1865 PART2

GEOLOGICAL REPORT

0n

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

and

Clyde L. Smith, Director and Exploration Manager

SPARTAN EXPLORATIONS LTD.

February 15 -- March 21

LIST OF CLAIMS

Claim Numbers	Grant Numbers	Date Received	
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	

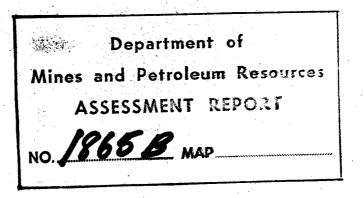
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ILLUSTRATIONS

Figure 1 -- Claim Group Location Map Pocket Figure 2 -- Geology and Mineral Occurrences Pocket



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 borad 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 helds 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.

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UPPER TRIASSIC

calcite cemented arlcose and lithic pebble conglomerate to fine grained argillaceous material

de la

TRIASSIC - KARMUTSEN GROUP

 greenish to purplish amygdaloidal basalt.

GEOLOGY

The AAA group is underlain by northwest-southeast trending Triassic volcanics in contact with east-west trending Upper Triassic sediments along the northeastern boundary of the claim group, as shown on the accompanying geological map (figure 3). Thus, there appears to be two-fold division of the Mesozoic mapped in this area. Descriptions of the units from the oldest

to the youngest are as follows:

Unit 1 was observed in all road cuts and pits within the claim boundary and consists mainly of greenish to purplish amygdaloidal basaltic rock which is generally fractured in all areas observed. It was mapped as the Triassic Karmutsen group. There does not appear to be any particular pattern to the many fractures and fillings consist mainly of calcite alteration associated with fracturing.

Unit 2 appears to overlie Unit 1 in the northeastern area and consists mainly of poorly sorted, calcite cemented sediments varying from arlosic sandstone to lithic pebble conglomerate. Along the southern portion of the claim block thin bedded fine grained argillaceous material exists. All sediments appear to be moderately fractured with fillings of calcite and with no major chemical alteration.

Some intrusive float was observed in a creek in the northwest corner of the claim block but no intrusive outcrop was located.

ECONOMIC GEOLOGY

Mineralization was observed in two localities as shown on the accompanying geological map (figure 3). Both mineral showings consisted of minor bornite and malachite disseminated in this quartz filled fracture in the Karmutsen volcanics and they are less than two inches wide. Since the quartz fracture fillings are very limited in occurrence and many are

Economic Geology (Continued)....

barren, the presence of copper so far does not appear to be economically significant.

RECOMMENDATIONS

Although the mineral showings located so far do not appear to be of economic importance, the presence of copper mineralization in a favourable area of recent mining activity should be maintained for at least one more year. It is recommended that this area be more thoroughly accessed by geological, geophysical, and geochemical methods.

Respectfully submitted,

Clyde 1 Smith Ph.D., Director and Exploration Manager



<u>APPENDIX I</u>

SUMMARY OF COSTS

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	<u> Costs - \$</u>	<u>Sub Total</u>
1. Property Examinations		
Consulting Fees and Management Helicopter Support	168.00 120.00	288.00
2. Prospecting		
Wages, Salaries, Bonuses Supplies and Miscellaneous Equipment Travel and Accomodation Rental of Equipment Camp Support	1,227.00 22.50 238.50 450.00 137.00	2,075.00
3. <u>Geological Surveys/Mapping</u> *		
Wages, Salaries, Bonuses Supplies and Miscellaneous Equipment Travel and Accomodation	175.00 6.00 37.00	218.00
4. Exploration Planning		
Wages, Salaries, Bonuses	60.00	60.00
	GRAND TOTAL	\$ 2,641.00

* For itemized Geological Surveys and Mapping see Page 5(a)

Geological Surveys and Mapping (To accompany Section 3 of Summary of Costs)

Wages - \$175.00

Name	Dates	Salary	Amount Paid
I. Wilson R. Woodsworth L.L. Storey A. MacKillop D. Goodbrand	May 20-23 May 25-26 May 25-26 May 27 August 14	\$500.00 mo. \$17.30 hr. \$25.96 hr \$600.00 mo. \$700.00 mo.	\$ 33.26 \$ 36.59 \$ 54.95 \$ 25.00 \$ 25.00
		· · ·	\$174.80

Supplies and Miscellaneous Equipment - \$6.00

- purchase of aero maps and geological reports (Early Canada) from the Department of Energy Mines and Resources, for Port Hardy AAA mineral claims.

\$6.00

Travel and Accomodation - \$37.00.

 expenditures for vehicle transportation and accomodation purchased by R. Woodsworth at Port Hardy while doing geological work on AAA claims. An expense report with receipts has been submitted by Woodsworth as support of these charges.

\$37.00

APPENDIX II

AFFIDAVIT

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 "Geological Report on the AAA Mineral Claim Group" is both true and correct.

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

SWORN BEFORE ME at Vancouver, British Columbia, this 24th 29 day of February, A.D. 1969. *APRIL*

A Commissioner for taking Offidavits in British Columbia. SUB-MINING RECORDER Clyde Smith

TIAM

APPENDIXIII

PERSONNEL

Name

A. Racicot A. MacKillop

L. Storey

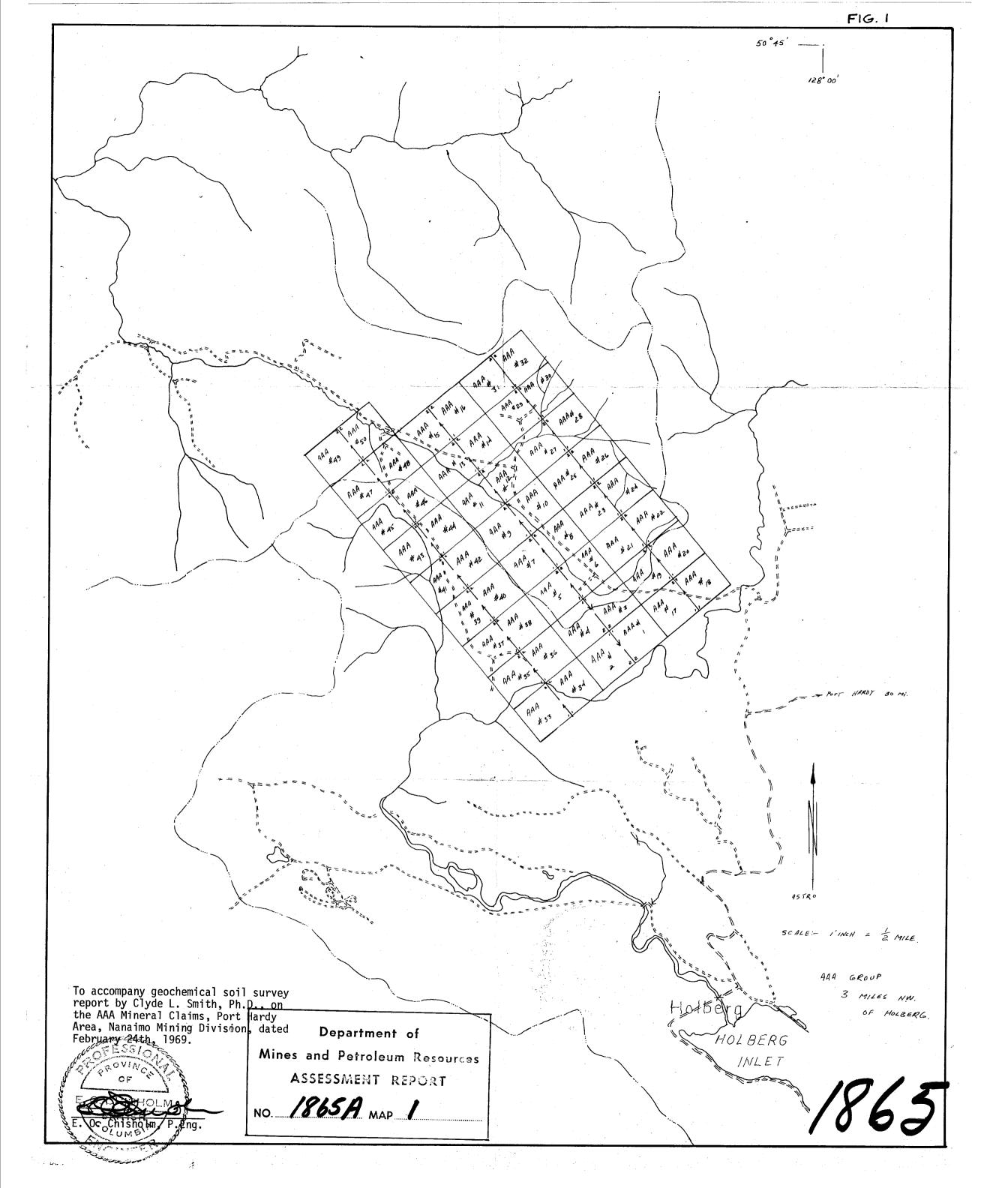
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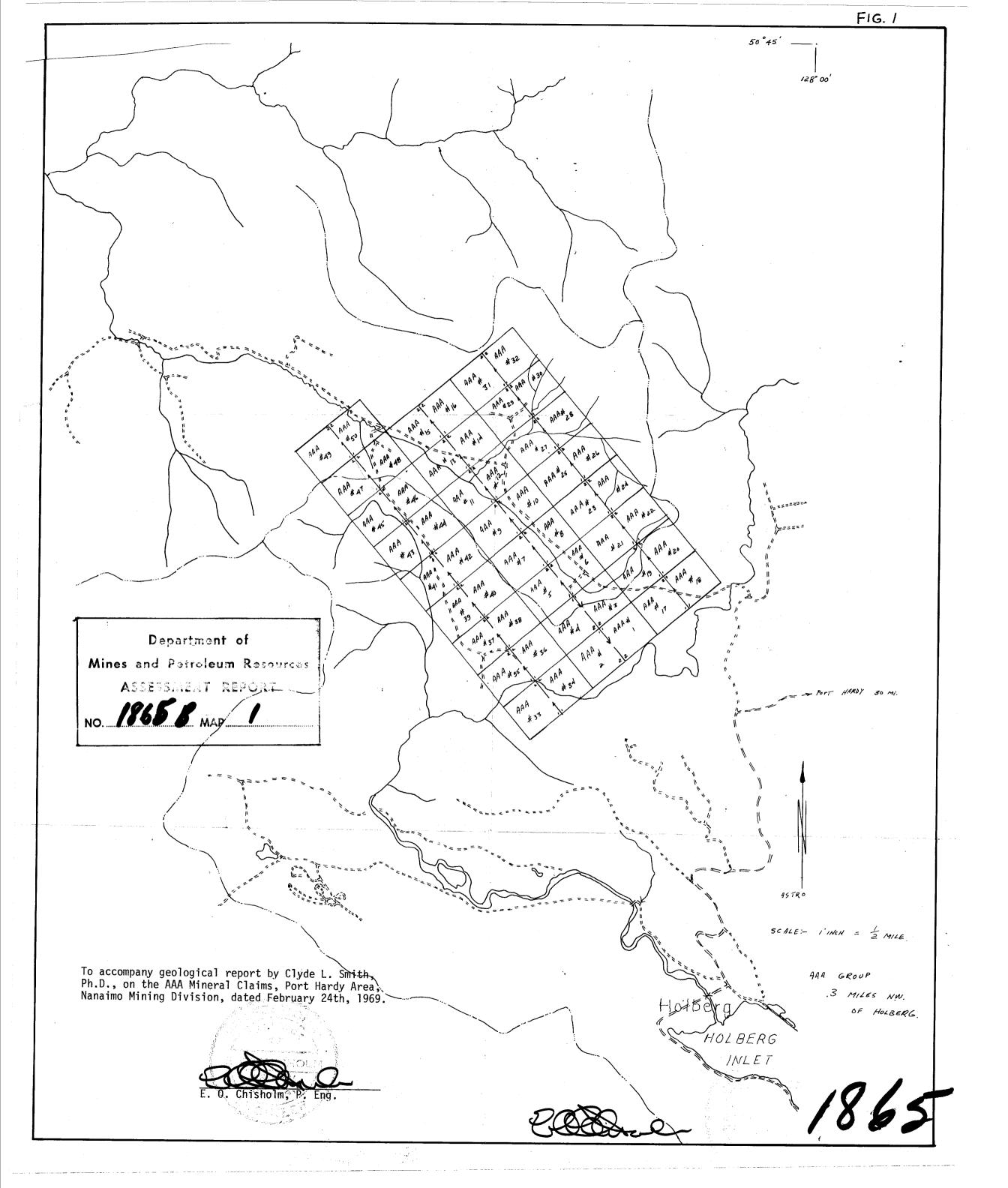
<u>Position</u>

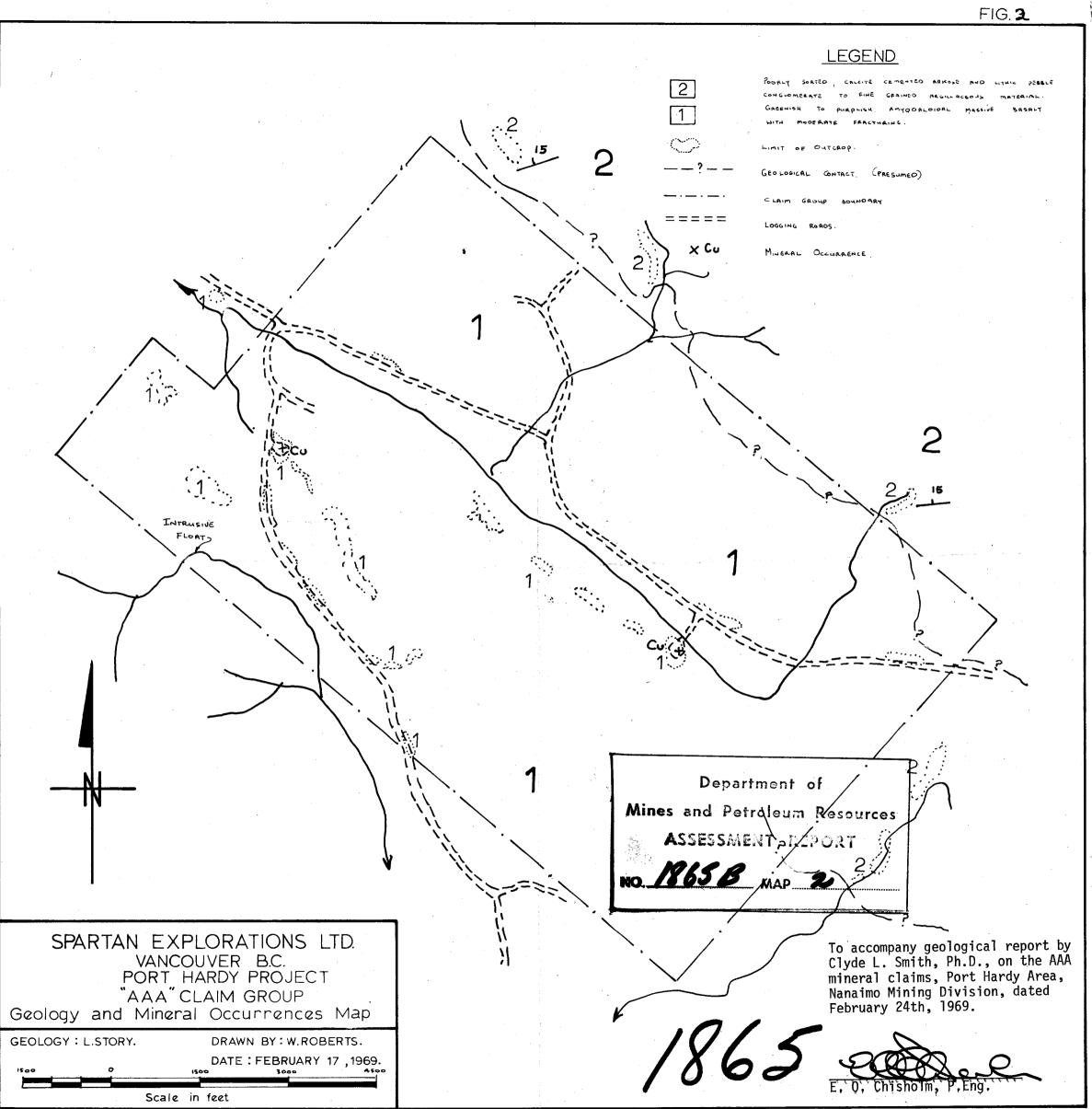
Prospector Prospector Geologist

Address

Richmond, B. C. North Vancouver, B. C. Port Hardy, B. C.







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