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SUMMARY REPORT

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**1988 PROSPECTING PROGRAM** 

RAINBOW PROJECT

WHISTLER; BRITISH COLUMBIA

NTS 92J/3

LONGITUDE: 123° 10'

LATITUDE: 50° 11'

FOR

NICHOLSON & ASSOCIATES NATURAL RESOURCE DEVELOPMENT INC.

#606-675 West Hastings Street Vancouver, B.C. V6B 1N2

BY

JOHN A. NICHOLSON, GEOLOGIST

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#### INTRODUCTION

This report was prepared by John A. Nicholson, of Nicholson & Associates, Natural Resource Development Inc. Its purpose is to summarize recent work undertaken on the Rainbow claim block.

A four day prospecting program was completed during the month of August 1988. During this period of time, prospecting, limited geological mapping and rehabilitation of two previous trenches were undertaken.

A total of 21 samples were taken and analyzed for Ag, Au, Pb, Zn and Cu at Acme Analytical Labs in Vancouver, B.C.

A total of 3 persons were employed to complete the 1988 programme.

#### SUMMARY

During the month of August, a total of 21 rock and soil samples were taken from the Rainbow project. Two trenches were rehabilitated, sampled and mapped. The purpose of the program was to test the Rainbow area for base and precious metal content. A kuruko type of setting (eg. Brittania Mine) was the anticipated target. The results that were obtained indicated several things:

- (1) The Rainbow area is enriched in polymetallics.
- (2) Precious metals are associated with the base metals.
- (3) The presence of visible barite and barite values in the past indicate the possibility of a kuruko - style massive sulfide setting.
- (4) A stockwork enriched in precious metals and located along that of shears indicates:
  - (i) leaching of metals enhance gossan gulch and other seeps in the area.
  - (ii) the presence of a base metal/precious metal system at depth, hence giving rise to the metal concentration and associated back ground values in the host country rock.

Based on these conclusions it is recommended that a detailed V.L.F. - E.M. programme backed up with a magnetometer and soil geochemistry surveys be undertaken. The areas that

this program would encompass would be the Gossan Gulch area and Trench Zone area.

The programme would:

- (i) Outline any massive sulfide zones
- (ii) differentiate the various rock units and faulting/shearing present

(iii) pinpoint areas to be trenched and drilled Concurrent to this should be a detailed lithogeochemistry survey.

## LOCATION AND ACCESS

The Rainbow claims block is located within the Vancouver Mining District on N.T.S. map sheet 92J/3. It is situated 5 kilometres west of the village of Whistler (Figure 1).

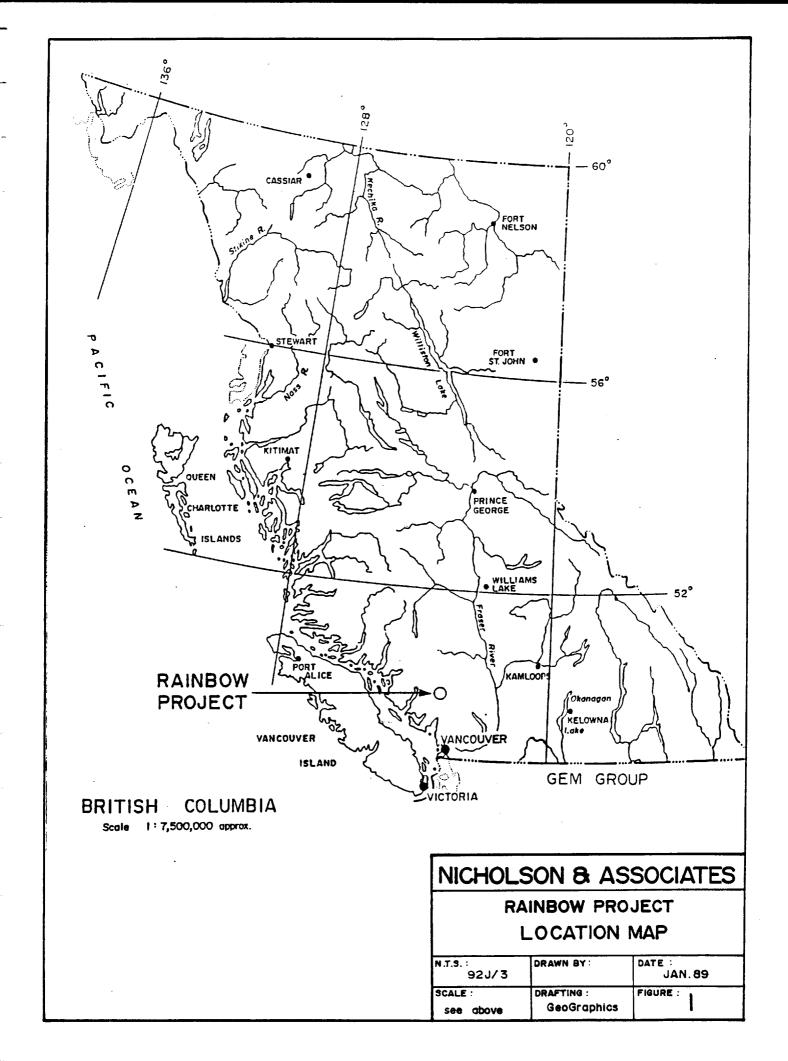
Access at present is via Corporate Helicopters based in Whistler of Vancouver Helicopters located in Squamish. Preexisting logging roads come within 1.3 km of the claim block.

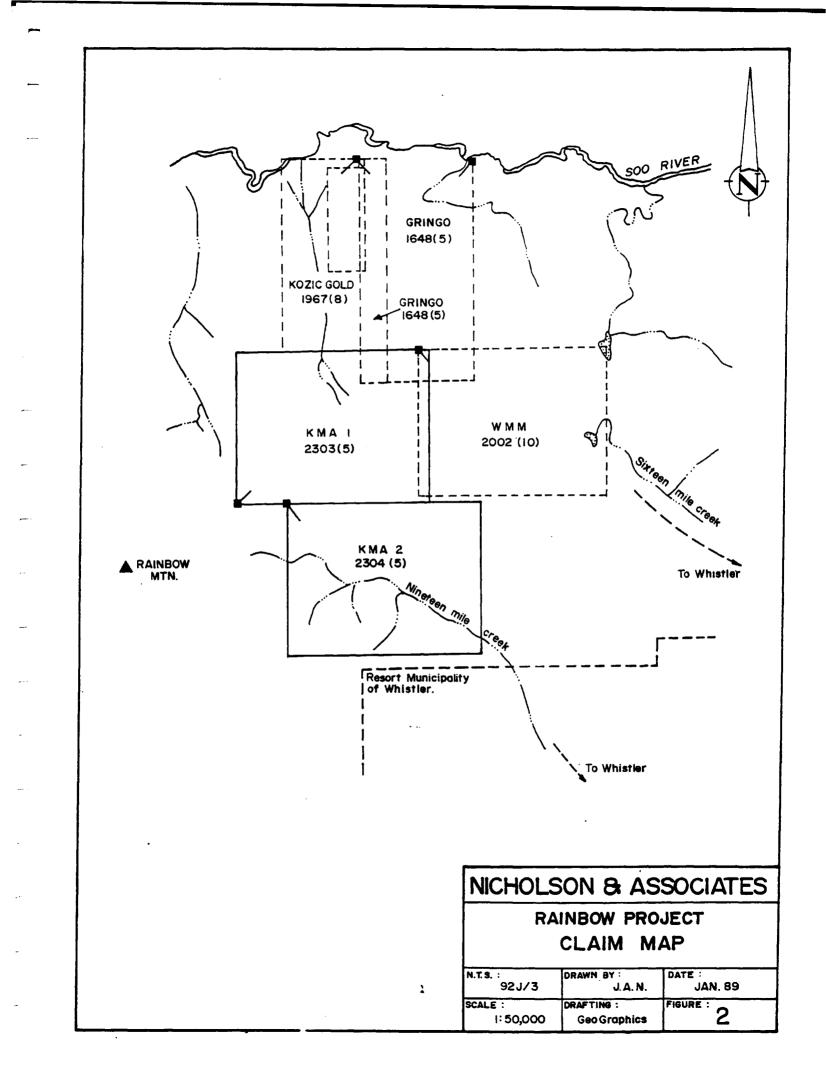
#### PROPERTY

The Rainbow property consists of 40 patented claims which were staked in accordance to the new grid system. The claims cover an area of some 2471 acres (Figure 2).

The Rainbow claims were staked in 1988 by John A. Nicholson of Vancouver, B.C.

The claims were staked to cover pre-existing known massive sulfide anomalies and gold occurrences which were





outlined in 1982-83 by Stackpool Resources Ltd. of Vancouver, B.C.

#### CLAIMS

Claim data is as follows:

| <u>Claim Name</u> | Record No.     | No. Claims | Expiry Date  |
|-------------------|----------------|------------|--|
| K.M.A. 1          | 2303           | 20         | May 10, 1989* J  |
| K.M.A. 2          | 2304           | 20         | $\begin{array}{c} May \ 19, \ 1989 * \\ 90 \ f. \end{array}$ |
| *prior to fil     | ing assessment | work.      | 10 4.00.   |

#### HISTORY

Exploration history in the Whistler area dates back to the early 1900's. This early exploration was prompted by the discovery in 1898 of the Britannia Beach base metal deposit. Exploration was targeted primarily towards prospecting roof pendants of the Gambier Group Volcanics.

Activity was sporadic and no record or earlier exploration other than trenches on the property is evident.

The first recorded work in the area was in the early 1970's when Duval International began looking at the base metal potential. This was subsequently followed up by other companies such as Noranda Mines Ltd., Falconbridge Copper Ltd., Kidd Creek Mines, Placer Dome, Rio Algom, and Northair Mines. Subsequently numerous copper and precious metal prospects were found in the area.

Most notable of these are the "Brandywine Creek" gold and

silver showings some 7 km southwest of Northair Mines mine site.

In 1981 Stackpool Resources staked approximately 467 claims in the Whistler area to cover all available Gambier Group roof pendants in the hopes of finding more Britannia sized Kuruko type massive sulfide bodies or Northair style precious-base metal vein mineralization. A comprehensive airborne magnetometer and V.L.F. - E.M. survey was done over most of the property. Areas of interest were prospected and several secondary targets were pin pointed. Most notable of these was one sample containing .376 oz/ton gold, .19 oz/ton silver, 76% barite within a grey silicified green schist, and another assaying .006 oz/ton Au, 0.32 oz/ton Ag within a green sericite schist.

These areas were later dropped. In 1988 John A. Nicholson staked the ground to cover these known occurrences. Subsequent prospecting on the property (Rainbow Project) revealed several gold anomalies up to 400 ppb and anomalous base metal values. At present the ground is held in good standing by John A. Nicholson. Future work should consist of a detailed prospecting and trenching programme followed by diamond drilling to further evaluate the potential of the property.

#### PHYSIOGRAPHY, CLIMATE AND VEGETATION

The Rainbow property is situated within the Coast Mountain Range Complex. Elevations on the property range from 4200' to 6500'.

The property is bound by gentle sub-alpine fields above the 5200' level to steep cliffs on the northern and southern flanks of the property.

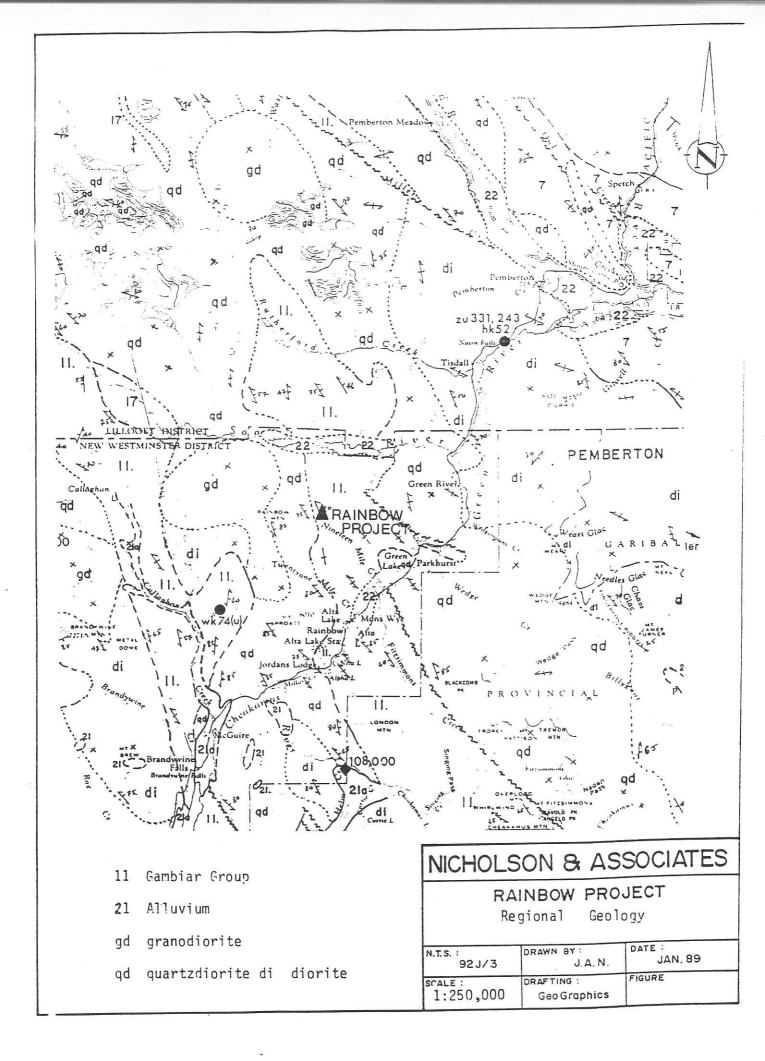
The property is subject to mountain weather systems. As a result, the weather in the summer months is very hot and humid, winter months will see in excess of some 6 feet of snowfall, and spring comes early (March) with consistent rain and the occasional snow shower.

Most of the property is covered by tall stands of Western Red Cedars and Hemlock. The exceptions to this are the alpine and cliffs regions which have very little in the way of actual plant growth.

#### REGIONAL GEOLOGY

The Whistler area is underlain by three main geological units (from Woodsworth, 1977) and appears on Figure 3.

- (i) Roof pendants of metavolcanic and metasedimentary rocks belonging to the Gambier Group of upper Jurassic to lower Cretaceous age;
- (ii) Granitic rocks of the Coast Plutonic complex of upper Cretaceous age;



(ii) Dikes and lavas of Tertiary to Recent age, belonging to the Garibaldi Group.

On a regional scale, the rocks of the Gambier Group consist predominantly of andesite to dacite, tuffs and flows representative of felsic volcanic centers. Graphitic mudstones and impure siltstones form an important subdivision of the group. Also included are narrow zones of chlorite and sericite schists; the result of shearing rather then regional metamorphism. The Gambier Group was sheared along the axial planes of anticlinal structures (such as at Britannia) or along major planes of weakness such as the contact between predominantly sedimentary packages. Minor crosscutting and synvolcanic faults are accompanied by narrow shear/schist The Gambier Group occurs as large, elongate roof zones. pendants within the Coast Plutonic Complex. This complex consists of intrusive rocks, mainly guartz-diorite and granodiorite, both of which are rich in biotite and hornblende. These rocks vary little in composition and texture over large areas.

# MINERALIZATION

The Gambier Group is a proven base and precious metal producer which includes the Britannia and Northair mines. Britannia produced 55 million tons of ore grading 1.1% copper, 0.65% zinc, 0.2 oz/ton silver and 0.02 oz/ton gold from a large number of separate ore bodies within sheared dacite

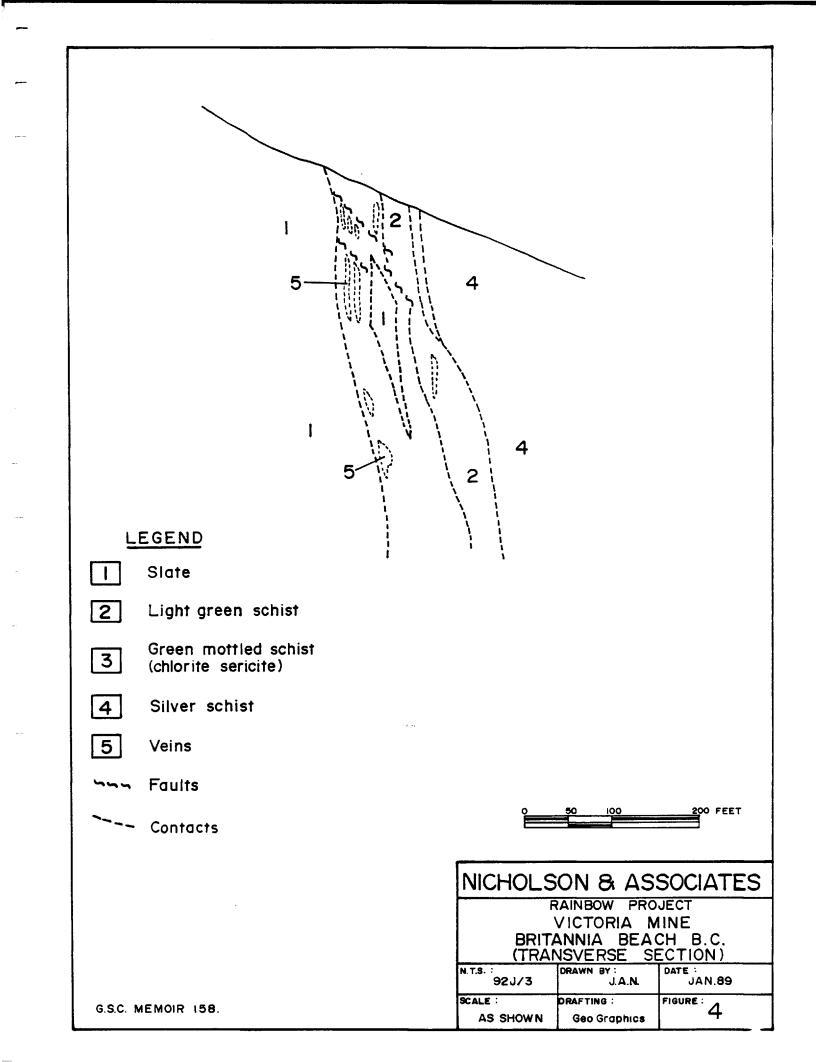
pyroclastics (Timmins and Sivertz 1983). The ores are thought to be of volcanogenic exhalative in origin (Payne, 1980) (see sections, Figures 4 and 5).

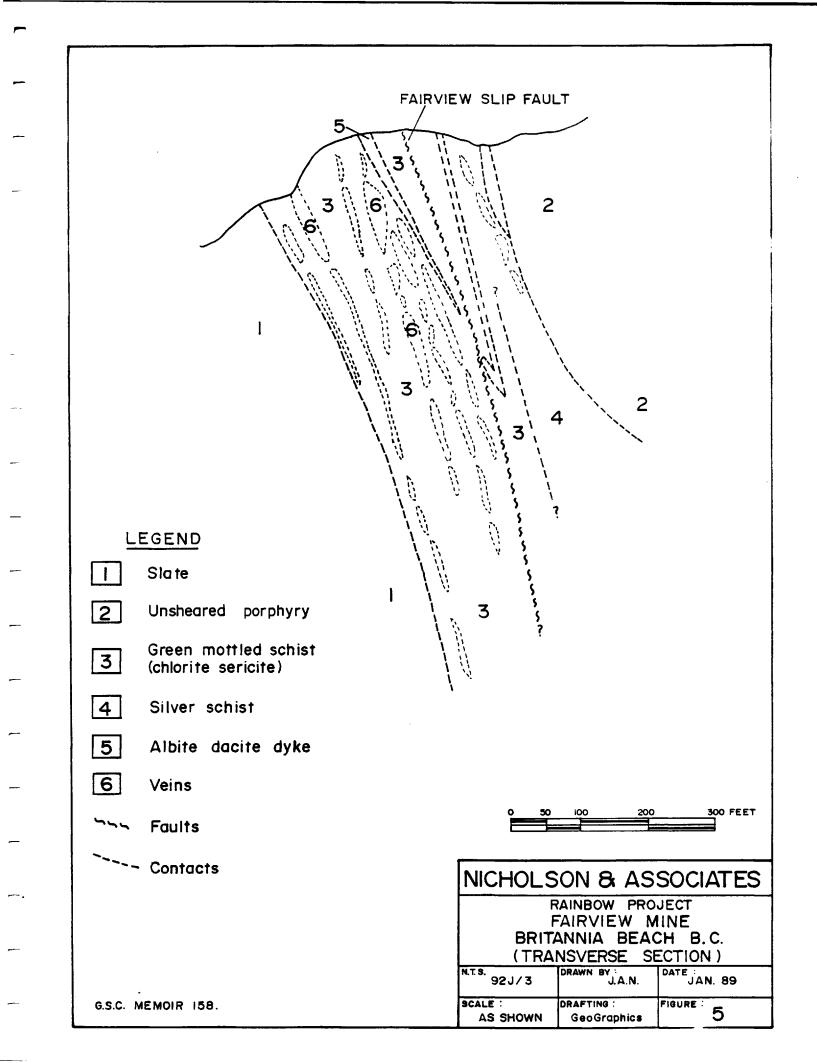
The Northair mine produced approximately 100,000 tons of ore a year between 1976 and 1982 with a total production of 150,000 oz gold, 800,000 oz silver, 12 million pounds zinc and 9 million pounds lead (Timmins, 1983). The ores consisted of base metal quartz-calcite veins hosted by coarse andesite pyroclastic rocks. The mine site is located 9 kilometres southwest of Callahan Lake and 5 kilometres west of the Rainbow Project.

Other copper and precious metal showings in the area occur within the Callahan Lake roof pendant, particularly southwest of the Northair mine site.

The showings are owned largely in part by Noranda, the Northair Mine Group and Minnova. All of these showings consist of precious metal-bearing quartz veins and sericite schists.

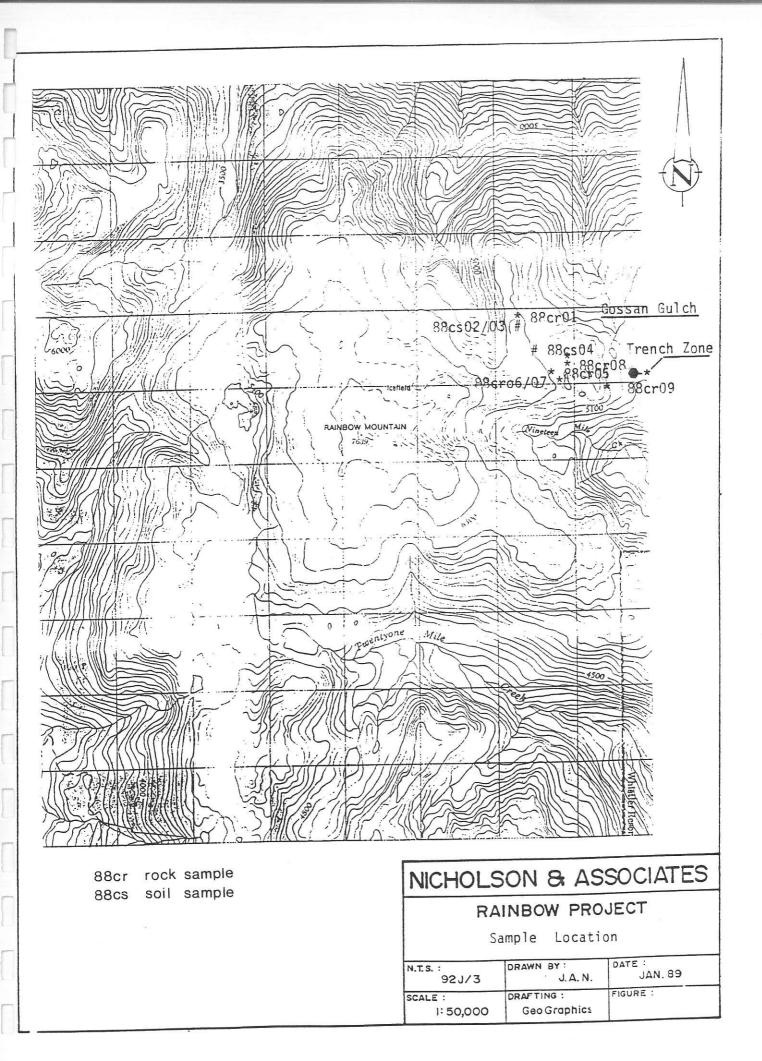
Mineral occurrences on the Rainbow Project are varied. On the western part of the property mineralization consists of cubic to disseminated pyrite within a slatey, phyllitic argillite. An abundance of quartz sweats are also prominent within these argillites. Several samples taken from these areas by both Stackpool Resources and John A. Nicholson returned anomalous values.





On the central section of the property, the mineralization is varied and widespread. Again quartz sweats within the phyllitic argillite are a prominent feature. Mineralization occurs primarily in three forms. These are:

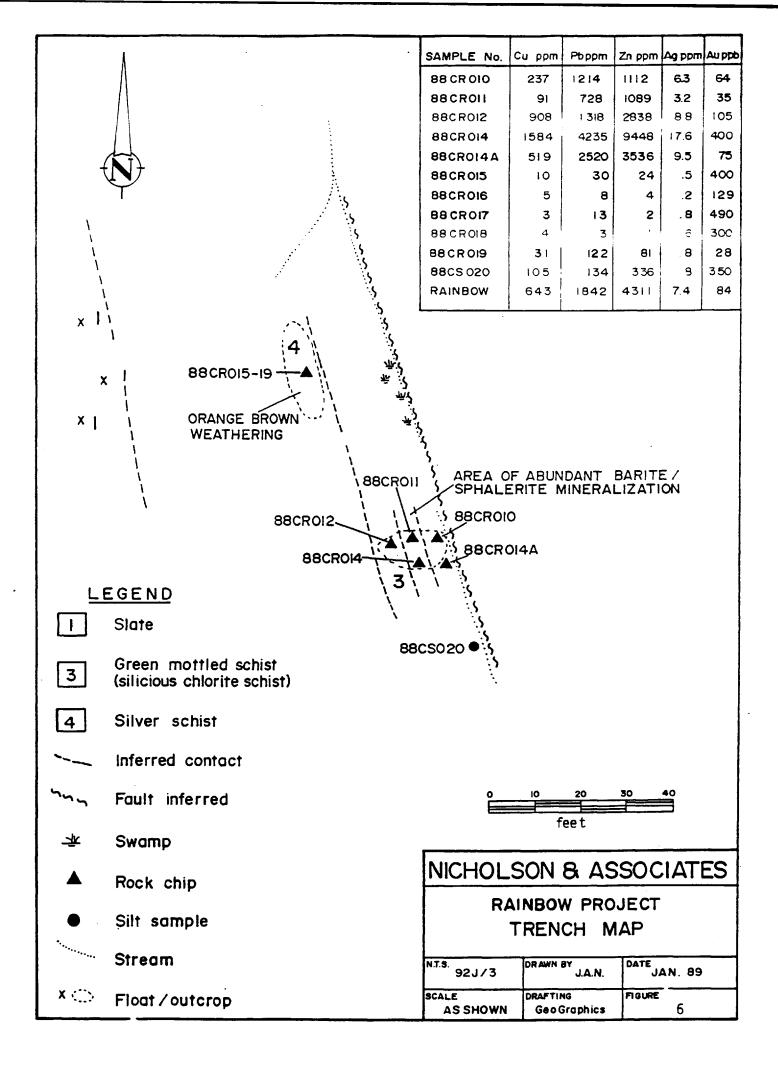
- (1) cubic-disseminated pyrite within a phyllitic argillite, occasional quartz sweats within this unit contain disseminated pyrite. Samples taken from these areas were anomalous in base metals only. (88CR001 - 88CR008)
- (2) Gossan Gulch area which is located on the north central part of the property consists of a strongly oxidized and gossanous goethite which contains widespread disseminated pyritization. Values from this area obtained by Stackpool Resources indicated the presence of polymetallic enrichment.
- (3) The Trench Zone area, which was the main focal point during Stackpool's 1982 follow-up and the Nicholson 1988 programme, consists of several forms of mineralization. The most notable is a silvery sericite schist package which contains very finely disseminated pyrite (< 1%). Several samples were obtained from this unit and returned consistent gold values of 400 ppb. Immediately adjoining this unit to the east is a greenish chloritic schist unit. Within this rock unit there appears to be a quartz stockwork. This area has received much attention.



Results obtained from the Trench Zone in 1983 by Stackpool Resources returned 0.376 oz/ton Au, 0.19 oz/ton Ag, 0.08% Cu and 0.13% Zn. "The sample consists of grey and silicieous, sericite schist invaded by barely noticeable grey, quartz veinlets containing trace amounts of brown sphalerite, blue covellite, pyrite and chalcopyrite." Other samples obtained in the immediate vicinity returned barite values in the order of 76%.

Sampling undertaken by John A. Nicholson from the Trench Zone area (Figure 6), returned several anomalous base metal and precious metal values. These samples were taken in the vicinity of the above mentioned results. The rocks in question were primarily a greenish grey silicified chloritic schist which contained trace -3% specular sphalerite, trace -2% chalcopyrite and trace -1% pyrite. Minor shearing in the form of slickensides were present. Several of the rocks taken in the area were exceptionally heavy and the presence of visible barite was noticeable. Samples taken were #88CR010 - #88CR018.

Work undertaken by Stackpool Resources in this area consisted of a follow-up geochemistry programme around these trenches of interest. Anomalous base metal and precious metal values were obtained. Very little in the way of test pits were done and as a result many



previously untested anomalies remain open for further expenditures.

Coupled with this and the fact that the area is enriched with anomalous, precious and base metal values makes the Trench Zone a very interesting area for future work.

#### CONCLUSION

During the month of August, 1988 a total of 21 rock and soil samples were collected in the Rainbow area. These samples were taken from various locations on the property to test the polymetallic potential of the area.

Results obtained were very encouraging. All of the results had elevated base and precious metal values. These results indicate several things, and they are:

- (1) Rainbow mountain area is enriched in polymetallics
- (2) Base metals are associated with precious metals.
- (3) The presence of visible barite and barite values in the past, indicates the possibility of a kurukostyle massive sulfide setting
- (4) A stockwork system enriched in precious metals along a shear zone indicates:
  - (i) leaching of metals enhance gossan gulch and other seeps in the area.
  - (ii) The presence of a base metal/precious metal system at depth, hence giving rise to the metal concentrations and associated background values in the host country rock.

Based on these conclusions, it is recommended that a detailed lithogeochemical survey followed by V.L.F. - E.M., magnetometer surveys and trenching be initiated. The areas that would be covered are the (1) Gossan Gulch and (2) Trench Zone area. These areas would be covered by 25 meter stations with lines 100 meters apart and 1 kilometer long. The following is a cost breakdown of such a program.

# STAGE 1

#### PERSONNEL

| l Geologist  | 30 days x \$225.00/day | \$ 6,750.00  |
|--------------|------------------------|--------------|
| 3 Assistants | 30 days x \$175.00/day | \$ 15,750.00 |

## ROOM & BOARD

| 4 | MEN | х | 30 | days | х | \$35.00/0 | day - | 4,200.00 |
|---|-----|---|----|------|---|-----------|-------|----------|
|---|-----|---|----|------|---|-----------|-------|----------|

# <u>ASSAYS</u>

1500 SAMPLES x \$12.50/sample 18,750.00

#### TRANSPORTATION

| 15 | hrs | helicop | pter x  | \$600/h | r    | 9,000.00 |
|----|-----|---------|---------|---------|------|----------|
| 1  | 4x4 | truck x | \$50/da | y x 30  | days | 1,500.00 |

EQUIPMENT/RENTAL

| l Blaster/equipment/powder x 5 days    | 3,200.00     |
|--|--------------|
| l V.L.F E.M. unit x \$350.00 x 4 wks   | 1,400.00     |
| l Magnetometer unit x \$350.00 x 4 wks | 1,400.00     |
|  |              |
| SUPERVISION \$350.00 x 5 days          | 1,750.00     |
|  |              |
| REPORT WRITING/DRAFTING                | 5,000.00     |
|  |              |
| TOTAL                                  | 68,700.00    |
| Contingency                            | 6,300.00     |
| TOTAL                                  | \$ 75,000.00 |

This stage (1) program would outline drill targets and other areas of interest to be trenched. This would take place in a stage (2) program contingent only on favourable results from stage (1).

## STATEMENT OF QUALIFICATIONS

- I, John A. Nicholson, hereby certify that:
- 1. I am a geologist residing at #406 2020 W. 2nd Ave., Vancouver B.C.
- 2. I have been involved in geological exploration for the past 8 years
- 3. I supervised the work program carried out in the Rainbow Project during the month of August.

January 28, 1989

John A. Nicholson

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STATEMENT OF COSTS

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# STATEMENT OF COSTS

## PERSONNEL

| 2 | Geologists x 200.00/day x 4 | \$<br>1600.00 |
|---|-----------------------------|---------------|
| 1 | Assistant x 150.00/day x 4  | 600.00        |

CAMP COST (Supplies and Food) 573.21

## ASSAYS

|  | 21 | samples | х | \$12.50 | 262.50 |
|--|----|---------|---|---------|--------|
|--|----|---------|---|---------|--------|

## TRANSPORTATION

| Helicopter  | \$600/hr with | fuel x 1.6 hrs | 960.00 |
|-------------|---------------|----------------|--------|
| Truck Renta | 1 4 days @    | \$65/day       | 260.00 |

# EQUIPMENT PURCHASE/RENTALS

| 3 Mo | torola | Radios | х | 50/week | 150.00 |
|------|--------|--------|---|---------|--------|
|------|--------|--------|---|---------|--------|

| TOTAL EXI | PENDITURES |  | <b>\$</b> 4 | 1405. | 71 |  |
|-----------|------------|--|-------------|-------|----|--|
|-----------|------------|--|-------------|-------|----|--|

ROCK SAMPLE DESCRIPTIONS

• -

|            |                     | ROCK SAMPLE DESCRIPT   | TION RECO | ORD     |           |                 | <i>,</i> •                            |                                       |
|------------|---------------------|--|-----------|---------|-----------|-----------------|---------------------------------------|---------------------------------------|
| Page: 1    |                     | Project: Rainbow Mountain  | Location  | n: 92F3 |           | Operator        | : J.A.N.                              |                                       |
| Sample No. | Location            | Description  |           | A       | nalytical | l Results       | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
|            |                     |  | Au        | Ag      | Рb        | <sup>°</sup> Zn | Ot                                    | her                                   |
| 88CR001    | Rainbow<br>Mountain | grab: orangy brown weathered<br>ferrugenous banded chert which<br>contains trace -2% disseminated<br>pyrite throughout | ll ppb    | .9 ppm  | 393 ppm   | 1160<br>ppm     | Cu:<br>54 ppm                         |                                       |
| 88CR005    | Rainbow<br>Mountain | grab: graphitic siltstone which<br>contains quartz stringers through-<br>out and trace -4% disseminated<br>pyrite      | 3 ppb     | .3 ppm  | 16 ppm    | 139 ppm         | 63 ppm                                |                                       |
| 88CR006    | Rainbow<br>Mountain | grab: silicified dark greenish<br>grey andesite? metased? which<br>contains finely disseminated pyrite<br>throughout   | l ppb     | .l ppm  | 5 ppm     | 26 ppm          | 40 ppm                                |                                       |
|            |                     |  |           |         |           |                 |                                       |                                       |

| Page: 2Project: Rainbow MountainLocation: 92J3Operator: J.A.N.Sample No.LocationDescriptionAnalytical Results88CR008Rainbow<br>Mountainfloat grab: brownish red weathered<br>greyish highly silicified andesite<br>which contains clasts of calcite?<br>and trace -2% pyrite, arsenopyrite<br>throughout. Some minor limonitic<br>staining along fracturesAuAqPbZnOther88CR010Rainbow<br>Mountain<br>Trench #11.0m chip: orangy borwn weathered<br>which contains quartz stringers<br>throughout, trace -10% pyrite and<br>trace -2% sphalerite disseminated<br>throughout64 ppb6.3 prm1214 prm112 prmCu:<br>47 prm88CR011Rainbow<br>Mountain<br>Trench #11.0m chip: same as 88CR010 except<br>increased silicification, diagen-<br>tic pyrite and trace amounts of<br>sphalerite35 ppb3.2 prm728 prm1089 prmCu:                                       |            |          | ROCK SAMPLE DESCRIPT  | ION RECO           | DRD     |                  |          | 1*    |  |  |  |
|--|------------|----------|---|--------------------|---------|------------------|----------|-------|--|--|--|
| 88CR008Rainbow<br>Mountainfloat grab: brownish red weathered<br>greyish highly silicified andesite<br>which contains clasts of calcite?<br>and trace -2% pyrite, arsenopyrite<br>throughout. Some minor limonitic<br>staining along fracturesAuAgPbZnOther88CR010Rainbow<br>Mountain<br>Trench #11.0m chip: orangy borwn weathered<br>grey green quartz serecite schist<br>which contains quartz stringers<br>throughout.40 ppb1.4 ppm42 ppm27 ppmOu:<br>47 ppm88CR010Rainbow<br>Mountain<br>Trench #11.0m chip: orangy borwn weathered<br>grey green quartz serecite schist<br>which contains quartz stringers<br>throughout.64 ppb6.3 ppm1214 ppm112 ppmOu:<br>237 ppm88CR011Rainbow<br>Mountain<br>Trench #11.0m chip: same as 88CR010 except<br>tioreased silicification, diagen-<br>tic pyrite and trace amounts of35 ppb3.2 ppm728 ppm089 ppmOu: | Page: 2    |          | Project: Rainbow Mountain   | Location           | n:92J3  | Operator: J.A.N. |          |       |  |  |  |
| 88CR008 Rainbow<br>Mountain float grab: brownish red weathered<br>greyish highly silicified andesite<br>which contains clasts of calcite?<br>and trace -28 pyrite, arsenopyrite<br>throughout. Some minor limonitic<br>staining along fractures 40 ppb 1.4 ppm 42 plm 27 ppm Cu:<br>47 ppm   88CR010 Rainbow<br>Mountain<br>Trench #1 1.0m chip: orangy borwn weathered<br>grey green quartz serecite schist<br>which contains quartz stringers<br>throughout. trace -108 pyrite and<br>trace -28 sphalerite disseminated<br>throughout 64 ppb 6.3 ppm 1214 ppm 112 ppm Cu:<br>237 ppm   88CR011 Rainbow<br>Mountain<br>Trench #1 1.0m chip: same as 88CR010 except<br>increased silicification, diagen-<br>tic pyrite and trace amounts of 35 ppb 3.2 ppm 728 ppm 089 ppm Cu:   | Sample No. | Location | Description   | Analytical Results |         |                  |          |       |  |  |  |
| Mountaingreyish highly silicified andesite<br>which contains clasts of calcite?<br>and trace -2% pyrite, arsenopyrite<br>throughout. Some minor limonitic<br>staining along fractures40 ppb1.4 ppm42 pim27 ppmCu:<br>47 ppm88CR010Rainbow<br>Mountain<br>Trench #11.0m chip: orangy borwn weathered<br>grey green quartz serecite schist<br>which contains quartz stringers<br>throughout, trace -10% pyrite and<br>trace -2% sphalerite disseminated<br>throughout64 ppb6.3 ppm1214 ppm1112 ppmCu:<br>237 ppm88CR011Rainbow<br>Mountain<br>Trench #11.0m chip: same as 88CR010 except<br>increased silicification, diagen-<br>tic pyrite and trace amounts of35 ppb3.2 ppm728 ppm089 ppmCu:   |            | <u> </u> |   | Au                 | Ag      | РЬ               | Zn       | Other |  |  |  |
| Mountain<br>Trench #1grey green quartz serecite schist<br>which contains quartz stringers<br>throughout, trace -10% pyrite and<br>trace -2% sphalerite disseminated<br>throughout64 ppb6.3 ppm1214 ppm1112 ppmCu:<br>237 ppm88CR011Rainbow<br>Mountain<br>Trench #11.0m chip: same as 88CR010 except<br>increased silicification, diagen-<br>tic pyrite and trace amounts of35 ppb3.2 ppm728 ppm1089 ppmCu:  | 88CR008    |          | greyish highly silicified andesite<br>which contains clasts of calcite?<br>and trace -2% pyrite, arsenopyrite<br>throughout. Some minor limonitic |                    | 1.4 ppm | 42 pim           | 27 ppm   | L L   |  |  |  |
| Mountainincreased silicification, diagen-<br>Trench #135 ppb3.2 ppm728 ppm1089 ppmCu:Cu:   | 88CR010    | Mountain | grey green quartz serecite schist<br>which contains quartz stringers<br>throughout, trace -10% pyrite and<br>trace -2% sphalerite disseminated    | 64 ppb             | 6.3 ppm | 1214 ppm         | 1112 ppm |       |  |  |  |
|  |            | Mountain | increased silicification, diagen-<br>tic pyrite and trace amounts of  | 35 ppb             | 3.2 ppm | 728 ppm          | 1089 ppm | Cu:   |  |  |  |
|  |            |          |   |                    |         |                  |          |       |  |  |  |

|                                   |                                    | ROCK SAMPLE DESCRIPT   | TION RECO          | DRD      |                  |                  |                 |     |  |
|-----------------------------------|------------------------------------|--|--------------------|----------|------------------|------------------|-----------------|-----|--|
| Page: 3 Project: Rainbow Mountain |                                    |  | Locatior           | 1:92J3   | Operator: J.A.N. |                  |                 |     |  |
| Sample No.                        | Location                           | Description  | Analytical Results |          |                  |                  |                 |     |  |
|                                   |                                    |  | Au                 | Ъд       | Pb               | Zn               | Oth             | ner |  |
| 88CR012                           | Rainbow<br>Mountain<br>Trench #1   | .5m -1.0m chip: silicified shear<br>zone which contains trace -3%<br>cubic sphalerite in a grey<br>silicified quartz serecite schist<br>which contains quartz veins,<br>stringer 1-10mm wide | 105 ppb            | 8.8 ppm  | 1318 ppm         | 28 <b>38</b> ppm | Cu:<br>908 ppm  |     |  |
| 88CR014                           | Rainbow<br>Mountain<br>Trench #1   | grab: same as 88CR012 except<br>high grade chip sample   | 400 ppb            | 17.6 ppm | 4235 ppm         |                  | Cu:<br>1584 ppm |     |  |
| 88CR014A                          | Rainbow<br>Mountain<br>Trench #1   | 1.0m chip: same as 88CR012   | 75 ppb             | 9.5 ppm  | 2520 ppm         | 3536 ppm         | Cu:<br>519 ppm  |     |  |
| 88CR015                           | , Rainbow<br>Mountain<br>Trench #2 | 1.0m chip: orange brown weathering<br>silvery quartz sercite schist<br>very platy, no visible sulfides   | 400 ppb            | .5 ppm   | 30 ppm           | 24 ppm           | Cu:<br>10 ppm   |     |  |
| <b>.</b>                          |                                    |  |                    |          |                  |                  |                 |     |  |

, **,** 

|            |                                  | ROCK SAMPLE DESCRI         | PTION RECO | RD     |         |           | (*           |
|------------|----------------------------------|----------------------------|------------|--------|---------|-----------|--------------|
| Page: 4    |                                  | Project: Rainbow Mountain  | Location   | : 92J3 | <u></u> | Operator  | : J.A.N.     |
| Sample No. | Location                         | Description                |            | An     | alytica | l Results | ; ·          |
|            |                                  |                            | Au         | Ag     | Pb      | Zn        | Other        |
| 88CR016    | Rainbow<br>Mountain<br>Trench #2 | 1.0m chip: same as 88CR015 | 129 ppb    | .2 ppm | 4 ppm   | l ppm     | Cu:<br>5 ppm |
| 88CR017    | Rainbow<br>Mountain<br>Trench #2 | 1.0m chip: same as 88CR016 |            | .8 ppm | 13 ppm  | 2 ppm     | Cu:<br>3 ppm |
| 88CR018    | Rainbow<br>Mountain<br>Trench #2 | grab: same as 88CR017      |            | .6 ppm | 3 ppm   | l ppm     | Cu:<br>4 ppm |
|            |                                  |                            |            |        |         |           |              |
| 4 N.       | · ·                              |                            |            |        |         |           |              |
|            |                                  |                            |            |        |         |           |              |
| *          |                                  |                            |            |        |         |           |              |

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SAMPLE ASSAYS

NICHOLSON & ASSOCIATES PROJECT WHISTLER FILE # 88-4011 Page 2

| SAMPLE#   | Cu                                  | PD                   | Zn                        | Ag                           | Au*                          |
|---|-------------------------------------|----------------------|---------------------------|------------------------------|------------------------------|
|   | PPM                                 | PPM                  | PPM                       | P <b>PM</b>                  | PPB                          |
| 88 CR 001   | 54                                  | 393                  | 1160                      | .9                           | 11                           |
| 88 CR 005   | 63                                  | 16                   | 139                       | .3                           | 3                            |
| 88 CR 006   | 40                                  | 5                    | 26                        | .1                           | 1                            |
| 88 CR 008   | 47                                  | 42                   | 27                        | 1.4                          | 40                           |
| 88 CR 010   | 237                                 | 1214                 | 1112                      | 6.3                          | 64                           |
| 88 CR 011   | 91                                  | 728                  | 1089                      | 3.2                          | 35                           |
| 88 CR 012   | 908                                 | 1318                 | 2838                      | 8.8                          | 105                          |
| 88 CR 014   | 1584                                | 4235                 | 9448                      | 17.6                         | 400                          |
| 88 CR 014A  | 519                                 | 2520                 | 3536                      | 9.5                          | 75                           |
| 88 CR 014A  | 10                                  | 30                   | 24                        | .5                           | 400                          |
| 88 CR 016<br>88 CR 017<br>88 CR 018<br>88 LR 001<br>RAINBOW | 5<br>3<br>4<br>1 <u>9</u> 28<br>643 | 8<br>13<br>3<br>1842 | 4<br>2<br>1<br>38<br>4311 | .2<br>.8<br>.6<br>1.1<br>7.4 | 129<br>490<br>300<br>4<br>84 |
| STD C/AU-R  | 62                                  | 42                   | 132                       | 7.3                          | 495                          |

ACME-ANALYTICAL LABORATORIES LTD. DATE RECEIVED: AUG 29 1988 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED:  $\frac{5}{1.5.5}$ 

## GEOCHEMICAL ANALYSIS CERTIFICATE

| SAMPLE#   | Cu<br>PPM                          | Pb<br>PPM                    | Zn<br>PPM                          | Ag<br>PPM                   | Au*<br>PPB        |
|---|------------------------------------|------------------------------|------------------------------------|-----------------------------|-------------------|
| 88 CS 002<br>88 CS 003<br>88 CS 004<br>88 CS 009<br>88 CS 019 | 51<br>32<br>97<br>106<br><b>31</b> | 121<br>20<br>15<br>43<br>122 | 51<br>40<br>75<br>226<br><b>81</b> | .2<br>.2<br>.6<br>1.1<br>.8 | 3<br>1<br>2<br>28 |
| 88 CS 020   | 105                                | 134                          | 336                                | . 8                         | 350               |

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CLAIM RECORDS

|                         |              | Maria and a second s | itish (                               | RECORD OF N        | INER  | AL CLAIM -    | , Mines and Petroleum Re<br>MINERAL ACT  | sources                                 |
|-------------------------|--------------|---|---------------------------------------|--------------------|---|---------------|--|---|
| MAP NO. 92              |              | Received the second   |                                       | Dar Vanc           | FORM  | 1             | RECO   | RD NO                                   |
| DO NOT WE<br>THIS SHADE |              |   | P P                                   | 17-1-1             | -15   | 1. FANS       | VANCOUVER  | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.  |
|                         |              | - 1 - 0 - 11  |                                       | GOLD COMMISSIONER  |   |               |  | NG DIVISION                             |
|                         | 1            | IN A. M   | I.H.                                  | OUSON              |   | AGENT F       |  | NAME                                    |
| APPLICATION             | ACE          |   | W 4                                   | end ave            | -   |               | A  | DORESS                                  |
| TO RECORD               | VAN          | 1.011/1-R   | B                                     | C VET              | -15   | T4            | 2 10.7   |   |
| MINERAL                 | VALID S      | UBSISTING F.M.C. NO   | ). ÷1                                 | -116               | AL CODE                                       |               | CITY<br>VALID SUBSISTING F.M.C. NO.  | MAT POSTAL CODE                         |
| CLAIM                   | MINING       | 12 N  |                                       | 1/6 .              |   |               | MAP NO. 12 1/  | STEW                                    |
|                         |              |   |                                       | E.                 | 1.1,-   | 12            | MAP NO   |   |
|                         |              | HAT: I COMMENCED  |                                       | ING THE            |   | 17            | 21 DAI   | MINERAL CLAIM                           |
|                         | ON THE       | DAY OF  | ant                                   | . 19               | <u>C</u> A                                    | T             | NDICATE A.M. OR P.M.)  | ETED THE LOCATION                       |
|                         | ON THE       | DAY OF_   | NH                                    | 19                 | EE A  | T             | DICATE A.M. OR P.M.)   | OF                                      |
| (NUMBER)                | UNIT LENG    | GTHS  | AND                                   |                    | ENGT  | HS            | AND I HAVE IMPRESSED AL  | L THE REQUIRED INFORMATION              |
| ON METAL TA             | GS NO.       | 120178  | Wł                                    |                    | ECURE   |               | D TO THE POSTS AS REQUIRED   | UNDER THE REGULATIONS.                  |
|                         |              |   | 4                                     | 1                  |   |               | 7 357 42   |   |
| IDENTIFICATIO           | N POST(S)    | NOT PLACED WERE   |                                       | 1.                 | <u>,                                     </u> | ر بیتند ا     |  |   |
|                         |              |   |                                       |                    |   |               |  |   |
| CHECK "√" A             | PPLICABLE    |   | EGAL                                  | CORNER POST/†      | Пт  | HE WITNESS    | POST FOR THE LEGAL CORNER  | POST IS SITUATED:                       |
| IPRECISELY DESC         | RIBE POSITIO | N OF POST RELATIVE TO   | KNOWN                                 | TOPOGRAPHICAL OR S | URVEYE  | D FEATURES TH | AT RELATE TO FEATURES ON A MAP   | 1977                                    |
| 1.1.876                 | /            | 1 1 1   |                                       | 1.                 | <i>;</i> .                                    | 7             | the set of the set   | 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| /                       | 271          | <u></u>   | //                                    |                    | 5   |               |  |   |
| · · ·                   | 1.e<br>5     | V   |                                       |                    |   |               | 04   |   |
| T BEARING AN            | D DISTAN     | CE TO TRUE POSITIO  | ON OF                                 | LEGAL CORNER P     | OST FI  | ROM THE W     | TNESS POST   |   |
| BEARING AND             | DISTANCE     | FROM IDENTIFICAT  | ION PO                                | ST TO WITNESS P    | OST _   |               | 0  |   |
|                         |              |   |                                       |                    |   |               | TAINING TO THE STAKING OF  | 11 17,15 0,000                          |
| 111                     | 1            | MICH  | i . d                                 | 4                  | Ŀ.  | -<br>         | \$ / ô   | 11,1745 200.00                          |
| <u>4/101</u>            | <u> </u>     | <i>[4.10]</i> 1   | 111                                   | SIGNATURE          |   |               |  | OFFICE STAMP                            |
| NO. OF UNITS            | 20           |   |                                       |                    | -   |               |  |   |
| WORK<br>NUMBERS         | CAL IN .     | AND DATE RECORDED   | TYPE OF WORK                          | DATE OF<br>EXPIRY  | <u> </u>                                      | CREDIT        | (B/S'S, ASSIGNMENT   | FERS                                    |
|                         |              | State - Still   |                                       |                    | 12  |               |  |   |
|                         | 4            |   |                                       |                    |   |               |  |   |
|                         |              | and a straight  | 1                                     |                    |   |               |  |   |
| the second              | <u>.</u>     |   | С.                                    |                    |   |               | and the second |   |
|                         | ·            | المريقة بالمرجوع مستسع تجاريه مترجع   | ning and an<br>Anglangan<br>Anglangan |                    |   | - States      |  |   |
|                         |              | an a  |                                       |                    | I.vit   |               |  |   |
|                         |              |   | 44 - 44 F. C.                         |                    | 1.463   |               |  |   |

| MAP NO. 92<br>MINING RECEI | 2J/3B 6                                       | della della                                     | et son in                              | RECORD OF M  | INERA      | L CLAIM -  | , Mines and Petroleum<br>MINERAL ACT<br>BC THIS 27 | ECORD NO. 2303                    |
|----------------------------|---|---|--|--|------------|--|--|-----------------------------------|
| THIS SHADE                 |   |   | ļ                                      | GOLD COMMISSIONER  |            |  | VANCOUVE   | MINING DIVISION                   |
|                            |   |   |  |  |            | 1  | C  | AINING DIVISION                   |
|                            | <u>/</u> C                                    | TAN 14  | NAME                                   | TREEN  |            | AGENT F  | OR SELF  | NAME                              |
| APPLICATIO                 | V fee   | 1676  | DDRESS                                 | ind Me   |            | _  |  | ADDRESS                           |
| TO RECORD                  | VA  | NCOUVER   | B                                      | ( VCT  | -17        | 4  |  |                                   |
| MINERAL                    |   | UBSISTING F.M.C. N                              |  | 535 B  | L CODE     |  | CITY<br>VALID SUBSISTING F.M.C                     | POSTAL CODE                       |
| CLAIM                      |   |   |  |  |            | -  | MAP NO.  |                                   |
|                            |   |   |  |  | · · · · ·  |  | MAP NO   |                                   |
|                            | STATE T                                       | HAT: I COMMENCED                                | LOCAT                                  | TING THE   | 11         | -6   |  | MINERAL CLAIM                     |
| 1                          | ON THE  | DAY OF  | $p_{l\ell}$                            | 19_  | <u> </u>   | тС   | DICATE AM. OR P.M.) AND CO                         | MPLETED THE LOCATION              |
|                            | ON THE  | ICTH DAY OF                                     | INIA                                   | P1/ 19 2   | ΞÉ A       | T 12.  | DC PM  | TING OF                           |
| 4                          |   |   |  |  |            | (TIME - IN   | DICATE A.M. OR P.M.)                               |                                   |
| (                          |   |   | _AND                                   | (NUMBER)   | ENGTH      | IS   | AND I HAVE IMPRESSE                                | D ALL THE REQUIRED INFORMATION    |
| ON METAL TA                | GS NO   | 120171  | , wł                                   | HICH HAS BEEN SE   | ECURE      | LY FASTENE   | D TO THE POSTS AS REQUI                            | RED UNDER THE REGULATIONS.        |
|                            | N POSTIS                                      | NOT PLACED WERE                                 | 4N                                     | 10 AN /  | 4.         | vin -  | HALL ANTE  | SN & INTONTA                      |
|                            | -   |   |  |  |            |  | WITT NO IN A                                       |                                   |
|                            | · . 1.  |   |  | 1.4.01.4   |            |  |  |                                   |
| CHECK "√" A                | PPLICABLE                                     | SQUARE THE                                      | LEGAL                                  | CORNER POST/t  | 1 July     | HE WITNESS   | POST FOR THE LEGAL COP                             | INER POST IS SITUATED             |
| PRECISELY DESC             |   | N OF POST RELATIVE TO                           | KNOWN                                  | TOPOGRAPHICALOB'S  |            | FEATURES TH  | AT RELATE TO FEATURES ON A MA                      |                                   |
| - + :<br>                  | · · · · · · · · · · · · · · · · · · ·         |   | 17                                     | INTRA  | 1          | 6 6 6  | W franch and a                                     | P) / 2 / 2                        |
| - <u>/ / · · · ·</u>       | <u>/                                     </u> | e to add  |  | 19 18  | E          | - Mary   | (III)  |                                   |
|                            |   |   | •                                      |  |            |  |  |                                   |
| T BEARING A                | ND DISTAN                                     | CE TO TRUE POSITIO                              | ON OF I                                | LEGAL CORNER PO  | OST FF     | OM THE WI  | TNESS POST   |                                   |
|                            |   |   |  |  | OCT        |  | 0  | ÷                                 |
| I HAVE COMP                | LIED WITH                                     | ALL THE TERMS OF                                | THE MI                                 | NERAL ACT AND R  | EGULA      | TIONS PERT   | AINING TO THE STAKING OF                           |                                   |
| MINERAL/CLA                | IMS AND H                                     | AVE ATTACHED A PI                               | LAN, AC                                | CEPTABLE TO TH   | E GOL      | D COMMISS  | IONER OF THE LOCATION.                             | - 1212745 110.0                   |
| $\mathbb{N}/\mathbb{N}$    | 1-  | MATAN   | 1                                      |  |            | ×  |  |                                   |
|                            |   |   | 5                                      | SIGNATURE  |            |  |  | OFFICE STAMP                      |
| NO. OF UNITS               | 20  |   | 2 <sup>1</sup> .                       |  | 1.1        | 14   |  |                                   |
| WORK<br>NUMBERS            | C/L IN<br>S                                   | MINING RECEIPT                                  | TYPE OF<br>WORK                        | DATE OF  | -          |  |  | ANSFERS<br>AENTS, CONVEYANCES)    |
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| u                          |   | <u>en en e</u> |  | in the street of | NAR<br>XXX |  |  |                                   |
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