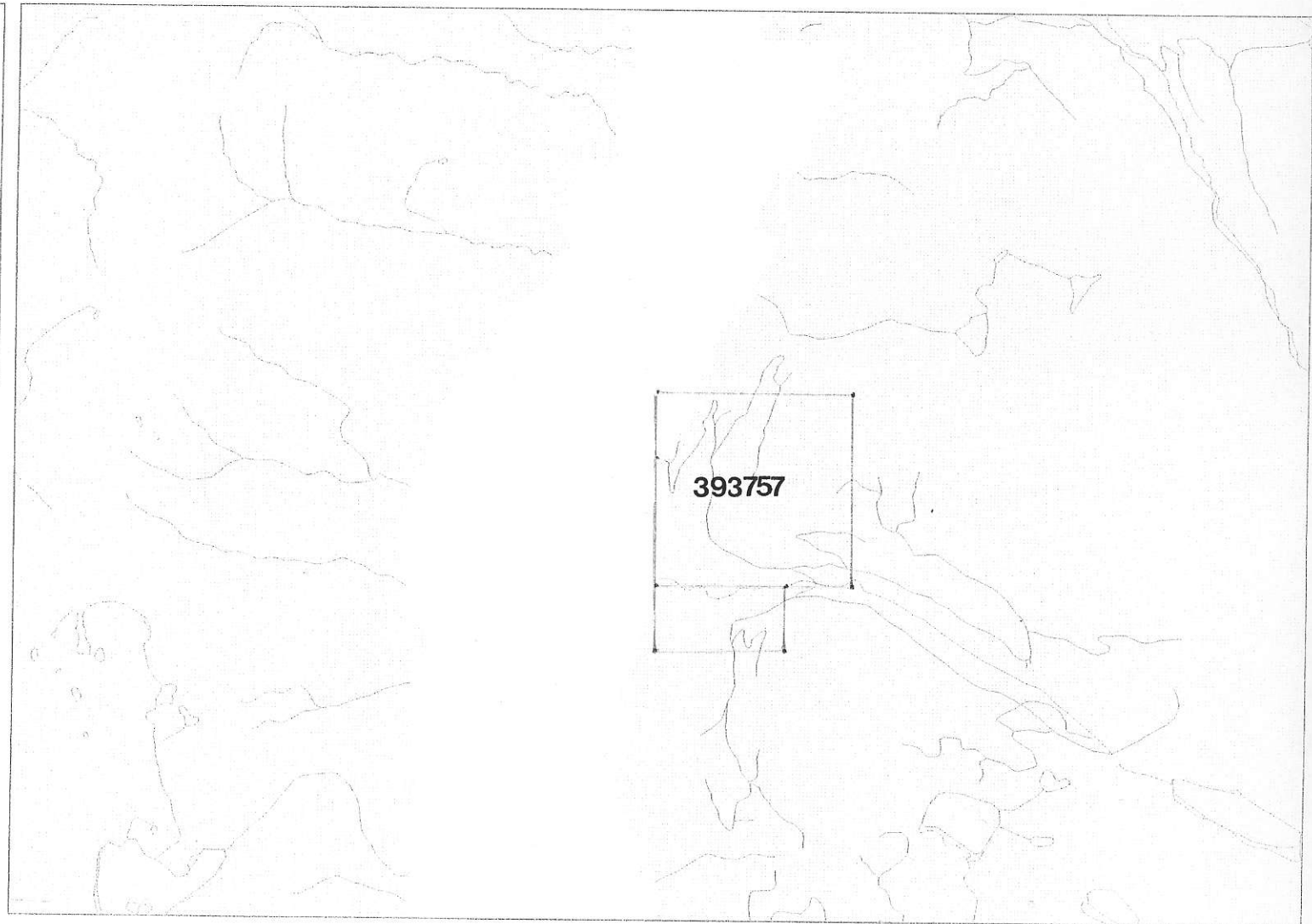


SCALE 1 : 8,000,000

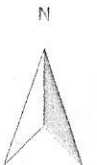


Loughborough Claim Group (Claim Map)

- Topographic Layers**
- Roads 1:20K (<100K)
 - Lakes 1:250K (<2M)
 - Lakes 1:50K (<300K)
 - Rivers 1:50K (<300K)
- Grid Layers**
- Grid 1:250K maps - outline
- BC Border Layers**
- BC Border 1:50K (<200K)



SCALE 1 : 50,000



4.0 AREA HISTORY

During late 1800's the Dortha Morton Mine produced some 10,000 tons of ore with average grade of 0.45 oz/ton gold. However, operation was suspended in 1899, more recently Signet Resources carried out diamond drilling which extended the limits of known mineralization and reported core intersections grading up to 1.0 oz/ton gold across widths of 3.0 meters (G.C.N.L.No: 1984).

Previous and most recent work on the Loughborough Claim Group suggests a close similarity to the Dortha Morton Mine area in the geological setting as well as the mineralization type.

5.0 PROPERTY HISTORY

Shamrock gold mine is located in the north western part of the property in what it use to be Shamrock reverted crown grant, where several prospects adits and short tunnels were driven during late 1800's on sulphide occurrences located along the contact between the Coast Plutonic Complex and the northwest trending metasedimentary and metavolcanic roof pendant.

In 1986, soil samples collected in the vicinity of the Shamrock old workings returned anomalous geochemical values ranging from 30-85 ppb gold, 5,0-10.0 ppm silver, 200-1400 ppm copper, and 200-1100 ppm zinc.

Reconnaissance soil and stream sediment geochemical surveys in the central and the eastern parts of the claim group identified two additional areas which exhibit elevated gold and base metal contents.

Geological mapping during 1986 field work program established that the roof pendant and the intrusive rocks exposed on the property are closely similar to rocks in the Dortha Morton Mine area and the geochemical surveys during the program have established that elevated gold, silver, copper, zinc, and lead values occur along the contact zone between the two rock types.

No work ever recorded on the subject claims since the completion of the 1986 fieldwork program.

6.0 GEOLOGY & EXPLORATION MODEL

The Loughborough Inlet area is underlain by northwesterly elongated intrusives ranging in composition from diorite to granodiorite, which form part of the Coast Plutonic Complex. Narrow metasedimentary and metavolcanic roof pendants occur along the margins of the intrusives and are thought to represent fault slices or grabens along which "horsts" of plutonic rocks were thrust upward, (Roddick, 1980).

The geology of the area indicates that a northwest trending pendant crosses the mainland from Phillips Arm through Loughborough Inlet and extends several kilometers to the northwest.

Geological mapping carried out during the previous field work program traced a 100 meters wide belt consisting of variably altered (contact metamorphic type alteration) argillites from the northwest corner of the property along a southeast axis across the southern part of the property to Poison Creek, where an inferred, E-W trending fault structure offsets the metasediments approximately 200 meters to the north.

Gold and base metals mineralization in the Loughborough Inlet area is associated with silicified fracture zones developed along the margins of the roof pendants and within marginal parts of the intrusives.

7.0 TARGET AREAS

Three target areas of gold and base metals were delineated on the property area as a result of detailed soil sampling program (843 samples) completed over the contact zone between the intrusives and the metasedimentary roof pendants rocks.

Area 1

A gold and base metals anomaly area approximately 200 meters long and 50 meters wide, located at the southern contact of the roof pendant. The soil geochem anomaly persists along strike from the inlet showing indicating potential for additional mineralization along the contact zone.

Area 2

This area exhibits the strongest geochemical response of the three target areas. Elevated base and precious metal concentrations have been traced from the Shamrock Extension Showing to a point 350 meters south. Within the zone, spot highs of up to 10,500 ppm zinc, 1,407 ppm copper, 9.1 ppm silver, and 30 ppb gold were recorded. This soil anomaly is considered the principal target for follow-up exploration program.

Loughborough Claim Group (Geology Map)

Topographic Layers

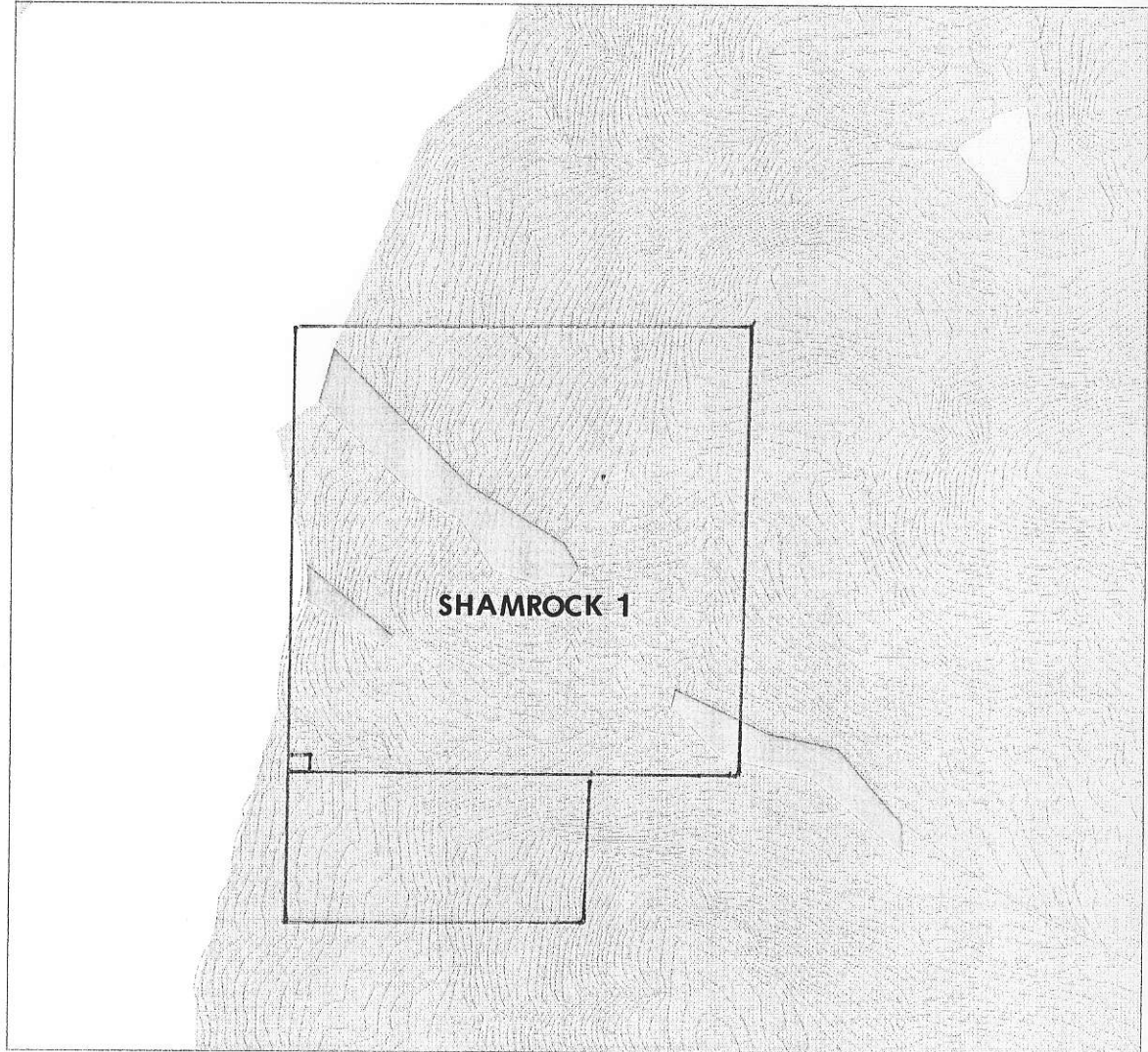
- Contours west 1:20K (<100K)
- Lakes 1:250K (<2M)
- Lakes 1:50K (<300K)
- Rivers 1:50K (<300K)

Grid Layers

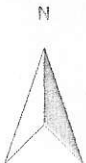
- Grid 1:250K maps - outline

BCGS Geology Layers

- Contacts (<4M)
- Contact
- Fault
- -Thrust Fault
- -Normal Fault
- Anticlines
- Synclines
- All Others
- Bedrock geology - by age and rock class (solid)
- AGE UNKNOWN
- intrusive rocks
- metamorphic rocks
- CENOZOIC
- intrusive rocks
- QUATERNARY TO RECENT
- alluvium, till
- sedimentary rocks
- volcanic rocks
- NEOGENE TO RECENT



SCALE 1 : 25,000



Loughborough Claim Group (Target Areas Location Map)

Mineral Inventory Layers

- ⊗ ... ^ MINFILE status
- ⊗ Producer
- ⊗ Past Producer
- ⊗ Developed Prospect
- ^ Prospect
- ^ Showing
- ▣ All Others

Regional Geochem Layers

- ◇ ... ◇ RGS - Gold by FA (<1.2M)
- ◇ 50th Percentile
- ◇ 70th Percentile
- ◇ 90th Percentile
- ◇ 95th Percentile
- ◇ Greater than 95th Percentile
- ▣ All Others

Topographic Layers

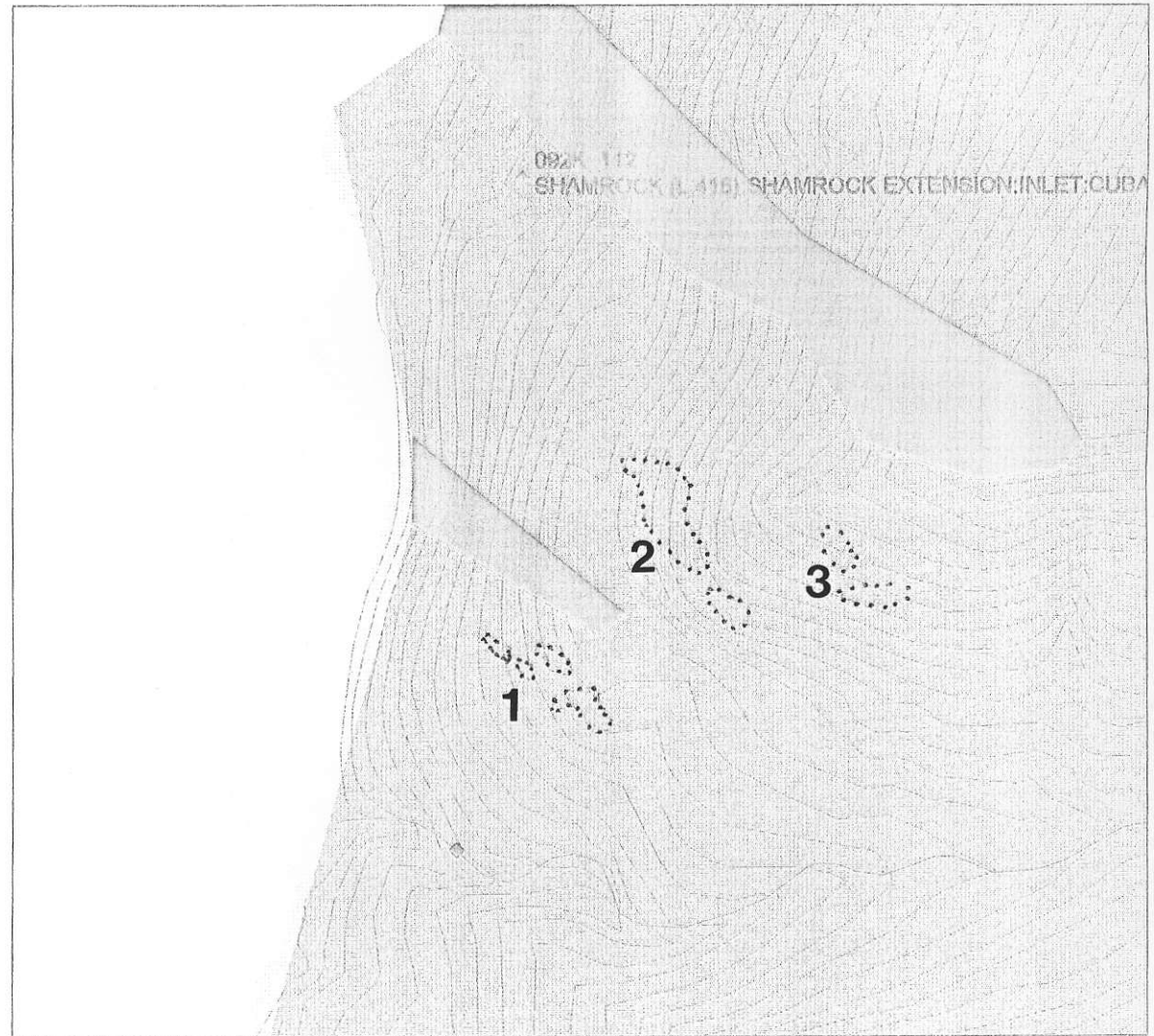
- Contours west 1:20K (<100K)
- Lakes 1:250K (<2M)
- Lakes 1:50K (<300K)
- Rivers 1:50K (<300K)

Grid Layers

- Grid 1:250K maps - outline

BCGS Geology Layers

- Bedrock geology - by age and rock class (solid)
- AGE UNKNOWN
- ▣ intrusive rocks



SCALE 1 : 10,000



SHAMROCK 1-3 CLAIMS Topo Map

First Nations Layers

 Indian Reserves



Mineral Inventory Layers

  **MINFILE status**
 Producer
 Past Producer
 Developed Prospect
 Prospect
 Showing
 All Others

Topographic Layers

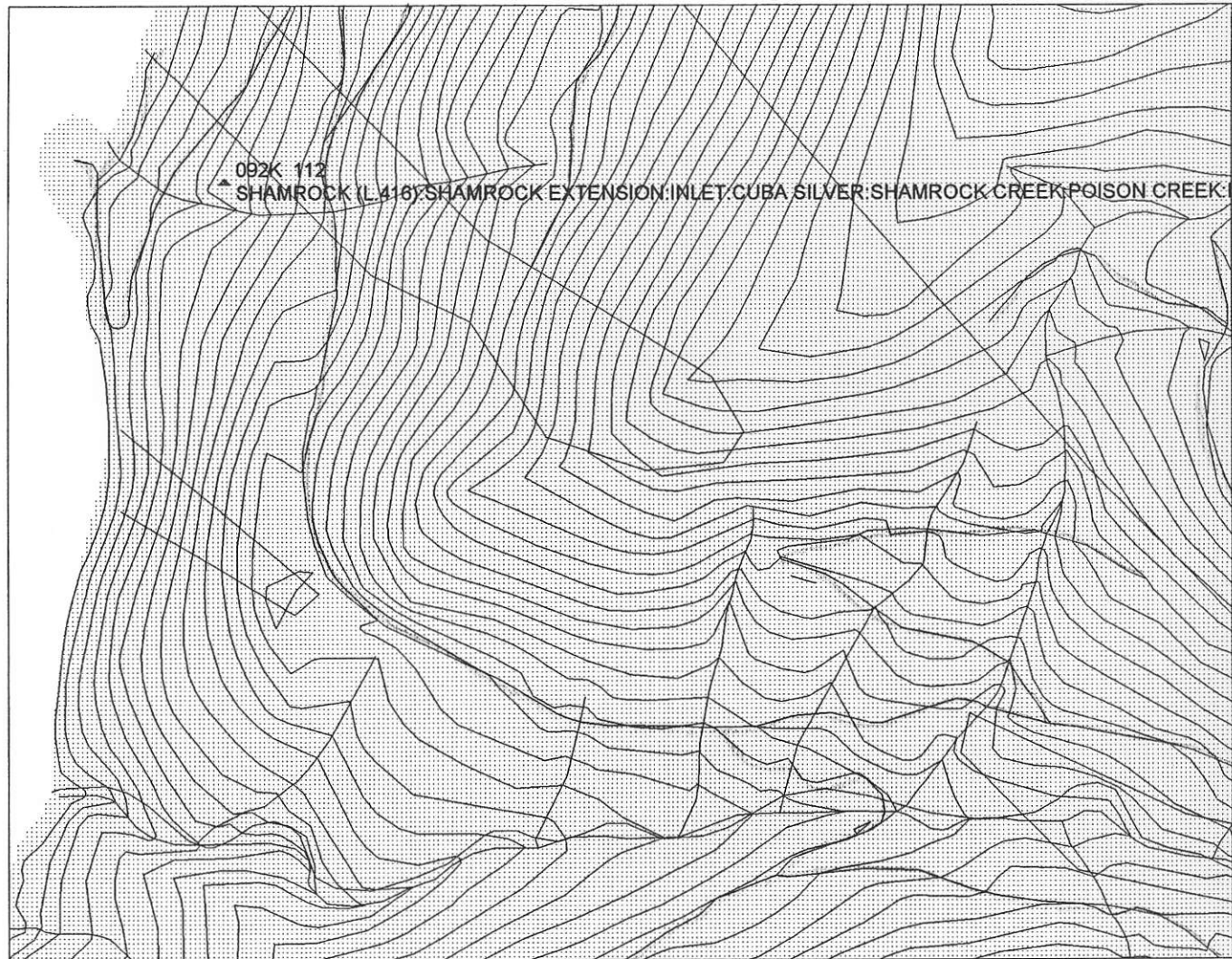
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 Roads 1:20K (<100K)
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 Lakes 1:250K (<2M)
 Rivers 1:50K (<300K)
 Rivers 1:20K (<100K)

Grid Layers

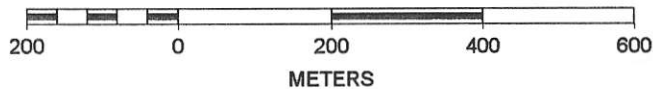
 Grid 1:50K maps - polygons
 Grid 1:250K maps - outline

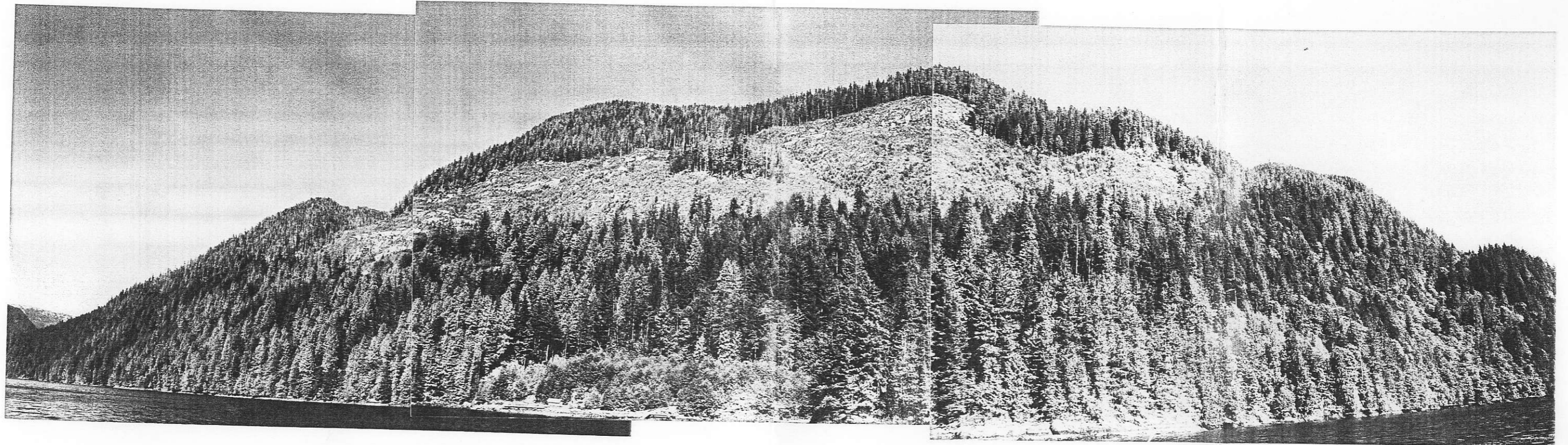
BCGS Geology Layers

 Contacts (<4M)
 Contact
 Fault



SCALE 1 : 10,000





LOUGHBOROUGH CLAIM GROUP

General view

Area 3

Elevated copper and zinc values have been traced for approximately 200 meters along the contact between the intrusives and the upper metasedimentary belt.

8.0 DISCUSSION AND CONCLUSION

Gold mineralization in the Loughborough Inlet area is associated with silicified fracture zones developed along the contact between the metasedimentary-metavolcanic roof pendants and the intrusive rocks of the Coast Plutonic Complex.

Geological mapping carried out during 1986 work program on the Loughborough Claim Group have delineated a 100 meters wide belt of contact zone between metasedimentary-metavolcanic rocks of roof pendant, and a northwesterly elongated intrusive rocks of the Coast Plutonic Complex.

Detailed soil survey conducted on the property has identified several soil geochem anomaly areas. The anomalies display strong correlations with silver, copper, zinc and lead that pin point to good potential for gold and base metals mineralization within the Shamrock Claim Group. Strong support of the geochemical anomaly in the property has been provided by the contact zone between the argillite roof pendant and granitic intrusives of the Coast Plutonic Complex. Mineral assemblages indicate that hydrothermal fluids were enriched in gold, silver, copper, zinc, and lead.

The Shamrock gold and base metals mine is located on the western portion of the property. A gold and base metals anomaly approximately 200 meters long and 50 meters wide, located along strike from the old mine indicating potential for additional mineralization along the contact zone. The magnetic nature of the massive pyrrhotite mineralization of the Shamrock old workings would make it possible to trace extension to these occurrences.

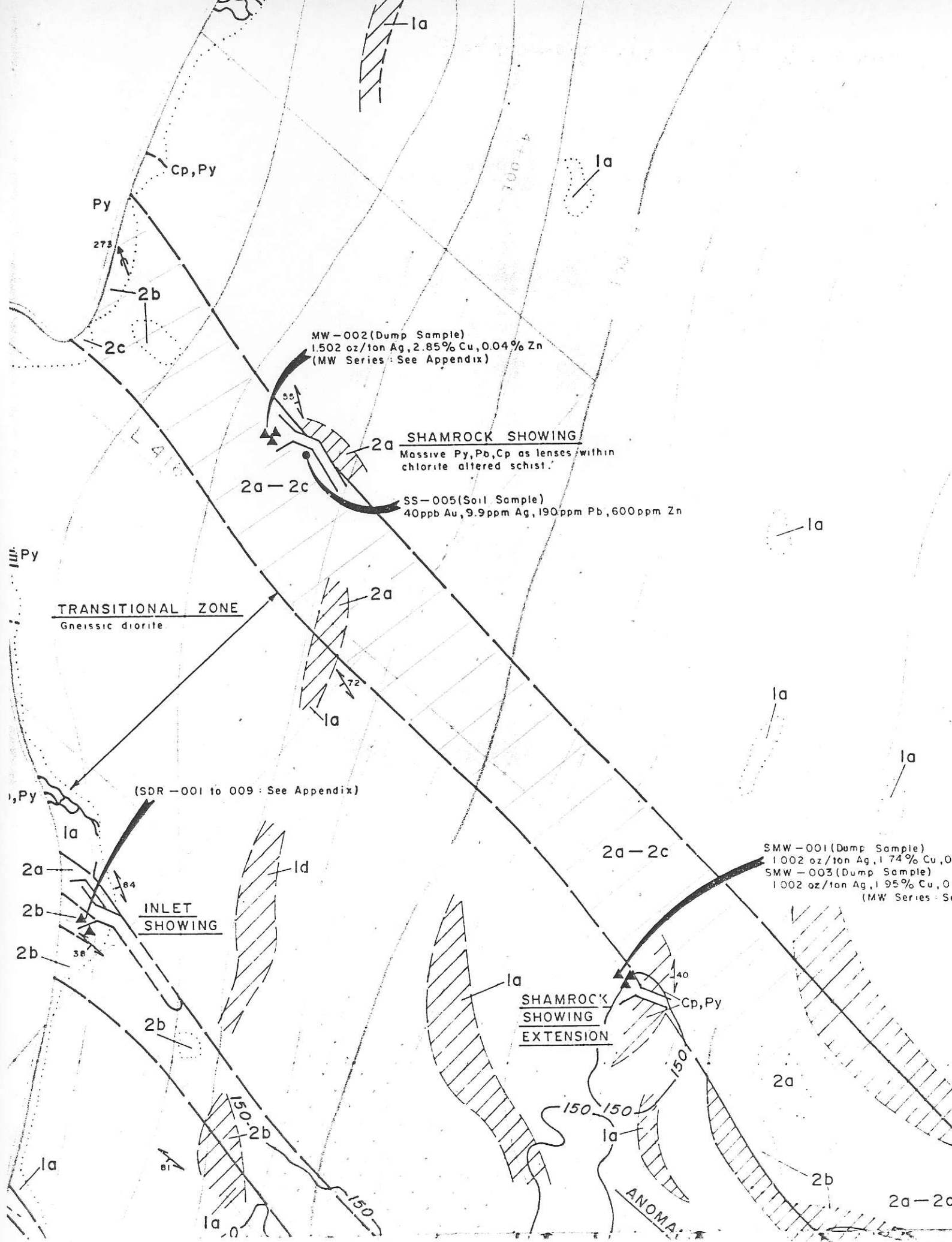
The 1986 program has outlined three significant anomalous areas located on the property. Field programs to date have covered one-half of the property. Good potential exists for locating more significant mineralization on the remainder of the property.

A trenching program over all anomalous areas is highly recommended.

Respectfully Submitted

Fayz Yacoub, P. Geo., F.G.A.C.





Cp, Py

Py

273

2b

2c

MW-002 (Dump Sample)
1.502 oz/ton Ag, 2.85% Cu, 0.04% Zn
(MW Series: See Appendix)

2a-2c

SHAMROCK SHOWING

Massive Py, Pb, Cp as lenses within chlorite altered schist.

SS-005 (Soil Sample)
40ppb Au, 9.9ppm Ag, 190ppm Pb, 600ppm Zn

TRANSITIONAL ZONE
Gneissic diorite

(SDR-001 to 009: See Appendix)

INLET SHOWING

SHAMROCK SHOWING EXTENSION

SMW-001 (Dump Sample)
1.002 oz/ton Ag, 1.74% Cu, 0.01% Zn
SMW-003 (Dump Sample)
1.002 oz/ton Ag, 1.95% Cu, 0.01% Zn
(MW Series: See Appendix)

2a-2c

Cp, Py

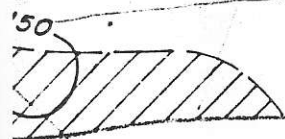
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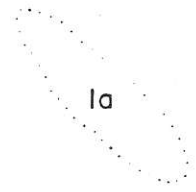
ANOMALY

2a-2c



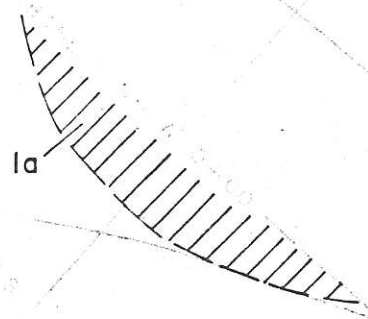
2-001

1-001

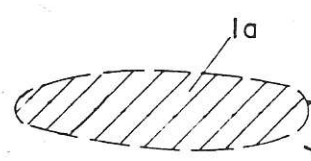


1a

1a



1a



1a

2a

2b




2a







6

LEGEND

KARMUTSEN FORMATION META SEDIMENTS

-  2a Argillites.
-  2b Banded Series.
-  2c Limestone — Calcareous

PLUTONIC ROCKS DIORITES

-  1a Diorites.
-  1b Synite.
-  1c Augite.
-  1d Gniessic.

 Diabase Dykes.

 Pegmatite Veins.

 Quartz Veins.


Py. Pyrite.

Po. Pyrrhotite.


Cp. Chalcopyrite

▲ Rock Sample Location.

SYMBOLS

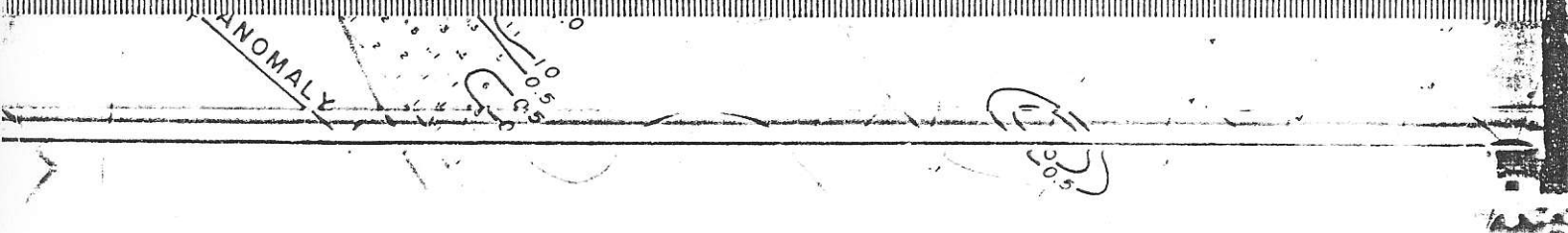
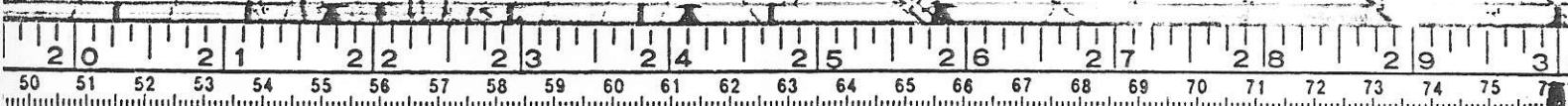
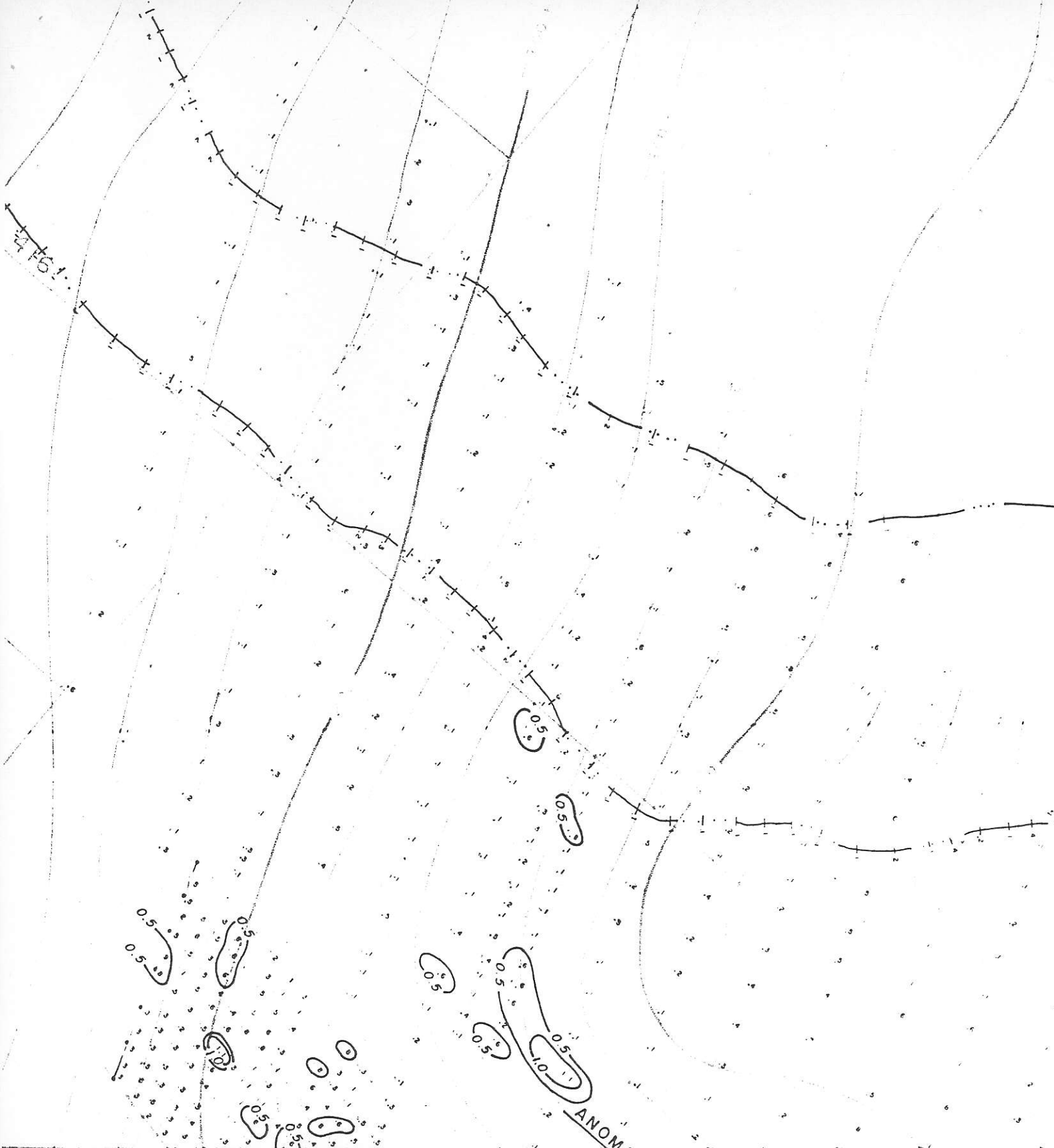
 Geological Boundary — Assumed, Approximate

 Strike & Dip

 Outcrop.

 Cliffs.





ANOMALY

1.0
0.5
0.5

0.5

