

GOVERNMENT  
AGENT

APR 05 1990

KAMLOOPS

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GEOLOGICAL GEOCHEMICAL REPORT

on the

PLATINUM GIANT CLAIM GROUP  
KAMLOOPS MINING DIVISION  
BRITISH COLUMBIA  
N.T.S. 82L/11W

for

L.D. LUTJEN  
CHASE, B.C.

LOG NO: 0410 RD.

ACTION:

FILE NO:

COVERING: PLATINUM GIANT 1, 2, 3 CLAIMS  
PROPERTY OWNER: L.D. LUTJEN  
OPERATOR: CORONA CORPORATION  
PROGRAM SUPERVISOR: R.C. WELLS  
REGIONAL GEOLOGIST  
KAMLOOPS OFFICE  
101 - 2985 AIRPORT RD.  
KAMLOOPS, B.C.

FEBRUARY 28, 1990

R.C. WELLS B.Sc., F.G.A.C.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT



19,867

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## SUMMARY AND CONCLUSIONS

The Platinum Giant Property is located 6 kilometres southwest of Salmon Arm and consists of three claims totalling 40 units.

The property lies within the Omineca Belt and covers a mixed assemblage of metamorphosed, Paleozoic sedimentary rocks which have been intruded by a Cretaceous leucogranite stock. The exploration target is greisen alteration hosted polymetallic mineralization and auriferous quartz veins in the roof zone to the intrusion.

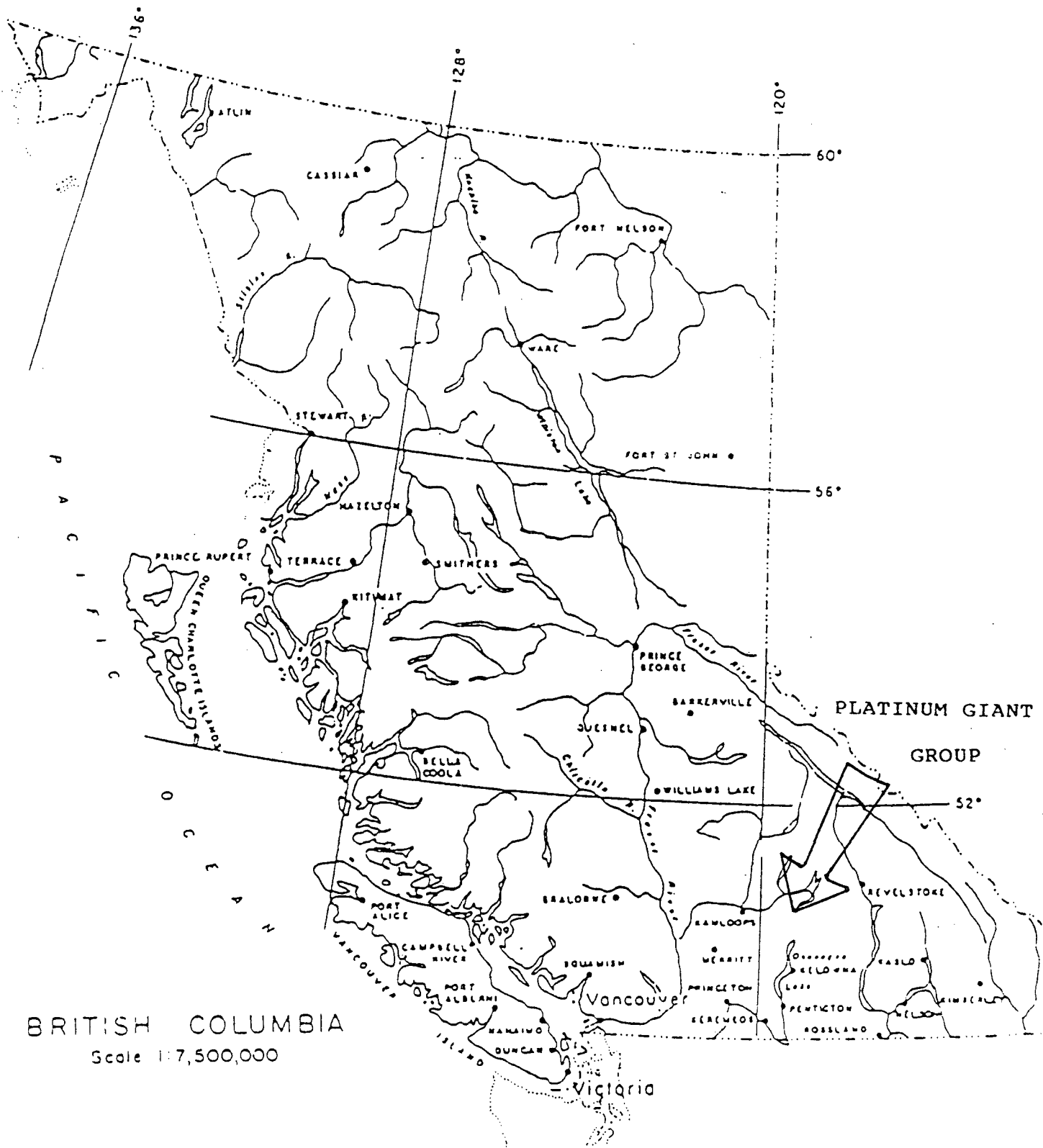
Previous work on the property had indicated both styles of mineralization to be present, and a number of old workings are well documented in the literature.

Corona in 1989, as part of a regional program took a close look at the property. A program of stream geochemical sampling, trench sampling, recon. mapping and prospecting was conducted between June and August 1990. A stream geochemical survey appears to have very limited use in the area due to thick glacial overburden in the creek valleys. No geochemical anomalies for the elements Au, Ag, Cu, Pb and Zn were outlined from the creeks draining the property area.

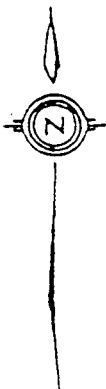
The old workings on the Platinum Giant 3 claim clearly lie within the roof zone to an alkali granite intrusion. Sampling of limited bedrock exposures in the 1967 Annmar trenches locally yielded values in Ag, Cu, Pb, Zn, Sb and Sn. These values came from silicified and quartz veined metasediments, greisen and phyllic alteration.


Sampling at the Miller Adit did not yield gold values as had been previously reported.

Determining the extent of alteration hosted, polymetallic mineralization in this area is a difficult problem due to lack of outcrop, variable overburden cover and poor geochemical response.



BRITISH COLUMBIA  
Scale 1:7,500,000



 <b>CORONA CORPORATION</b>		
<b>PROPERTY LOCATION MAP</b> <b>PLATINUM GIANT GROUP</b> <b>KAMLOOPS M.D.</b>		
PREPARED BY:	K.G.	SCALE:
DATE:	82L/IIW	PROJECT NO.:
DATE:	Feb. 1990	MAP NO.:
		I

## INTRODUCTION

This is a short geological-geochemical report on a program conducted on the Platinum Giant Property owned by L.D. Lutjen of Chase, and located near Salmon Arm in Kamloops Mining division.

During 1989, Corona Corporation conducted a regional property generation program in this part of the Omineca Belt. The Platinum Giant Property was examined as part of this program.

The targets for exploration on this property are: 1) polymetallic mineralization associated with greisen alteration in the roof zone to a leucogranitic intrusion and 2) gold quartz veins. Gold values had been previously reported from a number of old workings on the claims.

The program by Corona was conducted between June and August 1990 under the direction of R. C. Wells B.Sc, F.G.A.C. The cost of this program was \$4,500 and is being applied for assessment credit on the property.

## PROPERTY AND OWNERSHIP

The Platinum Giant Property consists of three claims with a total of 40 units. All three claims are 100% owned by Mr. L.D. Lutjen, RR1, B-12-S11, Chase B.C., V0E 1M0. The claim data is summarized in the following table.

TABLE 1: PLATINUM GIANT PROPERTY - CLAIM DATA

<u>CLAIM</u>	<u>NO. OF UNITS</u>	<u>RECORD NO.</u>	<u>REC. DATE</u>
Platinum Giant 1	6	6909	Feb. 2, 1987
Platinum Giant 2	14	6910	" "
Platinum Giant 3	20	7456	Jan. 29, 1988

These claims are presently grouped together as the Platinum Giant Property and are shown in Figure 2.

## LOCATION AND ACCESS

The Platinum Giant Property is located in southern B.C. (Figure 1), south of Salmon Arm airfield on the northern slopes of Mount Ida (Figure ). N.T.S. coverage is by map sheet 82/11W at Latitude  $50^{\circ}40'$  and Longitude  $119^{\circ}17'$ . This area lies within the Kamloops Mining Division.

The property is easily accessible by road from Salmon Arm, then by paved road to Rumball Creek, and up the Rumball Creek Logging Road (0114698) for 1.5 km to the northern boundary of Platinum Giant 3 (Figure 2). From here the logging road crosses the property and exits near its southeastern corner. A branch to this road gives access to Platinum Giant 2 at the headwaters of Hobson Creek.

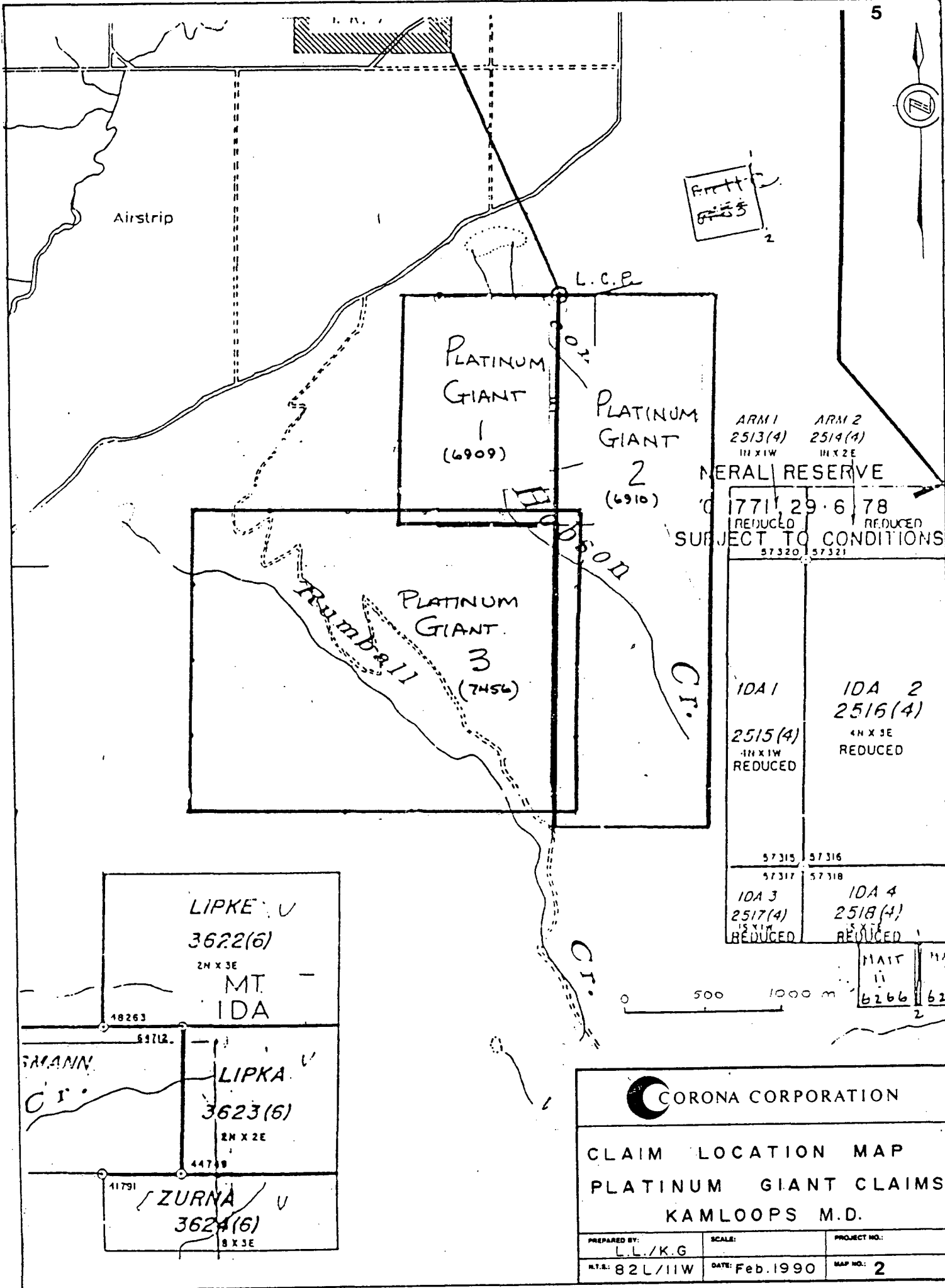
## TOPOGRAPHY AND VEGETATION

The property covers the steep northern slopes of Mount Ida with thick stands of fir, cedar, birch and spruce. Elevations range from 600 to 1450 metres and deep valleys/gullies occur along the northwesterly trending drainages, notably Rumball, Hobson and Leonard Creeks.

## HISTORY OF PREVIOUS WORK

A number of old workings occur on sulfide bearing quartz veins in the property area. The locations of these are shown in Figure 3.

The Miller Tunnel on Platinum Giant 3 follows a quartz vein zone within a shear (northeasterly) cutting granite. Sampling of the vein by Ferrier (1920) reported values of 8.23 g/t Au and 0.69 g/t Pt across a 4.75 foot width.



Frett  
6/25/90  
2

ARM 1 2513(4) 111 X 11W REDUCED 57320	ARM 2 2514(4) 111 X 2E REDUCED 57321
GENERAL RESERVE	
01771 29.6 78	
SUBJECT TO CONDITIONS	

10A 1 2515(4) 111 X 1W REDUCED 57315	10A 2 2516(4) 4N X 3E REDUCED 57316
10A 3 2517(4) 15 X 1W REDUCED 57317	10A 4 2518(4) 15 X 1E REDUCED 57318

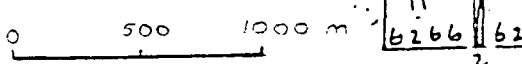
LIPKE U  
3622(6)  
2N X 3E  
MT. IDA  
48263

---

SMANN CR.  
LIPKA U  
3623(6)  
2N X 2E  
44799

---

ZURNA U  
3624(6)  
8 X 3E  
41791



**CORONA CORPORATION**

CLAIM LOCATION MAP  
PLATINUM GIANT CLAIMS  
KAMLOOPS M.D.

PREPARED BY: L.L./K.G.	SCALE:	PROJECT NO.:
N.T.S.: 82L/11W	DATE: Feb. 1990	MAP NO.: 2



The Whitecliff working on Platinum Giant 1 consists of two small adits on sulfide bearing quartz veins. Ferrier's sampling yielded 12 g/t Au and 6.86 g/t Pt.

An important point is that sampling since 1920 has not produced Au or Pt values in the same magnitude as Ferrier's (1920).

In 1926 and 1930 Minister of Mines Reports, reported silver values in the 5 to 10 oz/t range from the Miller.

In 1967 Annmar Mining (Mitchell) completed a number of trenches on the property near the Miller adit. The results from these are not published.

A limited rock and soil geochemical program was conducted on the property by P. Peto in 1983 (Assessment Report # 12055). Samples from the Millar adit area ran upto 0.17% Cu, 6.13% Pb, 0.8% Zn, 44 g/t Ag and 0.45% Sn with no significant gold values.

In 1988 the property owner (L. Lutjen) conducted a small program of grid installation, VLF-EM, prospecting and sampling. This work covered the Miller adit and the projected northeasterly extension of the vein system to the Bonnie Brae workings (1.3 km) as shown in Figure 3. The 1967 trenching by Annmar was located and a number of northeasterly trending VLF anomalies are apparent in this area. Two closely spaced grab samples from one trench yielded values upto 305 g/t Ag, 0.28% Cu, >1% Zn, >1% Pb, and 0.24% Sn.

#### REGIONAL GEOLOGY

The Mount Ida area lies within the Omineca Belt of the Canadian Cordillera. Jones (1959) Mt. Ida Group consisted of four stratigraphic packages: 1) Eagle Bay (Devono-Mississippian)-micaceous quartzite, mica schist, phyllites and metavolcanics; 2) Silver Creek Formation (Cambro-Ordovician) quartzite and muscovite schists; 3) Tsalkom Formation (age ?) greenstones; 4) Sicamous Formation (Triassic) phyllitic marble and calcareous phyllite.

These low to medium grade metamorphic rocks are overlain unconformably by flat lying, Eocene volcanic rocks.

Intrusive rocks in the area are represented by orthogneiss (Devonian) belonging to the Mount Fowler batholith and Early Cretaceous mica granites (Mount Ida and to the northwest).

## 1989 EXPLORATION PROGRAM

Corona Corporation conducted a regional property generation program in the Salmon Arm area in 1989. A thorough investigation was made of the Platinum Giant Property as part of this program.

Approximately \$4500 was expended on the property during 1989, largely between June and August. The exploration program consisted of (1) stream geochemical sampling, (2) old trench mapping and resampling, (3) more general prospecting and sampling. All this work was performed by Corona personnel under the direction of R. C. Wells based in Kamloops, B.C.

### 1) PROPERTY GEOLOGY

Thick sandy to clayey overburden covers large areas on the property. Good exposures do however occur along Hobson and Leonard Creeks, in old workings and along the road system.

The claims are at lower elevations (below) than the Eocene volcanic rocks forming the peak of Mount Ida. Most of the Platinum Giant 3 claim is underlain by altered leucogranite and roof pendants of mica schist and calcareous metasediments. On the eastern claims metasedimentary rocks and porphyritic, felsic dykes outcrop along Hobson and Leonard Creeks. The overall environment appears to be the roof zone to a quartz rich leucogranitic intrusion featuring widespread strong fracturing, silicification and local gneisenization.

### 2) STREAM GEOCHEMICAL SURVEY

The aim of this survey was to locate anomalous drainages for the elements Au, Ag, Cu, Pb, Zn and Sn. Elevated values for elements in this group would give an indication of the extent and possibly the location of greisen style mineralization in the property area.

#### a) Method

Three days were spent by a two man crew taking samples at regular intervals from Rumball, Hobson and Leonard Creeks. At each site a silt sample was collected as well as a sieved and panned heavy mineral sample. For this survey a sample interval of approximately 500 metres was chosen, the sites are shown on Figure 4. All the samples were placed in kraft paper envelopes and sent to Eco Tech Laboratories in Kamloops B.C. The samples were run geochemically for Au and 30 element ICP (Appendix C).

#### b) Results

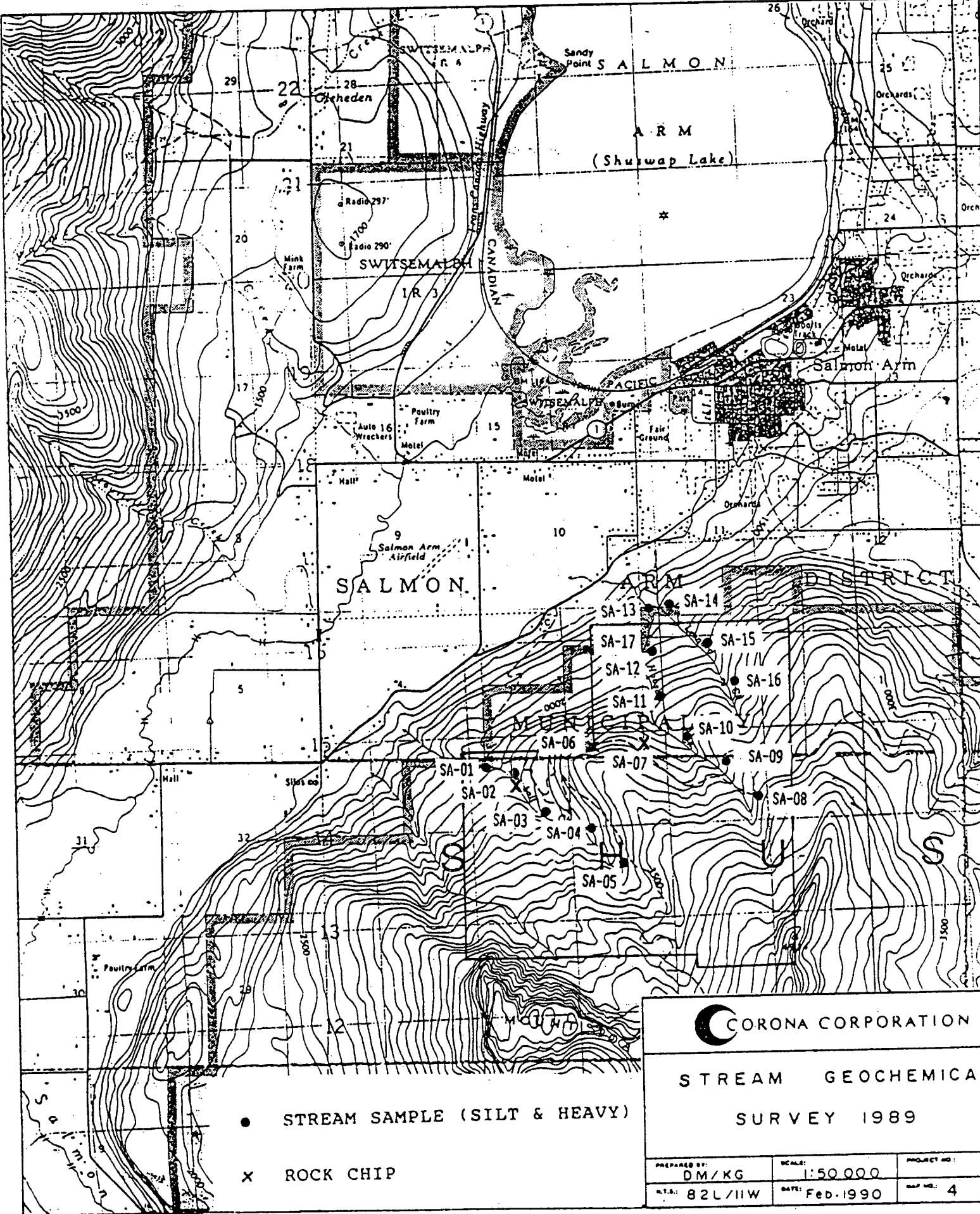
None of the silt samples produced significantly anomalous values in any of the elements in the target group. This is peculiar as mineralization has been identified in a number of areas above Rumball and Hobson Creeks. A problem appears to be that the drainages are largely clogged by glacial debris. The beds to the creeks are commonly clay with rare bedrock. Transport of material away from mineralized areas appears to be very limited and hence this geochemical method does not appear to work in this area.

### 2) SAMPLING AND MAPPING, GENERAL PROSPECTING.

During June 1989, three days were spent sampling and prospecting in the Miller Adit area on the Platinum Giant 3 claim. The area between the Miller and Bonnie Brae adits had been trenched by Annmar Mining in 1967 exposing greisen style, polymetallic mineralization.

#### a) Method

A total of 39 rock samples were taken in this area. Figure 5 shows part of the 1988 (Lutjen) grid, location of old workings and the 1989 sample locations. Figure 6 is a plan of the main trench with geology and chip sample locations. Tables 2 and 3 in Appendix D gives descriptions and other data regarding these samples.



All the samples were taken to Eco Tech Laboratories in Kamloops B.C. and run for Au geochemically and thirty element ICP. Samples yielding high Ag, Pb, Zn, Sn or Sb values (greater than 40 g/t Ag or 1000 ppm rest) were assayed.

A sample of fairly fresh two feldspar leucogranite was taken on the road north of the 1988 grid at approximate grid location 500E, 500N. This sample was analysed by Eco Tech for whole rock (Appendix C).

#### b) Trench Sampling

A plan of Trench 3 is shown in Figure 6. This trench yielded high Ag, Zn and Pb values and strongly anomalous Cu and Sn in the 1988 sampling by Lutjen and probably in 1983 by Peto.

Large parts of the trench have fallen back in as 3 to 5 metres of unconsolidated, sandy overburden covers the bedrock. The trench exposes strongly altered and fractured micaceous and locally calcareous sedimentary rocks. Original textures are obscured by strong silicification or phyllic alteration (quartz-clay-sericit-pyrite). A number of milky quartz veins trending east to northeast cut both types of alteration. They locally reach 20 cm in width, though generally much narrower and in swarms with bleby galena, sphalerite and some finer chalcopyrite. A 2.0 metre true width sample across a quartz vein zone in phyllic alteration yielded 13.65% Pb, 0.18% Cu, 0.35% Zn, 0.58% Sn and .17% Sb.

Trench 2 (Figure 5) lies 30 metres west of Trench 1. It has largely caved in, though a small dump of excavated rock can be examined. Numerous boulders of highly silicified sediments and possibly granite contain quartz veins with pyrite, galena, sphalerite and chalcopyrite. Samples from this material yielded values upto 2.12% Zn, 127.9 g/t Ag, .13% Sn and 1.13% Pb.

Trenches 4,5 and 6 (Figure 5) above the Miller adit poorly expose siliceous metasediments and did not yield any significant values in the target group of elements.

The Miller Adit is in strongly fractured and silicified, micaceous sedimentary rocks less than 20 metres north of a granitic intrusion. For much of its length the adit follows a north easterly trending system of quartz veins with local galena and sphalerite. Samples from the veins produced low Pb, Ag and Zn values with no gold.

Silicified granite south of the Miller adit was sampled but did not yield any values.

#### c) Prospecting

A number of quartz veined outcrops and float was found while prospecting the Rumball Creek road area near the Miller adit. These sample locations are shown on the same plan (Figure 5). Much of the quartz veining cuts micaceous metasediments and did not produce any significant values.

#### d) Whole Rock Analysis

A single sample of leucogranite taken from just to the north of the grid was run whole rock. This fairly fresh sample was coarse grained and porphyritic (feldspar) with roughly equal amounts of plagioclase and orthoclase with quartz and 1 to 5% muscovite and, or biotite. Chemically it can be classified as a potassic-sodic granite or alkali granite. The whole rock analysis can be found in Appendix C.

## BIBLIOGRAPHY

Brewer, W. M. (1913) B.C.D.M. Annual Report, p. 198-199.

B.C. Minister of Mines Annual Report (19130) p.183-185.

Ferrier, W. F. (1920) Munition Resources Commission, p. 183-184.

Jones, A.G. (1959) Vernon Map Area, B.C. G.S.C. Memoir 296

L. D. Lutjen (1989) Physical Report on the Platinum Giant Property.

Mitchell, J. A. (1967) Prospectus Report (unpublished), Anmar Mining, 9p.

Peter Peto (1983) Assessment Report #12055.

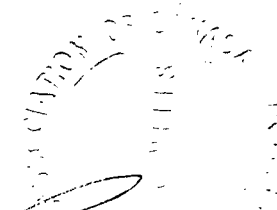


## STATEMENT OF QUALIFICATIONS

I, Ronald C. Wells of the City of Kamloops, British Columbia do hereby certify that:

1. I am a Fellow of the Geological Association of Canada.
2. I am a graduate of the University of Wales, U.K. B.Sc in Geology (1974), did post graduate (M.Sc) studies at Laurentian University, Sudbury, Ontario (1976-1977) in Geology.
3. That I am presently employed by Corona Corporation as a Regional Geologist based in Kamloops, B.C.
4. That I have practiced continuously as a geologist for more than eleven years throughout Canada and have past experience and employment as a geologist in Europe.

Signed and dated in Kamloops, British Columbia this 2<sup>nd</sup>  
day of April 1990.

  
*R. C. Wells*

## STATEMENT OF EXPENDITURES

The following expenses were incurred by Corona Corporation while working on the Platinum Giant Property, Kamloops Mining Division in 1989.

1.	Field Salaries		
	R. Wells	1 day @\$250 day	\$250.00
	R. Klassen	3 days @\$150 day	450.00
	D. Moraal	3 days @\$150 day	450.00
	P. Watt	2 days @\$150 day	300.00
	R. Lodmell	2 days @\$125 day	<u>250.00</u>
		Sub total	1700.00
2.	Transport	6 days @\$100	600.00
3.	Analytical Costs - Eco Tech Laboratories		975.00
4.	Report Costs - Writing, maps, reproduction		<u>1225.00</u>
		Total costs	\$4500.00

APPENDIX A  
STATEMENT OF WORK



Province of British Columbia  
 Ministry of Energy, Mines and Petroleum Resources  
 MINERAL RESOURCES DIVISION — TITLES BRANCH

Mineral Tenure Act  
 Sections 25, 26 & 27

STATEMENT OF WORK — CASH PAYMENT

DOCUMENT No. \_\_\_\_\_ OFFICE USE ONLY

**PAID**  
 200.00  
 JAN 26 1990  
 GOVERNMENT AGENT  
 KAMLOOPS  
 1000047  
 TRANS#RECORDING STAMP

Indicate type of title MINERAL  
(Mineral or Placer)

Mining Division KAMLOOPS

1. LARRY D. LUTJEN  
(Name)

Agent for "SAME"  
(Name)(s)

REI-BIZ-SII  
(Address)

(Address)

CHASE, B.C.

679-8022 VOEIMO  
(Telephone) (Postal Code)

(Telephone) (Postal Code)

Valid subsisting FMC No. 295095

Valid subsisting FMC No. \_\_\_\_\_

FMC Code LUTJLA

FMC Code \_\_\_\_\_

STATE THAT: (NOTE: If only paying cash in lieu, turn to reverse and complete columns G to J and Q to T.)

1. I have done, or caused to be done, work on the PLATINUM GIANT 1,  
PLATINUM GIANT 2, & PLATINUM GIANT 3 Claim(s)

Record No(s) 6909, 6910, & 7456

Work was done from 1st of JUNE, 1989, to 1st of OCTOBER, 1989;

and was done in compliance with Section 50 of the Mineral Tenure Act and

Section 19(3) of the Regulation YES  NO

I hereby request that the claims listed in Column G on this Statement of Work be Grouped and I confirm that all claims listed are contiguous YES  NO

FEE — \$10.00

**TYPE OF WORK**

**PHYSICAL:** Work such as trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails. Details as required under section 13 of the Regulations, including the map and cost statement, must be given on this statement.

**PROSPECTING:** Details as required under section 9 of the Regulations must be submitted in a technical report. Prospecting work can only be claimed once by the same owner of the ground, and only during the first three years of ownership.

**GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL, DRILLING:** Details must be submitted in a technical report conforming to sections 5 through 8 (as appropriate) of the Regulations.

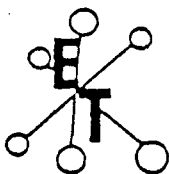
**PORTABLE ASSESSMENT CREDIT (PAC) WITHDRAWAL:** A maximum of 30% of the approved value of geological, geophysical, geochemical and/or drilling work on this statement may be withdrawn from the owner's or operator's PAC account and added to the work value on this statement.

TYPE OF WORK <small>(Specify Physical (include details), Prospecting, Geological, etc.)</small>	VALUE OF WORK		
	Physical	*Prospecting	*Geological etc.
<u>GEOLOGICAL, GEOPHYSICAL, AND GEOCHEMICAL (REPORT TO FOLLOW)</u>			<u>\$4,500.00</u>
<b>TOTALS</b>	A	+ B	+ <u>\$4,500.00</u> = D
<b>PAC WITHDRAWAL — Maximum 30% of Value in Box C Only</b>			E → E
from account(s) of _____			<b>TOTAL</b> <u>\$4,500</u>
* Who was the operator (provided the financing)? Name _____ Address _____ Phone: _____			

Transfer amount in Box F to reverse side of form and complete as required.



APPENDIX B  
LABORATORY ANALYTICAL PROCEDURES



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

## GEOCHEMICAL LABORATORY METHODS

### SAMPLE PREPARATION (STANDARD)

1. Soil or Sediment: Samples are dried and then sieved through 80 mesh nylon sieves.
2. Rock, Core: Samples dried (if necessary), crushed, riffled to pulp size and pulverized to approximately -140 mesh.

### METHODS OF ANALYSIS

All methods have either known or in-house standards carried through entire procedure to ensure validity of results.

1. Multi-Element Cd, Cr, Co, Cu, Fe (acid soluble),  
Pb, Mn, Ni, Ag, Zn, Mo

#### Digestion

Hot aqua-regia

#### Finish

Atomic Absorption, background correction applied where appropriate

#### A) Multi-Element ICP

#### Digestion

Hot aqua-regia

#### Finish

ICP

#### 2. Antimony

#### Digestion

Hot aqua regia

#### Finish

Hydride generation - A.A.S.

#### 3. Arsenic

#### Digestion

Hot aqua regia

#### Finish

Hydride generation - A.A.S.

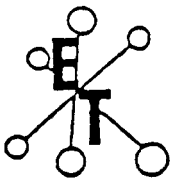
#### 4. Barium

#### Digestion

Lithium Metaborate Fusion

#### Finish

Atomic Absorption

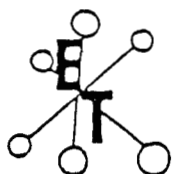


# ECO-TECH LABORATORIES LTD.

ASSAYING • ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

5. Beryllium	<u>Digestion</u>	<u>Finish</u>
	Hot aqua regia	Atomic Absorption
6. Bismuth	<u>Digestion</u>	<u>Finish</u>
	Hot aqua regia	Atomic Absorption
7. Chromium	<u>Digestion</u>	<u>Finish</u>
	Sodium Peroxide Fusion	Atomic Absorption
8. Fluorine	<u>Digestion</u>	<u>Finish</u>
	Lithium Metaborate Fusion	Ion Selective Electrode
9. Mercury	<u>Digestion</u>	<u>Finish</u>
	Hot aqua regia	Cold vapor generation - A.A.S.
10. Phosphorus	<u>Digestion</u>	<u>Finish</u>
	Lithium Metaborate Fusion	I.C.P. finish
11. Selenium	<u>Digestion</u>	<u>Finish</u>
	Hot aqua regia	Hydride generation - A.A.S.
12. Tellurium	<u>Digestion</u>	<u>Finish</u>
	Hot aqua regia Potassium Bisulphate Fusion	Hydride generation - A.A.S. Colorimetric or I.C.P.





# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 673-6700 Fax 673-4667

## 13. Tin

### Digestion

Ammonium Iodide Fusion

### Finish

Hydride generation - A.A.S.

## 14. Tungsten

### Digestion

Potassium Bisulphate Fusion

### Finish

Colorimetric or I.C.P.

## 15. Gold

### Digestion

Fire Assay Preconcentration  
followed by Aqua Regia

### Finish

Atomic Absorption

## 16. Platinum, Palladium, Rhodium

### Digestion

Fire Assay Preconcentration  
followed by Aqua Regia

### Finish

Graphite Furnace - A.A.S.

# WHOLE ROCK ANALYSIS

## PROCEDURE:

Preheat muffler to 1050°C.

Weigh 0.10 g of sample into a test tube.

Add 0.50 g of Lithium Metaborate ( $\text{LiBO}_2$ ).

Vortex.

Transfer samples to graphite crucibles.

Fuse samples for 30 minutes.

While samples are fusing - prepare plastic containers by adding 100 ml of 4%  $\text{HNO}_3$ .

After samples are fused, pour them into the labelled plastic containers.

Shake on the soil shaker for 30 minutes or until sample is dissolved, some black residue (graphite) will remain.

Make sure the silica is dissolved (Silica looks cloudy and slimy).

\*\* Add 1 ml Hydrofluoric Acid (HF). Swirl.

Add 4 ml of 30% Boric Acid ( $\text{H}_3\text{BO}_3$ ). Swirl and let sit a few minutes.

Be sure to prepare a blank with the same acid matrix as the samples.

## REAGENTS:

Lithium Metaborate ( $\text{LiBO}_2$ )

Hydrofluoric Acid (HF)

30% Boric Acid ( $\text{H}_3\text{BO}_3$ )

(Prepare Boric Acid ahead of time - it takes awhile to dissolve).

## ICP SET UP:

### WR STANDARD #1

Si 250 ppm = 53.47%  $\text{SiO}_2$   
Al 100 ppm = 18.89%  $\text{Al}_2\text{O}_3$   
Fe 150 ppm = 21.45%  $\text{Fe}_2\text{O}_3$   
Mg 150 ppm = 19.99%  $\text{MgO}$   
Ca 300 ppm = 41.97%  $\text{CaO}$   
Ti 50 ppm = 8.34%  $\text{TiO}_2$   
P 10 ppm = 2.29%  $\text{P}_2\text{O}_5$   
Mn 50 ppm = 6.46%  $\text{MnO}$

### WR STANDARD #2

Na 50 ppm = 13.48%  $\text{Na}_2\text{O}$   
K 50 ppm = 12.05%  $\text{K}_2\text{O}$

\*\*

HANDLE HF WITH CARE

(ie: rubber gloves, safety glasses)

## WHOLE ROCK - ICP FINISH

Sample is fused with Lithium Metaborate. The fusion pellet is dissolved in 4% HNO<sub>3</sub>. Hydrofluoric acid and Boric acid is added. Sample is bulked up to known volume and run on ICP.

**TROUBLE SHOOTING:**

Measure HF using plastic test tube, don't let it come in contact with glassware.

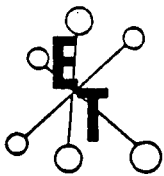
Be sure samples are vortexed before transferring to graphite crucibles.

Make sure samples have been fused properly.

Be sure to replace all tubing and clean the spray chamber, nebulizer and torch complete after analysis. (rinse with reagent alcohol then plenty of distilled H<sub>2</sub>O and blow dry)

All the percentages added together for each sample should equal 100%. If results are out +/- 10% the numbers can be adjusted. If results are out by more than 10% - run again.

APPENDIX C  
ASSAY AND GEOCHEMICAL CERTIFICATES  
WHOLE ROCK ANALYSIS



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

JUNE 22, 1989

## CERTIFICATE OF ANALYSIS ETK 89-301

=====

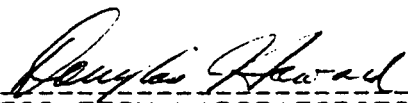
CORONA CORPORATION  
#1440, 800 WEST PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

ATTENTION: DARREL JOHNSON

SAMPLE IDENTIFICATION: 18 ROCK samples received JUNE 15, 1989  
-----  
PROJECT: 1010 - 890020  
SHIPMENT: 1010 PG  
WHOLE ROCK ANALYSIS TO FOLLOW

ET#	Description	AU (ppb)
301 - 1	79101	<5
301 - 2	79102	<5
301 - 3	79103	<5
301 - 4	79104	<5
301 - 5	79105	<5
301 - 6	79106	5
301 - 7	79107	<5
301 - 8	79108	40
301 - 9	79109	5
301 - 10	79110	<5
301 - 11	79111	5
301 - 12	79112	5
301 - 13	79113	<5
301 - 14	79114	25
301 - 15	79115	<5
301 - 16	79116	<5
301 - 17	79117	<5
301 - 18	79118	<5

NOTE: < = LESS THAN

  
-----  
ECO-TECH LABORATORIES LTD.  
DOUG HOWARD  
B.C. CERTIFIED ASSAYER

cc: RON WELLS  
KAMLOOPS, B.C.  
FAX: KAMLOOPS  
SC89/LAC1

ECO-TECH LABORATORIES LTD.

CORONA CORPORATION - ETK 89-301A

10041 EAST TRANS CANADA HWY.  
 KAMLOOPS, B.C. V2C 2J3  
 PHONE - 604-573-5700  
 FAX - 604-573-4557

1440, 800 WEST PENDER STRETT  
 VANCOUVER, B.C. V6C 2V6  
 ATTENTION: D. JOHNSON

JUNE 22, 1989

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT #1010 P.O. #090020

PAGE 1

18 ROCK SAMPLES RECEIVED JUNE 15, 1989

ETK#	DESCRIPTIONS	AG	AL(Z)	AS	B	BA	BI	CA(Z)	CD	CO	CR	CU	FE(Z)	K(Z)	LA	MG(Z)	MN	MO	NA(Z)	NI	P	PB	SB	SN	SR	TI(Z)	U	V	W	Y	ZN
301 A-	1 79101	.4	.26	20	<2	40	<5	.53	1	4	83	17	1.30	.11	10	.11	505	3	.08	8	210	4	<5	<20	104	.02	<10	15	<10	5	33
301 A-	2 79102	.2	.39	15	<2	35	<5	.34	<1	3	136	14	1.12	.17	<10	.10	362	6	.09	8	160	10	<5	<20	75	.01	<10	13	20	3	26
301 A-	3 79103	.8	.44	25	<2	60	<5	1.10	1	4	141	18	1.70	.16	10	.18	1202	10	.09	13	350	24	5	<20	189	<.01	10	26	<10	8	46
301 A-	4 79104	1.4	.71	25	<2	160	<5	.72	2	5	100	31	1.52	.41	10	.17	546	5	.16	9	240	14	5	<20	212	.01	20	14	10	5	54
301 A-	5 79105	4.0	.82	20	<2	190	5	1.18	1	4	102	22	1.33	.38	10	.10	535	7	.27	9	220	28	5	<20	262	<.01	20	13	30	5	58
301 A-	6 79106	2.6	.74	30	<2	100	10	1.25	2	6	102	33	2.07	.13	10	.12	865	7	.05	14	240	30	5	<20	119	<.01	30	17	<10	9	99
301 A-	7 79107	9.6	.52	60	<2	75	10	2.64	5	4	125	19	1.54	.09	10	.13	1133	10	.04	9	100	196	5	<20	334	<.01	30	6	10	6	175
301 A-	8 79108	<.2	.29	355	<2	40	70	.13	110	<1	93	1883	4.60	.16	<10	.03	408	8	.05	4	1030	>10000	1865	3120	139	<.01	30	5	90	4	3537
301 A-	9 79109	11.4	.41	85	<2	85	<5	.75	5	7	124	80	2.96	.19	10	.15	485	9	.06	12	370	1284	20	20	109	.01	20	14	<10	7	309
301 A-	10 79110	11.6	.32	105	<2	95	<5	.74	4	7	107	44	3.12	.14	10	.06	498	10	.06	10	290	568	20	60	113	<.01	10	10	<10	6	228
301 A-	11 79111	21.4	.39	130	<2	75	<5	.25	8	6	128	112	2.69	.18	10	.06	758	11	.07	9	220	746	25	300	97	<.01	20	8	10	5	381
301 A-	12 79112	16.6	.35	70	<2	80	<5	.32	29	5	143	243	1.93	.12	<10	.03	1344	10	.05	10	230	594	5	280	121	<.01	20	6	30	5	1333
301 A-	13 79113	1.0	.47	35	<2	70	<5	.19	7	5	113	28	1.64	.09	10	.04	962	10	.04	13	190	32	<5	<20	68	<.01	10	11	<10	7	325
301 A-	14 79114	108.4	.05	570	<2	25	5	.01	513	<1	202	1897	5.17	.03	<10	<.01	88	30	.05	4	1540	9494	155	1720	88	<.01	30	2	710	4	>10000
301 A-	15 79115	21.4	.27	115	14	170	<5	.18	23	3	123	44	1.20	.19	<10	.03	591	11	.05	4	160	732	20	120	52	<.01	20	3	20	2	957
301 A-	16 79116	20.4	.44	80	<2	195	20	.58	3	4	194	18	2.35	.28	<10	.01	224	12	.11	6	80	236	5	<20	125	<.01	20	5	10	3	177
301 A-	17 79117	.2	.16	5	<2	70	<5	.02	<1	2	98	7	.69	.08	<10	<.01	391	8	.07	4	40	6	<5	<20	116	<.01	30	5	<10	1	20
301 A-	18 79118	.4	.20	5	<2	105	<5	.01	<1	3	100	7	1.14	.12	<10	<.01	877	7	.08	6	40	6	<5	<20	85	<.01	20	4	<10	1	11

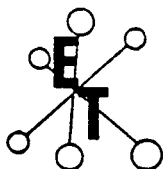
NOTE: < = LESS THAN

CC: RON WELLS  
 KAMLOOPS, B.C.  
 FAX



ECO-TECH LABORATORIES LTD.  
 DOUG HOWARD  
 B.C. CERTIFIED ASSAYER

SC89/LAC1



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

JUNE 27, 1989

## CERTIFICATE OF ANALYSIS ETK 89-301B

=====

CORONA CORPORATION  
#1440, 800 WEST PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

ATTENTION: DARREL JOHNSON

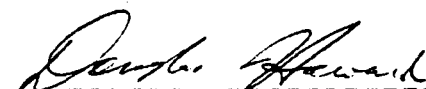
SAMPLE IDENTIFICATION: 18 ROCK samples received JUNE 15, 1989

----- PROJECT: 1010 - 890020

SHIPMENT: 1010 PG

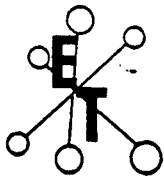
WHOLE ROCK ANALYSIS TO FOLLOW

ET#	Description	AG (g/t)	PB (%)	ZN (%)	SN (%)	SB (%)
301 - 8	79108	--	13.65	--	.58	.17
301 - 14	79114	88.5	.69	2.12	.13	--

  
-----  
ECO-TECH LABORATORIES LTD.  
DOUG HOWARD  
B.C. CERTIFIED ASSAYER

cc: RON WELLS  
KAMLOOPS, B.C.  
FAX: KAMLOOPS  
SC89/LAC1





# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

JUNE 29, 1989

CERTIFICATE OF ANALYSIS ETK 89-301A  
=====


CORONA CORPORATION  
#1440, 800 WEST PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

ATTENTION: DARREL JOHNSON

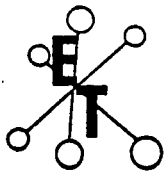
SAMPLE IDENTIFICATION: 18 ROCK samples received JUNE 15, 1989  
-----PROJECT: 1010 - 890020  
SHIPMENT: 1010 PS

ET#	Description	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O
301 - 18	79118	70.01	15.58	1.10	.02	.08	5.18

ET#	Description	K2O	P2O5	TiO2	MnO	L.O.I.
301 - 18	79118	7.41	.02	.09	.08	.43

  
ECO-TECH LABORATORIES LTD.  
DOUG HOWARD  
B.C. CERTIFIED ASSAYER

cc: RON WELLS  
KAMLOOPS, B.C.  
FAX: KAMLOOPS  
SC89/LAC1



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

JULY 5, 1989

## CERTIFICATE OF ANALYSIS ETK 89-378

=====

CORONA CORPORATION  
#1440, 800 WEST PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

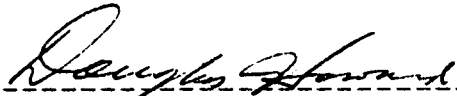
ATTENTION: DARREL JOHNSON

SAMPLE IDENTIFICATION: 19 ROCK samples received JUNE 18, 1989

-----  
PROJECT: 1010

ICP TO FOLLOW

ET#	Description	Au (ppb)
378 - 1	79120	15
378 - 2	79121	15
378 - 3	79122	10
378 - 4	79123	10
378 - 5	79124	10
378 - 6	79125	10
378 - 7	79126	15
378 - 8	79127	10
378 - 9	79128	15
378 - 10	79129	20
378 - 11	79130	20
378 - 12	79131	25
378 - 13	79132	35
378 - 14	79133	15
378 - 15	79134	5
378 - 16	79135	10
378 - 17	79136	10
378 - 18	79137	15
378 - 19	79138	10

  
-----  
ECO-TECH LABORATORIES LTD.  
DOUG HOWARD  
B.C. Certified Assayer

cc: RON WELLS  
101-2985 AIRPORT RD.  
KAMLOOPS, B.C.

FAX: KAMLOOPS  
SC89/LAC2

ECO-TECH LABORATORIES LTD.

CORONA CORPORATION - ETK 89-378A

10041 EAST TRANS CANADA HWY.  
 KAMLOOPS, B.C. V2C 2J3  
 PHONE - 604-573-5700  
 FAX - 604-573-4557

1440, 800 WEST PENDER STRETT  
 VANCOUVER, B.C. V6C 2V6  
 ATTENTION: D. JOHNSON

JULY 17, 1989

VALUES IN PPM UNLESS OTHERWISE REPORTED


PROJECT 81010

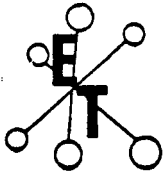
19 ROCK SAMPLES RECEIVED JUNE 19, 1989

ETK#	DESCRIPTIONS	AG	AL(Z)	AS	B	BA	BI	CA(Z)	CD	CO	CR	CU	FE(Z)	K(Z)	LA	MG(Z)	MN	MO	NA(Z)	NI	P	PB	SB	SN	SR	TI(Z)	U	V	W	Y	ZN
378 A- 1	79120	.4	.13	10	12	30	<5	.37	1	2	215	11	.60	.07	<10	.07	132	15	.04	5	20	6	<5	<20	27	<.01	10	2	<10	1	11
378 A- 2	79121	.6	.21	25	8	50	<5	.44	<1	4	167	18	1.43	.11	<10	.08	454	13	.08	8	120	6	<5	<20	48	<.01	10	8	<10	3	12
378 A- 3	79122	.4	.11	5	10	20	<5	.32	8	2	244	11	.52	.07	<10	.07	130	19	.04	6	20	2	<5	<20	24	<.01	30	3	<10	1	236
378 A- 4	79123	.2	.05	<5	8	305	<5	.36	<1	3	259	18	.73	.03	<10	.09	176	22	.04	8	190	<2	<5	<20	41	<.01	20	2	<10	1	11
378 A- 5	79124	.4	.13	10	10	55	<5	1.63	1	3	205	14	.92	.07	<10	.15	443	14	.06	7	160	4	<5	<20	113	.01	20	8	<10	4	33
378 A- 6	79125	.2	.05	5	2	10	<5	.16	<1	2	158	21	.58	.02	<10	.07	157	13	.04	5	20	2	<5	<20	13	<.01	10	1	<10	2	3
378 A- 7	79126	.4	.16	<5	2	25	<5	5.19	<1	6	144	18	1.59	.02	<10	.46	882	8	.03	10	80	8	<5	<20	197	<.01	30	2	<10	8	12
378 A- 8	79127	.8	.33	45	2	70	<5	3.76	<1	6	92	26	1.89	.20	<10	.33	1740	4	.11	10	200	8	<5	<20	335	<.01	30	13	10	10	16
378 A- 9	79128	18.8	.06	10	18	15	100	.54	<1	1	174	9	.52	.05	<10	.07	85	11	.04	4	20	54	<5	<20	25	<.01	10	2	<10	1	26
378 A- 10	79129	102.8	.15	245	12	20	50	1.09	142	1	122	590	2.81	.12	<10	.18	1276	4	.03	5	400	8016	<5	<20	98	<.01	30	3	180	2	6244
378 A- 11	79130	5.4	.09	385	8	10	<5	.62	174	6	139	72	4.38	.09	<10	.13	1597	<1	.03	9	160	423	<5	<20	61	<.01	10	1	220	3	7745
378 A- 12	79131	88.8	.36	435	4	20	40	1.15	88	2	125	408	3.86	.45	<10	.06	50	4	.04	5	280	8816	<5	<20	86	<.01	<10	1	130	2	4043
378 A- 13	79132	41.0	.36	625	<2	10	5	3.40	>1000	3	99	811	4.99	.42	<10	.52	>10000	<1	.04	7	800	2064	<5	<20	160	<.01	90	4	1650	131.0E+0	
378 A- 14	79133	151.8	.15	315	2	60	35	.81	22	1	237	296	2.30	.17	<10	.06	75	10	.03	3	170	>10000	20	<20	129	<.01	20	2	10	2	927
378 A- 15	79134	1.2	.87	20	6	250	<5	3.09	1	4	134	26	1.78	.47	<10	.13	830	7	.20	9	90	50	<5	<20	302	<.01	20	16	<10	8	112
378 A- 16	79135	1.0	.75	10	4	190	<5	1.49	2	5	124	29	1.50	.32	<10	.18	464	8	.17	10	300	36	<5	<20	299	<.01	10	20	<10	8	59
378 A- 17	79136	.8	.29	20	6	55	<5	.60	2	4	150	23	1.70	.10	<10	.11	262	8	.05	8	130	6	<5	<20	65	<.01	30	10	<10	2	62
378 A- 18	79137	.4	.19	5	10	40	<5	.32	1	5	94	14	1.51	.06	<10	.12	737	5	.04	9	250	6	<5	<20	76	<.01	10	14	<10	4	36
378 A- 19	79138	.6	.18	10	8	40	<5	.26	2	3	113	15	1.07	.06	<10	.10	445	6	.05	5	80	8	<5	<20	71	<.01	20	6	<10	1	28

NOTE: < = LESS THAN

CC: ROM WELLS  
 KAMLOOPS, B.C.  
 FAX  
 SC89/LAC2

  
 ECO-TECH LABORATORIES LTD.  
 DOUG HOWARD  
 B.C. CERTIFIED ASSAYER



**ECO-TECH LABORATORIES LTD.**

**ASSAYING - ENVIRONMENTAL TESTING**

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 6, 1989

CERTIFICATE OF ANALYSIS ETK 89-685  
=====

CORONA CORPORATION  
#1440, 800 WEST PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

ATTENTION: DARREL JOHNSON

SAMPLE IDENTIFICATION: 5 ROCK CHIP samples received August 31, 1989

----- PROJECT: 1010

P.O. NO.: 89-030

ET#	Description	Au (ppb)
685 - 1	SA 2 ROCK	40
685 - 2	SA 6 ROCK	35
685 - 3	SA 7 ROCK	40
685 - 4	SA 7 R	30
685 - 5	SA 1 ROCK	25

-----  
ECO-TECH LABORATORIES LTD.

DOUG HOWARD

B.C. Certified Assayer

cc: RON WELLS  
FAX: KAMLOOPS  
SC89/LAC2

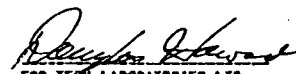
Eco-Tech Laboratories Ltd.  
 10041 E. Trans Canada Hwy.  
 Kamloops, B.C.  
 V2C 2J3  
 September 21, 1989

CORONA CORPORATION  
 1440 - 800 West Pender St.  
 Vancouver, B.C.  
 V6C 2V6  
 ATTN: Darrel Johnson

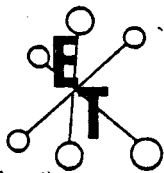
CERTIFICATE OF ANALYSIS ETK 89-685A  
 5 Rock Chip Samples, received August 31/89  
 Project: 1010  
 P.O. No: 89-030  
 All values in PPM unless otherwise reported

ETK	DESCRIPTION	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	Ti	U	V	W	Y	Zn
685.1	SA 2 ROCK	46.5	0.26	12	20	47	513	0.54	< 1	1	231	13	0.49	0.23	< 10	0.02	84	14	0.01	6	14	302	< 5	< 20	62	< .01	< 10	1	< 10	< 1	76
685.2	SA 6 ROCK	2.4	0.12	29	13	23	< 5	0.01	< 1	1	239	5	0.89	0.09	< 10	< .01	42	19	0.02	5	18	16	< 5	< 20	29	< .01	< 10	2	< 10	< 1	21
685.3	SA 7 ROCK	< .2	0.25	< 5	15	35	7	7.51	< 1	3	178	13	1.05	0.15	< 10	0.31	988	11	< .01	6	60	15	38	< 20	460	0.02	< 10	12	< 10	7	24
685.4	SA 7 R	1.2	0.43	21	17	68	6	0.50	< 1	2	231	11	0.73	0.36	< 10	0.05	305	15	0.03	6	23	23	6	< 20	96	< .01	< 10	5	< 10	< 1	35
685.5	SA 1 ROCK	< .2	0.36	9	8	25	< 5	0.18	< 1	4	209	18	1.94	0.18	< 10	0.10	104	10	0.01	9	135	39	< 5	< 20	32	< .01	< 10	6	< 10	1	77

NOTE: < = less than

  
 ECO-TECH LABORATORIES LTD.  
 DOUG HOWARD  
 B.C. CERTIFIED ASSAYER

cc: Ron Wells  
 FAT: Kamloops



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 7, 1989

## CERTIFICATE OF ANALYSIS ETK 89-686

=====

CORONA CORPORATION  
#1440, 800 WEST PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

ATTENTION: DARREL JOHNSON

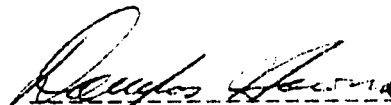
SAMPLE IDENTIFICATION: 14 SILT samples received August 31, 1989

----- PROJECT: 1010(SA)

P.O. NO.: 89-030

ET#	Description	Au (ppb)
686 - 1	SA 1 A	5
686 - 2	SA 2 A	5
686 - 3	SA 3 A	5
686 - 4	SA 4 A	5
686 - 5	SA 5 A	5
686 - 6	SA 8 A 08 B	5
686 - 7	SA 9 A	5
686 - 8	SA 10 A	5
686 - 9	SA 11 A	5
686 - 10	SA 12 A	5
686 - 11	SA 13 A	5
686 - 12	SA 14 A	<5
686 - 13	SA 15 A	5
686 - 14	SA 16 A	5

NOTE: < = less than

  
-----  
ECO-TECH LABORATORIES LTD.  
DOUG HOWARD  
B.C. Certified Assayer

cc: RON WELLS  
KAMLOOPS, B.C.  
FAX: KAMLOOPS  
SC89/LAC2

Eco-Tech Laboratories Ltd.  
 10041 E. Trans Canada Hwy.  
 Kamloops, B.C.  
 V2C 2J3  
 September 18, 1989


CORONA CORPORATION  
 1440 - 800 W. Pender St.  
 Vancouver, B.C.  
 V6C 2V6  
 ATTN: Barrel Johnson

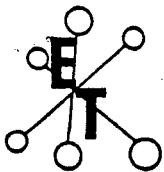
CERTIFICATE OF ANALYSIS ETK 89-686A  
 14 Silt Samples, received August 31/89  
 Project: 1010 (SA)  
 P.O. No: 89-030  
 All values in PPM unless otherwise reported

ETK	DESCRIPTION	Ag	AlZ	As	B	Ba	Bi	CaZ	Cd	Co	Cr	Cu	FeZ	KZ	La	MgZ	Mn	Mo	NbZ	Ni	P	Pb	Sb	Se	Sr	TiZ	U	V	W	Y	Zn
686.1	SA 1 A	<.2	0.53	< 5	7	38	< 5	0.33	< 1	8	13	9	1.21	0.13	< 10	0.33	267	< 1	<.01	11	401	7	< 5	< 20	50	0.04	< 10	18	< 10	4	29
686.2	SA 2 A	<.2	0.56	10	9	40	12	0.32	< 1	7	14	9	1.26	0.14	< 10	0.34	242	< 1	<.01	10	450	6	9	< 20	50	0.04	< 10	19	< 10	4	32
686.3	SA 3 A	<.2	0.54	< 5	8	32	< 5	0.32	< 1	8	13	9	1.28	0.13	< 10	0.33	235	< 1	<.01	11	465	6	5	< 20	39	0.04	< 10	18	< 10	5	30
686.4	SA 4 A	<.2	0.50	< 5	6	34	< 5	0.34	< 1	8	12	9	1.18	0.12	< 10	0.30	271	< 1	<.01	11	398	8	13	< 20	47	0.04	< 10	17	< 10	5	30
686.5	SA 5 A	<.2	0.48	< 5	10	30	6	0.35	< 1	8	12	9	1.28	0.13	< 10	0.30	193	< 1	<.01	11	491	4	< 5	< 20	34	0.04	< 10	16	< 10	4	27
686.6	SA 8 A 08 B	<.2	0.72	6	9	46	< 5	0.37	< 1	10	21	11	1.66	0.16	15	0.45	308	< 1	<.01	18	534	10	6	< 20	49	0.06	< 10	27	< 10	6	38
686.7	SA 9 A	<.2	0.76	< 5	10	45	9	0.43	< 1	11	22	13	1.79	0.18	17	0.48	339	< 1	<.01	18	576	10	7	< 20	50	0.06	< 10	26	< 10	6	49
686.8	SA 10 A	<.2	0.81	< 5	9	44	6	0.47	< 1	12	23	14	1.93	0.20	18	0.51	303	< 1	<.01	19	650	9	6	< 20	49	0.06	< 10	26	< 10	7	42
686.9	SA 11 A	0.2	0.77	13	10	43	10	0.55	< 1	12	22	15	1.97	0.19	17	0.49	313	< 1	<.01	20	625	11	10	< 20	59	0.05	< 10	24	< 10	6	52
686.10	SA 12 A	<.2	0.84	< 5	9	46	6	0.58	< 1	13	23	16	2.07	0.22	19	0.55	331	< 1	<.01	22	588	12	< 5	< 20	60	0.06	< 10	26	< 10	7	54
686.11	SA 13 A	<.2	0.72	< 5	10	39	12	0.53	< 1	12	20	15	1.82	0.17	17	0.46	296	< 1	<.01	20	530	10	6	< 20	59	0.05	< 10	23	10	6	51
686.12	SA 14 A	<.2	0.91	< 5	10	43	< 5	0.46	< 1	11	22	16	1.97	0.20	17	0.49	305	< 1	<.01	15	572	7	< 5	< 20	44	0.05	< 10	25	< 10	7	45
686.13	SA 15 A	<.2	0.89	< 5	14	41	10	0.93	< 1	12	24	17	2.07	0.17	18	0.58	341	< 1	<.01	20	600	9	8	< 20	62	0.05	< 10	26	< 10	7	36
686.14	SA 16 A	<.2	0.97	< 5	11	45	< 5	0.81	< 1	13	27	17	2.19	0.19	18	0.62	363	< 1	<.01	20	677	7	< 5	< 20	59	0.06	< 10	28	< 10	7	44

NOTE: < = less than

cc: Ron Wells  
 Kamloops, B.C.  
 FAX: Kamloops

  
 ECO-TECH LABORATORIES LTD.  
 DOUG HOWARD  
 B.C. CERTIFIED ASSAYER



# ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING  
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

September 6, 1989

## CERTIFICATE OF ANALYSIS ETK 89-687

=====

CORONA CORPORATION  
#1440, 600 WEST PENDER STREET  
VANCOUVER, B.C.  
VEC 2V6

ATTENTION: DARREL JOHNSON

SAMPLE IDENTIFICATION: 14 PAN CON samples received August 31, 1989

-----PROJECT: 1010(SA) P.O. #69-030

ICP RESULTS TO FOLLOW

ET#	Description	Au (ppb)
687 - 1	SA 1 B	10
687 - 2	SA 2 B	5
687 - 3	SA 3 B	5
687 - 4	SA 4 B	5
687 - 5	SA 5 B	5
687 - 6	SA 7 B	5
687 - 7	SA 9 B	<5
687 - 8	SA 10 B	5
687 - 9	SA 11 B	5
687 - 10	SA 12 B	5
687 - 11	SA 13 B	5
687 - 12	SA 14 B	5
687 - 13	SA 15 B	5
687 - 14	SA 16 B	5

Note: < = less than

cc: RON WELLS  
KAMLOOPS, B.C.  
FAX: KAMLOOPS  
5089/LAC1

ECO-TECH LABORATORIES LTD.  
DOUG HOWARD  
B.C. CERTIFIED ASSAYER



Eco-Tech Laboratories Ltd.  
10041 E. Trans Canada Hwy.  
Kamloops, B.C.  
V2C 2J3  
September 19, 1989

CORONA CORPORATION  
1440 - 800 W. Pender St.  
Vancouver, B.C.  
V6C 2W6  
ATTN: Barrel Johnson

CERTIFICATE OF ANALYSIS ETK 89-687A  
14 Pan Con Samples, received August 31/89  
Project: 1010 SA  
P.O. No: 89 - 030  
All values in PPM unless otherwise reported

ETK	DESCRIPTION	Ag	AlZ	As	B	Ba	Bi	CaZ	Cd	Co	Cr	Cu	FeZ	KZ	La	MgZ	Mn	Mo	NaZ	Ni	P	Pb	Sb	Se	Sr	TiZ	U	V	W	Y	Zn
687.1	SA 1 B	<.2	0.72	15	5	76	< 5	0.53	< 1	10	118	11	1.86	0.14	16	0.47	349	6	0.02	12	674	6	8	< 20	86	0.06	< 10	30	< 10	6	31
687.2	SA 2 B	<.2	0.67	< 5	5	60	< 5	0.51	< 1	10	113	11	1.76	0.12	15	0.45	318	6	0.02	14	697	6	15	< 20	84	0.06	< 10	29	14	6	29
687.3	SA 3 B	<.2	0.64	19	8	57	12	0.45	< 1	10	107	10	1.73	0.13	14	0.42	313	5	0.02	13	573	5	16	< 20	73	0.05	< 10	28	11	6	29
687.4	SA 4 B	<.2	0.69	31	7	66	< 5	0.44	< 1	10	125	11	1.72	0.13	15	0.44	340	5	0.02	13	607	5	20	< 20	88	0.06	< 10	28	< 10	5	31
687.5	SA 5 B	<.2	0.62	22	6	47	< 5	0.70	< 1	12	112	11	1.72	0.14	13	0.40	322	7	0.02	13	527	6	< 5	< 20	66	0.05	< 10	25	11	5	29
687.6	SA 7 B	<.2	0.67	< 5	7	52	8	0.31	< 1	11	157	12	1.80	0.15	14	0.39	336	6	0.02	19	460	6	13	< 20	60	0.05	< 10	27	< 10	5	31
687.7	SA 9 B	<.2	0.64	24	8	41	18	0.34	< 1	11	118	11	1.77	0.16	14	0.37	319	7	0.01	15	406	5	< 5	< 20	48	0.04	< 10	22	< 10	4	30
687.8	SA 10 B	<.2	0.64	22	7	43	9	0.51	< 1	11	130	13	1.91	0.16	14	0.36	332	6	0.01	16	365	7	< 5	< 20	51	0.04	< 10	21	< 10	4	31
687.9	SA 11 B	<.2	0.63	9	8	59	19	0.61	< 1	10	156	12	1.82	0.17	13	0.36	350	10	0.01	15	360	12	< 5	21	62	0.04	< 10	21	< 10	4	33
687.10	SA 12 B	<.2	0.61	< 5	9	51	8	0.59	< 1	9	109	11	1.72	0.17	12	0.35	303	5	0.01	13	368	6	< 5	< 20	58	0.04	< 10	20	< 10	4	32
687.11	SA 13 B	<.2	0.62	45	9	66	11	0.60	< 1	10	151	12	1.85	0.17	13	0.37	328	8	0.01	15	389	10	8	< 20	63	0.04	< 10	21	< 10	4	34
687.12	SA 14 B	<.2	1.02	27	4	86	9	2.53	< 1	13	111	26	2.39	0.30	19	0.65	592	5	0.01	19	430	6	9	< 20	135	0.05	< 10	25	< 10	6	80
687.13	SA 15 B	<.2	0.94	< 5	7	52	< 5	1.19	< 1	13	123	18	2.54	0.24	16	0.61	393	5	0.01	21	390	5	5	< 20	71	0.04	< 10	26	< 10	5	34
687.14	SA 16 B	<.2	1.03	20	7	44	< 5	1.03	< 1	14	122	19	2.71	0.24	17	0.67	415	5	0.01	23	493	5	17	< 20	68	0.05	< 10	30	< 10	5	37

NOTE: < = less than

cc: Ron Wells  
Kamloops, B.C.  
FAI: Kamloops

  
EKO-TECH LABORATORIES LTD.  
DOUG HOWARD  
B.C. CERTIFIED ASSAYER

APPENDIX D  
SAMPLE DESCRIPTIONS

TABLE 2 PLATINUM GIANT SAMPLING

Taken: June 14, 1989

To: Eco Tech June 15, 1989

SAMPLE NO. CORONA	NO. ECO TECH	LOCATION	CHIP SAMPLE (m)	DESCRIPTION
1.0	79101	0E 12.5S	REP.	Highly siliceous, parting with coarse py & elongate tabular wolframite xstal?
1.1	79102	" "	1.0	Silicified white/grey coarse grained altered alb? granite
2.1	79103	0E 25.0S	1.25	Similar to above linear fracture sets with sulfides.
2.2	79104	" "	1.70	As above & qtz vein (milky) dissem & fracture control sulfide.
2.3	79105	" "	1.25	As above, much qtz veining.
3.1	79106	Trench at 1+85E	2.0	Carbonate metaseds & conc. qtz minor py
3.2	79107	"	2.2	At contact between metaseds and rubbly sil greisen
3.3	79108	"	2.0	Rubbly greisen & qtz & galena vein
3.4	79109	"	2.0	Mixed micaceous sed & greisen (faulted in block?)
3.5	79110	"	2.0	Contact of above with greisen.
3.6	79111	"	2.0	Rubbly greisen & qtz & gal & sph.
3.7	79112	"	2.0	" "
3.8	79113	"	1.5	Milky qtz veins in highly fractured silicified sparse sulfides.
4.1	79114	2+10E 0+25S	mineralized qtz vein boulder	Qtz cutting sil/greisen 5% gal 5% patchy dissem. py
5.1	79115	Miller Adit	2.0 chip	Above adit qtz veins & sil metaseds? seams of fine gal?
5.2	79116	" Dump	grab	Qtz vein material with clots of coarse py
6.1	79117	Other road 500W 200N	character	Albitic granite-silicified. ICP
6.2	79118	" "	"	Whole Rock Analysis

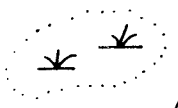
TABLE 3 PLATINUM GIANT SAMPLING

Taken: June 14, 1989

To: Eco Tech June 27, 1989

SAMPLE NO.	LOCATION	DESCRIPTION
CORONA	ECO TECH	
1.1	79120 Bend in road above Miller Adit	White qtz vein in greisen, float.
1.2	79121 N side of road at grid coor. 109S, 081E	Dark grey qtz in greisen, py, float
1.3	79122 N side of road at 370m from BL	White qtz in greisen. St. 034 deg., dip 56 deg. E.
1.4	79123 N side of road at 385m from BL	Grey/opaque qtz vein in greisen. St. 124 deg., dip 56 deg.
1.5	79124 N side of road at 475m from BL	Grey/translucent qtz vein in greisen. F.g. diss. py, high S.G.
1.6	79125 N side of road at 525m from BL	Same as 79124.
1.7	79126 N side of road at 665m from BL	White qtz vein float in greisen, f.g. diss py.
1.8	79127 N side of road at 15W, 172S	Grey qtz vein float, py blebs to 3mm.
2.1	79128 E side of trench road at 121E, 100S	Rusty/white brecciated qtz float.
2.2	79129 Bench at Tr.2 196E, 010S	Dump material of qtz & py, cpy, gal, sphl. 70% in bag.
2.3	79130 E side of trench road 207E, 003S	Qtz vein cutting greisen float.
2.4	79131 E side of trench road 212E, 003N	White to grey qtz float, py, cpy.
3.1	79132 188E, 000	Qtz float veins & gal, cpy, py cutting greisen.
3.2	79133 179E, 000	Qtz float & diss./bleb, cpy, py, gal.
4.1	79134 Tr. 5	Grey /translucent qtz vein float, f.g. diss. py.
4.2	79135 Tr. 5	Sil'd greisen, fine qtz stringers, blebby py, sericite.
4.3	79136 Tr. 6	Qtz breccia zones in greisen. St. 106 deg. Dip 76 N.
4.4	79137 Tr. 6	Sil'd greisen with rusty qtz veins.
4.5	79138 Tr. 4	Highly silicified, greisen, qtz veins, sericite.

APPENDIX E  
LARGE FIGURES AND PLANS



PLATINUM  
GIANT 1

PLATINUM  
GIANT 2

Rd. 4698  
To Salmon Arm

Foothill  
Adit

Whitecliff  
Adit

Hobson Cr.

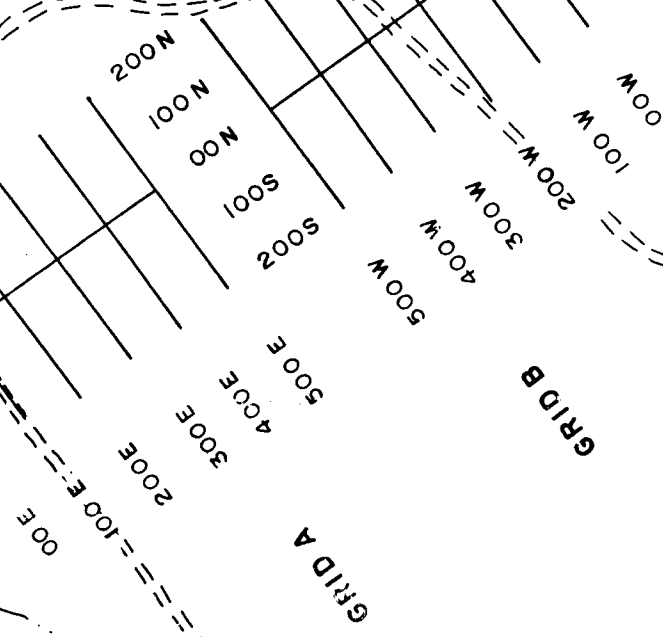
Leopard Cr.

Bonnie Brae  
Adit

Miller  
Adit


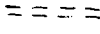
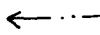
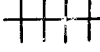

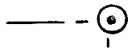
PLATINUM  
GIANT 3

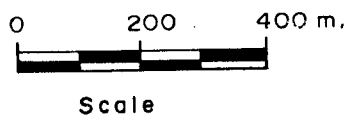
Runell Cr.



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

LEGEND

-  Old workings
-  Road
-  Creek
-  1988 Grid (Lutjen)
-  Swamp
-  Legal corner post & claim line



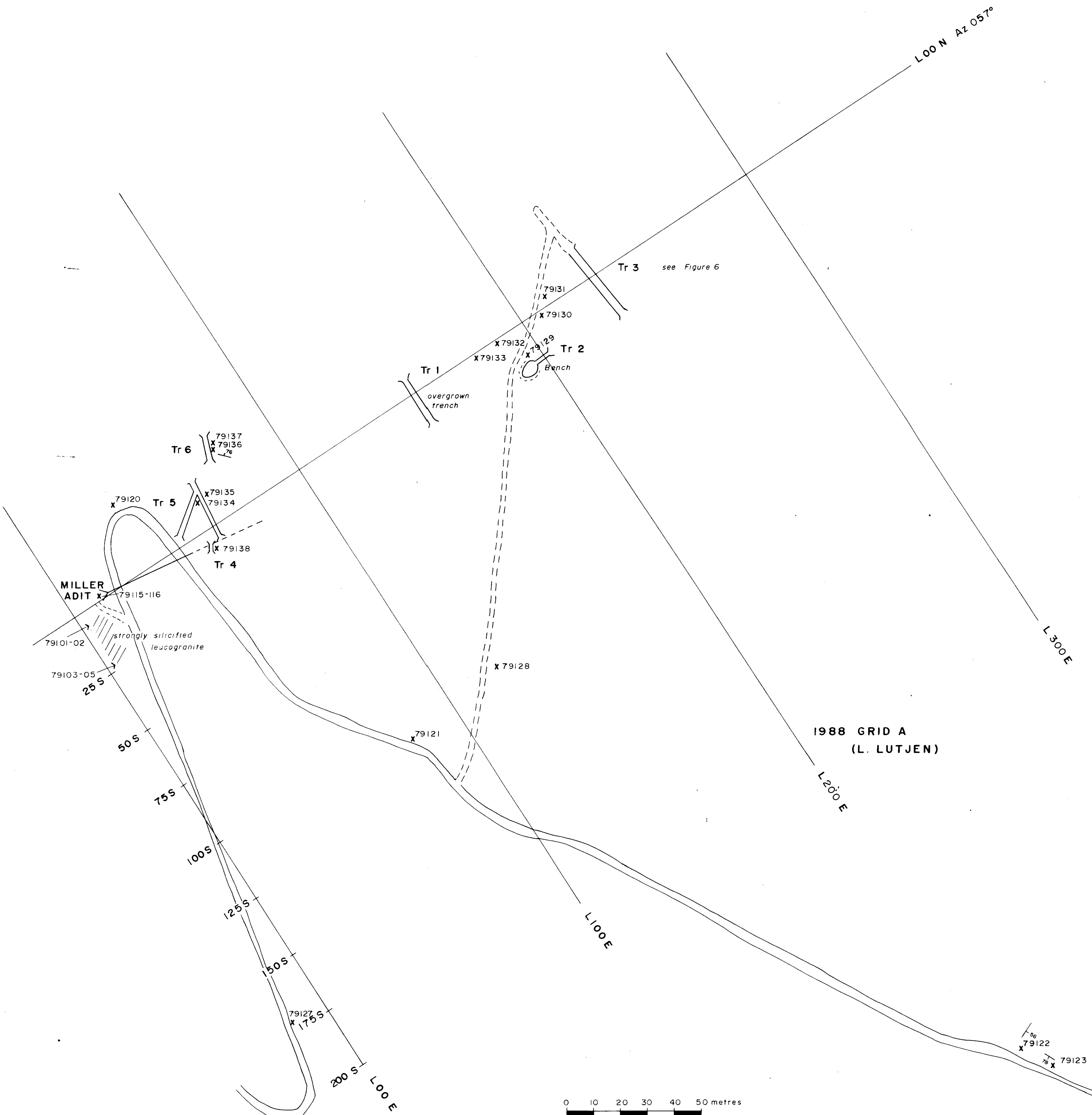
# 19,867

 CORONA CORPORATION

COMPILATION MAP

PREVIOUS WORK

PREPARED BY: LL/KG	SCALE:	PROJECT NO.:
NTS: 82 L/11W	DATE: Feb. 1990	MAP NO.: 3



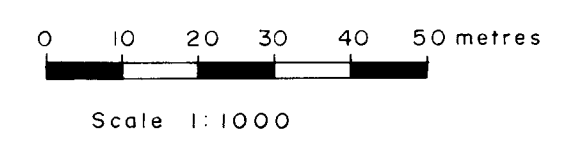
**LEGEND**

- Adit
- 1967 Annmar Trench
- 1989 Chip Sample Locations with Numbers.
- 1989 Grab Sample Location with Numbers.
- Trail
- Forestry road

FOR SAMPLE RESULTS SEE APPENDIX D

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**19,867**

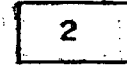


CORONA CORPORATION		
1989 SAMPLING PROGRAM		
MILLER ADIT AREA		
PREPARED BY: R.K./K.G.	SCALE: 1:1000	PROJECT NO.:
N.T.S. 82L/11W	DATE: Feb. 1990	MAP NO.: 5

# LEGEND



Moderately to strongly silicified, fractured and quartz veined.



Micaceous sediments, alteration. Silicified. Greisen.



Grey, calcareous metasediments.



Quartz vein.



Dip and strike of veining.



Dip and strike of bedding.



Outcrop



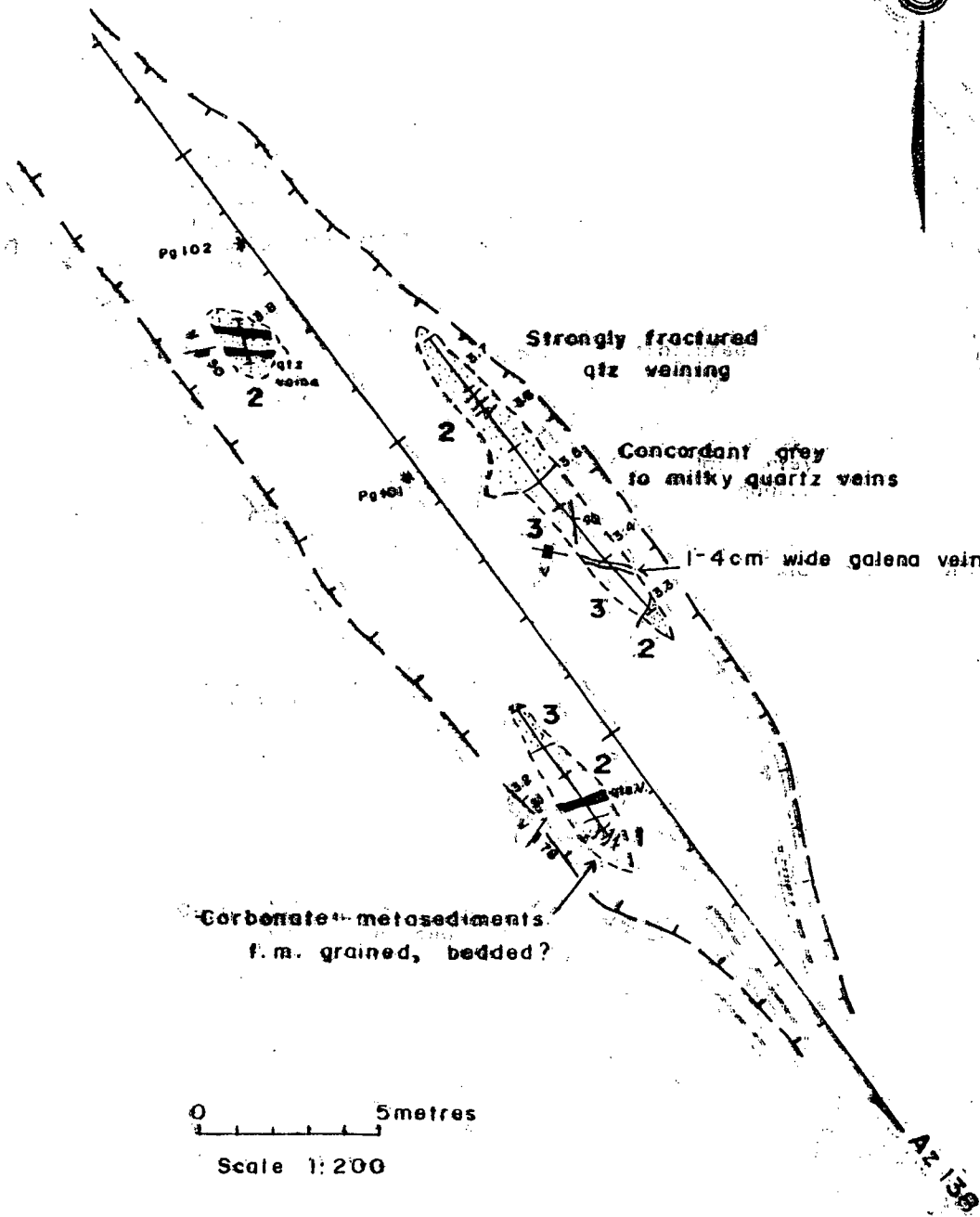
Approximate edge of trench.




Chip sample with sample no.



1988 grab sample location & no.



FOR SAMPLE RESULTS SEE APPENDIX D.

 CORONA CORPORATION

## TRENCH PLAN

PREPARED BY: RW/KG	SCALE: 1:200	PROJECT NO.:
DATE: 82L/IIW	DATE: Feb. 1990	MAP NO.: 6