

22515

A

**PROSPECTING REPORT  
ON**

TRISH, LOU, DORIS AND

**THE DISCOVERY CLAIMS  
CORDERO PROJECT  
PHILLIPS ARM, B.C.**

VANCOUVER MINING DIVISION

LATITUDE 50°32'n LONGITUDE 125°24'W  
92K11w

FOR  
**RIPPLE ROCK RESOURCES LTD.**  
CAMPBELL RIVER, B.C.

owner/opr.

BY:  
JOE PAQUET

JUNE, 1993

JK

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## 1.0 INTRODUCTION

### 1.1 OBJECTIVES

*Cordero property*

The ~~Discovery Group~~ includes 2 past gold mines, numerous exploration adits and several exploration grids. There are many reports documenting these events. The time span is 1893 to the present.

The 1991-1992 work programme included identification of the old workings, rehab of adits and portals, rehab of old roads and a preparatory control survey. An extensive sampling programme to verify old reports was also undertaken.

In order to co-ordinate the new work and the old work (several old mines and their maps at different scales, logging development maps and marine charts), it was necessary to produce a control survey map. The control survey base map, with accompanying contours drawn by Eagle Mapping, was produced by Ripple Rock Resources Limited staff using Global Positioning Systems (G.P.S.) and Geographical Information System (G.I.S.).

The resulting map provides ground control for all new work and accurate locations of past work. The information is digitized and can be reproduced at whatever scale is required.

In summary the 1991-92 work programme ~~on the Discovery Group~~ included:

- 1)Prospecting
- 2)Physical Work
- 3)Preparatory Surveys

### 1.2 PROPERTY CLAIM STATUS

Described on form G of the Ministry of Energy, Mines and Resources, the property statistics are as follows:

	Record Number	No. Units	Record Date	Assessment Date
DISCOVERY				
1-C	314580	12	NOV. 9/92	NOV. 9/93
2	303962	12	SEPT. 6/91	SEPT. 6/92
3-C	314572	16	NOV. 9/92	NOV. 9/93
4	303964	16	SEPT. 6/91	SEPT. 6/92
5	303965	16	SEPT. 6/91	SEPT. 6/92

Including reverted Crown Grants:

<i>Alexandria</i>	225	<i>Emperor</i>	227	<i>Enid</i>	280
<i>Stella</i>	281	<i>Comox</i>	296	<i>Jennie B</i>	278
<i>Julie</i>	233	<i>Mary Rose</i>	1664	<i>Duchess</i>	231
<i>Gold Dust Fr</i>	1663	<i>Jubilee Fr</i>	230	<i>Premier Fr</i>	1667
<i>Duke</i>	229	<i>Waterloo Fr</i>	226	<i>Highland Laddie</i>	228
<i>Premier</i>	1665	<i>Empress</i>	279		

	Record Number	No. Units	Record Date	Assessment Date
LOU				
1	307018	15	JAN. 7/92	NOV. 4/94
2	307019	15	JAN. 7/92	NOV. 4/94
3	307020	15	JAN. 7/92	NOV. 4/94
4	307021	20	JAN. 7/92	NOV. 4/94
Doris	306381	20	NOV. 4/91	NOV. 4/94

..... *Trish #1-R# 306 462* .....

..... *Trish #2-R# 306 463* .....

..... *Trish #3-r# 307 017* .....

### 1.3 LOCATION AND ACCESS

~~The Discovery Group~~  
<sup>The property</sup> is located 55 km north of Campbell River in the Pembroke range of the Coast Mountains, in southwestern British Columbia. The claims lie within NTS 92 K 6 and K 11 and are centered at latitude 50 30'N, longitude 125 24'W. (Fig. 2) The property can be reached from Campbell River by way of boat, float plane or helicopter service.

Landing craft style barges and tugs operate between Campbell River and nearby logging camps on regular scheduled or chartered basis. The nearest settlements are Shoal Bay 5 Km to the southeast on East Thurlow Island and Fanny Bay, approximately 5 Km to the northwest. Blind Channel, located 12 km southwest, is the nearest post office.

The southern access route extends from Picton Point at the mouth of Phillips Arm to as far north as the Dorothea-Morton with various subsidiary roads. While road conditions are generally poor, they are accessible with 4 wheel drive vehicles or motorcycles. This road does not connect with the northern access route.

### 1.4 PHYSIOGRAPHY

The property covers ~~approximately 3500 hectares of~~ rugged terrain and is situated on the north-east slope of a steep mountain ridge which rises in a series of cliffs from tidewater to about the 3600 foot level. Away from the shoreline, while slopes are less demanding they are thickly overgrown with immature second growth. Slide alder and devil's club are in most creek beds.

Outcrops are abundant within the steeper stream cuts but gradually lessen with a decreased gradient.

#### CLIMATE:

The climate is typically west coast with high precipitation and heavy rain forest. Snow seldom falls at sea level and even at higher elevations winter snows are reported to seldom last later than the first week in April.

### 1.5 EXPLORATION HISTORY

Gold mineralization was first discovered on the property in 1893 with intermittent exploration since that time. The main workings on the claim block are on the Alexandria claim. Between 1896 and 1910 five adits were driven on the gold bearing veins exposed on the shoreline of Phillips Arm. In 1932, Premier Gold Mining Company optioned the Alexandria and extended the workings, driving the 100 and 200 levels beneath the No. 1 adit. Alex Mining optioned the property in 1939 and shipped 1876 tons grading 0.383 oz. Au/ton and 0.701 Ag/ton.

In the mid 1920's, the adit on the Enid claim and the shaft on the Julie claim were driven. No production is recorded. In the late 1970's and early 1980's, Corpac Minerals conducted geo-chemical sampling programmes on the present claim blocks. Other companies were active in the area in the late 1970's and early 1980's, but carried out only limited work on the property.

In 1983, Charlemagne Resources Ltd. optioned the 16 reverted crown grants from M.P. Warshowski and J.W. McLeod. Five additional claims were staked that year to increase the property to 114 units. Charlemagne's 1983 programme of underground mapping, sampling and diamond drilling sought extension to the known mineralization in the Alexandria workings. Northward extension were considered limited but, most significantly, extensions were found between the No. 1 and 100 level. Reserves on the Alexandria are estimated at 27,300 tons grading 0.291 oz Au/ton.

In 1985 Falconbridge Ltd. optioned the claims from Charlemagne Resources. Additional claims were staked to bring the property to its present size. Falconbridge personnel mapped the property at a scale of 1:10,000 with sections at 1:2500, carried out rock sampling, soil sampling and ground VLF-EM over selected areas, diamond drilled in the Alexandria workings and completed an airborne VLF-EM survey over the whole claim block. Despite encouraging results, the property reverted to Charlemagne Resources Ltd. in 1986.

## EXPLORATION

### **Historical Exploration Statistics 1980-1990**

The following amount of exploration and development work has been recorded on the various mining properties within the Cordero Project.

Underground Development (Adits, Shafts and Raises) .....	8,655 ft
Diamond drilling 68 holes totaling .....	18,090 ft
Samples collected and assayed .....	10,000 ft
Geophysical and Geo-chemical survey grid lines .....	226,221 ft
Road construction for mining purposes .....	10,561 ft

Estimates of total exploration expenditures from 1890 to present on the area covered by the Discovery Group are in excess of \$3.5 Million.

## **1.6 GEOLOGY**

### REGIONAL GEOLOGY

The regional geology of the property, is described in Geological Survey of Canada OF 480 (Roddick, 1977). Most of the area is underlain by Plutonic rocks, ranging from gabbro to quartz monzonite. Regionally, the area is dominated by granodiorite in a broad northwesterly elongate belt of 50 Km width, flanked by belts of mainly quartz diorite with lesser Granodiorite and diorite. The Phillips Arm property lies in such a flanking belt on the south side of the central granodiorite belt.

Steeply dipping metasedimentary and metavolcanic rocks of Paleozoic and or Triassic age of Lower Cretaceous age form long narrow belts or pendants that accentuate this northwesterly striking pattern. Bounding shear zones are visible in some areas, but synplutonic re crystallization has commonly reduced them to foliations or obliterate them entirely. In other areas, pendant boundaries are gradation over 1 km to 2 km.

The pendant shown extending northward from Fanny Bay (on the north side of the claim block) consists chiefly of Paleozoic and or Triassic quartz-biorite schist with some marble and skarn. Quartzite, chlorite and biotite schists with interbedded massive greenstones are locally abundant. Similar rocks are found on the property south of Fanny Bay.

### PROPERTY GEOLOGY

The property geology is described in Hicks (1986). During 1985 much of the property was mapped at 1:10,000 scale with the Champion-Commonwealth area being mapped at 1:2500 scale and the Alexandria adit at 1:2500 scale. The properties geology are taken from Hicks(1986).

## LITHOLOGIES

The property geology is dominated by a variety of granite to Granodiorite intrusive of Late Jurassic to Cretaceous age. Medium-grained biotite hornblende granodiorite makes up about 70% of the exposures. Gradational contacts are common between different intrusive units. In areas of strong and extreme shearing original compositions are difficult to determine.

Medium to dark green fine-grained andesite-dacite tuffs and possible flows approximate 20% of mapped lithologies. Exposures of this unit are found most abundantly near to and northwest of the Alexandria workings. Narrow ribbons or silvers of andesite-dacite parallel the regional northwest trend.

Dark to grey to black biotite-hornblende schist/gneiss and amphibolite generally occur close to intrusive-volcanic contacts. This proximity suggests that these units could be contact metamorphic equivalents of the andesite-dacite volcanics. Foliation within the schist parallels the general northwest trend of the intrusive contact as well as the foliation within the intrusive. Argillaceous sediments are found in a narrow band extending northwest from Bullveke Creek to the Doratha- Morton workings.

Disseminated pyrite up to 2% gives a rusty weathered appearance. Minor bull quartz veins (less than 5 cm) are possibly quartz segregations.

Three types of dykes are known on the property. Two different compositions of intermediate dykes are cut by later mafic dykes. Intermediate composition dykes tend to generally parallel larger quartz veins mafic dykes. Intermediate composition dykes tend to generally parallel larger quartz veins while mafic dykes crosscut them at an oblique angle. Mafic dykes have not undergone shearing and silicification as have other dykes indicating that they are of a later age.

## STRUCTURE

The property can be divided into two obvious zones of differing structural "grain". North of Bullveke Creek a strong northeast-southwest trend is evident in topographic lineaments, while south of Bullveke Creek the structural trends are subtle and not as easy to classify.

In the Champion-Commonwealth area, a zone with a strong degree of shearing is evident in rocks approximately 75 meters either side of the main creek drainage. Quartz veins run parallel to foliation in this zone.

The Alexandria Mine is characterized by a northwest trending sheared zone at least 30 M wide with a narrow discrete zones of silicification and quartz veins within the boundaries. The heavily silicified wall rocks of the No. 1 adit are characterized by a strong platy fabric in the quartz which resembles fabrics observed in the Commonwealth-Champion grid area and is thought to be related to shearing.

The structural North East- North West trend carry from Frederick Arm into Heydon Bay and Poison Creek some 25 Kilometers.

## ALTERATION

The most intense alteration observed on the property is in sheared zones that host the auriferous quartz veins.

The zones are characterized by a strong silicification and bleaching and retain little of their original fabric.

Sericitization is also common within sheared zones. Weak potassic alteration is related to fracturing and carbonate fracture filling, but the relationship of this to the auriferous event is unknown.

## 2.0 FIELD WORK 1992

### 2.1 PROSPECTING

8/30/1991 to 03/30/1992 - Discovery group of mineral claims.

Oct. 31, 1991

Commenced field trip to prospect shore area by the Alexandria mine to try and locate area of reported boulder carrying high gold values and try to find the Premier fault. We also made some repair to the gate at the Alexandria mine and tried to find the D.D. core from previous underground work.

Nov. 2, 1991

Samples

- 91-04 medasediment, light rusty
- 91-05 medasediment, light rusty
- 91-06 medasediment, light rusty

Nov. 3, 1991

Try to locate old barge carrying D.D. core from Alexandria, It was located in Bickley Bay, Phillips Arm. It has sunk and could be seen sticking out at low tide. 91-07 Float, Picton Point, Quartz, Pyrite, Chalcopyrite, Sphalerite

Nov. 4, 1991

Prospecting area of Alexandria Mine

- 91-08 Diorite, rusty Pyrite
- 91-09 Quartz-Diorite, Pyrite, Chalcopyrite
- 91-10 Very rusty Diorite, Pyrite, Sphalerite
- 91-11 Quartz or marble, Pyrite, Chalcopyrite
- 91-12 Quartz, 15-20% Pyrite

Nov. 5, 1991

Prospecting west of Alexandria Mine. Not much luck. Foiliated medasediment contact, Diorite, Granodiorite

Nov. 6, 1991

Samples

- 91-13 Medasediment and Diorite, Pyrite, Chalcopyrite
- 91-14 Medasediments- Quartz, Pyrite
- 91-15 Diorite, minor Pyrite
- 91-16 Quartz, minor Pyrite
- 91-17 Quartz, minor Pyrite
- 91-18 Float, Diorite, Pyrite
- 91-19 Float, Quartz, Chalcopyrite, Sphalerite
- 91-20 Float, Diorite, Chalcopyrite 91-21 Float, Diorite, , rusty, Pyrite
- 91-22 Float, Diorite, Pyrite, Chalcopyrite, Pyrite, Molybdenum sheen

Nov. 7, 1991

Having motor trouble. Returned to Cordero Lodge. Will charter plane and take out motor for repairs.

Nov. 13, 1991

Commenced trip to Cordero Lodge to do more prospecting on the Discovery mineral claims. Picked up



fuel for Lund at Blind Channel. Arrived at Lodge at 2 P.M. Cleaned up boat and reassembled motor.

Nov. 14, 1991

Prospecting Picton Point area and road going up hill to Doratha-Morton.

- 91-23 Rusty, Diorite, Pyrite
- 91-24 Siliceous Diorite, Pyrite, Chalcopyrite
- 91-25 Diorite, minor Pyrite

Nov. 18, 1991

Raining and storm. Will spend day doing mapping etc.

Mar 15, 1992

Prospecting area of Alexandria mine at 200 M, south siliceous zone.

- 92-33 Siliceous material, non-descriptive minor Pyrite
- 92-34 Siliceous material, minor Pyrite
- 92-35 Siliceous material, minor Pyrite
- 92-36 Float, siliceous metasediments, minor Pyrite
- 92-37 Rusty Diorite
- 92-38 Rusty Diorite, minor Pyrite
- 92-39 Rusty Diorite, minor Pyrite
- 92-40 Rusty Diorite, minor Pyrite

Mar 19, 1992

Prospecting Doratha-Morton area

- 92-53 Siliceous material, Pyrite
- 92-54 Siliceous , light rusty color
- 92-55 Rusty Diorite, Pyrite

Mar 20, 1992

Prospecting area of Alexandria mine trying to locate and sample #3 and #4 adits.

- 92-56 Quartz, well mineralized Pyrite and Chalcopyrite
- 92-57 Diorite minor Pyrite
- 92-58 Quartz, Chalcopyrite
- 92-60 Metasediments, minor Pyrite
- 92-61 Metasediments, minor Pyrite
- 92-62 Siliceous Diorite, minor Pyrite
- 92-63 Siliceous Diorite, Minor Pyrite
- 92-64 Quartz Pyrite, Chalcopyrite, Sphalerite.

Mar 21, 1992

Cleaned up equipment and headed back to Campbell River.

## 2.0 FIELD WORK 1992

### 2.1 PROSPECTING

#### **Nov. 26, 1991**

Commenced field trip to Cordero Lodge, living accommodation for working on our mineral claims. We had motor trouble and had to be towed back to Campbell River by the Coast Guard. We repaired the motor problem(water in the gov).

#### **Nov. 27, 1991**

Started to our mineral claims about 8A.M. About 20Km north of Campbell River the winds have picked up from 15km/hr to 50-60Km/hr. We have to find a shelter and wait out the storm. When the wind lightens we proceed on our journey and arrive at the lodge just before dark.

#### **Nov. 28, 1991**

Travelled to Loughbrough Inlet to try and access Lou #1 mineral claims from the road by George Creek. The road over to Lou #1 is too rough. It is overgrown by small trees, mostly alder. Our motor bikes have somewhat of an extensive workout to-day and need to have the chains adjusted. The main reason we choose to try from Loughbrough Inlet side to-day is the winds are still high.

#### **Nov. 29, 1991**

The weather is good today so we will work from Fanny Bay in Phillips Arm. We started from the docks at Fanny Bay. After unloading the motor bikes we started prospecting on Branch 6000 and took samples:

- 91-60 from 1.2 M Quartz vein which contained minor Pyrite and Chalcopryrite.
- 91-61 rusty weathered Diorite, minor minerals Pyrite and Chalcopryrite
- 91-62 Diorite with sheen of Molybdeum minor Chalcopryrite
- 91-63 Diorite with heavy sheen of Molybdeum and Chalcopryrite
- 91-64 Diorite with minor amounts of Molybdeum and Charcopryrite
- 91-65 Diorite, heavy sheen, Molybdeum
- 91-66 Diorite silicified with 5% Pyrite
- 91-67 Diorite, Chalcopryrite, rusty appearance - Pyrite 15% quantity

#### **Nov. 30, 1991**

Branch G 3300 91-68 From end of Br.G 3000, Quartz with Pyrite with 2% minor Chalcopryrite  
This area is not showing any good mineral outcrops

#### **Dec. 1, 1991**

Sample 91-69 is from start of Branch G-4000 Sample has Chalco-pyrite minor molybdenum in Silicious Diorite. Samples:

- 91-69 From start of Br.G-4000-Sample has Pyrite, Chalcopryrite with Minor Molybdeum in Silicious Diorite
- 91-70 Well mineralized Quartz Pyrite and Chalcopryrite
- 91-71 Diorite with minor amounts of Pyrite
- 91-72 Diorite, Chalcopryrite Molybdeum
- 91-73 Diorite, Pyrite, Chalcopryrite with minor Molybdeum
- 91-74 Quartz with yellow Pyrite - 2%
- 91-75 Quartz with some Pyrite, Chalcopryrite, Pyrrhotite Total mineral 20%
- 91-76 Silicious Diorite 10-15% Pyrite

**Dec. 2, 1991**

Worked Br. F 3000, Br. F 3200, Br. F 3100, Br. F 2000 Very difficult day. Snowing, lots of loose overburden and bad roads. xing whatsoever.

**Dec. 3, 1991**

Too much snow. Will return to Lodge. It took 6 hours to cover approximately 10 miles on the bikes. We did Br. G 3100 and Br. G 3200. No samples. The rock is mostly Granodiorite.

**Dec. 4, 1991**

Samples:

- 91-77 Diorite, rusty, 20% Pyrite
- 91-78 Quartz Pyrite, Chalcopyrite, Pyrrhotite
- 91-79 Silicious Diorite, Pyrite and Chalcopyrite
- 91-80 Silicious Diorite, Pyrite 10%
- 91-81 Silicious Diorite, Pyrite and Chalcopyrite
- 91-82 Diorite, Chalcopyrite. Pyrite

**Dec. 5, 1991**

Prospecting Br. G 2105, Br. G 2000 south branch of Gray Creek. Too much ice in creek. Slippery and dangerous. Prospect Br. G 2500

**Dec. 6, 1991**

Clean up equipment and go home. Raining light snow. Arrive CR at 2:45 P.M. Good trip

J. Paquet

See Fig. 5

## 2.0 FIELD WORK 1992

### 2.1 PROSPECTING

The objective of the prospecting in this area is to try and determine if it has any positive potential, as the area is difficult to access from other areas of our claim. Based on these factors. It was decided to work from the Fanny Bay side using motor bikes.

As it was early in the year and the weather was quite cold, it was also decided to stay at nearby Cordero Lodge, as a boat ride to Fanny Bay takes approximately 25 minutes.

Sampling on Branch G 8000 we were attracted to a light rusty area with good exposure of Granodiorite along the road (see samples 92-29 through 92-34 grab select). At the upper levels of the same branch, we located a Lithology Breccia that is Quartz Molybdenum Pyrite healed. We hip chained from the start of the Commencing Breccia some 17000M to the upper end. In places the Vertical Exposure exceeds 10M and some on the spot estimates led us to believe that this Breccia may well exceed 100 million tons.

It has been cold for several days now, some 10-15 centimeters of snow has been falling over the past few days and it is making prospecting somewhat of a challenge. Ice has accumulated on the road, and the motor bikes tend not to be of much use in the combination of snow and ice.

However, we did manage to get five (5) samples from cliff-like exposures along the road. Samples 92-35 through 92-39 are from the upper end of Breccia on the road G 10,000. We returned to Fanny Bay and back to Cordero Lodge for an overnight stay.

**21/02/92**

We have returned to the Trish Claims and attempted to determine the full extent of the Breccia zone. The snow has gone somewhat and we will attempt to go to the Branch G 8500 to prospect. Too much snow so we will return to Breccia area to try and learn more. We collected four (4) more samples 92-40 through 92-48. It has started raining and snowing. We have returned to "camp" Cordero (Lodge) to stay another night.

**22/02/92**

It is very windy and rainy weather, too windy for our 16 foot Lund boat to travel safely. We will spend the day cleaning out bikes, boat and equipment, checking maps and related work.

**23/02/92**

We have taken sample 92-49 from the short spur by L.C.P. Trish #1. Small 5 cm Quartz vein strike 355° dips 80° west. Sample 92-50 is from 100M west of L.C.P. Trish #1 mineral claim and is a float sample containing sheen of Molybdenum and Calco Pyrite.

Two day layover due to storm.

**26/02/92**

Field trip to prospect area of Branch G 5700 and all areas in between it and Branch 5600. This area is difficult to get around in due to loose granular, poorly cemented Granodiorite, very steep terrain and slight snowfall. We took only one sample (#92-59) and covered most parts of Trish #2 and #3 mineral claims. We will wait for assay results before doing more prospecting in this area, and also plan for more appropriate weather. See Fig. 5

## 2.2 SITE AND ACCESS MAINTENANCE

The 1991-92 exploration season required that roads be up-graded to allow for truck access to the Doratha-Morton camp site. The road was last used by loggers in 1990 and was suffering from severe water damage, windfall and slides. The Doratha-Morton camp is located about 7 Km northwest of Picton Point at an elevation of 750M. The camp had not been used since 1990 and many of the buildings had collapsed under the weight of snow. The camp was rehabilitated and a shower and dry room constructed. The site was cleared of garbage and generally tidied up. Drilling crews from the 1990 work season had abandoned their lower camp. This too had collapsed. The site was littered with fuel drums, used parts, old tires etc. This site was also cleaned up. On June 1, 1992, a crew and equipment (back-hoe, 3/4 ton 4x4, utility trailer, tools and camp supplies) arrived at Picton Point and the work described above was commenced. In addition the crews opened the portals of many of the adits. These portals were damaged by previous logging operations on the Doratha-Morton. Most of this work was done with the back-hoe but hand work was required where there was no machine access. The old core rack was rebuilt and the core re-organized. At the Alexandria Mine, which is part of the Discovery Group, the portal lies at sea level. Vandals destroyed the steel gate. The adit gate was rebuilt and locked.

## 2.3 CONTROL SURVEY

The Cordero project at Phillips Arm which includes the Trish, Lou and Discovery Groups, covers approximately four thousand hectares. Elevations are sea level to 1200 M. Mining and exploration started in the 1890's and continue to this day. Logging development is super imposed on mining works. This information is mapped at differing scales in different measurements from chains to feet to meters. We needed a control survey. Several conventional methods were tried including:

- a) Changing scales and matching map sheets.
- b) Aerial photos (distortion was a problem).
- c) Conventional photos from helicopters and airplanes.
- d) Splicing marine charts and land based maps.
- e) Even on the ground ties were not successful.

Finally we tried GPS-GIS using satellites for reference. Specific sites were identified on the ground. (Portals, corner posts, grid base lines, key road junctions, selected geographical sites). These were surveyed using GPS. Now we had accurate tie points. This allowed integration of existing information onto a single digitized format combining all the existing maps in their various scales and locations. The map produced is enclosed (Fig. 6)

The GPS (Global Positioning System) differential survey programme used by Ripple Rock Resources for its control survey consists of a multi-stage process to map specific boundaries, sampling points, test sites and geological features in a fast, cost efficient manner.

The basic GPS system for differential survey work consists of a base station, field units and computer hardware and software to manipulate the field data with corrective information supplied by the base station in order to exactly identify points on the surface of the earth to an accuracy of +/- 1 Meter. The procedure involves three distinct steps:

1. Mission planning: using satellite path prediction software and current almanacs of orbital data, the survey mission is carefully planned to ensure that the field personnel arrive on the site at a time when a suitable number of satellites are visible to the field receiver. This planning must also include anticipation of geologic obstructions (mountains, etc.) and allowance for canopy interference.
2. Field Data collection: based on the mission planning results, field readings are taken and recorded, either traversing a boundary or following a pattern of specific site visitation (sampling, etc.) or wherever locators are re acquired. Field data is in the form of a series of locations, in Lat/Long or UTM format, together with the precise time code for the reading.

3. The field data is brought to the office for the application of corrective conversion. This is required due to variances in the field data due to atmospheric interference, surface reflection anomalies and the error introduced by the US. Military's use of SA. (Selective Availability, which is used to confuse unauthorized weapons systems). By calculating the offset at a precise point in time and using this offset to correct a field reading taken at exactly the same time, high accuracy of field location can be achieved. the resulting series of location points can then be applied to existing digital maps in the form of a boundary line, site locator, etc.

This technology, although new, has been used to confirm the geodetic survey markers for Canada, to survey the base plane for the 159 Km "Gig Collider" Nuclear research facility in Texas and is now being used extensively in forestry management in central B.C.

### GEOGRAPHIC INFORMATION SYSTEM SURVEYING (GIS)

The digital mapping systems selected by Ripple Rock Resources for use in its field survey, site planning and operations management is "QuikMap" software from Axy's Software in Sidney, B.C.: also chosen by the B.C. Government for use in their \$300 Million T.R.I.M. Mapping programme.

The main facilities provided by a GIS in mineral development are:

1. Accurate, current and revisable maps including topographical data, boundaries, sampling test results, operations status, projected reserves and many other features of interest.
2. The ability to include or exclude specific types or categories of information from a particular map, as required, and to plot maps quickly and cheaply for each specific requirements.
3. The ability to correlate factual data with graphical data (sample results tied to the sample location ON THE MAP), and to analyze the factual data in terms of its geographic occurrence - a function not before possible without a huge investment of man-hours.
4. The ability to produce accurate, comprehensive maps in support of permit applications and other business pursuits of the company.

### 3.0 STATEMENT OF COSTS FOR 1992 FIELD SEASON

DISCOVERY

#### **3.1 PROSPECTING**

##### **EMPLOYEES:**

Prospector - Joe Paquet	
13 days @ \$200.00/day	\$2,600.00
31/10/91 ,02/11/91 through 07/11/91	
13,14,16/11/91,19,20,21/03/92	
Prospector's helper - Claude Paquet	
13 days @ \$100.00/day	\$1,300.00
31/10/91, 02/11/91 through 07/11/91	
13,14,16/11/91, 19,20,21/03/92	

##### **LODGING:**

Cordero Lodge:	
12 days @ \$117.70/day	\$1,412.40
02/11/91 through 07/11/91 13,14/11/91,	
19,20,21/03/92	

##### **RENTALS:**

24 foot Surfer Cabin Cruiser	
Rented 13 days @ \$350.00/day, Dates A/A	\$4,550.00
Lund Beach Boat	
13 days Dates A/A rented @ \$175.00/day (boat & motor)	\$2,275.00
2 x Motor Bikes	
13 days Dates A/A rented @ \$100/day each(\$200.00/day)	\$2,600.00

##### **ASSAYS**

34 assays @ \$20.60/sample	\$ 700.40
TOTAL PROSPECTING -	\$15,437.80

#### **3.2 PHYSICAL WORK**

##### **EXPENSE STATEMENT -**

##### **EMPLOYEES:**

Worker & Supervisor - Joe Paquet	
23 days @ \$200/day	\$4,600.00
21/04/92 - 24/04/92 31/05/92 - 11/06/92	
13/08/92 - 18/08/92	
Worker: Claude Paquet	
10 days at \$150/day	\$1,500.00
13 days at \$100/day	\$1,300.00
21/04/92 - 24/04/92 31/05/92 - 11/06/92	
13/08/92 - 18/08/92	
Back hoe: operator Larry Taylor	
6 days at \$212.50	\$1,275.00
04/06/92	

##### **TRANSPORTATION:**

CoVal Air Ltd. 04/06/92	\$ 74.90
Vancouver Island Air 09/06/92	\$ 224.70
24 Ft. Cabin Cruiser Surfer 6 days at \$350/day	\$2,100.00
21/04/92 - 24/04/92 31/05/92 - 11/06/92	
13/08/92 - 18/08/92	

##### **SUPPLIES & MISC.:**

Supplies Misc.	\$3,611.89
Fuel	\$ 904.50
Food	\$ 600.30

TOTAL PHYSICAL EXPENSES	\$ 16,191.29
-------------------------	--------------

### 3.3 PREPARATORY SURVEY

#### WAGES AND SALARIES

Digitizer Operator	\$ 8144.37
Cartographer & Programmer	\$29169.30
Fieldman	<u>\$4800.00</u>
total wages	42113.67

#### TRANSPORTATION:

Helicopter	\$2300.00
Freight	<u>\$ 300.00</u>
total transport	\$2600.00

#### CONSULTANTS:

Hanson Kenyon & Quarmby	\$ 938.93
Eagle Mapping	<u>\$1200.00</u>
total consultants	\$2138.93

#### OFFICE & SUPPLIES

	<u>\$1400.00</u>
total office & supplies	\$1400.00

**total preparatory survey costs** **\$48,252.60**

\$48,252.60 is the sum spent to control map the 3 groups (Trish, Discovery, & Lou).

There are 211 units involved. The cost per unit is 48,252.60 /. 211 units = \$228.69. Total cost to the Discovery Group is \$228.69 x 72 units = \$16,465.68

The total expenditures for the Discovery Group of claims in the 1991 - 1992 season are:

Prospecting	\$15,437.80
Physical Work	\$16,191.29
Preparatory Survey	<u>\$16,465.68</u>
<b>TOTAL</b>	<b>\$48,094.77</b>



### 3.0 STATEMENT OF COSTS FOR 1992 FIELD SEASON

L O U

#### 3.1 PROSPECTING

##### EMPLOYEES:

Prospector - Joe Paquet 10 days @ \$200.00/day 26/11/91 through 06/12/91	\$2,000.00
Prospector's helper - Claude Paquet 10 days @ \$100.00/day 26/11/91 through 06/12/91	\$1,000.00

##### LODGING:

Cordero Lodge: 7 days @ \$117.70/day 26/11/91 through 06/12/91	\$ 981.60
--	-----------

##### RENTALS:

24 foot Surfer Cabin Cruiser Rented 10 days @ \$350.00/day, Dates A/A	\$3,500.00
Lund Beach Boat 10 days Dates A/A rented @ \$175.00/day (boat & motor)	\$1,750.00
2 x Motor Bikes 10 days Dates A/A rented @ \$100/day each(\$200.00/day)	\$2,000.00

##### ASSAYS

21 assays @ \$20.60/sample	<u>\$ 432.60</u>
TOTAL PROSPECTING -	\$11,663.60

#### 3.2 PREPARATORY SURVEY

##### WAGES AND SALARIES

Digitize Operator	\$ 8144.37
Cartographer & Programmer	\$29169.30
Fieldman	<u>\$4800.00</u>
total wages	42113.67

##### TRANSPORTATION:

Helicopter	\$2300.00
Freight	<u>\$ 300.00</u>
total transport	\$2600.00

##### CONSULTANTS:

Hanson Kenyon & Quarmby	\$ 938.93
Eagle Mapping	<u>\$1200.00</u>
total consultants	\$2138.93

##### OFFICE & SUPPLIES

	<u>\$1400.00</u>
total office & supplies	\$1400.00

total preparatory survey costs \$48,252.60

\$48,252.60 is the sum spent to control map the 3 groups (Trish, Discovery, & Lou).  
There are 211 units involved. The cost per unit is 48,252.60 /. 211 units = \$228.69. Total cost to the Lou Group is \$228.69 x 85 units = \$14,438.65

The total expenditures in 1991 - 1992 for the Lou Group of claims are:

Prospecting	\$ 11,663.60
Control Survey	<u>\$14,438.65</u>
TOTAL	\$26,102.25

### 3.0 STATEMENT OF COSTS FOR 1992 FIELD SEASON

TRISH

#### 3.1 PROSPECTING

##### EMPLOYEES:

Prospector - Joe Paquet 7 days @ \$200.00/day 20/02/92 through 27/02/92	\$1,400.00
Prospector's helper - Claude Paquet 7 days @ \$100.00/day 20/02/92 through 27/02/92	\$ 700.00

##### LODGING:

Cordero Lodge: 6 days @ \$117.70/day 20/02/92 through 27/02/92	\$ 706.20
--	-----------

##### RENTALS:

24 foot Surfer Cabin Cruiser Rented 7 days @ \$350.00/day 20/02/92 through 27/02/92	\$2,450.00
Lund Beach Boat 7 days rented @ \$175.00/day (boat & motor) 20/02/92 through 27/02/92	\$1,050.00
2 x Motor Bikes 7 days rented @ \$100/day each (\$200.00/day) 20/02/92	\$1,400.00

##### ASSAYS:

21 assays assays @ \$20.60/sample	<u>\$432.60</u>
<b>TOTAL EXPENSES</b>	<b>\$8,138.80</b>

#### 3.2 PREPARATORY SURVEY

##### WAGES AND SALARIES

Digitizer Operator	\$ 8144.37
Cartographer & Programmer	\$29169.30
Fieldman	<u>\$4800.00</u>
total wages	42113.67

##### TRANSPORTATION:

Helicopter	\$2300.00
Freight	<u>\$ 300.00</u>
total transport	\$2600.00

##### CONSULTANTS:

Hanson Kenyon & Quarmby	\$ 938.93
Eagle Mapping	<u>\$1200.00</u>
total consultants	\$2138.93

##### OFFICE & SUPPLIES

	<u>\$1400.00</u>
total office & supplies	\$1400.00

<b>total preparatory survey costs</b>	<b><u>\$48,252.60</u></b>
---------------------------------------	---------------------------

\$48,252.60 is the sum spent to control map the 3 groups (Trish, Discovery, & Lou).

There are 211 units involved. The cost per unit is 48,252.60 /. 211 units = \$228.69. Total cost to Trish Group is \$228.69x 54 units = \$12,349.26

The resulting total 1991-1992 expenditures for the Trish Group of claims are:

Prospecting	\$8,138.80
Control Survey	<u>\$12,349.26</u>
<b>TOTAL</b>	<b>\$20,488.06</b>

## 4.0 REFERENCE

### **BIBLIOGRAPHY**

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Province of  
British Columbia

Ministry of  
Energy, Mines and  
Petroleum Resources

ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
<i>Prospecting &amp; Physical Control Mapping</i>	

AUTHOR(S) *Joseph L. Paquet* ..... SIGNATURE(S) *Joseph L. Paquet* .....

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED *17th. Sept. 1992* ..... YEAR OF WORK *.91-92*

PROPERTY NAME(S) *Discovery Group, Trish and Lou* .....

**5.0 STATEMENT OF QUALIFICATIONS**

Joseph (Joe) L. Paquet, Vice President  
Ripple Rock Resources

Born at Souris, East Prince Edward Island. After leaving school, entered the Canadian Army Air-Borne Medical Corp. where he served for three years. Introduction to the mining industry was through the International Nickel Creighton Mine in Sudbury, Ontario. In 1970, moved to Port Alice, B.C. Began prospecting and pursued this activity part time for the next 12 years. Has worked full time as a professional prospector for the last 9 years. Trained under Richard Walker- Geologist for Westmin, R.L. Wright- Geologist consultant, E. Page- Geologist, Gord Allen- Geologist and John Payne, Geologist. Owned and operated Harmony Prospecting Services for the past 7 years doing contract work.

**APPENDIX A**

**ASSAY CERTIFICATES**



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: RIPPLE ROCK RESOURCES LTD.

P.O. BOX 916  
 CAMPBELL RIVER, BC  
 V9W 6Y4

1991

Page Number : 1-A  
 Total Pages : 2  
 Certificate Date: 05-DEC-91  
 Invoice No. : 19125367  
 P.O. Number :  
 Account : JLP

Project :  
 Comments: ATTN: JOE PAQUET

## CERTIFICATE OF ANALYSIS A9125367

SAMPLE	PREP CODE	Au ppb FA+AAg/tonne	Au FA ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
04-B	205 294	< 5	-----	< 0.2	0.07	< 5	10	< 0.5	< 2	0.55	< 0.5	8	133	38	1.48	< 10	< 1	0.19	< 10	0.10
05-B	205 294	175	-----	1.0	3.92	< 5	60	< 0.5	< 2	2.36	< 0.5	90	42	749	7.67	< 10	< 1	0.47	< 10	1.69
06-B	205 294	< 5	-----	< 0.2	1.81	5	130	< 0.5	< 2	0.66	< 0.5	24	144	452	4.85	10	< 1	0.76	< 10	0.99
07-B	205 294	< 5	-----	< 0.2	2.75	< 5	30	< 0.5	< 2	1.43	< 0.5	10	124	66	37.56	10	< 1	0.08	10	1.30
08-B	205 294	< 5	-----	< 0.2	2.49	30	30	< 0.5	< 2	1.45	< 0.5	23	74	129	3.63	10	< 1	0.06	< 10	1.23
09-B	205 294	30	-----	< 0.2	2.26	5	90	< 0.5	< 2	0.99	< 0.5	15	95	44	3.85	10	< 1	0.35	< 10	1.01
10-B	205 294	< 5	-----	< 0.2	2.74	< 5	40	< 0.5	< 2	1.29	< 0.5	7	101	12	3.79	10	< 1	0.10	< 10	1.19
11-B	205 294	< 5	-----	< 0.2	3.00	5	20	< 0.5	< 2	2.45	< 0.5	27	106	248	4.18	10	< 1	0.04	< 10	1.44
12-B	205 294	25	-----	0.6	0.79	30	20	< 0.5	< 2	7.82	< 0.5	100	125	776	12.35	< 10	< 1	0.01	10	0.51
13-B	205 294	< 5	-----	< 0.2	1.61	< 5	60	< 0.5	< 2	0.80	< 0.5	8	83	107	3.24	< 10	< 1	0.16	10	1.04
14-B	205 294	< 5	-----	< 0.2	1.60	< 5	50	< 0.5	< 2	1.07	< 0.5	11	134	120	3.49	< 10	< 1	0.12	10	1.05
15-B	205 294	< 5	-----	< 0.2	1.73	5	20	< 0.5	< 2	0.76	< 0.5	37	92	142	4.62	< 10	< 1	0.04	< 10	1.03
16-B	205 294	< 5	-----	< 0.2	0.62	10	100	< 0.5	< 2	0.10	< 0.5	1	166	2	0.58	< 10	< 1	0.32	< 10	0.06
17-B	205 294	< 5	-----	< 0.2	0.54	5	50	< 0.5	< 2	0.13	< 0.5	3	105	2	0.69	< 10	< 1	0.23	< 10	0.08
18-B	205 294	60	-----	1.4	0.39	< 5	10	< 0.5	< 2	0.67	< 0.5	57	171	5	4.29	< 10	< 1	0.03	< 10	0.17
19-B	205 294	>10000	14.9	0.6	0.16	< 5	10	< 0.5	92	0.07	59.0	5	245	3330	2.36	< 10	< 1	< 0.01	< 10	0.09
20-B	205 294	45	-----	0.6	0.76	10	60	< 0.5	< 2	0.16	< 0.5	81	266	973	3.60	< 10	< 1	0.16	< 10	0.45
21-B	205 294	15	-----	< 0.2	2.00	20	30	< 0.5	< 2	1.27	< 0.5	25	52	145	3.11	< 10	< 1	0.10	< 10	1.10
22-B	205 294	35	-----	< 0.2	1.12	< 5	40	< 0.5	< 2	0.93	< 0.5	72	147	18	9.78	10	< 1	0.47	< 10	1.23
23-B	205 294	< 5	-----	< 0.2	2.22	5	10	< 0.5	< 2	1.09	< 0.5	25	92	41	3.95	10	< 1	0.07	< 10	1.87
24-B	205 294	< 5	-----	< 0.2	1.54	5	10	< 0.5	< 2	3.94	< 0.5	24	117	105	3.44	< 10	< 1	0.12	< 10	1.05
25-B	205 294	< 5	-----	< 0.2	0.07	< 5	< 10	< 0.5	< 2	0.11	< 0.5	6	295	27	0.91	< 10	< 1	< 0.01	< 10	0.07

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ASSAYS



CERTIFICATION: *Yhai D Ma*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: RIPPLE ROCK RESOURCES LTD.

P.O. BOX 916  
CAMPBELL RIVER, BC  
V9W 6Y4

Project :  
Comments: ATTN: JOE PAQUET

Page Number :1-B  
Total Pages :2  
Certificate Date:05-DEC-91  
Invoice No. :19125367  
P.O. Number :  
Account :JLP

## CERTIFICATE OF ANALYSIS A9125367

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
04-B	205 294	300	7	0.11	38	390	6	< 5	2	14	0.09	< 10	< 10	32	< 10	16
05-B	205 294	625	4	0.46	15	300	< 2	< 5	7	170	0.35	< 10	< 10	251	< 10	84
06-B	205 294	410	12	0.20	12	640	8	< 5	6	35	0.19	< 10	< 10	84	< 10	60
07-B	205 294	680	< 1	0.18	7	610	< 2	< 5	7	85	0.25	< 10	< 10	79	< 10	94
08-B	205 294	470	2	0.21	7	960	< 2	< 5	8	89	0.27	< 10	< 10	76	< 10	44
09-B	205 294	320	2	0.22	6	730	6	< 5	4	79	0.16	< 10	< 10	52	< 10	38
10-B	205 294	270	< 1	0.37	3	1300	< 2	< 5	3	122	0.11	< 10	< 10	54	< 10	28
11-B	205 294	355	1	0.11	56	650	< 2	< 5	5	58	0.27	< 10	< 10	93	< 10	40
12-B	205 294	1050	3	< 0.01	45	350	< 2	5	1	66	0.01	< 10	< 10	19	< 10	102
13-B	205 294	550	1	0.12	5	600	< 2	< 5	4	108	0.20	< 10	< 10	71	< 10	86
14-B	205 294	475	7	0.10	7	550	< 2	< 5	6	30	0.17	< 10	< 10	68	< 10	58
15-B	205 294	360	7	0.12	7	550	< 2	< 5	4	57	0.19	< 10	< 10	59	< 10	42
16-B	205 294	155	< 1	0.10	3	150	2	< 5	< 1	13	< 0.01	< 10	< 10	3	< 10	26
17-B	205 294	90	1	0.11	3	210	4	< 5	< 1	16	< 0.01	< 10	< 10	2	< 10	14
18-B	205 294	490	3	0.09	9	730	4	< 5	< 1	13	< 0.01	< 10	< 10	6	< 10	16
19-B	205 294	50	216	0.01	7	40	1150	< 5	< 1	10	0.01	< 10	< 10	5	< 10	4910
20-B	205 294	165	503	0.06	6	200	8	< 5	2	27	0.10	< 10	< 10	33	< 10	30
21-B	205 294	240	2	0.07	13	560	2	< 5	3	64	0.25	< 10	< 10	63	< 10	38
22-B	205 294	215	859	0.09	31	1100	2	5	6	26	0.44	< 10	< 10	112	< 10	54
23-B	205 294	365	4	0.11	35	1000	2	< 5	5	29	0.30	< 10	< 10	102	< 10	76
24-B	205 294	200	2	0.11	52	640	10	< 5	4	116	0.17	< 10	< 10	54	< 10	26
25-B	205 294	25	1	0.01	20	40	< 2	< 5	< 1	5	< 0.01	< 10	< 10	2	< 10	6

1991  
ASSAYS

CERTIFICATION:

*Phai D Ma*



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To: RIPPLE ROCK RESOURCES LTD.

P.O. BOX 916  
CAMPBELL RIVER, BC  
V9W 6Y4

Project :  
Comments: ATTN: JOE PAQUET

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 10-APR-92  
Invoice No. : 19213043  
P.O. Number :  
Account : JLP

## CERTIFICATE OF ANALYSIS A9213043

SAMPLE	PREP CODE	Au ppb FA+AAg/tonne	Au FA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
JLP-92-53	205 274	< 5	----	0.4	0.34	6	< 10	< 0.5	< 2	0.03	< 0.5	12	122	123	1.64	< 10	< 1	0.02	20	0.03
JLP-92-54	205 274	< 5	----	< 0.2	0.18	< 2	< 10	< 0.5	< 2	0.01	< 0.5	1	78	14	0.31	< 10	< 1	0.04	< 10	0.02
JLP-92-55	205 274	< 5	----	0.2	1.04	4	10	< 0.5	< 2	0.30	< 0.5	6	116	771	2.44	< 10	< 1	0.05	< 10	0.55
JLP-92-56	205 274	>10000	45.5	41.0	0.17	< 2	10	< 0.5	< 2	0.01	< 0.5	20	72	14	11.45	< 10	< 1	0.02	< 10	0.01
JLP-92-57	205 274	95	-----	1.2	1.25	< 2	30	< 0.5	< 2	0.43	< 0.5	21	63	90	2.74	< 10	< 1	0.65	< 10	0.94
JLP-92-58	205 274	2250	2.3	2.6	1.07	< 2	50	< 0.5	2	0.55	< 0.5	7	110	16	2.18	< 10	< 1	0.20	< 10	0.23
JLP-92-59	205 274	20	-----	0.6	0.93	< 2	80	< 0.5	< 2	0.71	< 0.5	8	80	90	2.03	< 10	< 1	0.37	< 10	0.51
JLP-92-60	205 274	15	-----	0.2	0.42	2	70	< 0.5	< 2	0.16	< 0.5	2	153	21	0.70	< 10	< 1	0.17	< 10	0.11
JLP-92-61	205 274	< 5	-----	1.4	1.30	< 2	130	< 0.5	< 2	0.31	< 0.5	8	66	68	2.61	< 10	< 1	0.80	10	0.76
JLP-92-62	205 274	6090	6.0	11.0	0.97	4	100	< 0.5	4	0.49	3.5	8	217	332	1.77	< 10	< 1	0.30	< 10	0.45
JLP-92-63	205 274	25	-----	< 0.2	0.28	< 2	30	< 0.5	< 2	0.05	< 0.5	1	131	5	1.21	< 10	< 1	0.09	< 10	0.06
JLP-92-64	205 274	>10000	329.3	>200	0.33	8	10	< 0.5	334	0.03	85.5	8	242	1800	10.10	< 10	< 1	0.04	< 10	0.08

CERTIFICATION: *Phai D'Ma*





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: RIPPLE ROCK RESOURCES LTD.

P.O. BOX 916  
 CAMPBELL RIVER, BC  
 V9W 6Y4

Page Number :1-B  
 Total Pages :1  
 Certificate Date: 10-APR-92  
 Invoice No. :19213043  
 P.O. Number :  
 Account :JLP

Project :  
 Comments: ATTN: JOE PAQUET

## CERTIFICATE OF ANALYSIS A9213043

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JLP-92-53	205 274	90	< 1	0.04	2	20	2	< 2	1	3	0.01	< 10	< 10	9	< 10	12
JLP-92-54	205 274	75	< 1	0.04	2	< 10	< 2	< 2	< 1	1	< 0.01	< 10	< 10	1	< 10	2
JLP-92-55	205 274	320	33	0.08	2	440	< 2	2	1	41	0.02	< 10	< 10	18	< 10	32
JLP-92-56	205 274	15	7	< 0.01	16	< 10	2	4	< 1	2	< 0.01	< 10	< 10	< 1	< 10	8
JLP-92-57	205 274	325	2	0.04	20	860	6	2	1	16	0.08	< 10	< 10	41	< 10	46
JLP-92-58	205 274	315	5	0.15	4	170	< 2	< 2	< 1	33	0.02	< 10	< 10	6	< 10	14
JLP-92-59	205 274	300	2	0.11	7	640	2	2	3	57	0.12	< 10	< 10	43	< 10	26
JLP-92-60	205 274	115	1	0.12	4	60	2	< 2	< 1	14	0.03	< 10	< 10	7	< 10	8
JLP-92-61	205 274	390	< 1	0.11	5	570	2	< 2	5	12	0.14	< 10	< 10	60	< 10	42
JLP-92-62	205 274	260	6	0.07	12	280	2	< 2	1	21	0.05	< 10	< 10	27	< 10	366
JLP-92-63	205 274	145	< 1	0.03	3	190	< 2	< 2	< 1	8	< 0.01	< 10	< 10	2	< 10	2
JLP-92-64	205 274	55	3	< 0.01	10	< 10	8250	2	< 1	7	0.01	< 10	< 10	4	10	7520

CERTIFICATION:

*Jhai D Ma*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: RIPPLE ROCK RESOURCES LTD.

P.O. BOX 916  
CAMPBELL RIVER, BC  
V9W 6Y4

Project :  
Comments: ATTN: JOE PAQUET

Page Number :2-A  
Total Pages :2  
Certificate Date: 05-DEC-91  
Invoice No. :19125367  
P.O. Number :  
Account :JLP

## CERTIFICATE OF ANALYSIS

A9125367

SAMPLE	PREP CODE	Au ppb FA+AAg/tonne	Au FA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
49-B	205 294	< 5 -----		< 0.2	0.57	5	90	< 0.5	< 2	0.07	< 0.5	6	163	126	4.18	< 10	< 1	0.17	< 10	0.20
50-B	205 294	55 -----		15.2	0.17	5	10	< 0.5	< 20	0.02	< 0.5	24	340	>10000	4.09	< 10	< 1	0.02	< 10	0.06

CERTIFICATION:

*Phai D'Ma*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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Comments: ATTN: JOE PAQUET

Page Number : 2-B  
Total Pages : 2  
Certificate Date: 05-DEC-91  
Invoice No. : 19125367  
P.O. Number :  
Account : JLP

## CERTIFICATE OF ANALYSIS

### A9125367

SAMPLE	PREP CODE	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
49-B	205	294	160	1130	0.06	1	90	< 2	5	< 1	26	0.01	< 10	< 10	10	< 10	12
50-B	205	294	45	8750	< 0.01	< 1	< 200	< 2	30	1	8	0.02	< 10	< 10	21	< 50	116

CERTIFICATION:

*Thai D Ma*



# Chemex Labs Ltd.

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Page Number :1-A  
 Total Pages :1  
 Certificate Date: 17-DEC-91  
 Invoice No. :19125830  
 P.O. Number :  
 Account :JLP

Project :  
 Comments: ATTN: JOE PAQUET

## CERTIFICATE OF ANALYSIS A9125830

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA oz/T	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
60-B	208 294	45 -----		2.4	0.45	< 5	< 10	< 0.5	< 2	0.06	< 0.5									
61-B	208 294	50 -----		2.2	1.41	< 5	20	< 0.5	< 2	1.04	< 0.5	54	187	193	3.29	< 10	< 1	0.16	10	1.16
62-B	208 294	< 5 -----		2.6	0.87	5	10	< 0.5	< 2	1.17	0.5	5	174	220	0.84	< 10	< 1	< 0.01	40	0.09
63-B	208 294	150 -----		10.2	0.18	< 5	10	< 0.5	< 2	0.03	1.0	4	260	874	0.97	< 10	< 1	0.14	< 10	0.01
64-B	208 294	60 -----		6.2	0.37	< 5	10	< 0.5	< 2	0.21	< 0.5	13	260	545	1.64	< 10	< 1	0.08	< 10	0.07
65-B	208 294	15 -----		9.0	3.49	< 5	500	< 0.5	20	0.71	1.0	19	45	131	4.77	< 10	< 1	1.39	20	1.56
66-B	208 294	20 -----		1.6	4.54	20	110	< 0.5	< 2	2.77	< 0.5	24	178	291	5.77	< 10	< 1	0.42	10	0.90
67-B	208 294	< 5 -----		1.4	1.28	< 5	30	< 0.5	< 2	1.23	< 0.5	15	125	1150	11.75	< 10	< 1	0.17	20	0.07
68-B	208 294	475 -----		2.0	3.21	< 5	100	< 0.5	< 2	2.37	< 0.5	11	256	190	2.42	< 10	< 1	0.12	20	0.21
69-B	208 294	< 5 -----		2.0	2.16	< 5	80	< 0.5	< 2	2.77	0.5	13	108	64	3.08	< 10	< 1	0.37	30	0.37
70-B	208 294	50 -----		22.2	1.93	55	20	< 0.5	46	2.20	1.0	12	90	2730	14.30	< 10	< 1	0.04	20	0.23
71-B	208 294	< 5 -----		1.2	0.84	< 5	70	< 0.5	< 2	0.68	< 0.5	1	96	21	0.62	< 10	< 1	0.34	10	0.04
72-B	208 294	< 5 -----		1.4	0.96	< 5	60	0.5	< 2	0.17	< 0.5	38	175	520	2.48	< 10	< 1	0.18	< 10	0.18
73-B	208 294	< 5 -----		1.8	1.68	< 5	110	< 0.5	< 2	0.60	< 0.5	15	122	107	2.63	< 10	< 1	0.45	10	0.46
74-B	208 294	< 5 -----		1.6	1.21	< 5	90	< 0.5	< 2	0.38	0.5	3	69	7	1.11	< 10	< 1	0.25	10	0.11
75-B	208 294	< 5 -----		1.2	1.47	< 5	30	< 0.5	6	0.64	< 0.5	81	174	183	14.05	< 10	< 1	0.15	< 10	0.20
76-B	208 294	265 -----		9.6	1.59	20	150	< 0.5	20	0.04	< 0.5	41	85	8	7.21	< 10	< 1	0.77	< 10	0.15
77-B	208 294	35 -----		1.4	0.43	5	40	< 0.5	< 2	0.03	< 0.5	8	204	4	6.92	< 10	2	0.13	< 10	0.02
78-B	208 294	40 -----		2.2	9.09	< 5	40	< 0.5	< 2	5.83	0.5	48	37	3080	9.22	< 10	< 1	0.07	10	1.86
79-B	208 294	60 -----		1.0	7.49	30	60	< 0.5	< 2	4.57	< 0.5	70	52	523	7.30	< 10	< 1	0.14	20	1.44
80-B	208 294	55 -----		1.8	5.19	25	100	< 0.5	6	2.97	< 0.5	87	37	26	6.91	< 10	< 1	0.24	10	1.98
81-B	208 294	95 -----		3.8	0.33	< 5	10	< 0.5	< 2	0.15	0.5	20	191	2240	2.49	< 10	1	< 0.01	< 10	0.09
82-B	208 294	25 -----		2.4	0.92	< 5	30	< 0.5	6	0.17	< 0.5	126	126	1145	3.70	< 10	1	0.06	< 10	0.18

CERTIFICATION:

*B. Coughlin*



# Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver  
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To: RIPPLE ROCK RESOURCES LTD.

P.O. BOX 916  
CAMPBELL RIVER, BC  
V9W 6Y4

Page Number :1-B  
Total Pages :1  
Certificate Date: 17-DEC-91  
Invoice No. : I9125830  
P.O. Number :  
Account : JLP

Project :  
Comments: ATTN: JOE PAQUET

## CERTIFICATE OF ANALYSIS

### A9125830

SAMPLE	PREP CODE	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
60-B	208 294	20	2	0.35	11	20	< 2	< 5	1	10	0.02	< 10	< 10	3	10	6
61-B	208 294	235	3	0.29	120	550	< 2	5	2	79	0.12	< 10	< 10	25	< 10	26
62-B	208 294	60	5590	0.19	19	490	< 2	45	2	23	0.24	< 10	< 10	584	< 10	8
63-B	208 294	25	>10000	0.04	8	120	< 2	80	< 1	3	< 0.01	20	< 10	< 1	20	18
64-B	208 294	85	231	0.05	8	70	< 2	< 5	1	24	0.01	< 10	< 10	10	< 10	14
65-B	208 294	945	>10000	0.25	8	1300	< 2	335	12	59	0.25	100	< 10	< 1	80	86
66-B	208 294	485	299	0.53	19	650	< 2	10	10	158	0.28	< 10	< 10	103	10	38
67-B	208 294	470	67	0.24	17	190	< 2	5	2	157	0.05	10	< 10	11	< 10	78
68-B	208 294	425	25	0.24	30	550	< 2	< 5	4	171	0.16	< 10	< 10	60	< 10	44
69-B	208 294	260	25	0.29	17	1490	< 2	< 5	6	167	0.66	< 10	< 10	57	< 10	28
70-B	208 294	585	68	0.06	62	870	130	5	4	117	0.13	< 10	< 10	50	30	168
71-B	208 294	140	22	0.20	5	260	6	< 5	1	50	< 0.01	< 10	< 10	3	< 10	10
72-B	208 294	80	1635	0.15	17	160	< 2	5	1	27	0.03	< 10	< 10	< 1	< 10	12
73-B	208 294	280	544	0.24	3	1140	< 2	10	4	37	0.11	10	< 10	28	< 10	34
74-B	208 294	245	31	0.25	3	250	< 2	< 5	1	41	0.04	< 10	< 10	6	< 10	14
75-B	208 294	155	17	0.06	19	220	< 2	5	4	51	0.13	< 10	< 10	22	< 10	20
76-B	208 294	155	41	0.07	6	530	160	5	2	12	0.11	20	< 10	19	< 10	20
77-B	208 294	40	4	0.09	6	40	4	< 5	1	9	0.01	30	< 10	< 1	< 10	6
78-B	208 294	795	2	0.85	11	200	< 2	15	21	517	0.42	< 10	< 10	424	10	94
79-B	208 294	485	3	0.81	18	490	< 2	10	6	446	0.20	< 10	< 10	189	< 10	52
80-B	208 294	660	< 1	0.56	7	290	< 2	15	17	442	0.45	< 10	< 10	235	< 10	62
81-B	208 294	95	298	0.04	5	60	< 2	< 5	1	13	0.02	< 10	< 10	14	< 10	22
82-B	208 294	100	14	0.23	15	320	< 2	< 5	1	24	0.07	< 10	< 10	32	< 10	32

CERTIFICATION:

*B. Coghlan*



# Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
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To: RIPPLE ROCK RESOURCES LTD.

P.O. BOX 916  
 CAMPBELL RIVER, BC  
 V9W 6Y4

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 10-APR-92  
 Invoice No. : 19213043  
 P.O. Number :  
 Account : JLP

Project :  
 Comments: ATTN: JOE PAQUET

## CERTIFICATE OF ANALYSIS A9213043

SAMPLE	PREP CODE	Au ppb FA+AAg/tonne	Au FA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
JLP-92-29	205 274	< 5 -----		< 0.2	0.75	< 2	90	< 0.5	< 2	0.06	< 0.5	4	44	11	3.25	< 10	< 1	0.06	< 10	0.38
JLP-92-30	205 274	< 5 -----		< 0.2	0.75	< 2	90	< 0.5	< 2	0.06	< 0.5	4	44	11	3.25	< 10	< 1	0.08	< 10	0.36
JLP-92-31	205 274	< 5 -----		0.2	1.91	< 2	240	< 0.5	< 2	0.34	< 0.5	12	51	60	3.81	< 10	< 1	0.55	< 10	1.26
JLP-92-32	205 274	985 -----		3.6	0.78	8	40	< 0.5	< 2	0.27	0.5	66	125	1765	5.08	< 10	< 1	0.14	< 10	0.32
JLP-92-33	205 274	< 5 -----		< 0.2	0.18	4	< 10	< 0.5	< 2	0.01	< 0.5	1	62	31	0.59	< 10	< 1	0.07	< 10	0.01
JLP-92-34	205 274	< 5 -----		< 0.2	1.31	4	50	< 0.5	< 2	0.10	< 0.5	7	109	62	2.63	< 10	< 1	0.07	< 10	0.91
JLP-92-35	205 274	30 -----		< 0.2	1.02	4	30	< 0.5	< 2	0.47	< 0.5	20	34	123	3.50	< 10	< 1	0.03	< 10	0.69
JLP-92-36	205 274	< 5 -----		< 0.2	0.74	< 2	20	< 0.5	< 2	0.02	< 0.5	2	75	2	2.22	< 10	< 1	0.09	< 10	0.24
JLP-92-37	205 274	< 5 -----		< 0.2	0.80	2	70	< 0.5	< 2	0.03	< 0.5	5	109	5	3.42	< 10	< 1	0.08	< 10	0.35
JLP-92-38	205 274	< 5 -----		< 0.2	0.78	2	60	< 0.5	< 2	0.04	< 0.5	5	92	6	3.10	< 10	< 1	0.06	< 10	0.39
JLP-92-39	205 274	< 5 -----		< 0.2	1.05	4	70	< 0.5	< 2	0.10	< 0.5	7	68	6	2.75	< 10	< 1	0.12	< 10	0.45
JLP-92-40	205 274	< 5 -----		0.6	2.23	< 2	250	< 0.5	< 2	0.34	< 0.5	13	103	31	4.70	< 10	< 1	0.64	< 10	1.14
JLP-92-41	205 274	< 5 -----		0.2	2.10	< 2	180	< 0.5	< 2	0.36	< 0.5	14	42	51	4.08	< 10	< 1	0.43	< 10	1.27
JLP-92-42	205 274	< 5 -----		1.2	2.04	< 2	220	< 0.5	< 2	0.24	< 0.5	15	52	77	4.20	< 10	< 1	0.91	< 10	1.12
JLP-92-43	205 274	< 5 -----		0.2	1.80	< 2	180	< 0.5	< 2	0.38	< 0.5	12	67	41	3.73	< 10	< 1	0.36	< 10	1.10
JLP-92-44	205 274	< 5 -----		< 0.2	1.85	< 2	120	< 0.5	< 2	0.37	< 0.5	14	57	52	3.73	10	1	0.26	< 10	1.16
JLP-92-45	205 274	< 5 -----		0.4	2.35	< 2	210	< 0.5	< 2	0.43	< 0.5	12	47	45	4.03	10	< 1	0.51	< 10	1.22
JLP-92-46	205 274	< 5 -----		0.2	1.96	2	120	< 0.5	< 2	0.39	< 0.5	14	50	59	4.22	10	< 1	0.33	< 10	1.23
JLP-92-47	205 274	< 5 -----		1.2	2.00	< 2	340	< 0.5	< 2	0.34	< 0.5	12	62	42	3.97	10	< 1	0.80	< 10	1.22
JLP-92-48	205 274	< 5 -----		1.0	1.90	8	310	< 0.5	< 2	0.32	< 0.5	12	62	31	4.08	10	< 1	0.73	< 10	1.27
JLP-92-49	205 274	20 -----		< 0.2	2.93	< 2	20	< 0.5	< 2	1.81	< 0.5	12	22	40	3.25	10	< 1	0.07	< 10	1.08
JLP-92-50	205 274	< 5 -----		5.0	0.87	< 2	370	< 0.5	< 2	0.43	0.5	4	60	917	0.76	< 10	< 1	0.08	10	0.17

JLP-92-59 | 205 274 | 20 ----- | 0.6 | 0.93 | < 2 | 80 | < 0.5 | < 2 | 0.71 | < 0.5 | 8 | 80 | 90 | 2.03 | < 10 | < 1 | 0.37 | < 10 | 0.51

0.04 < 10 0.08

CERTIFICATION:

*Yhai D Ma*



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Page Number : 1-B  
 Total Pages : 1  
 Certificate Date: 10-APR-92  
 Invoice No. : 19213043  
 P.O. Number :  
 Account : JLP

Project :  
 Comments: ATTN: JOE PAQUET

## CERTIFICATE OF ANALYSIS

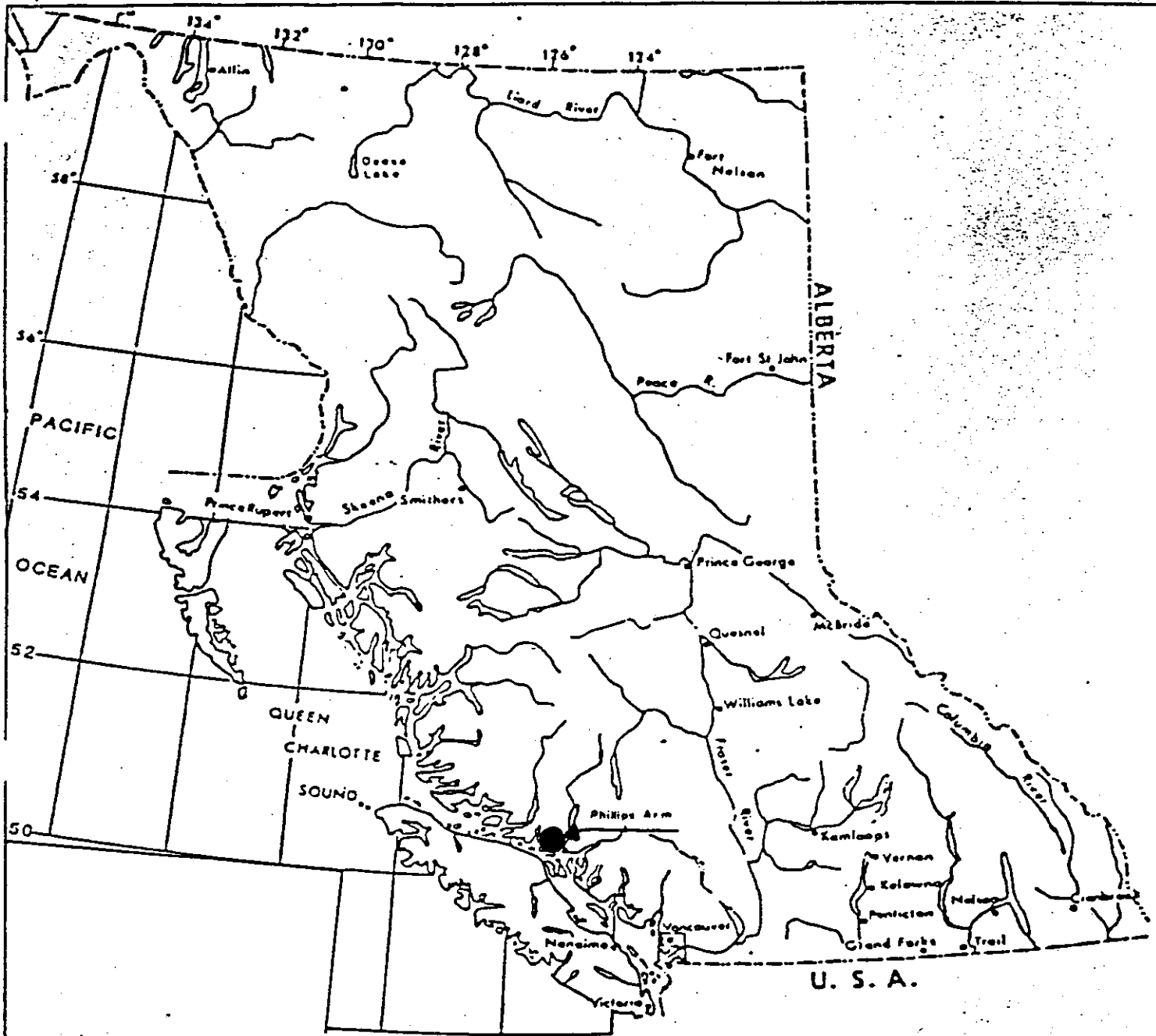
### A9213043

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
JLP-92-29	205	274	255	1	0.04	< 1	60	2	< 2	< 1	23	< 0.01	< 10	< 10	3	< 10	4
JLP-92-30	205	274	205	1	0.03	1	90	< 2	< 2	< 1	134	< 0.01	< 10	< 10	15	< 10	6
JLP-92-31	205	274	635	< 1	0.09	3	480	2	< 2	13	24	0.19	< 10	< 10	123	< 10	58
JLP-92-32	205	274	110	681	0.03	13	290	< 2	8	3	19	0.07	< 10	< 10	25	< 10	44
JLP-92-33	205	274	75	2	0.03	1	10	4	< 2	< 1	1	< 0.01	< 10	< 10	< 1	< 10	2
JLP-92-34	205	274	350	1	0.02	19	190	< 2	< 2	7	4	0.06	< 10	< 10	99	< 10	22
JLP-92-35	205	274	230	4	0.05	15	800	2	2	2	33	0.19	< 10	< 10	61	< 10	30
JLP-92-36	205	274	130	2	0.02	1	100	2	< 2	< 1	4	< 0.01	< 10	< 10	7	< 10	2
JLP-92-37	205	274	200	2	0.04	2	100	2	2	< 1	16	< 0.01	< 10	< 10	8	< 10	4
JLP-92-38	205	274	230	2	0.03	2	70	2	2	< 1	14	< 0.01	< 10	< 10	7	< 10	4
JLP-92-39	205	274	305	1	0.04	1	110	< 2	< 2	1	30	0.01	< 10	< 10	17	< 10	10
JLP-92-40	205	274	675	1	0.08	3	520	< 2	2	13	31	0.27	< 10	< 10	116	< 10	48
JLP-92-41	205	274	755	< 1	0.06	3	510	2	< 2	12	18	0.23	< 10	< 10	112	< 10	62
JLP-92-42	205	274	585	1	0.07	3	470	< 2	6	14	24	0.23	< 10	< 10	117	< 10	50
JLP-92-43	205	274	575	< 1	0.07	3	470	< 2	2	9	21	0.19	< 10	< 10	102	< 10	42
JLP-92-44	205	274	680	< 1	0.06	4	490	2	2	9	30	0.14	< 10	< 10	98	< 10	62
JLP-92-45	205	274	650	1	0.09	3	460	< 2	4	13	38	0.20	< 10	< 10	129	< 10	54
JLP-92-46	205	274	770	1	0.09	3	500	4	4	11	34	0.14	< 10	< 10	112	< 10	66
JLP-92-47	205	274	615	< 1	0.12	3	510	< 2	< 2	14	28	0.19	< 10	< 10	120	< 10	62
JLP-92-48	205	274	665	1	0.08	4	500	< 2	4	14	22	0.21	< 10	< 10	129	< 10	56
JLP-92-49	205	274	525	< 1	0.09	2	550	< 2	2	4	100	0.12	< 10	< 10	79	< 10	60
JLP-92-50	205	274	180	< 1	0.04	1	30	4	< 2	< 1	32	0.01	< 10	< 10	3	< 10	38

JLP-92-59	205	274	300	2	0.11	7	640	2	2	3	57	0.12	< 10	< 10	43	< 10	26
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CERTIFICATION:

*Phai D Ma*



**INDEX MAP**

**BRITISH COLUMBIA**

150 0 150 300 450 Km.

SCALE 1: 7,500,000

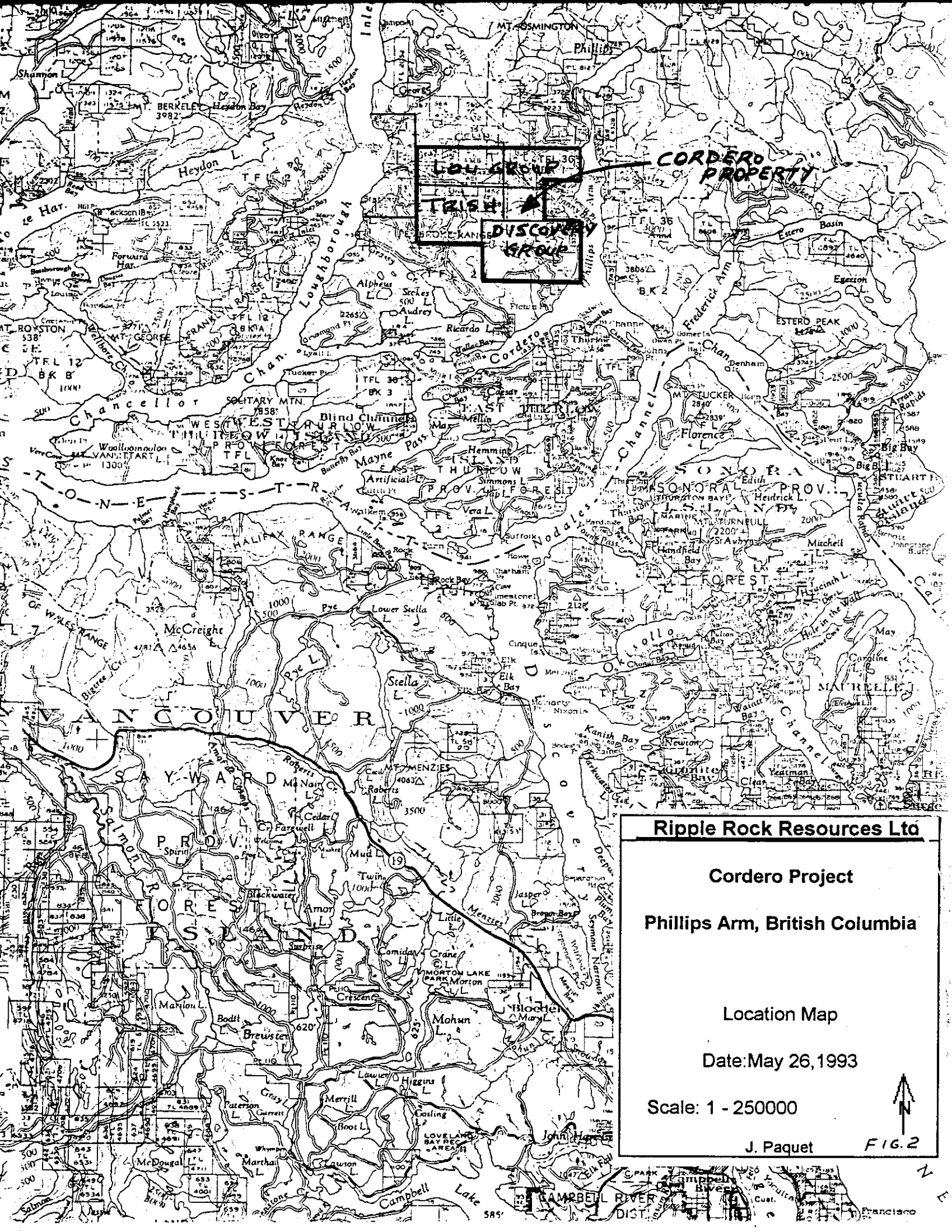
**Ripple Rock Resources Ltd.**

**Cordero Project**

**Phillips Arm, British Columbia**

**FIGURE 1**





**Ripple Rock Resources Ltd**

**Cordero Project**

**Phillips Arm, British Columbia**

Location Map

Date: May 26, 1993

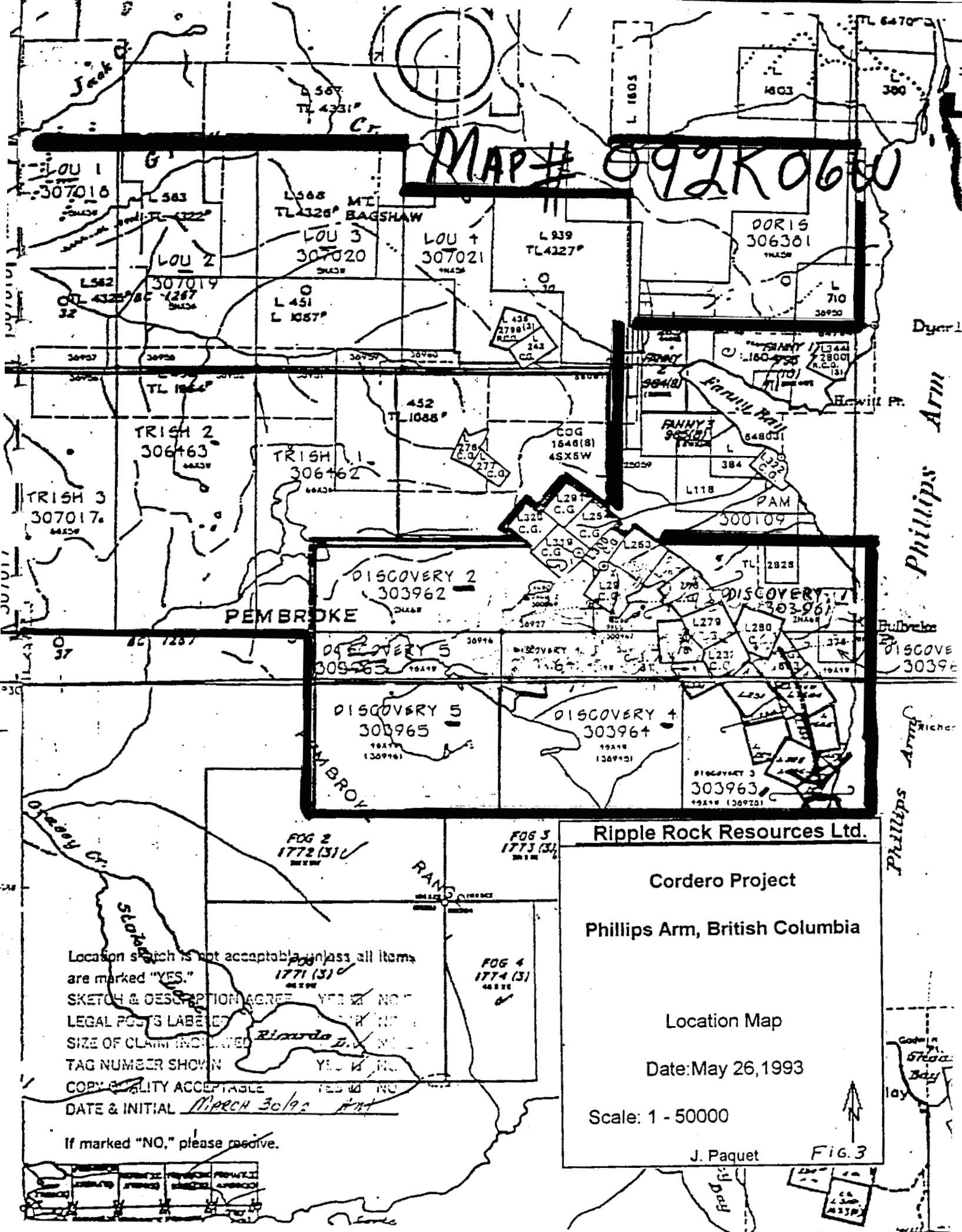
Scale: 1 - 250000

J. Paquet

FIG. 2



# MAP # 092K0600



Location sketch is not acceptable unless all items are marked "YES."

SKETCH & DESCRIPTION AGREE YES  NO

LEGAL POINTS LABELED YES  NO

SIZE OF CLAIM INCORPORATED YES  NO

TAG NUMBER SHOWN YES  NO

COPY QUALITY ACCEPTABLE YES  NO

DATE & INITIAL MARCH 30/93 JPA

If marked "NO," please recheck.

**Ripple Rock Resources Ltd.**

**Cordero Project**

**Phillips Arm, British Columbia**

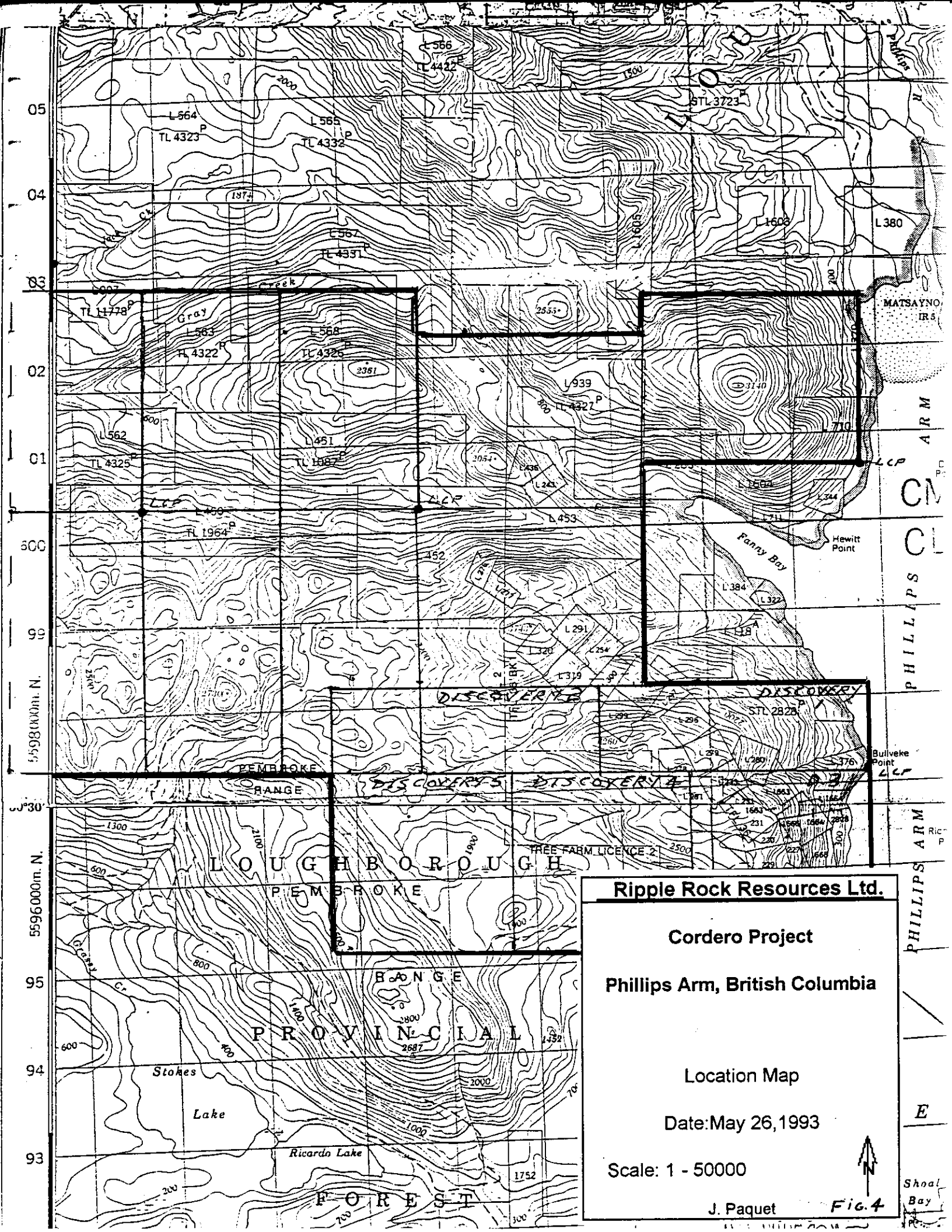
Location Map

Date: May 26, 1993

Scale: 1 - 50000

J. Paquet **FIG. 3**

SEARCHED	INDEXED	SERIALIZED	FILED



05  
04  
03  
02  
01  
500  
99  
98  
95  
94  
93

5598000m. N.  
5596000m. N.

MATSAYNO IR S  
PHILLIPS ARM  
CL  
PHILLIPS ARM  
Rice Pt  
Shoal Bay

**Ripple Rock Resources Ltd.**

**Cordero Project**

**Phillips Arm, British Columbia**

Location Map

Date: May 26, 1993

Scale: 1 - 50000

J. Paquet

Fig. 4

**LOUGHBOROUGH**

PEMBROKE

PROVINCIAL

FOREST

DISCOVERY 3

DISCOVERY 4

DISCOVERY 5

DISCOVERY 6

TREE FARM LICENCE 2

**Cordero Project**

**Phillips Arm, British Columbia**

Location Map

Date: May 26, 1993

Scale: 1 - 50000

J. Paquet

Fig. 4



Ripple Rock Resources Ltd.

Cordero Project

Phillips Arm, British Columbia

Trish & Lou Claim Group

X Sample Location

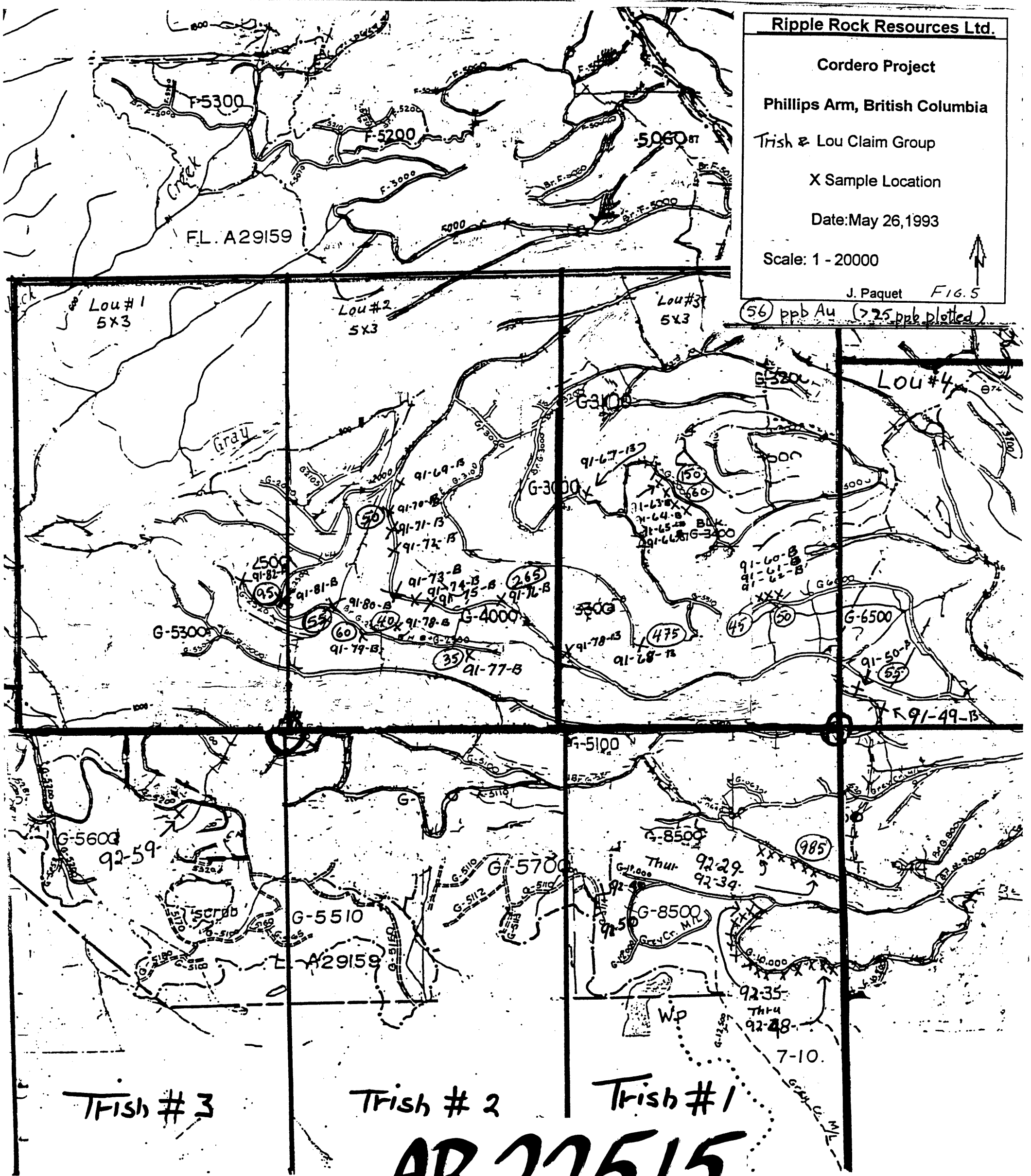
Date: May 26, 1993

Scale: 1 - 20000

J. Paquet FIG. 5



(56) ppb Au (>25 ppb plotted)

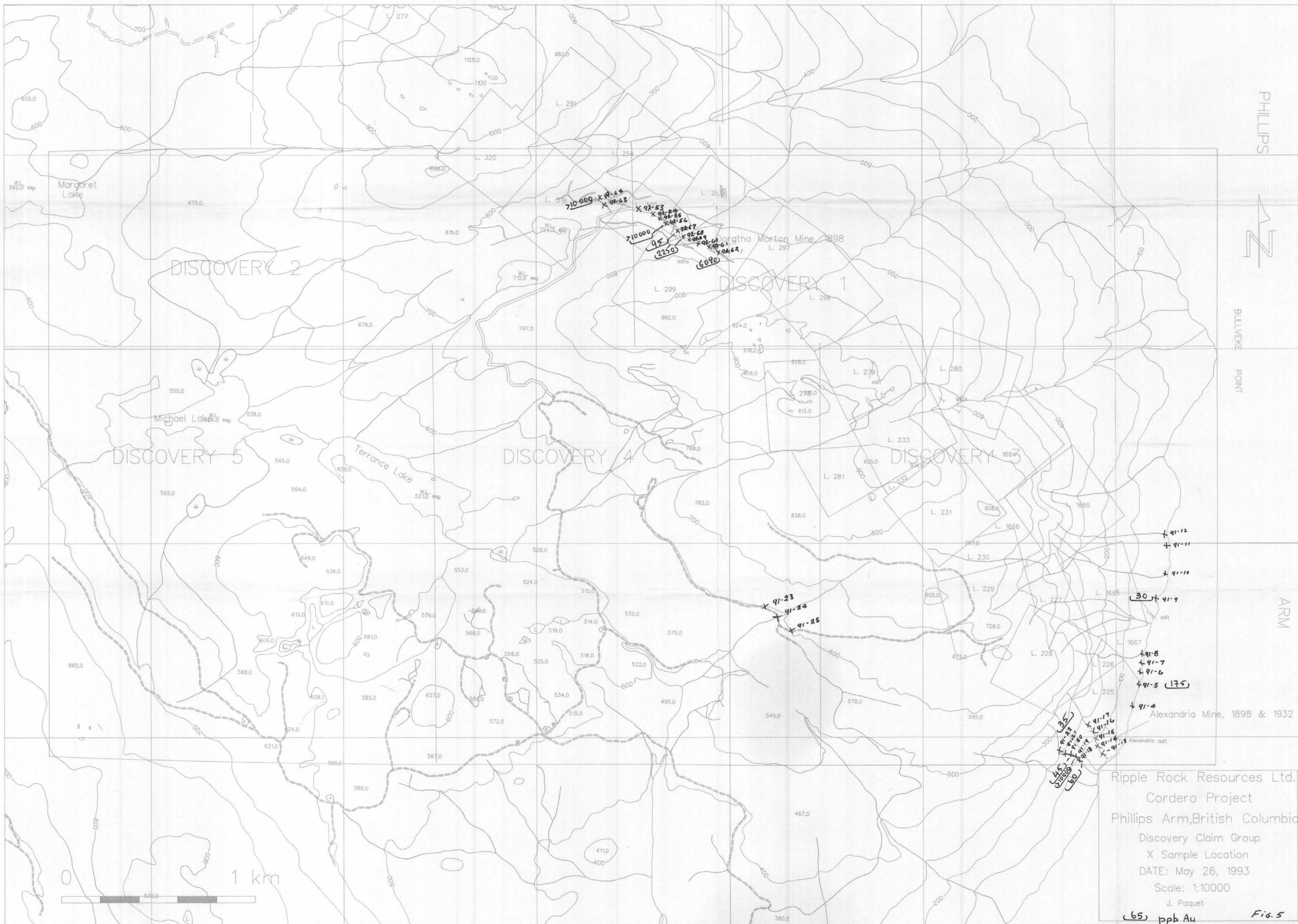


Trish # 3

Trish # 2

Trish # 1

AR 22515



PHILLIPS



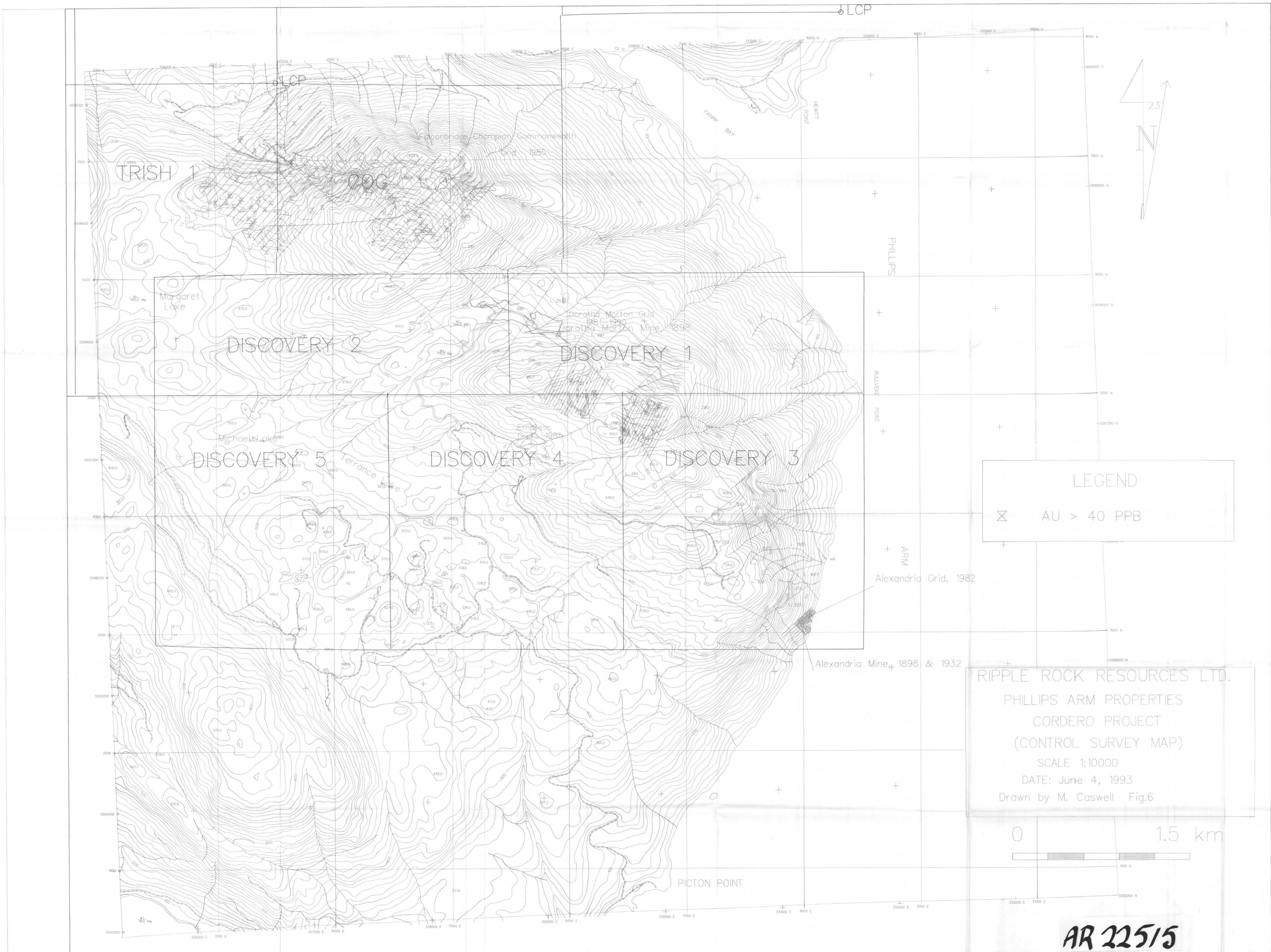
BULLVEKE POINT

ARM

Ripple Rock Resources Ltd.  
 Cordero Project  
 Phillips Arm, British Columbia  
 Discovery Claim Group  
 X Sample Location  
 DATE: May 26, 1993  
 Scale: 1:10000  
 J. Paquet  
 (65) ppb Au  
 (>25 ppb plotted)

AR 22515

Fig. 5



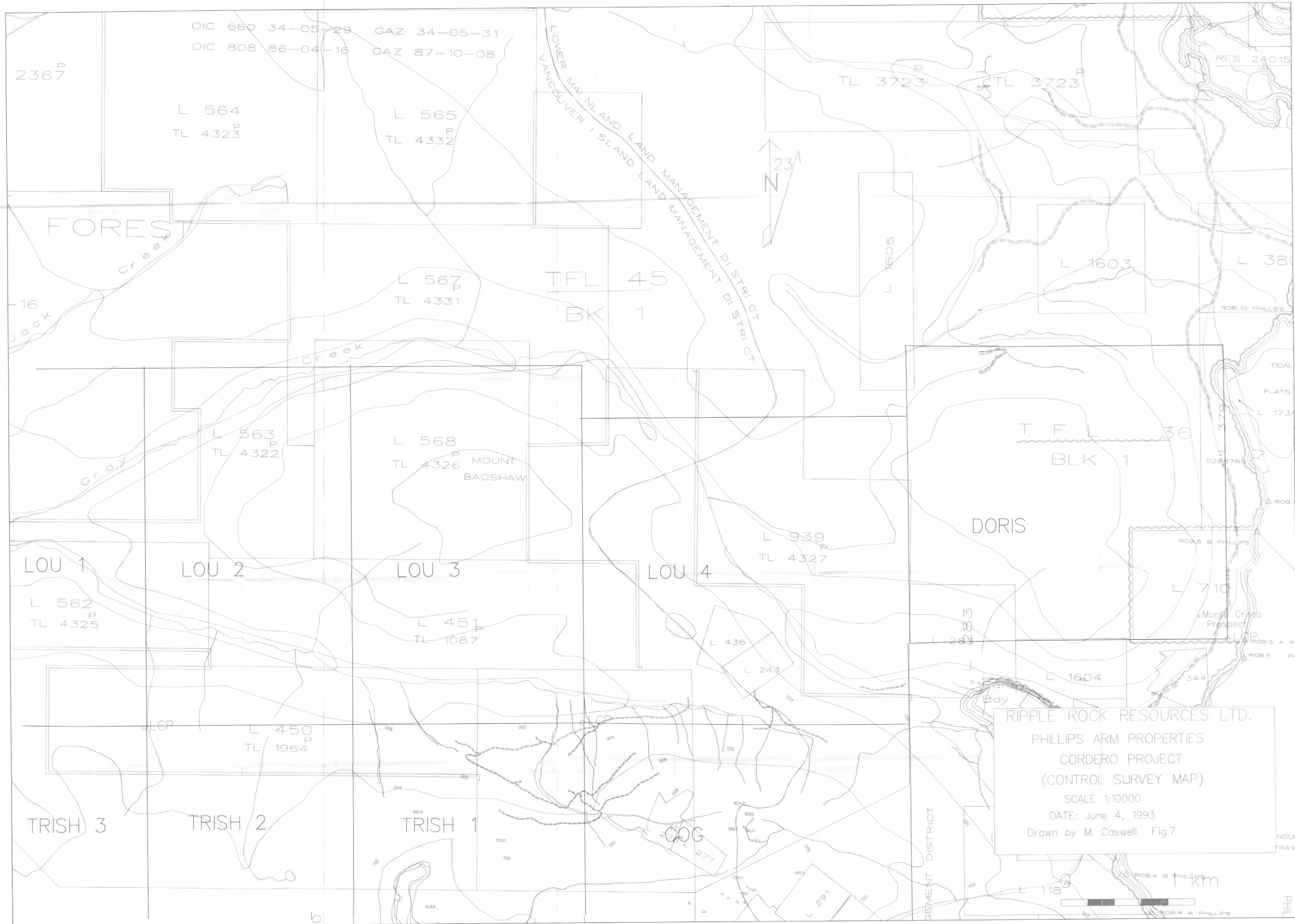
LEGEND

⊗ AU > 40 PPB

RIPPLE ROCK RESOURCES LTD.  
 PHILLIPS ARM PROPERTIES  
 CORDERO PROJECT  
 (CONTROL SURVEY MAP)  
 SCALE 1:10000  
 DATE: June 4, 1993  
 Drawn by M. Caswell Fig.6



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