

1865 PART 1

GEOCHEMICAL SOIL SAMPLING SURVEYS

on

AAA MINERAL CLAIMS

PORT HARDY AREA

Nanaimo Mining Division
Vancouver Island, B. C.

Map Sheet 102-I-9

Longitude 128°5'W

Latitude 50°40'N

by

Wayne J. Roberts,
Geologist

Clyde L. Smith,
Director and Exploration Manager

Spartan Explorations Ltd.

February 15 - March 21

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ILLUSTRATIONS

Figure 1 - Claim Group Location Map	Pocket
Figure 2 - Geochemical Soil Survey of Values in ppm.	Pocket

<p>Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 1865 A MAP.....</p>

LIST OF CLAIMS

<u>Claim Numbers</u>	<u>Grant Numbers</u>	<u>Date Received</u>
AAA 3-16	23091-23104	February 15, 1968
18	23107	February 15, 1968
21	23109	February 15, 1968
23	23111	February 15, 1968
25	23113	February 15, 1968
27	23115	February 15, 1968
29	23117	February 15, 1968
35-50	23123-23138	February 15, 1968

INTRODUCTION

The AAA 1-50 claim group was staked in early February, 1968, to cover an area containing two mineral showings located by primary prospecting in a broad belt in the Quatsino-Holberg area of northern Vancouver Island. The showings are located in the area of the AAA #48 and #6 claims; consisting of small fracture systems in the volcanics filled with vein quartz containing minor amounts of bornite and malachite. The claim group lies in a very favourable position, underlain by the Karmutsen group of volcanics, and lying between the two highly potential areas held by Quintana Minerals Corporation and Utah Construction and Mining Company.

LOCATION AND ACCESS

The AAA group is centered roughly at longitude 128°5'W and latitude 50°40'N, approximately 4 miles northwest of the town of Holberg in the northeastern corner of map sheet 102-I-9. The claim block is approximately centered on a northwest-southeast trending ridge drained on the north by the Stranby River and on the south by the Goodspeed River. The claim group is located on Branch 51; the northeast main road of the Holberg Logging Division of Rayonier Canada Limited.

Access is by logging roads connected to Branch 51, one of the main roads leading out of Holberg. The roads, belonging to Rayonier and British Columbia Forest Service, are restricted to evening and weekend use, but it is possible to obtain permits for wider use of the roads.

GEOLOGY

The claim group is underlain by northwest-southeast trending volcanics consisting mainly of greenish to purplish amygdaloidal basalts of the Karmutsen group of Triassic age. No intrusive outcrop was located

Geology (Continued)....

but some float boulders were observed in the northwestern portion of the claim group. The claim group was staked to cover possible mineralized areas between the two present showings and the probability of finding an intrusive in the area.

GEOCHEMICAL ENVIRONMENT

Topography in the area of the claim group is moderate to steeply sloping with run-off entering the Stranby River on the north and the Goodsped River on the south. Rainfall is high and vegetation consists mainly of a dense forest of spruce, cedar, and hemlock. This area has both transported and residual soils; the lower areas tend to be covered with transported glacial overburden in excess of 30 feet in some localities consisting of intermixed sands, gravels, and clays. The steeper slopes are covered by a thinner residual soil. Soil profiles typically consist of a thin A-horizon of dark reddish brown material. The nature of dispersion is not well known.

SURVEY TECHNIQUESSoil Sampling

The soil sampling survey was conducted along the logging roads within the claim group. The samples were obtained from the soil at the B-horizon with a prospector's grub hoe at 300 foot intervals along the upper bank of the road cut. Approximately 100 grams of soil were taken from each sample site and placed in kraft bags which were shipped to T.S.L. Laboratories in Vancouver.

Method of Analysis

When the samples were received at the laboratory, each was dried then screened in a 80-mesh, weighed to .5 grams and digested by

Method of Analysis (Continued)....

hot hydrochloric acid. The samples were then diluted and tested for copper by an atomic absorption spectrometer. The results were reported in parts per million.

Treatment of Data

The results were plotted on the accompanying map, figure 2, on a scale of 1500 feet to the inch. Small arrows indicate the direction of drainage. Values of over 80 parts per million were considered anomalous but were not contoured due to erratic distributions.


DESCRIPTIONS OF ANOMALIES

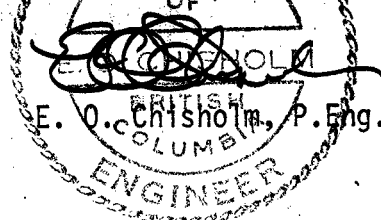
A few anomalous copper values appear very erratic but tend to be concentrated in the northwestern portion of the claim block. The largest concentration appears to originate on a northeast slope above a copper showing.

INTERPRETATION

Due to the sporadic anomalous copper values obtained in the initial soil sampling survey, no real interpretation can be formed. But, a great percentage of the higher values do not occur on the northeasterly facing slope in the northwest corner of the claim block possibly reflecting chemical dispersion of mineralized zones higher up on the slope. When further work is considered it is recommended that the northwest corner of the claim group be carefully prospected and covered by a soil sample grid.

Respectfully submitted,


Clyde L. Smith, Ph.D.,
Director and Exploration Manager.



APPENDIX ISUMMARY OF COSTS

	<u>Costs - \$</u>	<u>Sub Total</u>
1. <u>Geochemical Surveys</u> *		
Wages, Salaries, Bonuses	683.50	
Supplies & Miscellaneous Equipment	2.50	
Assaying	207.50	
Camp Support	76.50	
		<hr/>
		970.00
2. <u>Exploration Planning</u>		
Wages, Salaries, Bonuses	30.00	
		<hr/>
		30.00
		<hr/>
	GRAND TOTAL	<u>\$1,000.00</u>

* For itemized Geochemical Surveys - See Page 4(a)

Geochemical Surveys (To accompany Section i of Summary of Costs)

Wages - \$683.50

<u>Name</u>	<u>Dates</u>	<u>Salary</u>	<u>Amount Paid</u>
A. MacKillop	Feb. 20-26	\$600.00 mo.	\$146.65
	Mar. 24-31	\$600.00 mo.	\$196.35
A. Racicot	Feb. 20-26	\$600.00 mo.	\$145.45
	Mar. 24-31	\$600.00 mo.	\$194.65
			\$683.10

Assaying - \$207.50

- 143 samples sent to T.S.L. Laboratories, March 8, assayed for copper	195.60
- 3 samples sent to Coast Eldridge, March 13, assayed for various minerals	12.15
	\$207.75

Supplies and Miscellaneous Equipment - \$2.50 2.50

Camp Support - \$76.50

- Expenses charged to the Port Hardy camp support are applicable to the claim groups, (AAA and OEX) in that particular area. These expenses have been appropriated on a pro rata basis of the wages and salaries of the employees doing a specific type of exploration work in the period (ie. geochemical surveys, AAA group). These expenses consist of travel and accomodation, supplies & miscellaneous equipment, rental of equipment, fixed wing freight costs, helicopter costs, etc....	76.00	76.00
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TOTAL	\$ 969.35
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A P P E N D I X I I

A F F I D A V I T

Supporting Summary of Costs

I, Clyde L. Smith, Director and Exploration Manager, Spartan Explorations Limited, of Vancouver, B. C., do hereby state that to the best of my knowledge and belief the statement of costs as presented in Appendix I of this report "Geochemical Soil Surveys on the AAA Mineral Claim Group" is both true and correct.

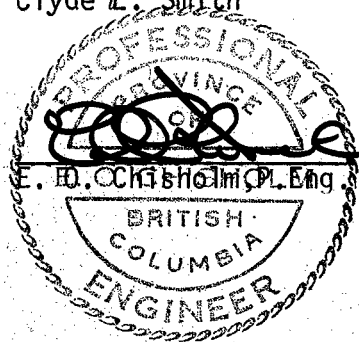
DATED AT Vancouver, British Columbia, this twenty-first day of February A. D. 1969.

SWORN BEFORE ME at Vancouver, British Columbia, this ~~21st~~ 29 day of February, A.D. 1969. APRIL

Julie Turner
A Commissioner for taking Affidavits in British Columbia

SUB - MINING RECORDER

Clyde L. Smith
Clyde L. Smith



APPENDIX IIIPERSONNEL

<u>Name</u>	<u>Position</u>	<u>Address</u>
A. Racicot	Prospector	Richmond, B. C.
A. MacKillop	Prospector	North Vancouver, B. C.
L. Storey	Geologist	Port Hardy, B. C.

SPARTAN EXPLORATIONS LTD.
VANCOUVER B.C.
PORT HARDY PROJECT
"AAA" CLAIM GROUP
GEOCHEMICAL SOIL SURVEY

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
1865A MAP 2
NO. 1865A

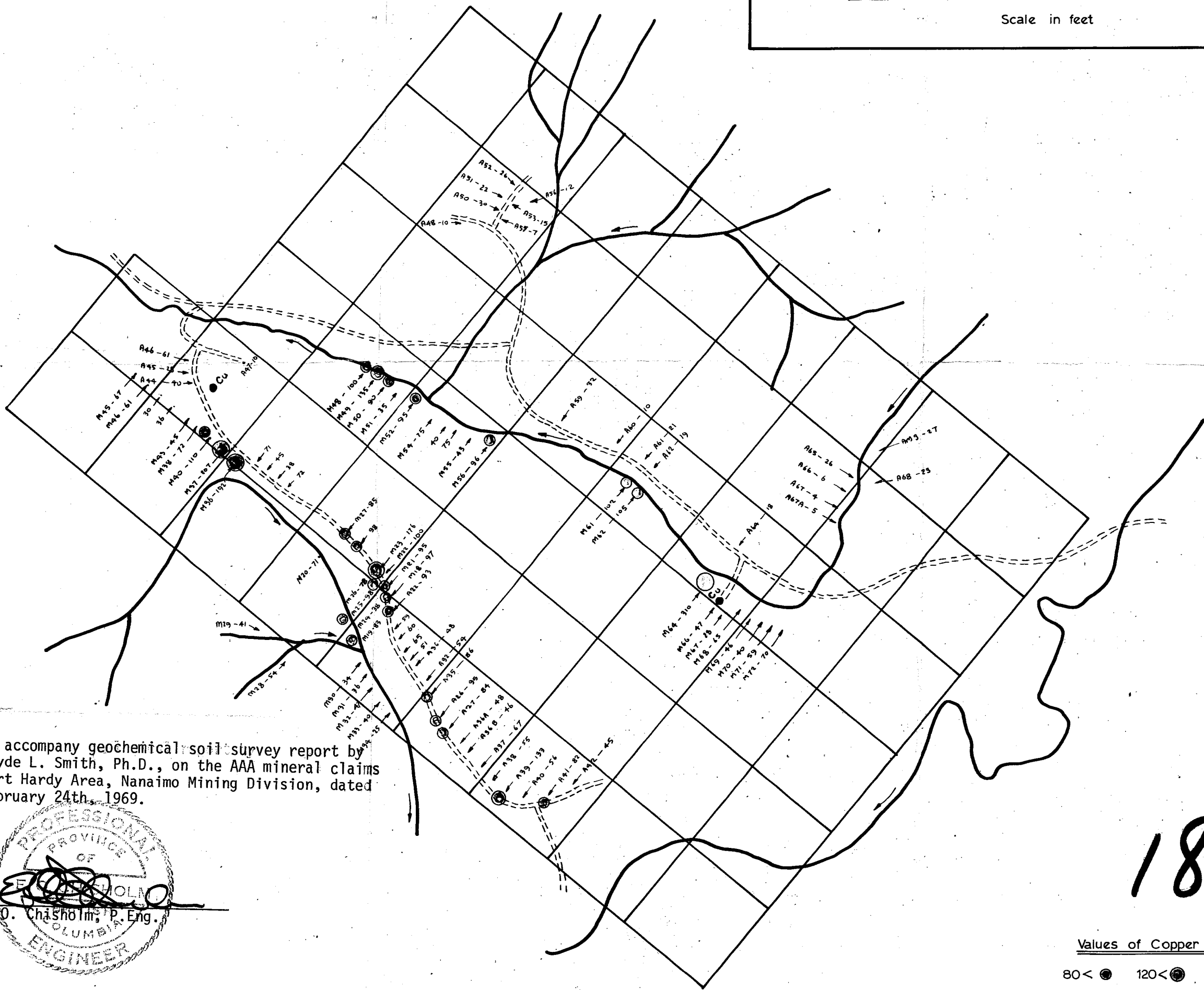
SAMPLERS : A.M. KILLOP, A. RACICOT.

DRAWN BY : N.H. SIMMONS.

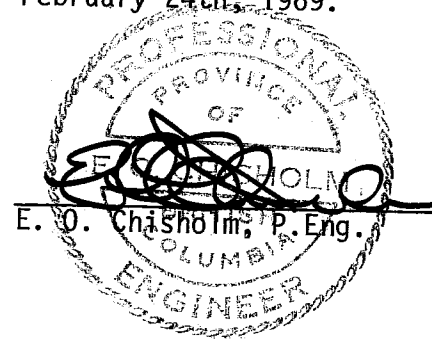
DATE : FEBRUARY 14, 1969.



Scale in feet



To accompany geochemical soil survey report by
Clyde L. Smith, Ph.D., on the AAA mineral claims
Port Hardy Area, Nanaimo Mining Division, dated
February 24th, 1969.



1865

Values of Copper in ppm
80 < ● 120 < ● 160 < ●