

LOG. NO.	0815	RD.
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SCUD PROPERTY - 1045

SCUD 10, 11, 12, 13, 14 CLAIMS
(4854, 4855, 4856, 4857, 4858)

LIARD MINING DIVISION

GEOLOGICAL REPORT

N.T.S. 104-G/6

JUNE 22, 1990

OWNER: LACANA EX (1981) INC.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,184

Latitude 58° 17'N
Longitude 131° 18'W

Darrel Johnson B.Sc.
Paul W. Jones
CORONA CORPORATION

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1.0 CONCLUSIONS

Prospecting and geological work during July 1989 on the Scud 10, 11, 12, 13 and 14 claims concentrated on anomalies discovered in August of 1988. Showings discovered in 1988 were re-sampled and mapped geologically, showing a tentative structural relationship. The host rocks are metavolcanics of greenstone facies near the contact with the granodiorite Hickman Pluton. Along the 1.5 km of investigated structure, silicified, quartz flooded zones are enriched with chalcopyrite, tetrahedrite and erythrite. The sampling to date has returned values up to 2 g/T Ag and 2.0% Cu.

2.0 RECOMMENDATIONS

More detailed geologic mapping and sampling along the host structures should determine whether further work is warranted. Parallel structural lineaments are evident from airphoto analysis and may have some potential. In conjunction with other work in the Scud River area 5 - 3 mandays would assess these showings.

3.0 INTRODUCTION

The Scud 10 to 14 claims, totalling 100 units, were staked on July 5, 1988 by a contractor for **Lacana Ex (1981) Inc.**, a subsidiary of **Corona Corporation**. The claims are located 4 km east of the toe of the **Scud Glacier** on the western margin of the **Hickman Pluton**. This intrusion has metamorphosed both volcanic and sedimentary rocks of either Early Permian or Late Triassic age. Access is via helicopter from either the Scud airstrip at the confluence of the **Scud and Stikine Rivers** or the **Galore Creek** airstrip located 20 km to the southeast.

The claims cover Permian limestones and metamorphosed volcanics/sediments and have been intruded by both the Mid-Late Triassic 'Hickman' granodiorite pluton and Jurassic feldspar porphyry plugs, sills and dykes. A contact metamorphic aureole extends 700 m out from the edge of the pluton. Small pods of massive sulphides were observed within this altered area.

Mineralization found to date is contained in an ankerite/carbonate altered zone within a conjugate fault set. Where observed, the fault zones cut greenstone metavolcanics with Fe-carbonate altered rims and a variably siliceous core. In places this siliceous core forms a quartz vein which may be brecciated. Mineralization prospected to date includes: chalcopyrite, pyrite, tetrahedrite, erythrite, arsenopyrite and molybdenite. Anomalous values of Ag, Cu and Co with pathfinder elements Ba, As, Cd and Sb are present.

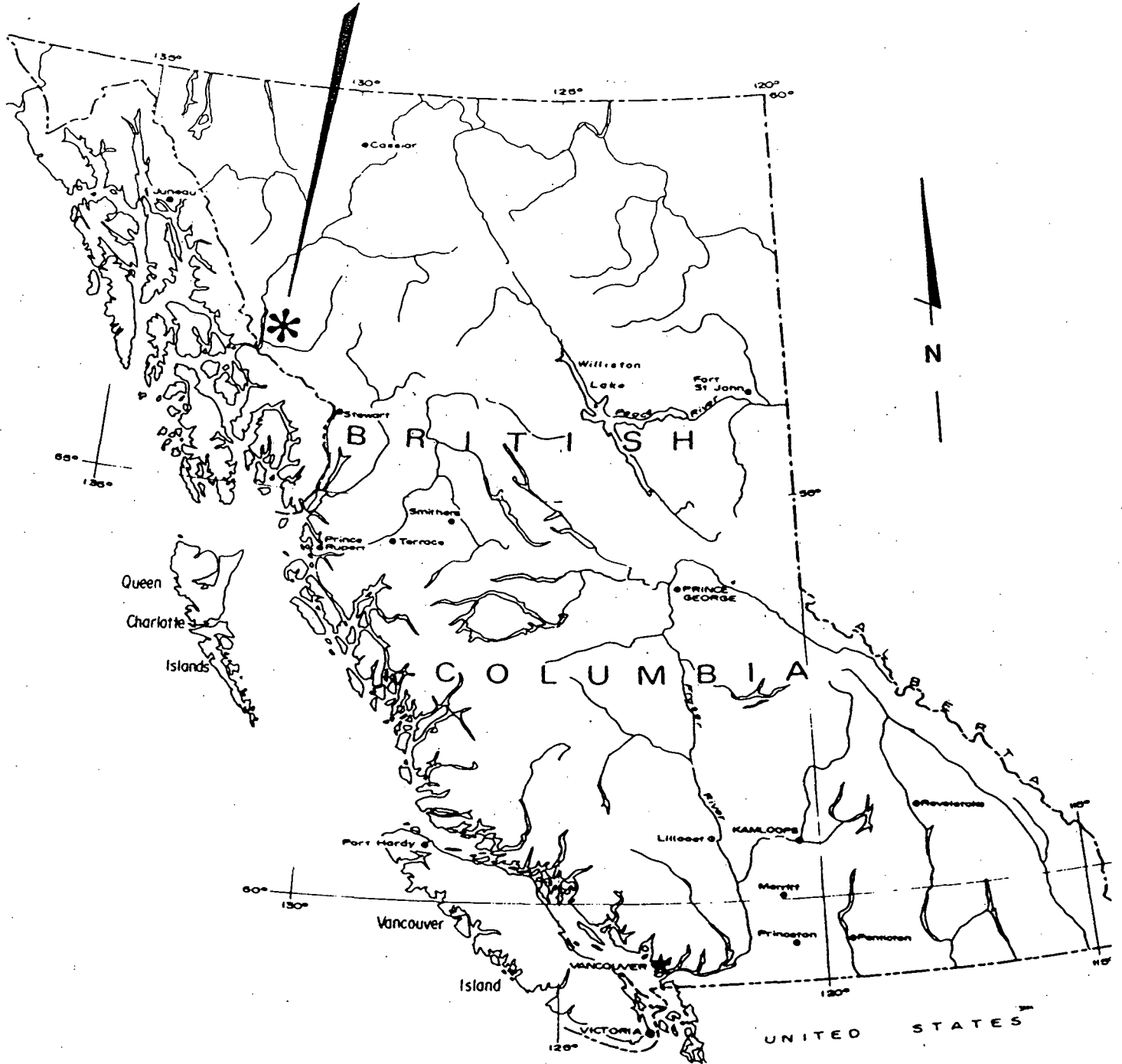
The geological mapping performed in July of 1989 was conducted from a base camp on **Scud 10**. Three geologists and a prospector mapped and sampled the area over a 4 day period with helicopter support.


4.0 GEOLOGY

4.1 REGIONAL GEOLOGY

The claim area lies on the western margin of the Intermontane Belt at its contact

PROPERTY LOCATION



 CORONA CORPORATION

SCUD PROPERTY LOCATION MAP

DATE: Jul./1989

SCALE:

DRAWING No. Fig.1

with the Coast Plutonic Complex. Paleozoic sediments and Mesozoic sediments and volcanics are cut by intrusive bodies of the main Coast Belt and the satellite Hickman and Yeheniko Plutons. General tectonic fabric of the region trends north-northwesterly.

The oldest rocks exposed in the area are Lower Paleozoic clastics including impure quartzites and limestones, overlain by crystalline schists and gneisses. A thick impure limestone unit caps the Paleozoic oceanic sequence.

The lower contact of Mesozoic units is described by F.A. Kerr, G.S.C. Memoir 246 and J.G. Souther, G.S.C. Paper 71-44, as gradational and in places unconformable. Triassic rocks consist of a thick sedimentary sequence overlain by an island arc volcanic assemblage which is in turn capped by volcanic derived sediments.

The Jurassic layered sequence consists of a thick, near shore sedimentary package and later volcanic island arc rocks. Extensive intrusive activity during this period resulted in the emplacement of the multi phased 'Coast Complex' and related satellite plutons. Alkaline and calc-alkaline members of this suite are directly associated with most of the numerous mineral occurrences in the area. Cretaceous rocks consist mainly of marine sediments with thin basaltic to rhyolitic components.

Cenozoic stratigraphy includes mafic and felsic aerial volcanic units. These rocks are a major component of glacial and fluvial deposits throughout the area. Several active hot springs attest to ongoing geologic activity throughout the Iskut-Stikine region.

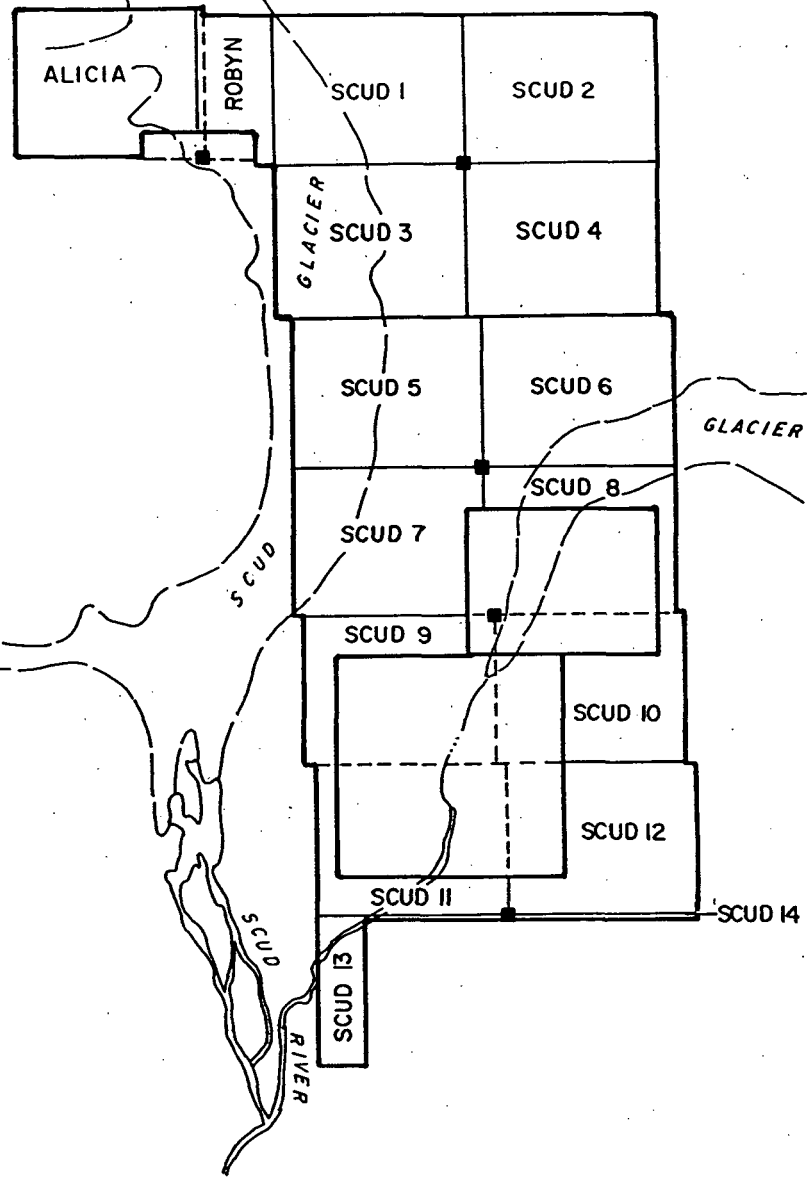
Most of the region has been subjected to Quarternary glaciation, resulting in rugged alpine terrain.

4.2 PROPERTY GEOLOGY

The Scud 10 to 14 claims encompass Paleozoic limestones with lesser sediments and Permian to early Triassic metavolcanics/sediments. A major Pluton, the Triassic Hickman intrusive dominates the eastern border of the claim and is the cause of the regional metamorphism.

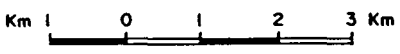


131° 20'



57° 15'

57° 15'



131° 20'

 **CORONA CORPORATION**

**SCUD PROPERTY
CLAIM MAP**

DATE: JUNE / 1990 SCALE: 1:100,000 DRAWING No.

The Mesozoic rocks are part of the Stuhini Group and consist of a basal maroon and green epiclastic unit overlain by andesite flows, tuffs and volcanic breccia with minor phyrlic augite basalt sill and/or flows. Overlying sediments are polymictic conglomerates of augite basalt, volcanics and limestone clasts.

The Paleozoic Stikine assemblage as mapped in the area of the **Scud Glacier**, (B.C. MEMPR Open File 1989 - 7), consists of Permian and older rocks. The Pre-Permian rocks are recrystallized limestones overlain by quartz-biotite schists, mixed siliceous siltstones, and rhyolitic volcanics.

The assumed base of Permian strata is a distinctive rusty argillite. This is overlain by a thick limestone unit, a mixed sedimentary/volcanic package and an upper limestone.

The western quarter of the claim is a thick sequence of Permian limestones. This unit is primarily massive white to buff coloured with interbedded argillite and tuff disconformably overlain by cherty sediments, (Brown & Gunning Open File 1989-7). The early Triassic rocks are composed of metasediments covered by metavolcanics. A more detailed mapping program is necessary to clearly distinguish the geologic stratigraphy on the claim.

The metavolcanics where distinguishable are of an andesitic nature and most likely tuffs or flows. Most primary textures have been eliminated. These volcanics host a series of conjugate faults that contain interesting mineralization. The showings are found in siliceous Fe-carbonate zones within the faults. The hanging and footwalls are ankerite with a siliceous core that can contain quartz veins and veinlets. The faults have brecciated sections. The mineralization is primarily chalcopyrite, tetrahedrite and pyrite with lesser amounts of covellite, erythrite and arsenopyrite. Anomalous silver and copper values have been returned but no significant Au, maximum values 165 ppb. Up to 2 km of strike length along these faults is available for further investigation.

5.0 GEOCHEMISTRY

During the mapping program 27 rock samples were collected. Analytical costs of only 14 have been charged in the statement of costs of this report. The samples were sent to Acme Analytical Laboratories in Vancouver for geochemical analysis for copper, lead, zinc, silver and gold. Analytical techniques are described in Appendix A, sample descriptions in Appendix B and the results are given in Appendix C and plotted on Fig. 5.

6.0 STATEMENT OF COSTS**GEOLOGY - SCUD 10, 11, 12, 13, 14 CLAIMS**

Period: July 22, 1989 - July 13, 1990

Wages:

D. Gaunt (Geologist) 4 days @ \$250/day	1,000.00
R. Johnston (Geologist) 4 days @ \$250/day	1,000.00
B. Liard (Geologist) 4 days @ \$250/day	1,000.00
P. Jones (Prospector) 4 days @ \$250/day	1,000.00
Accommodation: - Galore Creek	600.00
Food & Accommodation: - Camp 16 mandays @ \$30/manday	480.00
Helicopter Support: 5.2 hrs @ \$725/hr	3,770.00
Assaying: 14 rock samples @ \$25/sample (shipping inc.)	350.00
Air Charter: - Mobilization-Demobilization	735.00
Equipment & Supplies:	125.00
Report Preparation:	<u>500.00</u>
	\$10,560.00
Statement Filed July 13, 1990	10,000.00
To Corona P.A.C. Account (290675)	560.00

STATEMENT OF QUALIFICATIONS

DARREL L. JOHNSON

I, Darrel L. Johnson, resident of the District of Coquitlam, B.C. declare that:

1. I hold a B.Sc. degree in geology, granted by the University of British Columbia in 1970;
2. I have worked as a geologist in all phases of exploration work throughout British Columbia since 1970;
3. I have been employed by Corona Corporation as a Senior Geologist since 1988;
4. Work described in this report was conducted by Paul Jones under my overall supervision;
5. I co-authored this report based on published information for the area, extensive discussion with Paul Jones and visits to the area during the programmes described.

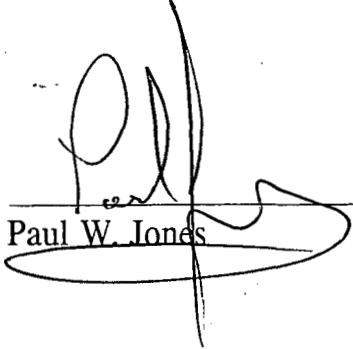


DATED THIS 19TH DAY OF July 1990 AT VANCOUVER,
BRITISH COLUMBIA.

PAUL W. JONES

I, PAUL W. JONES, in the City of Vancouver, B.C. declare that:

1. I have been involved actively in the mining industry in Canada and the United States for 11 years.
2. I have personally performed the work enclosed in this report under the supervision of Corona Corporation's Senior Geologist, Darrel Johnson.



Paul W. Jones

DATED this 1 day of August 19 90
at Vancouver, British Columbia.

8.0 BIBLIOGRAPHY

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PAC03-1045-0602-011

APPENDIX A
GEOCHEMICAL METHODS

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone : 253 - 3158

ICP - .5 gram sample is digested with 3 ml 3-1-2
HCl-HNO₃-H₂O at 95 deg.C for one hour and is
diluted to 10 ml with water. This leach is
Partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba,
Ti, B, W and limited for Na, K, Al.

Au* - 10 gram samples are ignited at 600 deg.C,
digested with aqua regia at 95 deg.C for
one hour, 50 ml aliquot is extracted into
10 ml MIBK, analysed by graphite furnace AA.

PAC03-1045-0602-011

APPENDIX B
SAMPLE DESCRIPTIONS

PAC03-1045-0602-011

<u>Sample No</u>	<u>Type</u>	<u>Description</u>
20795	Float	metavolcanic with quartz carbonate veinlets pyrite, chalcopyrite in blebs 1-2%.
20796	Chip 1 m	hangingwall ankerite quartz calcite vein parallel to fracture.
20797	Chip .25 m	very fine grained grey quartz vein with disseminated chalcopyrite.
20798	Chip 1.5 m	brecciated quartz ankerite zone with chalcopyrite and cobalt bloom.
20799	Chip 1 m	footwall ankerite quartz calcite vein with disseminated pyrite and chalcopyrite.
20800	Grab	quartz calcite vein with chalcopyrite tetrahedrite.
30470	Float	biotite plagioclase porphyry intrusive with epidote, hematite.
20960	Grab	dirty siltstone with 1% finely disseminated pyrite, moderately oxidized.
20961	Grab	dirty siltstone with 1% finely disseminated pyrite, moderately oxidized.
20962	Grab	dirty siltstone with 1% finely disseminated pyrite, moderately oxidized.
20963	Grab	strongly fractured metasediment.
20964	Grab	sheared metasediment.
20381	Grab	rusty pyritic felsic gneiss at contact with coarse grained hornblende diorite dyke.
20382	Grab	rusty pyritic mafic gneiss.

PAC03-1045-0602-011

APPENDIX C
ANALYTICAL RESULTS

Send

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: JUL 31 1989

DATE REPORT MAILED: Aug. 8/89..

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

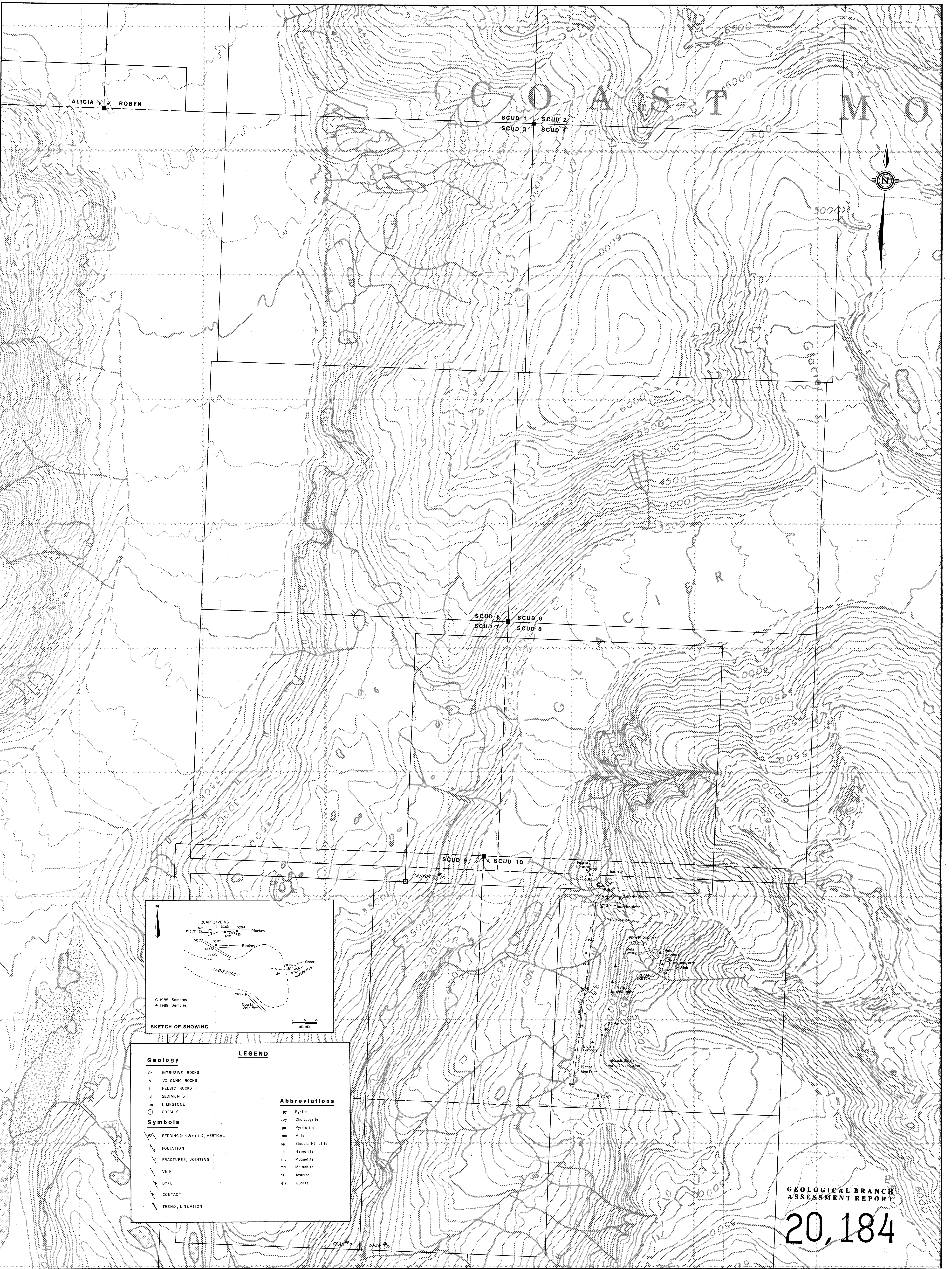
SIGNED BY *C. Long* D.TOYE. C.LXONG. J.WANG: CERTIFIED B.C. ASSAYERS

CORONA CORPORATION PROJECT 1040 FILE # 89-2584

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au* PPB
-E 20381	161	2	21	.1	1
-E 20382	205	2	75	.1	2
-E 20795	1151	3	59	.5	1
-E 20796	55	7	65	.1	1
-E 20797	4931	2	54	2.6	4
-E 20798	12369 ✓	8	36	6.0	12
-E 20799	4925	2	28	2.0	3
-E 20800	27342 ✓	5	32	10.4	14
-E 20960	205	2	24	.1	1
-E 20961	205	4	30	.1	1
-E 20962	404	4	35	.3	5
-E 20963	324	6	35	.5	2
-E 20964	285	2	21	.1	4
D 30470	243	2	58	.1	3
STD C/AU-R	61	42	134	6.7	470

- ASSAY REQUIRED FOR CORRECT RESULT -

- 10 SEND



ALICIA ROBYN

COAST MOUNTAINS

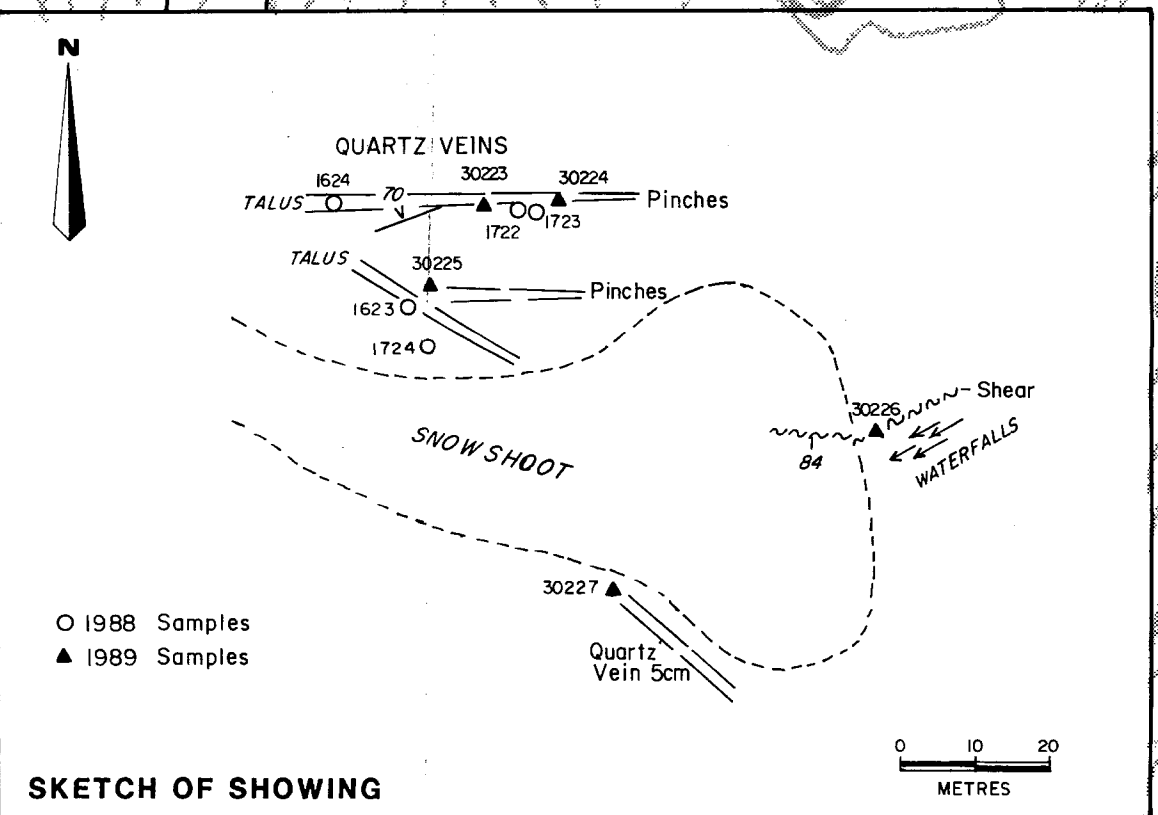
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SCUD 7

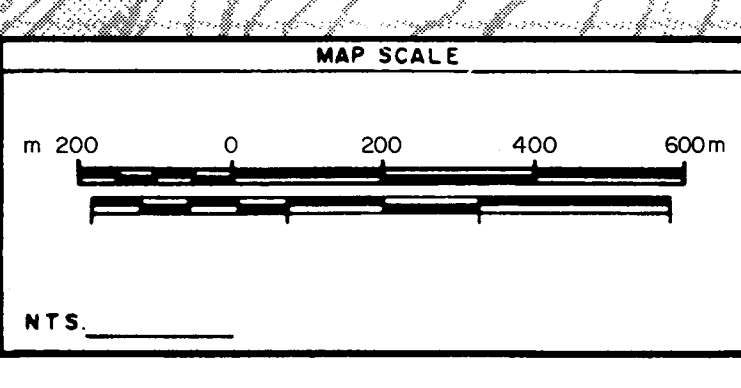
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SCUD 8

SCUD 9
SCUD 10



GEOLOGY		LEGEND	
Gr	INTRUSIVE ROCKS		
V	VOLCANIC ROCKS		
F	FELSIC ROCKS		
S	SEDIMENTS		
Lm	LIMESTONE		
○	FOSSILS		
Symbols		Abbreviations	
	BEDDING (dip by strike), VERTICAL	py	Pyrite
	FOLIATION	cpy	Chalcopyrite
	FRACTURES, JOINTING	pp	Pyrrhotite
	VEIN	mo	Moly
	DYKE	sp	Specular Hematite
	CONTACT	h	Hematite
	TREND, LINEATION	mg	Magnetite
		ma	Malachite
		az	Azurite
		qtz	Quartz

GEOLOGICAL BRANCH
ASSESSMENT REPORT
20,184



No	Date	MADE BY	DESCRIPTION
1			
2			
3			
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DATE	DRAWN BY	CHECKED	APPROVED
MAR./1990			

CORONA CORPORATION

SCUD PROPERTY			
GEOLOGY			
OFFICE	DEPARTMENT	MAP INDEX NUMBER	SCALE
		N.T.S. 1046/6	1:10000
DRAWING NUMBER		FIG. 4	