

GEOCHEMICAL REPORT
VESTOR EXPLORATIONS LTD.
SEAFORTH MINES LTD.
PACIFIC CASSIAR LTD.

Berry 1 and 2 mineral claims, Clearwater area
Kamloops Mining Division, B. C.

Lat. $51^{\circ}37'N$ Long. $120^{\circ}11'W$ N.T.S. 92 P/9

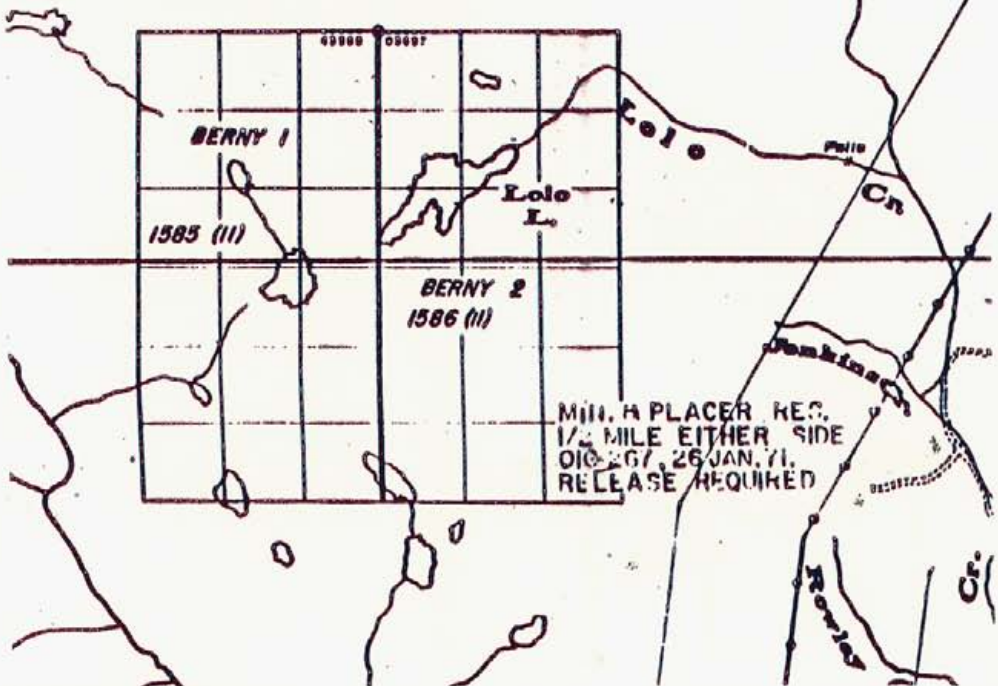
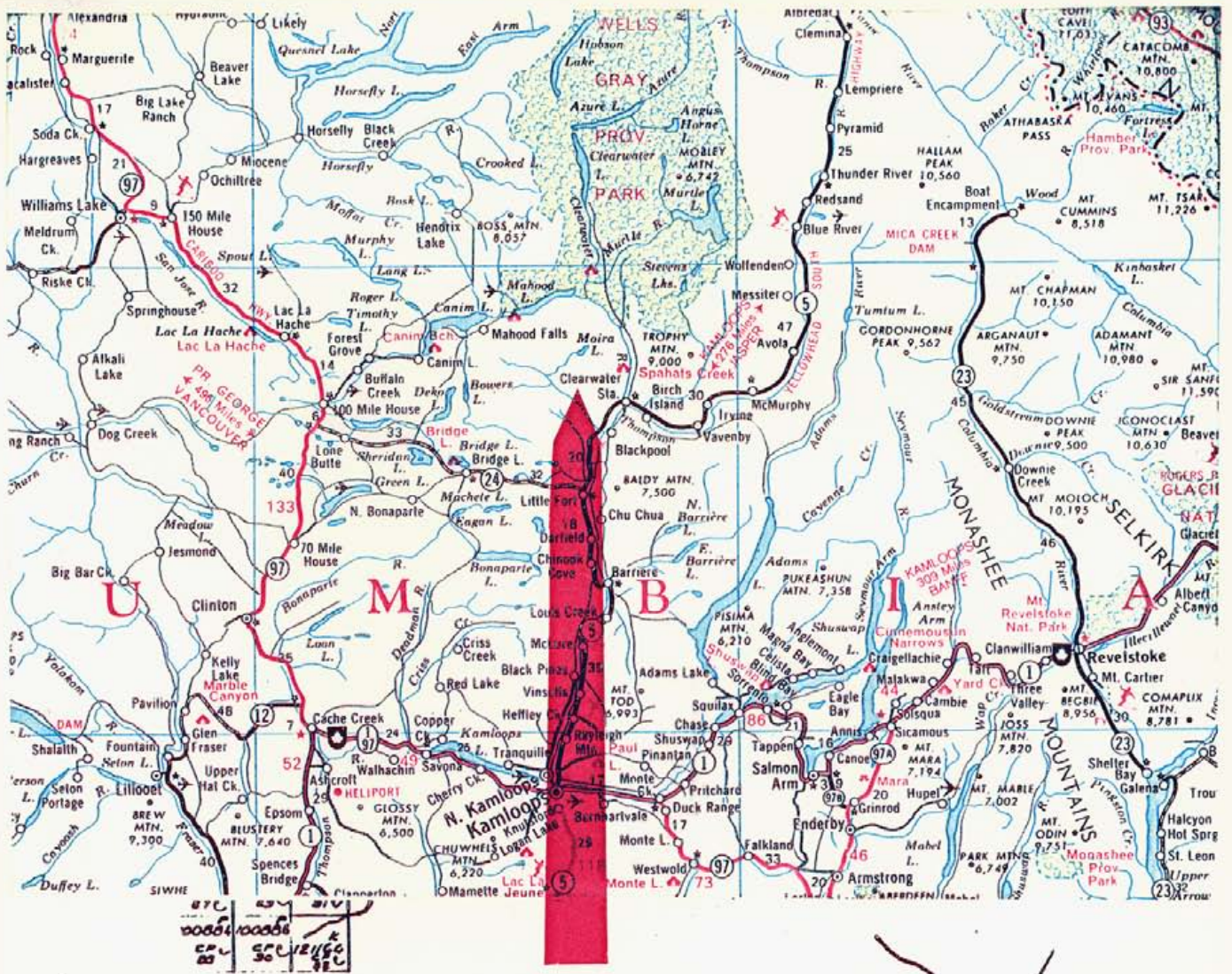
AUTHOR: Glen E. White, B.Sc., P. Eng.

DATE OF WORK: June 25 - July 2, 1979

DATE OF REPORT: August 16, 1979

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

7497
NO.



LOCATION AND CLAIMS MAP

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geophysical consulting
services Ltd.

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INTRODUCTION

This report discusses a reconnaissance soil sampling program conducted on the Berry claim group during late June on behalf of Vestor Explorations Ltd., Seaforth Mines Ltd. and Pacific Cassiar Ltd.

The Berry claims were staked as a result of regional silt sampling which suggested that the Lolo Lake area contained anomalous values of copper and zinc metallic ions.

PROPERTY

The Berry claim group consists of 36 contiguous units as illustrated on Figure 1.

LOCATION AND ACCESS

The claims are centered around the headwaters of Lolo Creek, some 6 miles west south west of Clearwater, B. C., latitude $51^{\circ}37'N$, longitude $120^{\circ}11'W$, N.T.S. 92 P/9.

Access to the area is by logging roads to Lolo Lake. A road map of the logging roads can be obtained from Clearwater Timber Products Ltd. at Clearwater, B. C.

GENERAL GEOLOGY

The general geology of the area is illustrated on Map 1278A, Bonaparte Lake. The area of the property is shown on Plate 1. The Fennel formation underlays the property and consists of pillow lava flows, greenstone, foliated greenstone, greenschist, argillite chert, minor amphibolite, limestone and breccia. This formation was considered by the Vestor, Seaforth, Pacific Cassiar group to contain the correct rocks for hosting a massive sulphide volcanogenic deposit. A subsequent stream silt sampling program detected the massive sulphide mineralization on Chui Chua Mountain some 13 miles south of Clearwater, B. C. This deposit occurs along an irregular rhyolite-dacite interface and

may consist of several massive sulphide lenses. These lenses are in the order of 20 m in thickness and consist of massive pyrite, some 2% copper and minor zinc with some precious metal values.

SURVEY SPECIFICATIONS

Survey Grid

The survey lines were laid out in an E - W direction on a reconnaissance basis and are spaced some 500 m apart. Some 24 km of survey grid were measured and flagged.

Geochemical Survey

Soil samples of the upper "B" horizon were taken along the traverse lines at 100 m intervals. The soil samples were then placed in soil envelopes provided by Chemex Labs Ltd. of North Vancouver, B. C. The samples were delivered to the above lab where -80 mesh sieving, digestion by hot perchloric/nitric acid and analysis by atomic absorption were carried out under the supervision of professional geochemists. 209 samples were obtained and analysed for p.p.m. copper, lead and zinc.

DISCUSSION OF RESULTS

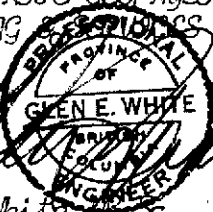
The copper geochemical map, Figure 2, shows a number of irregularly distributed, weakly anomalous, geochemical values. A definitely anomalous value of 295 p.p.m. was detected on line 2000S at 500W. The lead geochemical results are in the order of 4 p.p.m. background. A response of some 15 - 30 p.p.m. was detected across two lines immediately northwest of Lolo Lake. A single sample high of 48 p.p.m. was detected on line 1000S at 500W.

The zinc values show a larger random distribution of double background values with a suggested north - south orientation. This may only be an effect of the contouring. The values of 210 - 270 p.p.m. northwest of Lolo Lake and at 1000S - 500W show excellent agreement with the anomalous lead values. The high copper value just south of Walter Lake is associated with a weakly anomalous zinc value. The anomalous lead value at 500S - 1300W is also coincident with an anomalous zinc trend.

CONCLUSION AND RECOMMENDATIONS

A program of reconnaissance soil sampling was conducted over the Berry 1 and 2 mineral claims during the latter part of June 1979. The survey detected several areas of coincident multi-element anomalies. An interesting zone of anomalous zinc and lead values was detected immediately northwest of Lolo Lake. Stations 500S - 1300W and 1000S - 500W also contained single point lead-zinc values. A high copper value occurs at 2000S - 500W which is part of a possible north-south anomalous zinc trend. It is recommended that these areas be further defined with a program of detailed soil sampling.

Respectfully submitted,
 GLEN E. WHITE GEOPHYSICAL
 CONSULTING SERVICES LTD.



Glen E. White
 Glen E. White, P. Eng.

STATEMENT OF QUALIFICATIONS

NAME: WHAITE, Glen E., P. Eng.

PROFESSION: Geophysicist

EDUCATION: B.Sc. Geophysics - Geology
University of British Columbia

PROFESSIONAL ASSOCIATIONS: Registered Professional Engineer,
Province of British Columbia

Associate member of Society of Exploration Geophysicists.

Past President of B. C. Society of Mining Geophysicists.

EXPERIENCE: Pre-Graduate experience in Geology - Geochemistry - Geophysics with Anaconda American Brass.

Two years Mining Geophysicist with Sulmac Exploration Ltd. and Airborne Geophysics with Spartan Air Services Ltd.

One year Mining Geophysicist and Technical Sales Manager in the Pacific north-west for W. P. McGill and Associates.

Two years Mining Geophysicist and supervisor Airborne and Ground Geophysical Divisions with Geo-X Surveys Ltd.

Two years Chief Geophysicist Tri-Con Exploration Surveys Ltd.

Eight years Consulting Geophysicist.

Active experience in all Geologic provinces of Canada.

COST BREAKDOWN

<u>Personnel</u>	<u>Date</u>	<u>Wages</u>	<u>Total</u>
B. Booth	June 25-July 2/79.....	\$120/day.....	\$960.00
J. Owens.....	"....."	95/day.....	760.00
Meals and Accomodations.....	@ \$35/m/d.....		560.00
Vehicle 4x4 plus gas & insurance @ \$60/day.....			480.00
Geochemical Analysis 209 x #3.25.....			670.00
Materials.....			87.00
Drafting, ineterpretation and reports.....			850.00
			<hr/>
		Total.....	\$4367.00

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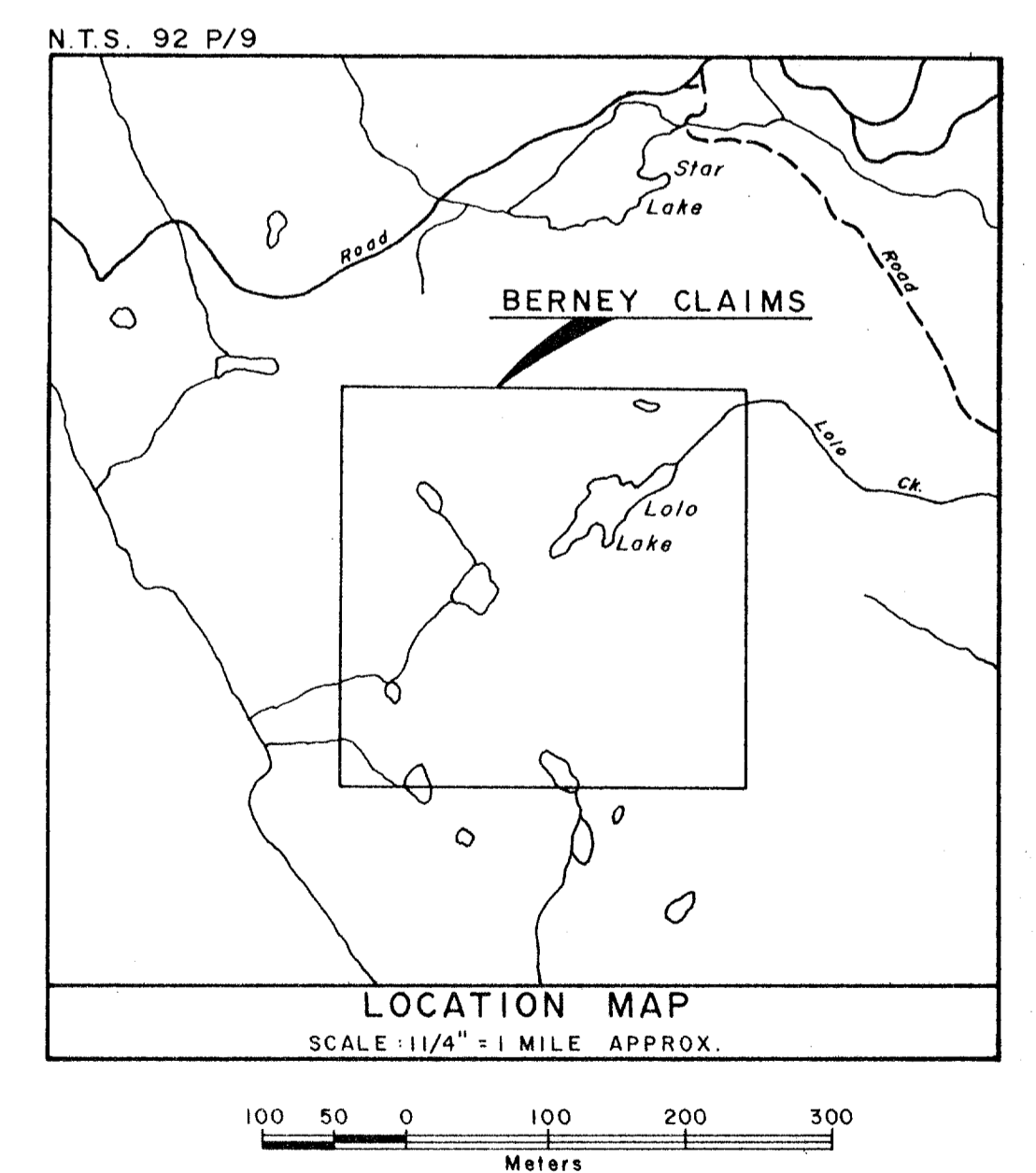
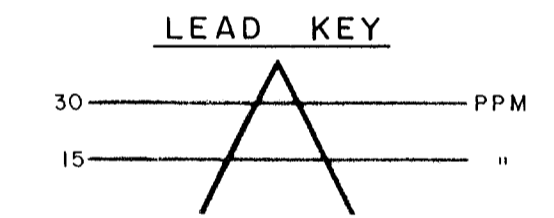
120°11'

0+00—
5+00S—
10+00S—
15+00S—
20+00S—
25+00S—
30+00S—



LEGEND
CONTOUR INTERVAL = 15, 30 PPM

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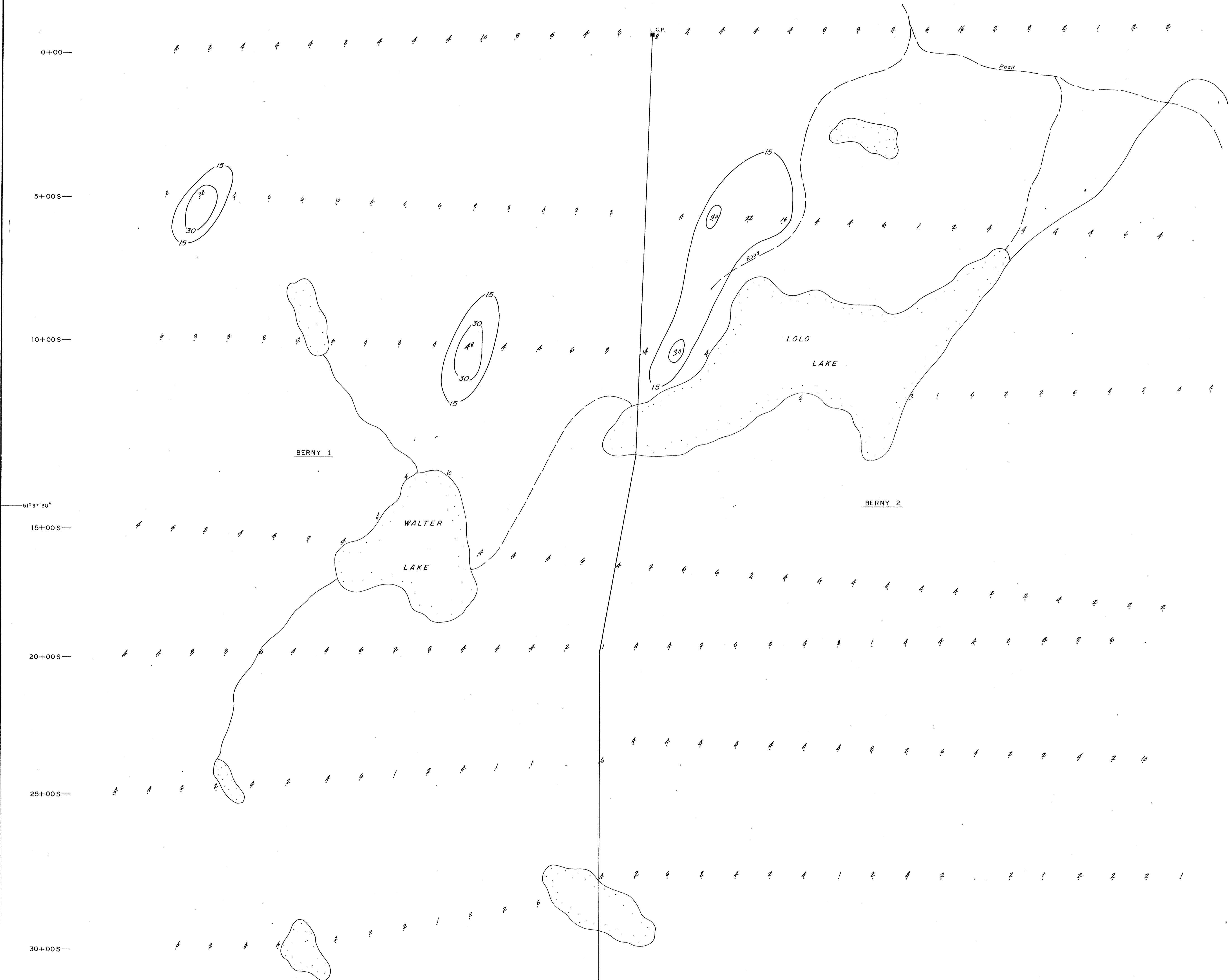
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—BERNEY CLAIMS—
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GEOCHEMICAL MAP
LEAD PPM

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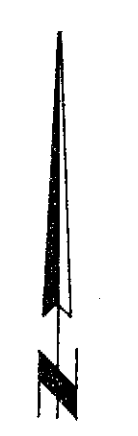
INTERPRETED BY: G.E.W.
DRAWN BY: T.M.
CHECKED BY:
DATE: JULY, 1979
FIG. No.: 3

To Accompany Report on
THE BERNEY CLAIMS
Date *July 1979*
By GLEN E. WHITE



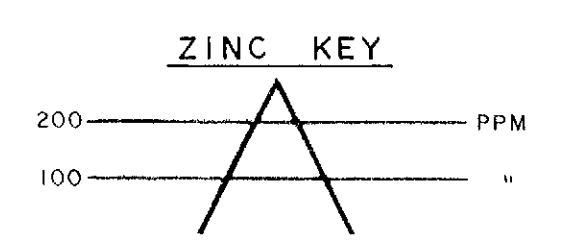
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120°11'

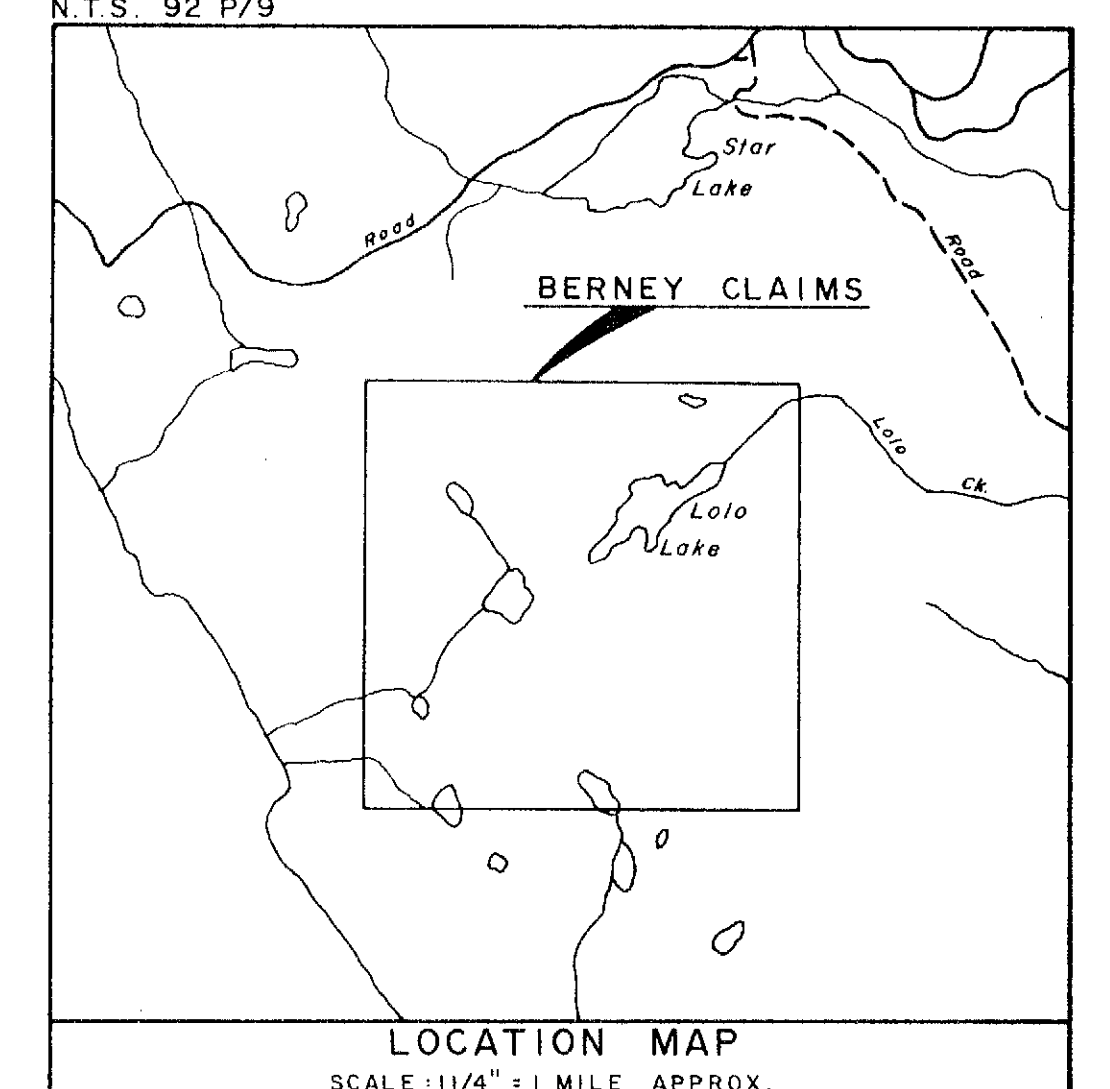


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MINERAL RESOURCES BRANCH
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NO.



N.T.S. 92 P/9



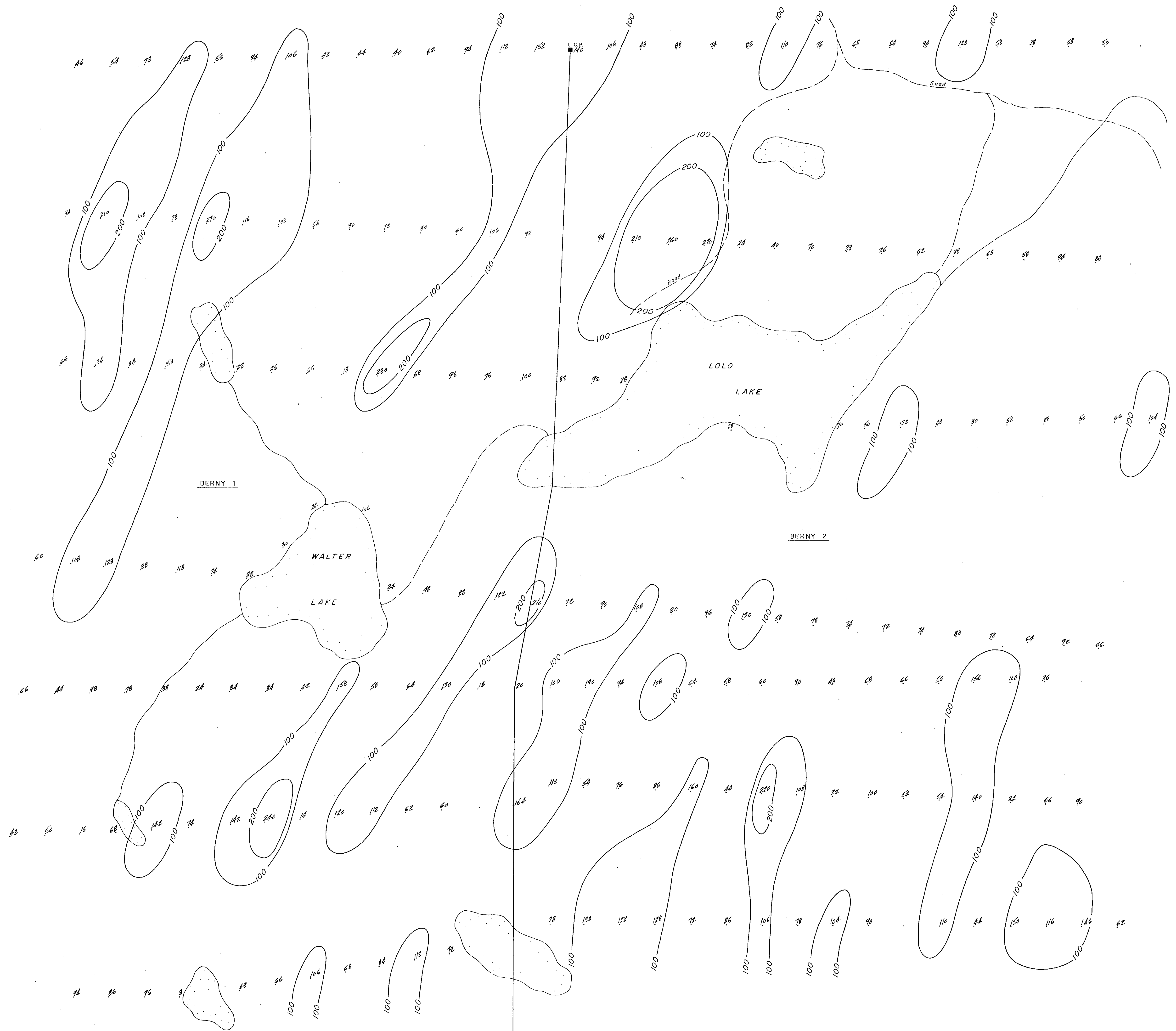
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BERNEY CLAIMS -
KAMLOOPS MINING DIVISION - BRITISH COLUMBIA

GEOCHEMICAL MAP
- ZINC PPM -

Glen C. White geophysical consulting services Ltd.	INTERPRETED BY: G.E.W. DRAWN BY: T.M. CHECKED BY: DATE: JULY, 1979 FIG. No.: 4
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To Accompany Report on
THE BERNEY 21
Date July 1979
By GLEN C. WHITE

0+00
5+00S
10+00S
15+00S
20+00S
25+00S
30+00S



14 W 12 W 10 W 8 W 6 W 4 W 2 W 0 2 E 4 E 6 E 8 E 10 E 12 E 14 E 16 E

120° 11'

0+00—

5+00S—

10+00S—

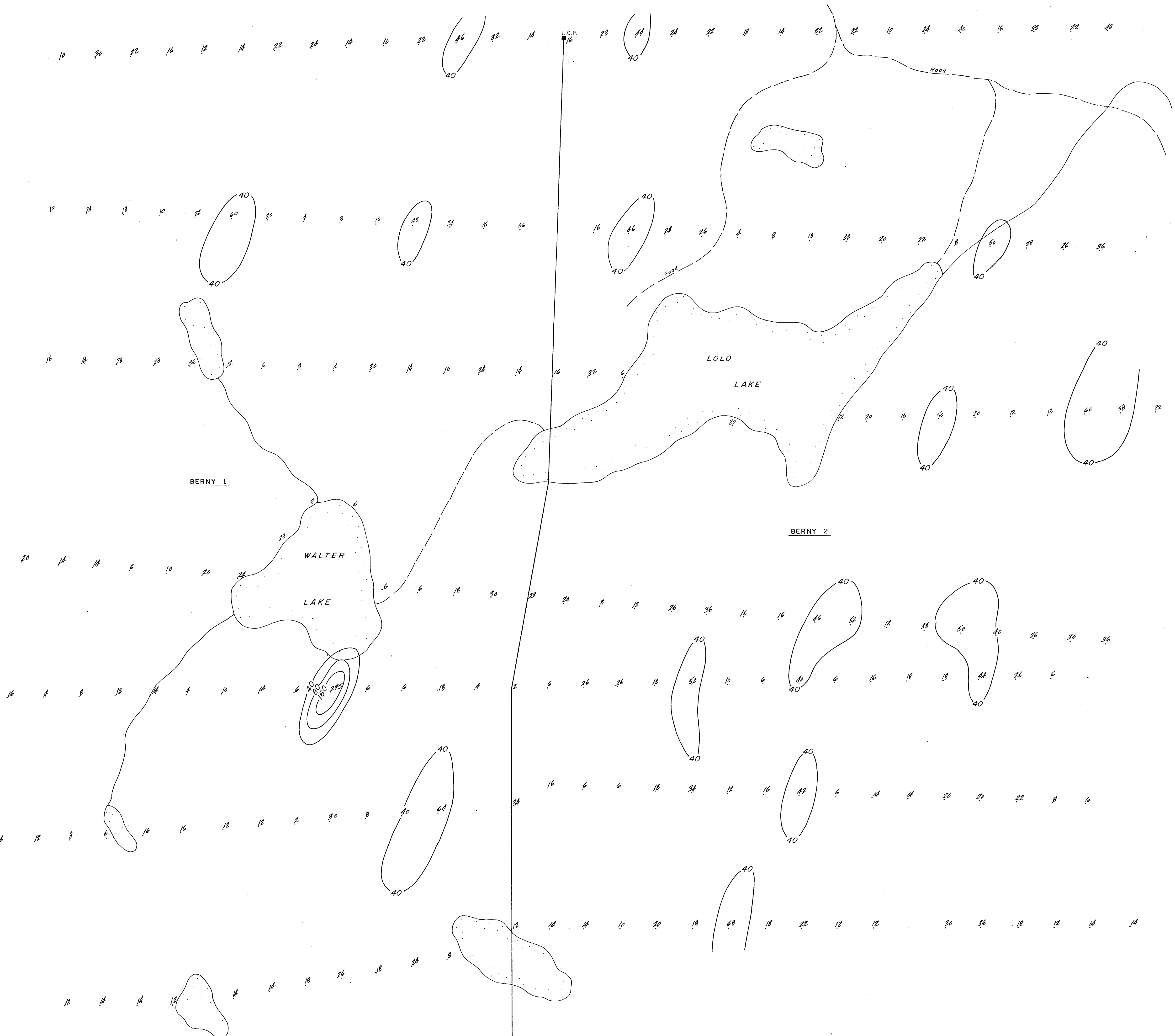
51° 37' 30"

15+00S—

20+00S—

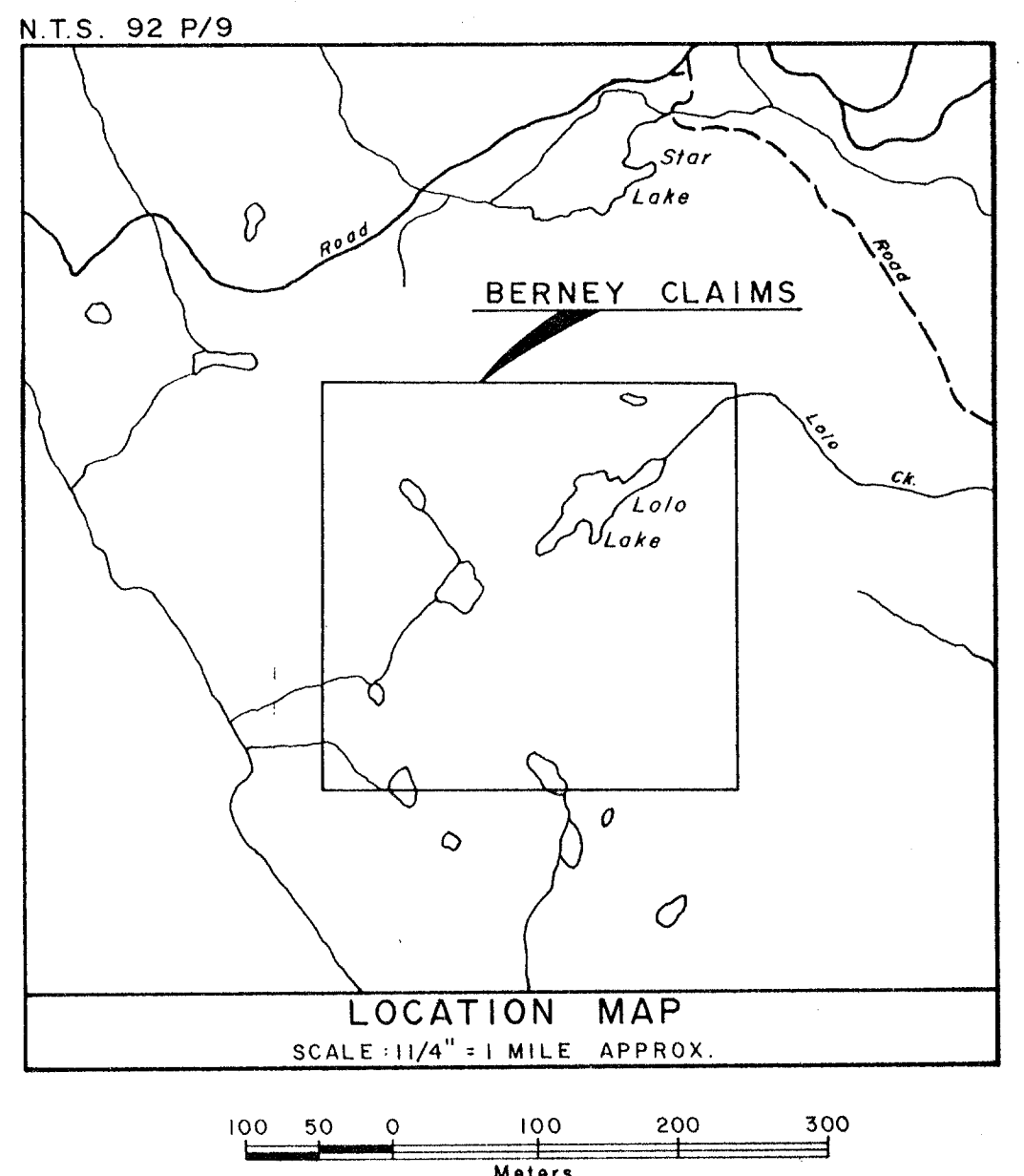
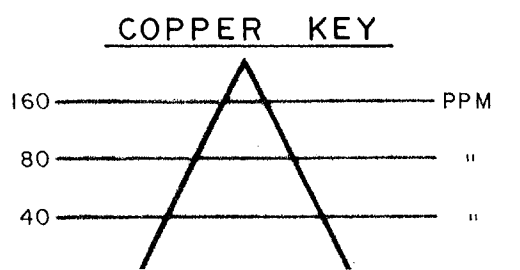
25+00S—

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LEGEND
CONTOUR INTERVAL: 40, 80, 160 PPM

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—BERNEY CLAIMS—
KAMLOOPS MINING DIVISION — BRITISH COLUMBIA

GEOCHEMICAL MAP
— COPPER PPM —

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INTERPRETED BY: G.E.W.
DRAWN BY: T.M.
CHECKED BY:
DATE: JULY, 1979
FIG. No.: 2

To Accompany Geochemical Map on
THE BERNEY CLAIMS
Date: July 1979
By: GLEN E. WHITE