

2450

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

REPORT

on the

LUC CLAIM GROUP - 55° 124° S.W.

OMINECA MINING DIVISION, B.C.

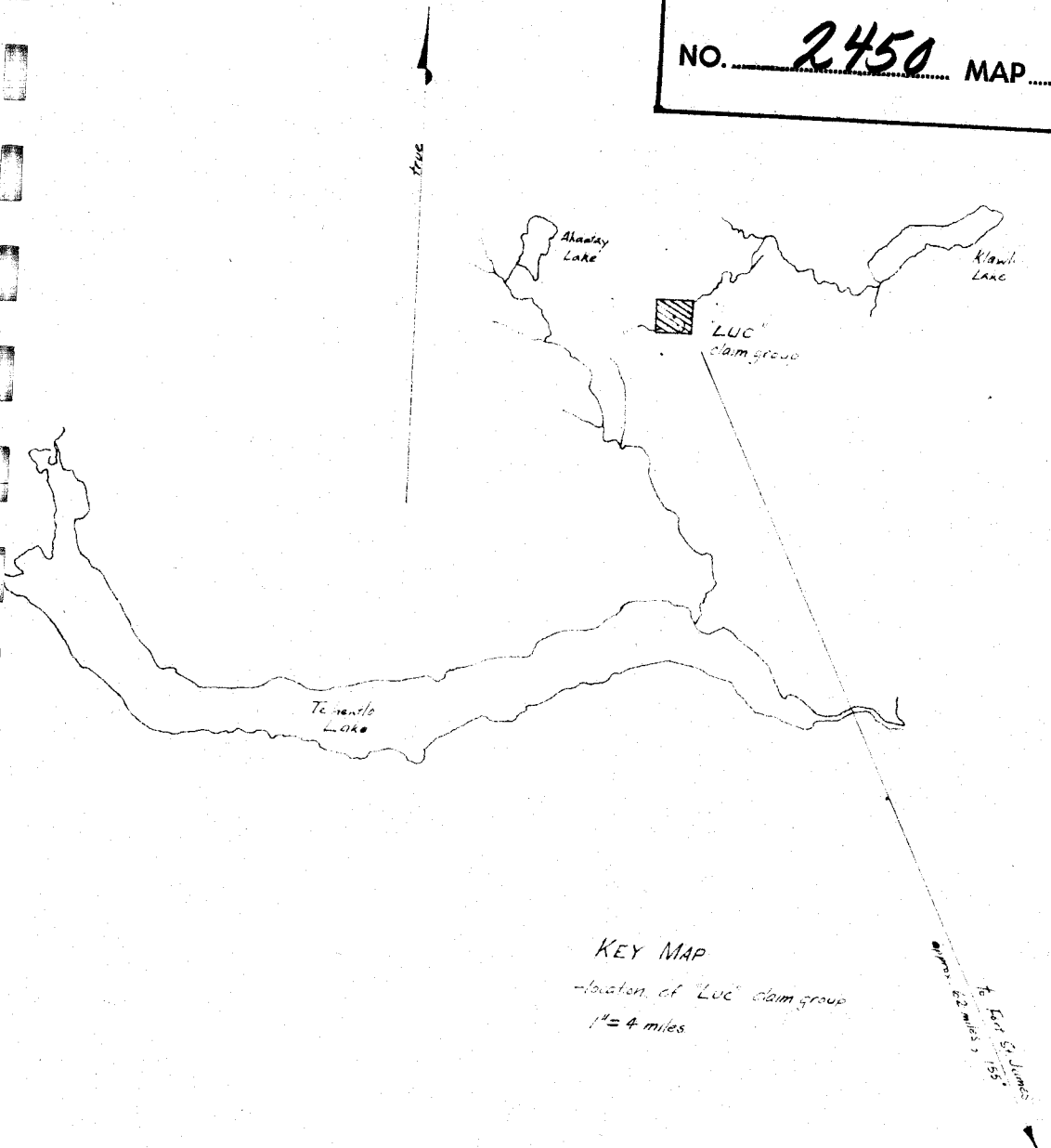
by

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Vancouver, B.C.

July 3, 1970.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2450 MAP #1



KEY MAP
-location of 'LUC' claim group
1" = 4 miles

125°00'

1
45'

-55°00'
1
30'

FIG 1

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INTRODUCTION

The Luc claim group of four claims is located approximately 62 miles northwest of Fort St. James, to the north of Tchentlo Lake and east-south-east of the centre of Ahdatay Lake (See frontispiece key map). The claims are owned by John King of Fort St. James. Record numbers are 79118K - 79121K.

GEOLOGY
(See Figure 2)

The claim group area is underlain mainly by andesites with lesser rhyolite and basalt and very minor marble. The andesites are generally pyroxene porphyries with some feldspar porphyries and all are pervasively saussuritized. The marble bed exposed near survey grid station 1E, 3S strikes 170° and dips about 70° E.

Near station 0N, 0 + 50E a pyrite-rich zone cuts across a rhyolite unit. The zone is about 20 feet in width, strikes about 110° and dips about 55° N. Within this zone malachite, chalcopryite, abundant calcite and considerable earthy hematite occur. This zone was not traceable along strike for more than 60 feet.

Chalcopryite occurs in other locations and these are indicated on the accompanying geologic map (Figure 2). The characteristic form of the chalcopryite occurrences is as blebs throughout the andesite. A second pyrite-rich zone with minor copper minerals occurs in andesitic rocks to the east of station 4N, 3 + 50E.

Feldspar porphyry dykes are observed to be barren but the near vertical contact with andesites near station 5E 3N shows very minor malachite with much earthy hematite, calcite, epidote and some pyrite.

GEOPHYSICAL

A magnetometer survey (See Figure 3) was conducted over a N-S, E-W grid on the claims about their centre. The instrument used was a Craelius Mini-Mag vertical magnetometer, manufactured by N.G.U., Trondheim, Norway.

Readings were taken at 100 foot intervals on lines 200 feet apart on the outer parts of the grid in the northwest, southwest and southeast quadrants, and at 100' intervals on lines 100 feet apart in the area about ON OE and the whole of the northeast quadrant. The accompanying map of the grid (Figure 3) indicates the value in gammas at each station. All readings are adjusted for diurnal change.

The values in Figure 3 are contoured with an interval of 500 gammas. A small V-shaped zone of high values is indicated with a depression in the opening of the V and around its edge. A second high area is located to the southeast of the point of the V shape.

The general appearance of the contours indicates some correlation with observed structural air photo lineations which trend northeast, north-northwest, east-west and north-south.

The overall size of the magnetic anomaly is rather small.

GEOCHEMISTRY

At locations shown on Figure 4 a soil sample was taken. Generally, samples were taken at 200 foot intervals on lines 200 feet apart on the east and west extremities of the grid, and at 100 foot intervals on lines 100 feet apart on the whole of the north-east quadrant and on lines near OE.

In general, the soils were immature and good development was never seen. Where possible, the B horizon was sampled which was characteristically found at a depth of 8-10". The samples were collected in kraft paper bags and analyzed by Chemex Labs Ltd. in North Vancouver.

The bar graph (Figure 5) illustrates distribution of copper values in soil samples. A background of about 40 ppm copper is indicated with rather broad distribution of values above a threshold of about 200 ppm.

The plan of "Soil Sample Results", Figure 4, shows erratic distribution of high copper values in a manner which appears impractical to contour. This erratic distribution is similar to the spotty occurrence of chalcopyrite in various rock types.

CONCLUSION

No zone of probable economic significance is indicated by the work accomplished.

A handwritten signature in cursive script that reads "W.R. Bacon, P.Eng." The signature is written in dark ink and is positioned above the typed name.

W.R. Bacon, Ph.D., P.Eng.

SUMMARY OF COSTS

LUC CLAIM GROUP

			<u>Rate</u>		
C. Harivel	Geologist	June 5-14,24	\$750/m.	11 days	\$275.00
J. Harivel	Assistant	June 5-14	\$400/m.	10 days	\$133.00
J.C. Stephen	Superintendent	June 24	\$40/day		<u>40.00</u>
					\$448.00
Helicopter (Proportion of charges June 5 and 14)					
1 hour at \$150/hour					150.00
Chemex Labs Ltd. - 192 copper determinations at \$1.00 ea.					<u>192.00</u>
Total					\$790.00

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 6
day of July 1970, A.D.

[Signature]

[Signature]
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.
SUB-MINING RECORDER

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NO. 2450 MAP.....

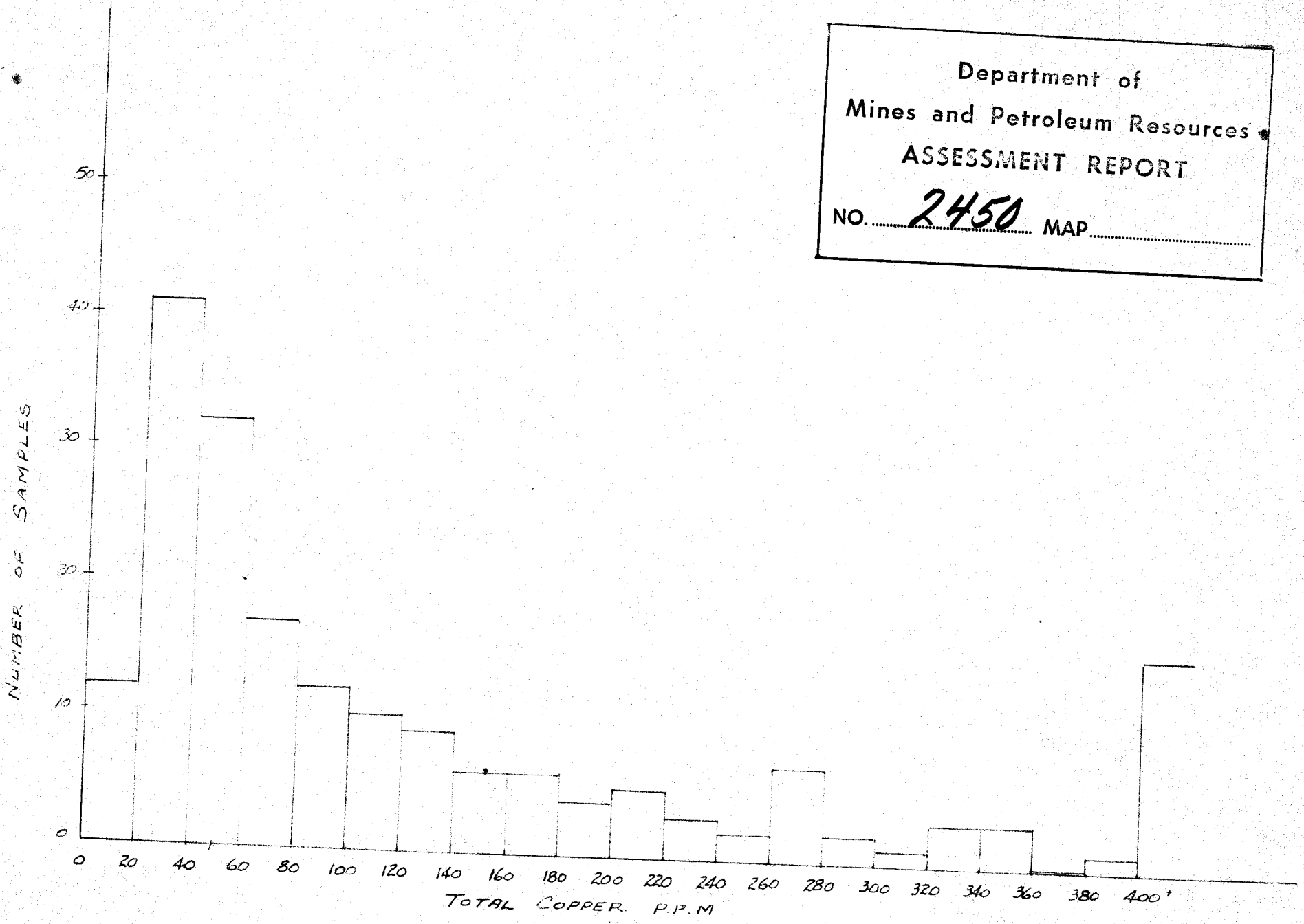
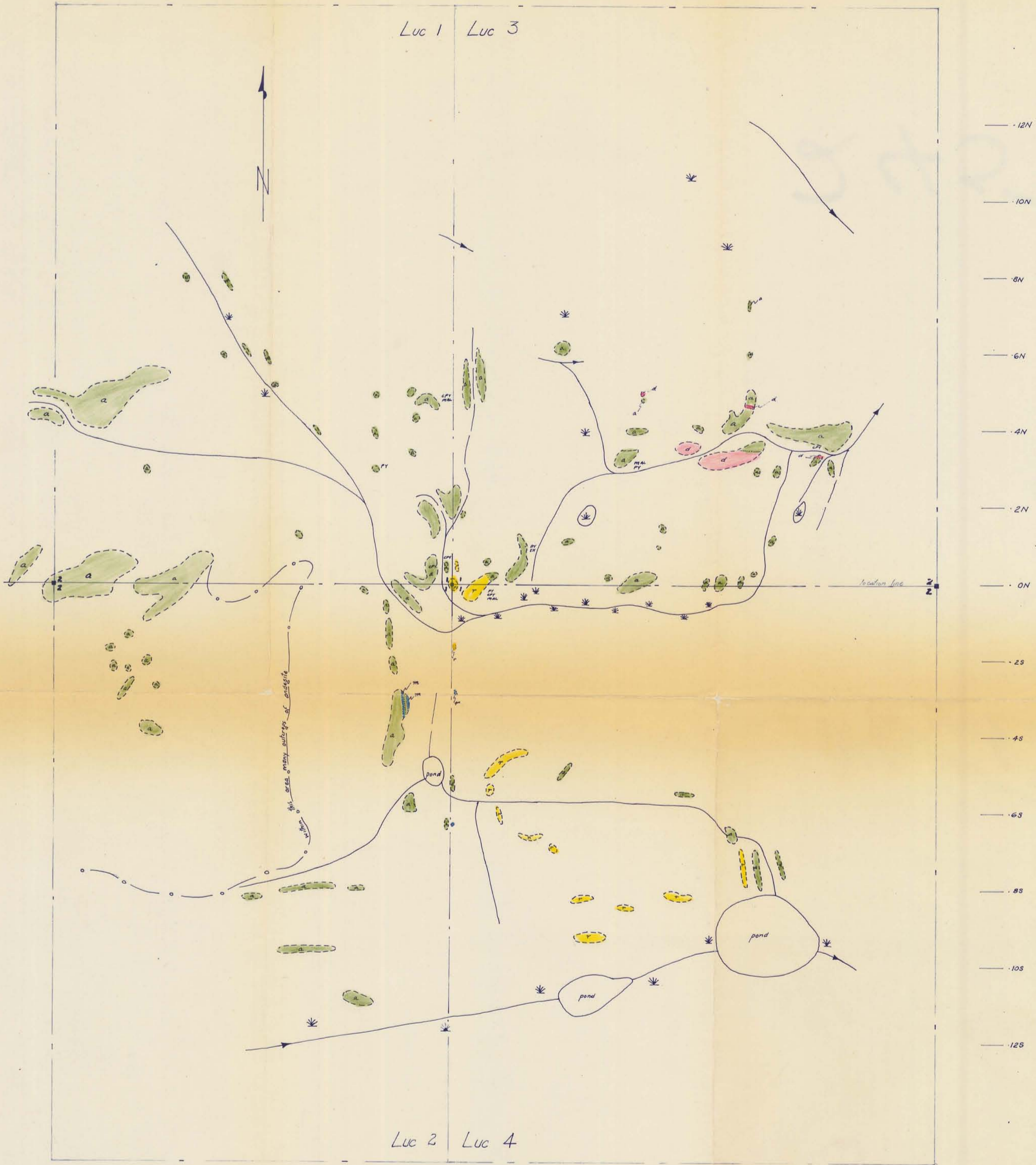


FIG. 5

LUC CLAIM GROUP
DISTRIBUTION GRAPH
SOIL SAMPLE VALUES

10W 8W 6W 4W 2W 0E 2E 4E 6E 8E 10E 12E



LEGEND

- d feldspar porphyry dyke
- a mainly andesite with some basalt
- r rhyolite
- m marble
- observed geological contact; limit of outcrop
- claim post

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FIG. 2

GEOLOGY MAP
LUC CLAIM GROUP

TCHENTLO LAKE AREA 93N/7
Scale 1"=200' June 1970

W.R. Beem, P. Eng.

To accompany "Geological, Geochemical and Serpenthinoid Report" by W.R. Beem, P. Eng. on the LUC Claim Group, Comox M.D., dated July 3, 1970.

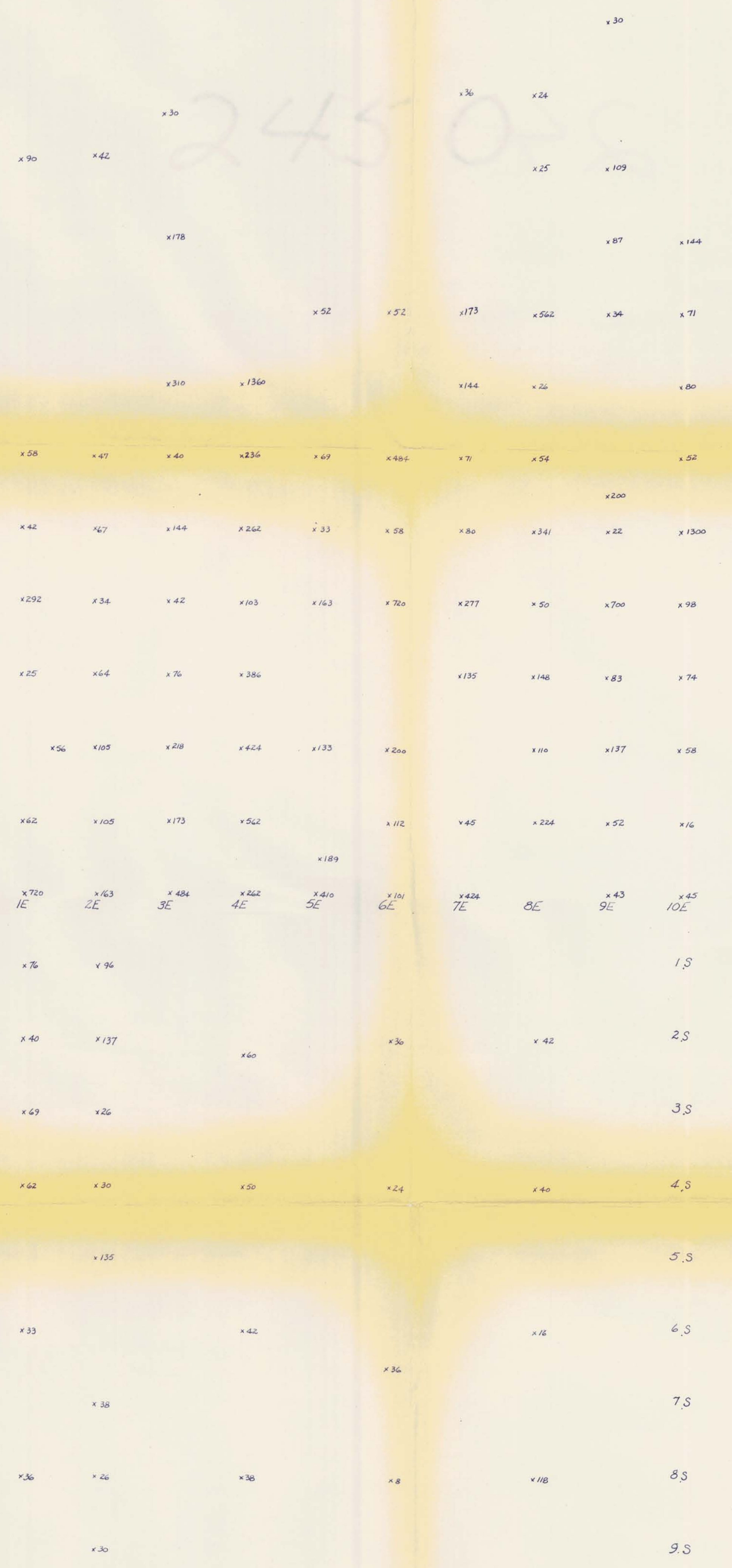
12N
11N
10N
9N
8N
7N



6N
5N
4N
3N
2N
1N

12W
11W
10W
9W
8W
7W
6W
5W
4W
3W
2W
1W

2450-S



2450-S

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2450 MAP #4

To accompany a Geologic, Geochemical and
Geophysical Report by W.R. Baum, P.Eng. with
Luc Claim Group, Amman M.D., dated
July 3, 1970.

W.R. Baum, P.Eng.

FIG. 4
SOIL SAMPLE RESULTS
LUC CLAIM GROUP
TCHENTLO LAKE AREA 93N/7
Scale 1"=100' June 1970