

UMEX

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4739

GEOCHEMICAL SOIL SURVEY
AND
GROUND MAGNETIC SURVEY

94D/16W

BOW 1-8 MINERAL CLAIMS

(Record Numbers 127858-127861, 127887-127890)

Omineca Mining Division

N.T.S. 92D/16W

56°45'North, 126°21'West

Department of
Mines and Geoscience Resources
ASSESSMENT REPORT

NO. **4739** MAP

by

Colin V. Dyson, P.Eng.

WORK DATES: Geochemical Soil Survey, August 24-29, 1973
Ground Magnetic Survey, August 24-29, 1973

DATE: November 7, 1973

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BOW ASSESSMENT REPORT

INTRODUCTION

During the period August 24, 1973 to August 29, 1973, a program of soil geochemistry and a ground magnetometer survey was completed on the Bow 1-8 mineral claims.

The Bow claims are located in the Omineca Mining Division, and lie four miles west of Fleet Peak at elevations varying from 4500 to 5500 feet. The centre of the claim group is at $56^{\circ}45'N$, $126^{\circ}21'W$ (N.T.S. 94D/16W). Access is by helicopter or by float planes which can land on Wrede Lake that borders the southern edge of the property. The Bow 1-4 claims were staked on July 31, 1973 and recorded on August 14, 1973, and the Bow 5-8 claims were staked on August 9, 1973 and recorded on September 10, 1973.

GENERAL GEOLOGY

The claim group is predominantly underlain by andesitic to rhyolitic volcanic rocks presumably of the Upper Triassic - Lower Jurassic Takla Group. The volcanics have been intruded by a small body of quartz-feldspar porphyry, possibly related to the Jura-Cretaceous Omineca Intrusives. A prominent gossan zone covers the area of the intrusive, which contains from 1 - 5% disseminated pyrite.

Northerly trending basaltic dikes cut through the area.

The regional structural trend through the claims is northwesterly, paralleling a structural break which can be inferred from topographic features.

GRID CONTROL

A base line was established bearing 355° across the claim block by the use of a compass and Topofoil chain. The Topofoil chain is a "lost" thread measuring device in which a counter accurately records in feet from 0 to 15,000 feet the length of thread unreeling from the unit when measuring a length or distance covered. The operator attaches the end of the thread to a fixed point, the counter is set a zero and the operator moves on foot carrying the Topofoil chain. As the thread unwinds, the counter records the length. The counter readout is accurate to $\pm 2\%$. On completion of a measurement the counter is reset at zero. The biodegradeable thread is cut and abandoned.



FIGURE 1

BOW CLAIMS, LOCATION MAP
 Omineca Mining Division
 N.T.S. 94D/16 - Scale 1:250,000

C. D. Dixon

4739 MI

The base line was marked by using coloured flagging, stations were numbered and flagged at 200 foot spacings along the line. Cross lines were placed every 400 feet or 800 feet in N85E - S85W directions by use of the Topofoil chain and compass. These were marked with flagging at stations spaced at 200 foot intervals along the lines. The grid was tied into the claim posts and obvious topographic features.

GEOCHEMICAL SOIL SURVEY

Methods

In the course of the survey a total of 184 soil samples were collected over 7.0 miles of line grid, and subsequently analyzed for molybdenum and zinc. At each soil sample location a hole was dug with a mattock and where possible a 4 - 6 ounce sample of B horizon soil was taken with a stainless steel trowel. The soil was placed in a Kraft, high wet strength sample bag and marked appropriately.

The sample collection was undertaken by B. Wong and R. Walker. The writer was in the field on August 24 to organize the survey and to study the soil development and the general geology.

Analytical Treatment of Soil Samples

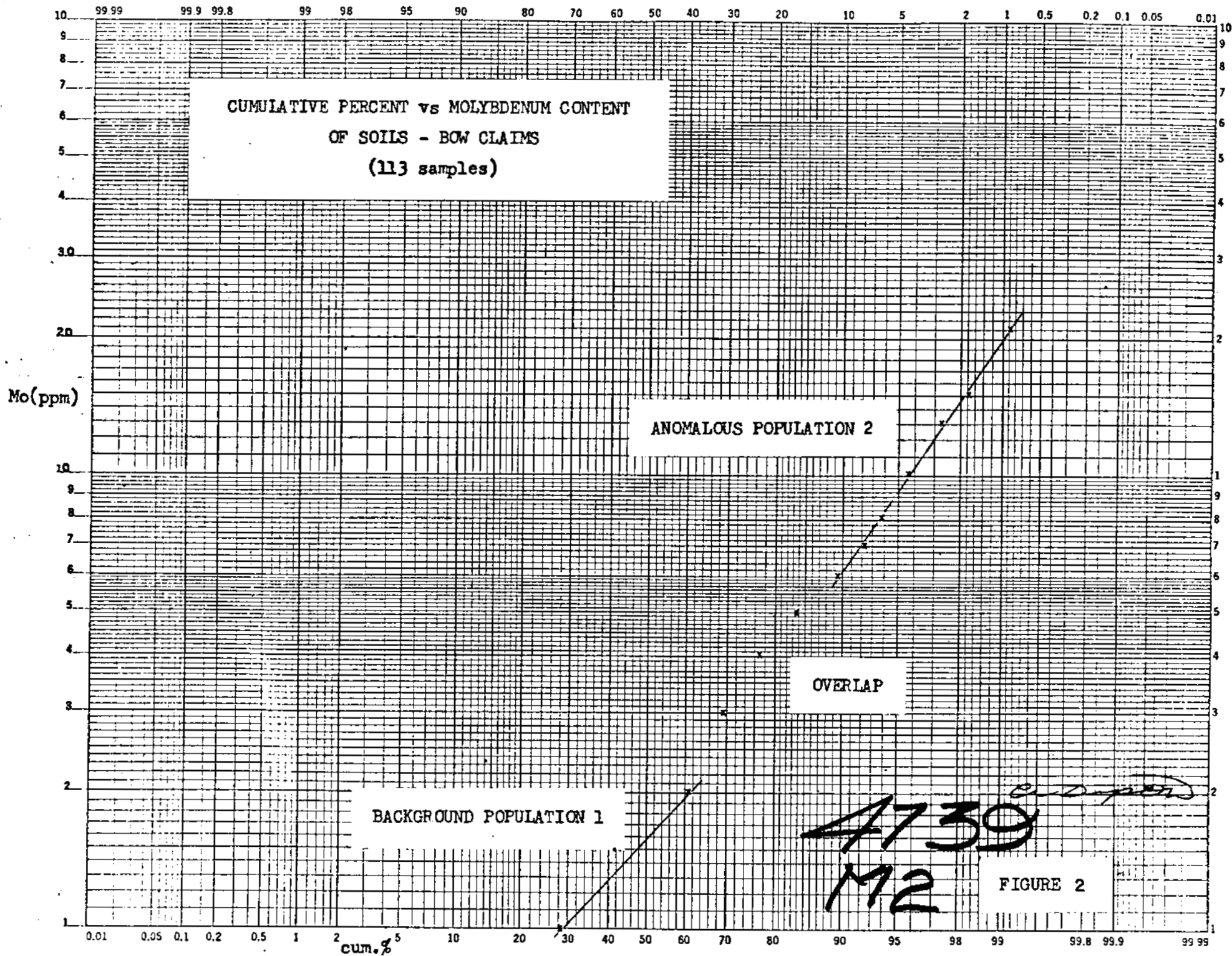
The soil samples were analyzed by Core Laboratories in Vancouver. The samples were dried in their respective bags at a temperature of 120^oF and then sieved to -80 mesh through a nylon screen. Two grams of each sample were digested for three hours in a 80% perchloric, 20% nitric acid mixture, bulked with deionized water, and analyzed by atomic absorption.

Results and Conclusions

A statistical analysis was made of the molybdenum results (see Figure 2). A qualitative examination of the zinc results indicates that no significant anomalous patterns are present (see Figure 5).

Statistical cumulative frequency analysis of the molybdenum results defines two populations of 1 - 2 ppm and +6 ppm molybdenum; the 2 - 6 ppm range is a zone of overlap. Anomalous molybdenum values are considered to be those of the +6 ppm population.

Two anomalies are outlined by the survey (see Figure 3).



Anomaly 1 coincides in part with the gossan zone and probably reflects a bedrock source.

Anomaly 2 occurs in a flat, poorly drained portion of the valley, devoid of outcrop, and probably represents accumulation of molybdenum fixed by organic materials.

GEOPHYSICAL SURVEY

Field Procedures and Data Processing

The ground magnetic survey was completed with a McPhar MF-700 Fluxgate vertical component magnetometer. The reading accuracy of the instrument is ± 10 gammas below the 1000 scale and ± 20 gammas above the 1000 scale. Readings were taken every 100 feet along the N85E - S85W grid lines. Diurnal time corrections of the geomagnetic field were made by checking every two hours with established standard base stations located on the base line at every second cross line. The operator traversed a given portion of the grid area in a loop-like fashion checking in at respective standard base stations. The magnetic survey results are plotted on Figure 4 and contoured at 100 gamma intervals. The magnetic survey was performed by G. Nolin.

Results

The survey outlined a northwesterly striking magnetic high anomaly which can be correlated with augite-porphyrific volcanics which outcrop in the area. A northwesterly series of linear magnetic low anomalies is outlined in an area where a structural break is indicated topographically and suggests the likely presence of a fault structure.

The survey did not show any obvious diagnostic patterns in the area of the gossan zone and molybdenum geochemical anomalies.

CONCLUSIONS AND RECOMMENDATIONS

1. Soil geochemistry outlined two molybdenum anomalies; anomaly 1 probably reflecting a bedrock source, coincident with a gossanous alteration zone, and anomaly 2 reflecting accumulation and fixing by organic material.
2. The ground magnetometer survey outlined a northwest trending fault structure and a belt of augite-porphyrific volcanics.

3. Further work should be performed on the claims to evaluate the potential of molybdenum geochemical anomaly 1.

Respectfully submitted,



C.V. Dyson, P.Eng.

STATEMENT OF COSTS

LABOUR COSTS

Geophysical - Field

G. Nolin 3 days @ \$30/day, Aug. 24-26 \$ 90.00

Geochemical - Field

R. Walker 6 days @ \$25/day, Aug. 24-29 \$ 150.00

B. Wong 6 days @ \$25/day, Aug. 24-29 \$ 150.00

C. Dyson 1 day @ \$55/day, Aug. 24 \$ 55.00

Office

C. Dyson 1 day @ \$55/day, Nov. 7 \$ 55.00

Drafting

G. Bandura 3 days @ \$30/day \$ 90.00

PERSONNEL MAINTENANCE

15 days @ \$10/day \$ 150.00

ANALYTICAL COSTS

184 soil samples @ \$2 per sample \$ 368.00

TRANSPORTATION COSTS

50 miles - Beaver (float) rental @ 75¢/mile \$ 37.50

20 miles - Otter (float) @ \$1.25/mile \$ 25.00

SECRETARIAL, REPRODUCTION, MISCELLANEOUS COSTS

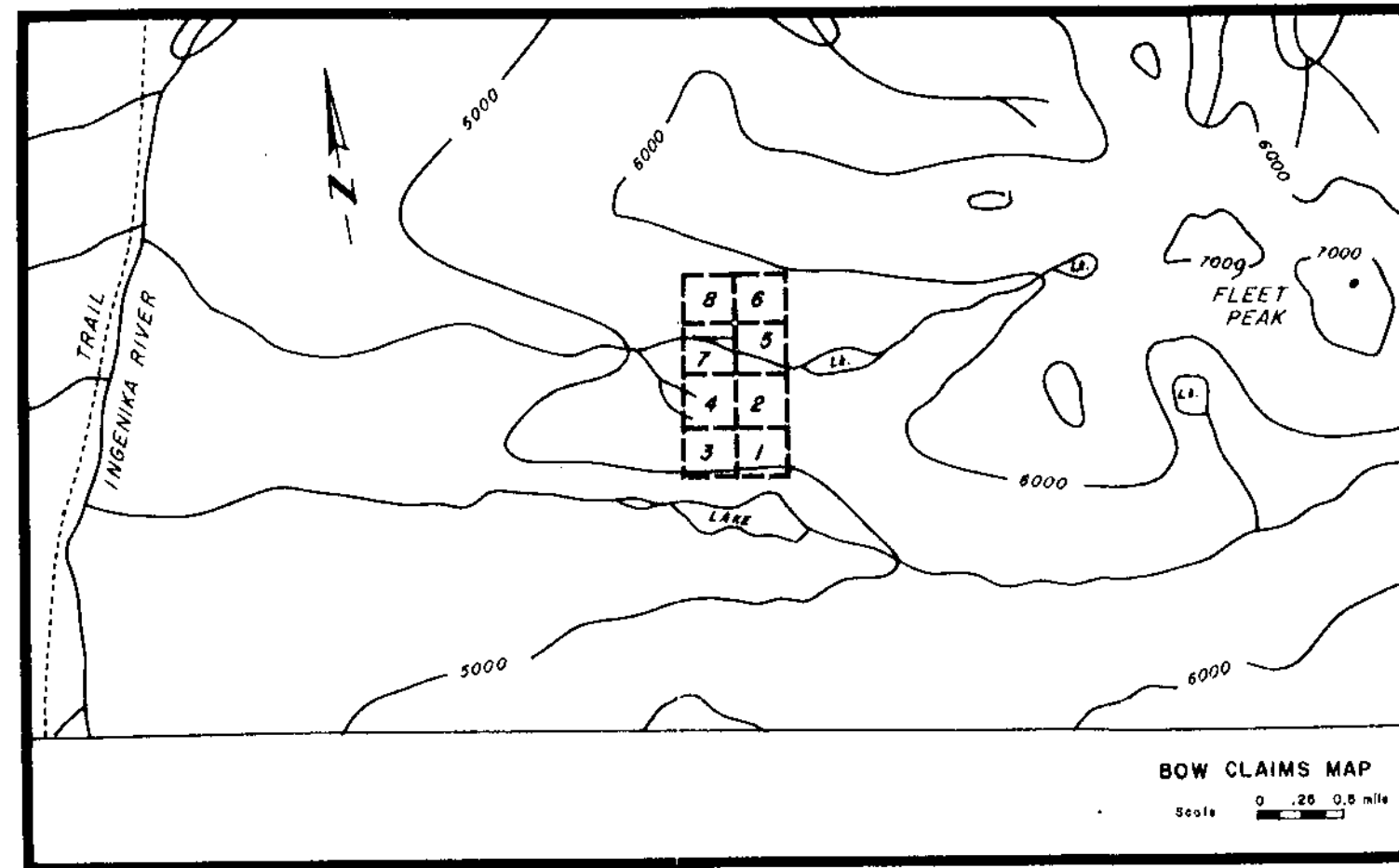
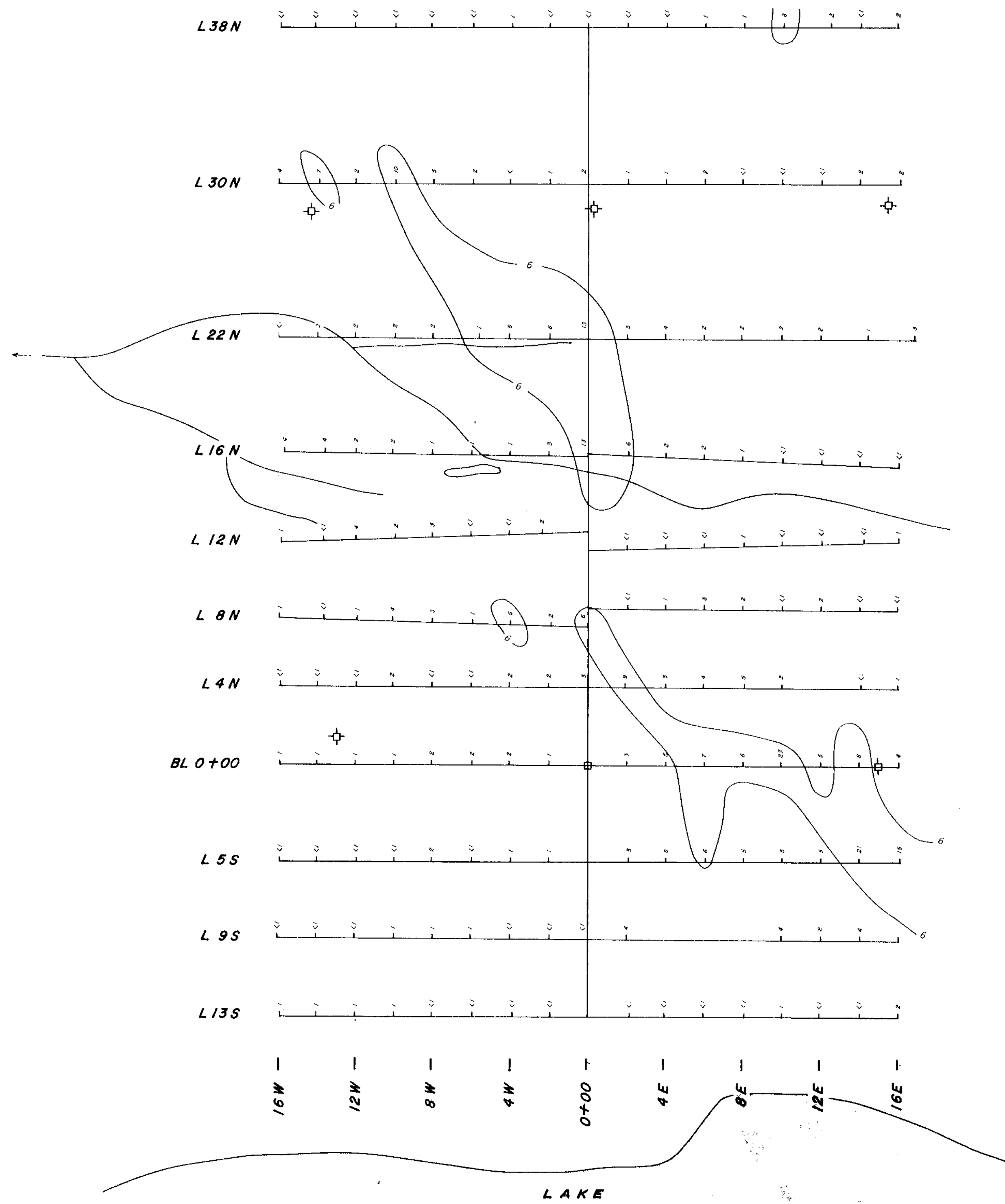
\$ 75.00

TOTAL \$1245.50

Declared before me at the City of Vancouver, in the Province of British Columbia, this 3 day of December 1973

C. Dyson

John S. ... Sub-Mining Engineer
A Commissioner for taking Affidavits within British Columbia
A Notary Public in and for the Province of British Columbia



4739-M3

Department of
Mines and Technical Surveys
Assessment Report
NO. 4739 MAP #3

LEGEND

- Mo Values are in PPM
- Grid Lines
- Claim Posts (not surveyed)

Figure No. 3

BOW CLAIMS
SOIL GEOCHEMISTRY
(MOLYBDENUM)

NTS: 94 D

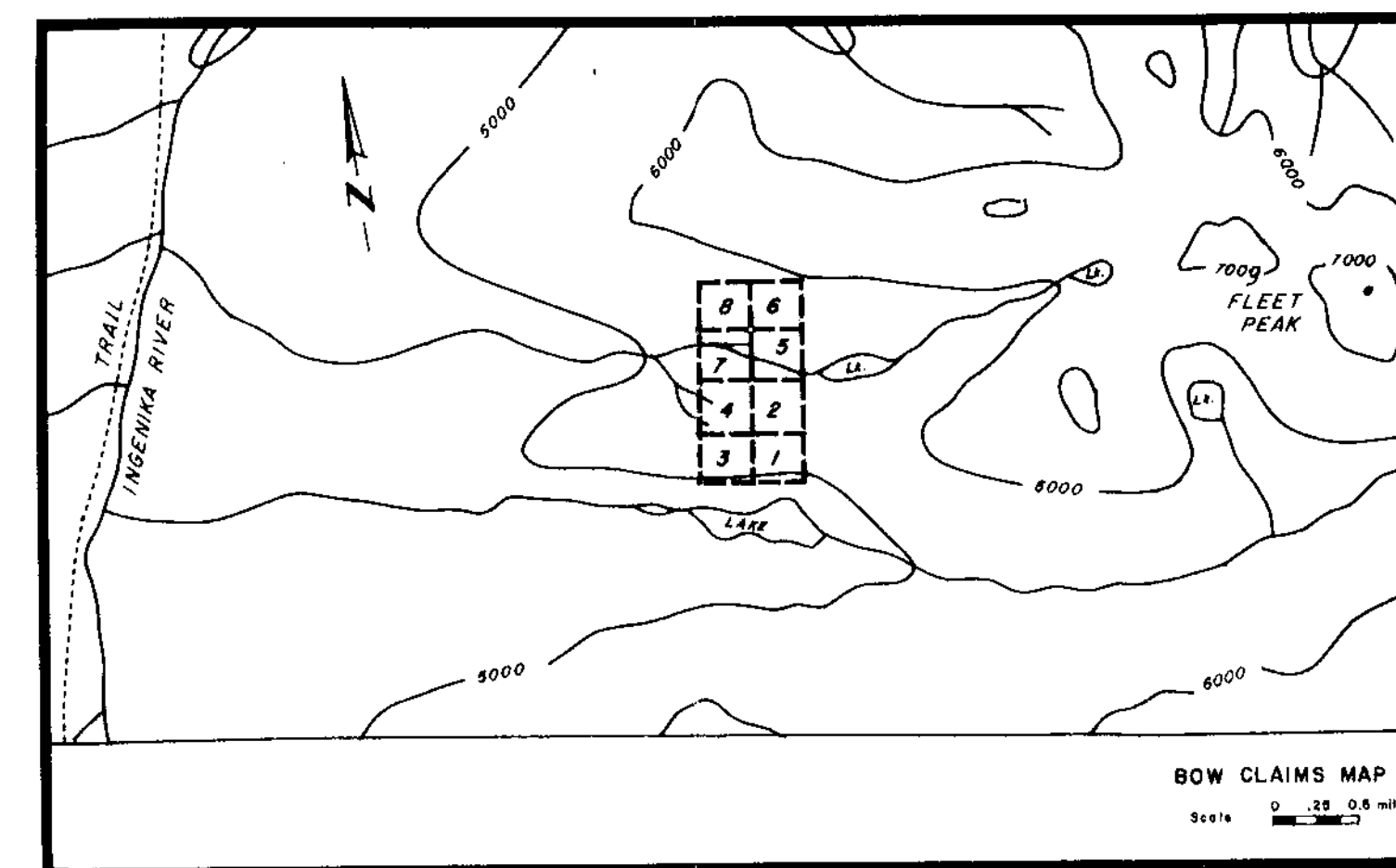
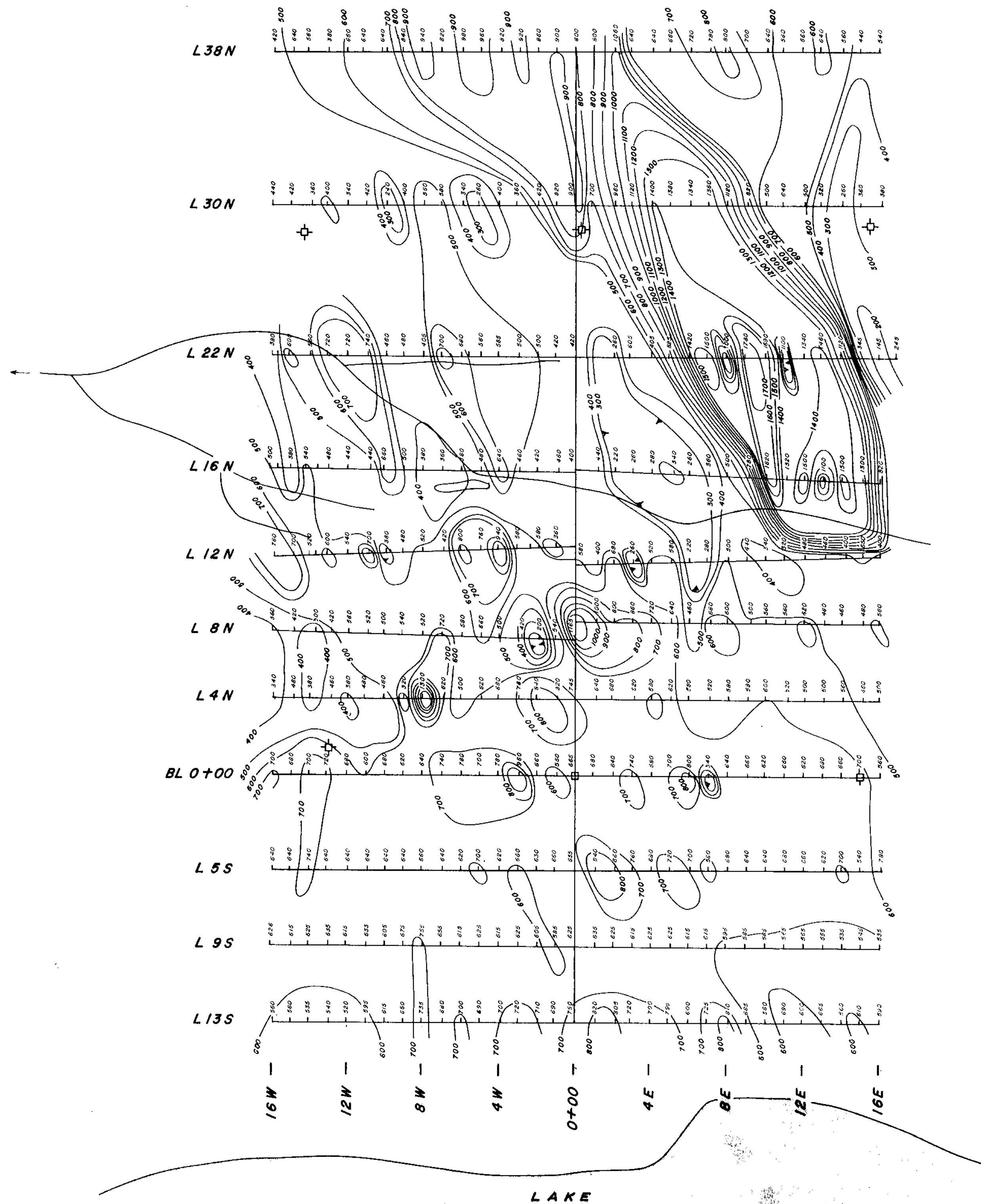
Scale: 0 400' 800'

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DRAWN BY: G. Bandura DATE: July, 1973 SURVEYED BY: G. Nolin	DWG. No.
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To accompany report on a
Geochemical Soil Survey and
Ground Magnetic Survey on the
BOW 1-8 mineral claims,
Omineca Mining Division,
by C.V. Dyson, P.Eng.

C. V. Dyson



4739-MA

Department of
Mines and Technical Resources
ANNUAL REPORT
NO 4739 Map #4

LEGEND

- 550 600 650 700 750 Magnetic Values are in Gammas
- Grid Lines
- Claim Posts (not surveyed)

Figure No. 4

BOW CLAIMS

MAGNETOMETER SURVEY

McPHAR M-700

NTS: 94 D

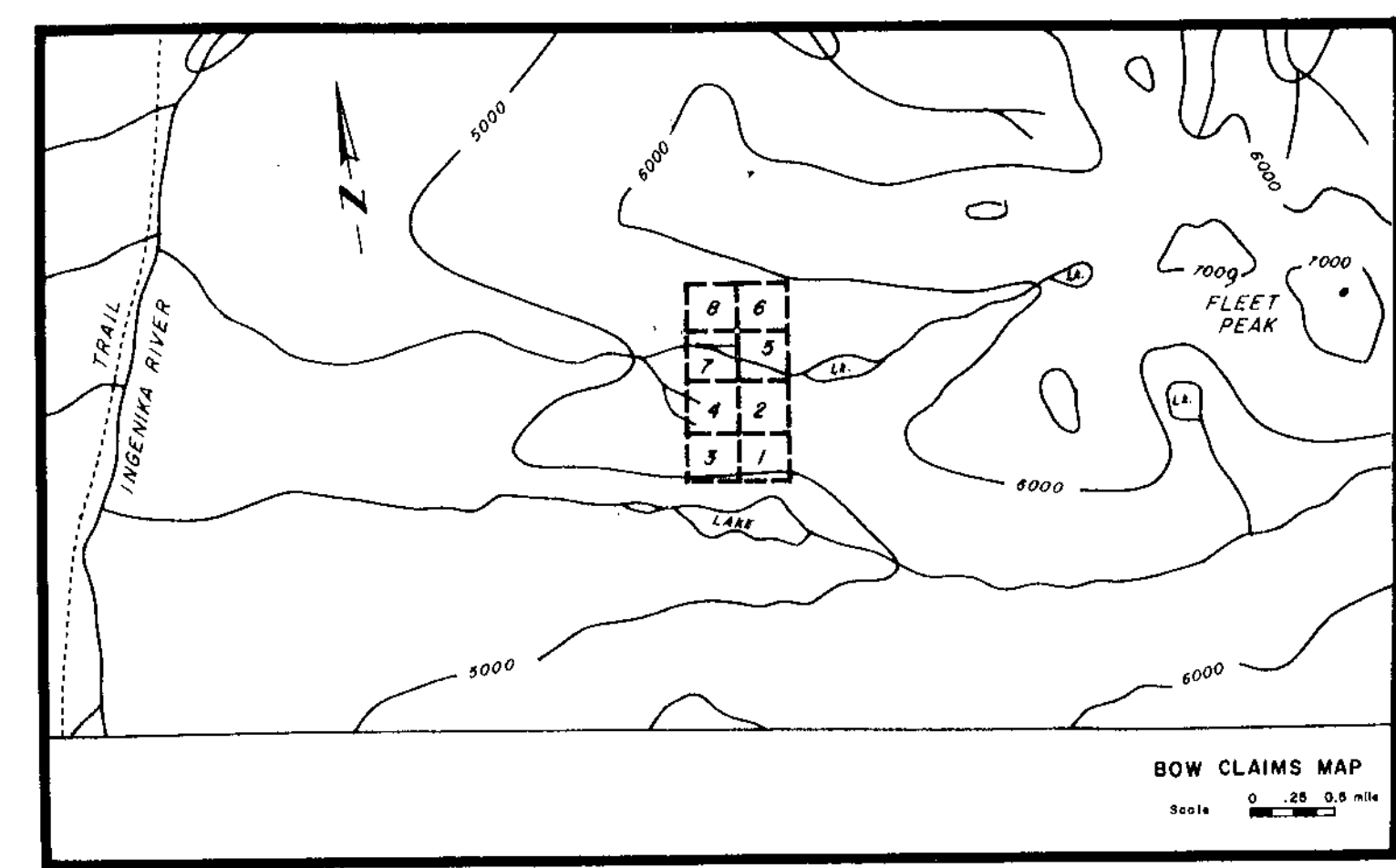
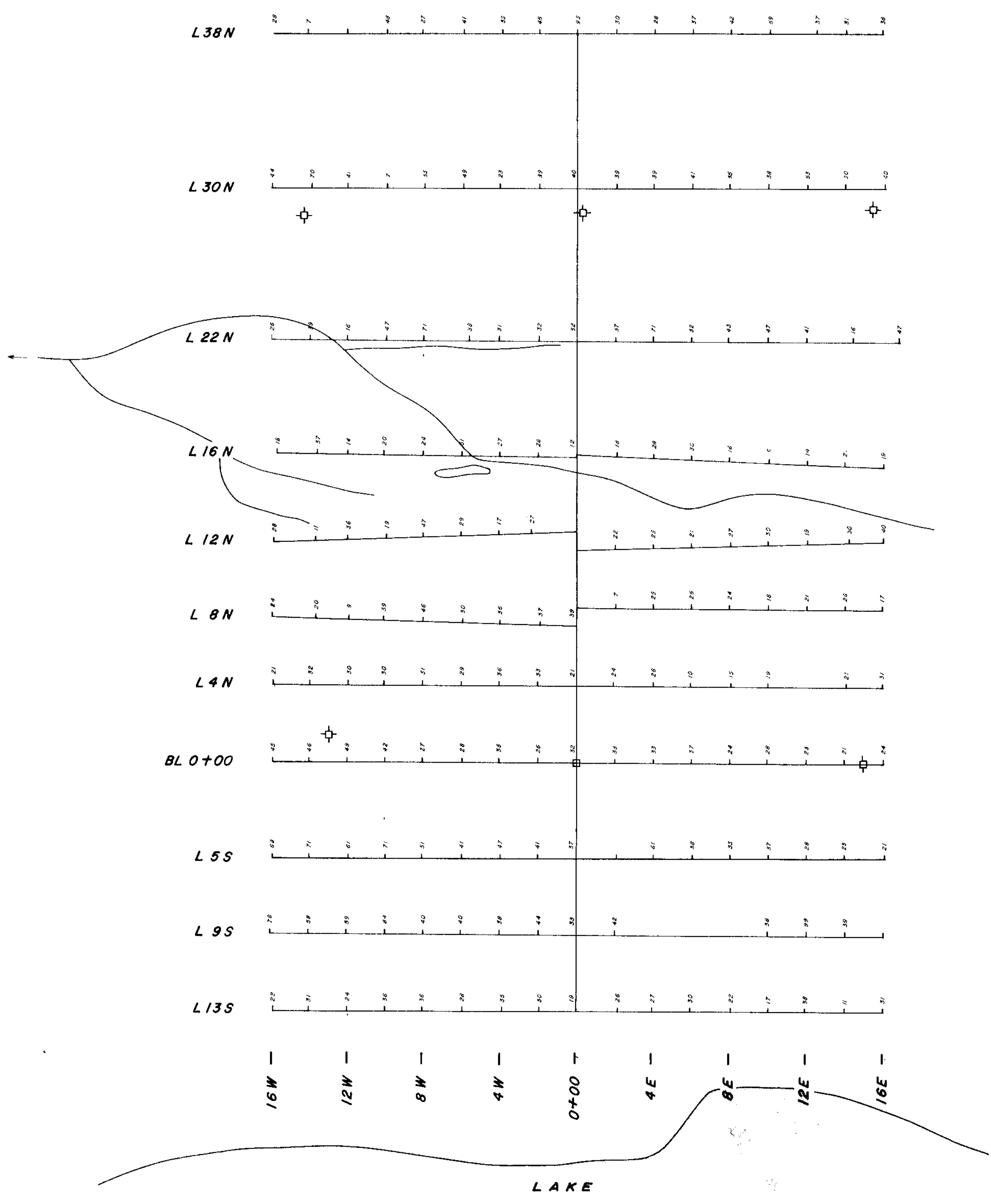
Scale: 0 400' 800'

UMEX CORPORATION LTD.

DRAWN BY: G. Bandura	DWG. No.
DATE: July, 1973	
SURVEYED BY: G. Nalin	

To accompany report on a
Geochemical Soil Survey and
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C. V. Dyson



4739-M5

Geological
Mines and Minerals Services
Assessment Services
NO. **4739** MAP # **5**

LEGEND

□ Zinc Values are in PPM
— Grid Lines
□ Claim Posts (not surveyed)

Figure No. 5

BOW CLAIMS
SOIL GEOCHEMISTRY
(ZINC)

Scale: 0 400' 800'

UMEX CORPORATION LTD.

NTS: 940

DRAWN BY: G. Bandura
DATE: July, 1973
SURVEYED BY: G. Nolin

DWG. No.

To accompany report on a
Geochemical Soil Survey and
Ground Magnetic Survey on the
BOW 1-3 mineral claims,
Omineca Mining Division,
by G.V. Dyson, P.Eng.

G. Nolin