

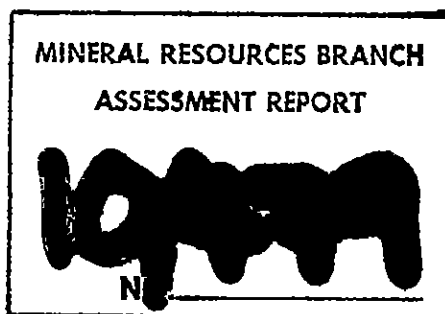
GROUND MAGNETIC SURVEY  
ASSESSMENT REPORT

ON THE

ELOISE MINERAL CLAIM  
NANAIMO MINING DIVISION  
NTS 92L/1E  
50°14'N 126°02'W  
SAYWARD, B.C.

by

B.TAYLOR, P.Eng.



for

H.M. JONES, OWNER & OPERATOR

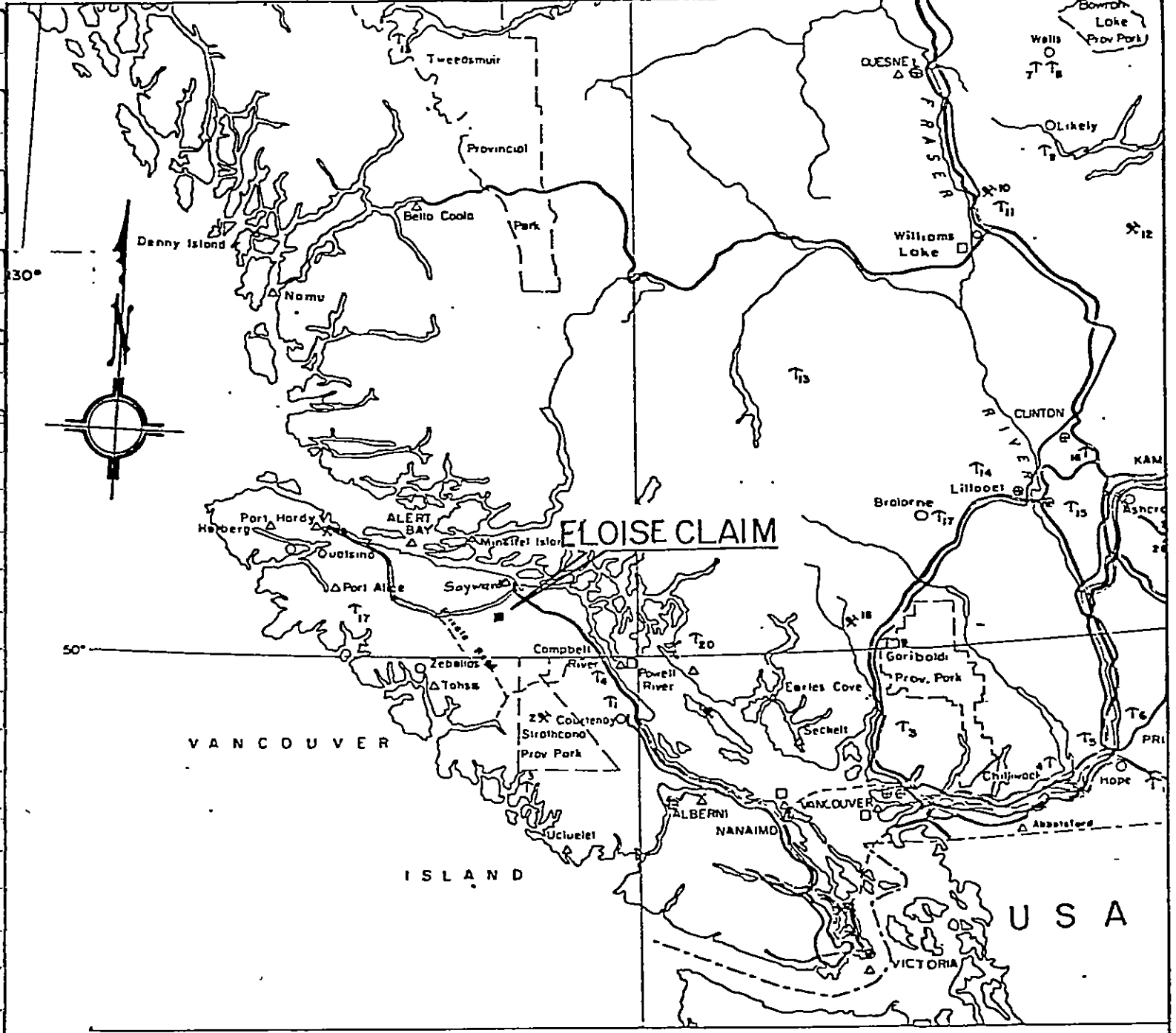
June 21, 1982

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SUMMARY

A ground magnetometer survey was run over the ELOISE mineral claim, which is located in the Sayward area of Northern Vancouver Island. The survey results did not aid in the interpretation of geology, structure or mineralization. No further surveys of this type are recommended.

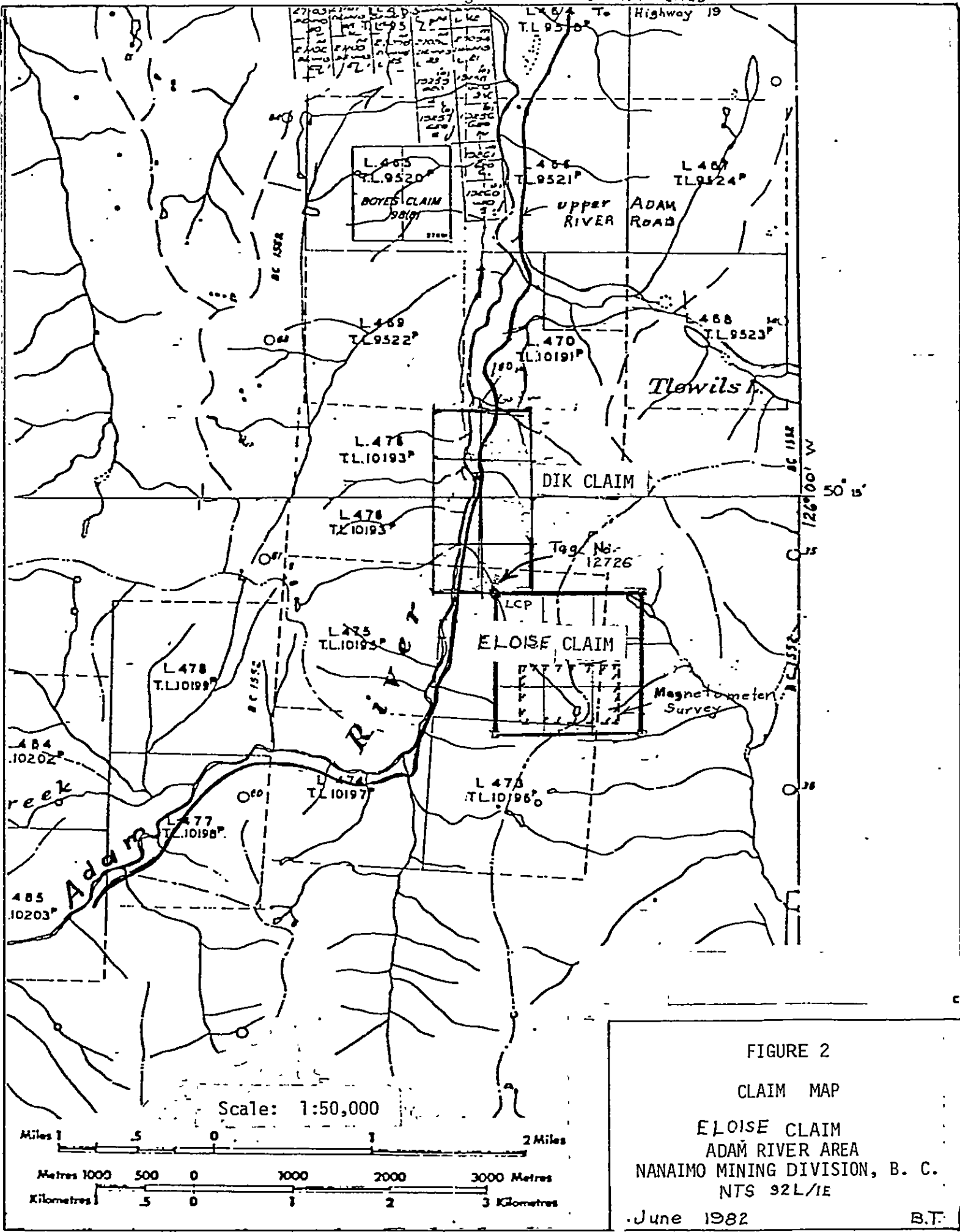


**LEGEND**

- PRODUCING MINES..... \*
- PROSPECTS..... †
- AIRCRAFT CHARTER..... Δ
- HELICOPTER CHARTER..... □
- SUB RECORDERS OFFICES ..... ○
- MINING RECORDERS OFFICES ..... ●
- PROVINCIAL BOUNDARIES .. - - - - -
- PARK BOUNDARIES . . . . - - - - -
- RAILROADS ..... - - - - -
- ROADS ..... = = = = =

**LOCATION MAP**  
**ELOISE**  
**MINERAL CLAIM**  
**ADAM RIVER**  
**NANAIMO MINING DIVISION, B. C.**

**Scale 1 : 3 200 000**  
 Miles 20 0 20 40 60 80 100 Miles  
 25 0 50 100 150 Kilometres



INTRODUCTION

From October 2 to 5th, 1981, a ground magnetic survey was done by a geologist and one field assistant on the Eloise claim, located near Flowils Lake on the upper Adam River, Northern Vancouver Island. The purpose of the survey was to use magnetics as a tool to help define geology and structure in an area of known mineralization.

ACCESS

The ELOISE mineral claim is located 15 km southwest of Sayward, B.C. It is accessible by Highway 19, 24 km south and west from Sayward, and then 8 km south on MacMillan Bloedel's upper Adam River logging road. The showings are reached by a trail that extends south from Branch 108. The location of the claim is shown on Figure 1 and more specifically on Figure 2.

PROPERTY AND TITLE

Elevations range from 490 metres on the northwest corner of the property to 825 metres in the south central part. The claim is timber covered. Lois Creek, a minor tributary of the Adam River, is the main drainage.

The claim is shown on mineral claim map 92L/1E and may be described as follows:(see Figure 2).

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Mining Division</u>
ELOISE	9	653(6)	June 23/80	Nanaimo

## HISTORY

The Lois Creek property was originally staked by P. Gottselig for the Adam River Syndicate in 1966. Rio Tinto Canadian Exploration briefly explored the property and completed a geochemical survey on the ground that same year. In 1967, the Adam River Syndicate optioned the property to Emperor Mines Ltd. This company concentrated their efforts on the Adam River showing, the present DIK claim (see Figure 2). In 1969 Rip Van Mining optioned the claims and conducted the following work, hand trenching and sampling; geochemical soil surveys; airborne magnetometer survey and an induced polarization survey.

In 1970 El Paso Mining and Milling Company succeeded Rip Van Mining Ltd. and continued exploration on the property. This included a geochemical soil survey, geological mapping and some X-ray diamond drilling. The option was terminated in 1971.

The property was acquired by the present owner in 1980.

## GEOLOGY

The ELOISE claim is underlain by amygdaloidal andesite flows with some interbedded tuffs and sediments of the Karmutsen Group of Upper Triassic age.

Mineralization on the property consists of chalcopyrite, bornite, and pyrite which occurs as fine disseminations, veinlets and small masses in certain amygdaloidal andesite flows. In 1969, 15 surface pits were blasted and excavated along Lois Creek and an extension of the zone to the south-east. These pits extended over a distance of 900 metres,

in a west-northwest direction and expose a thickness of 1 to 2 metres of mineralized andesite grading 0.3 to 2.0% copper.

#### MAGNETOMETER SURVEY

Work to date on the property has been successful in locating interesting copper mineralization at a number of scattered locations. However, it is not apparent if the mineralization is related to a flow top, a fault controlled zone along Lois Creek or some other unrecognized control. For this reason, a ground magnetometer survey was conducted to look for new information which might aid in interpreting the geology and structure.

An area 1200 x 660 metres, covering the pitted area and vicinity, was surveyed. An existing grid system was partially re-established and used. It consisted of East-West lines 60 metres (200 feet) apart with a station spacing of 30 metres (100 feet) along the lines. A total of 14 line km were surveyed. A McPhar. M700 flux gate magnetometer was used to measure the strength of the vertical component of the earths' magnetic field at each station. Values obtained are relative to each other only.

To maintain relative magnetic measurements, a base station was designated at the north end of the grid. The base line was traversed south and north as rapidly as possible, the values averaged and used as control values to adjust the single readings on the cross lines. These cross lines were looped, starting and ending with base line stations, thus providing a means of also adjusting the individual readings for diurnal variation.



The corrected readings are plotted and contoured on the ground magnetic map, Figure 3. Values are relative and the zero base is arbitrary.

#### CONCLUSIONS

The mineralization as defined by the old pitting along Lois Creek is not identifiable from the magnetic map. A very shallow magnetic low follows Lois Creek for some distance but is not considered meaningful.

Only one isolated magnetic high was noted.

It is concluded that the magnetometer survey did not define any geological or structural features which would aid in the locating of the known mineralized zones or extensions of them.

#### RECOMMENDATIONS

No further magnetometer surveys are warranted on this property.

*B. Taylor.*

B. TAYLOR, P.Eng.

STATEMENT OF COSTS

October 2 - 5, 1981.

Salaries:

B. Taylor:

4 days @ \$275/day      \$1,100.00

B. Dent:

4 days @ \$100/day      400.00

\$1,500.00

Meals & Accommodation:

2 men for 5 days @\$35/day      350.00

Transportation:

Vehicle meterage and ferry cost      150.00

Report Preparation:

200.00

\$2,200.00

Vancouver, B.C.

June 21, 1982

*B. Taylor*  
B. TAYLOR, P.Eng.

CERTIFICATE

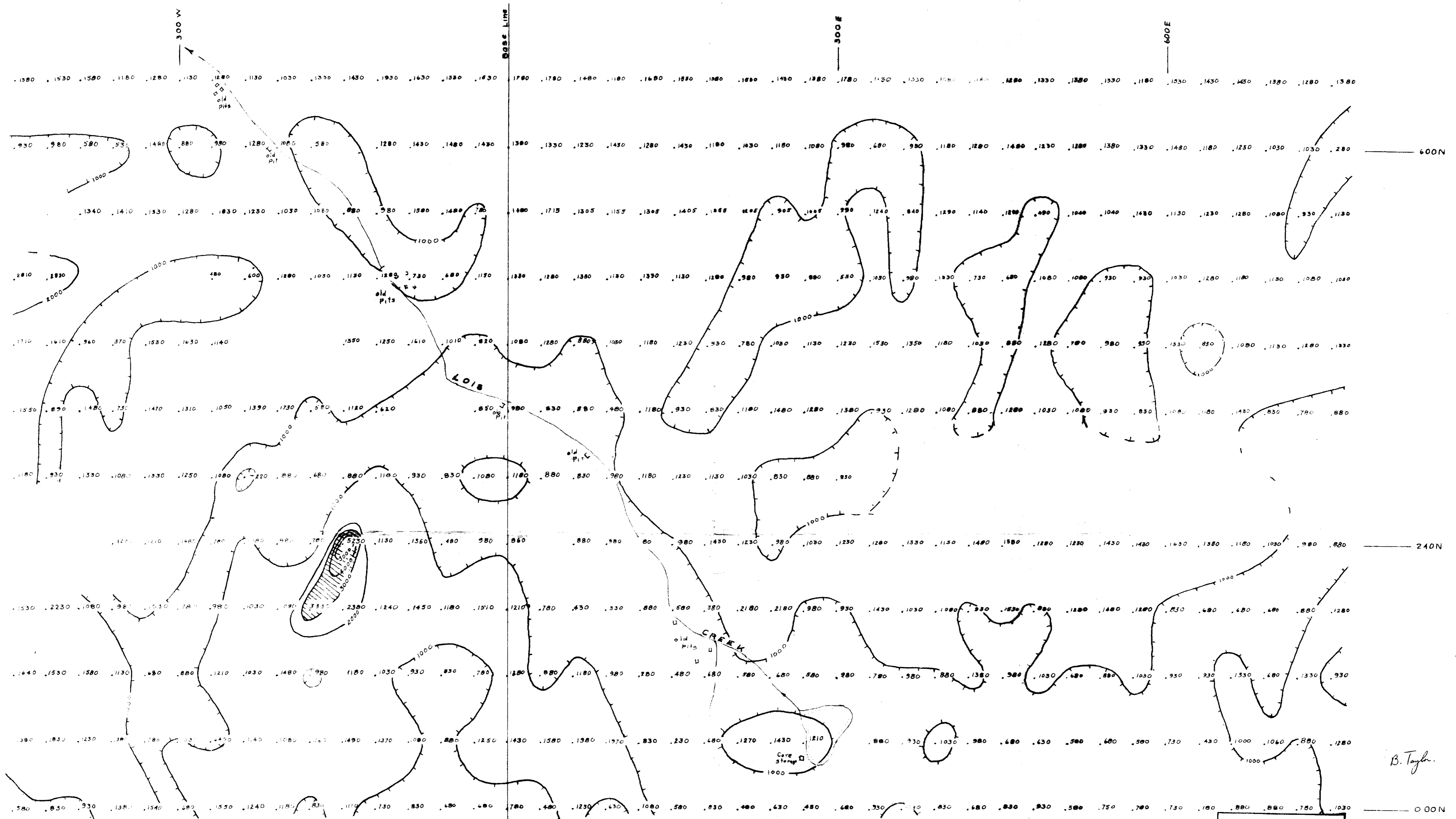
I, Bertram Taylor, of the District of North Vancouver, Province of British Columbia, do hereby certify as follows:

1. I am a Geological Engineer resident at 1981 Hyannis Drive, North Vancouver, B.C. V7H 2E5
2. I graduated from the University of Saskatchewan in 1941 with a Bachelor of Science in Geological Engineering degree.
3. I am a Professional Engineer registered in the Province of British Columbia, Registration # 7870.
4. I have practiced my profession for nearly 40 years.
5. I have a one-third interest in the ELOISE Mineral Claim.

Vancouver, B.C.


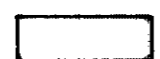
June 21, 1982

*B. Taylor*  
B. TAYLOR, P.Eng.



B. Taylor

**LEGEND**

- station with reading in gammas (vertical)  
Zero base arbitrary
-  >3000 gammas, possibly anomalous
-  <3000 gammas, background

Contour interval 1000 gammas

Survey control by Hip-chain and Silva Compass to reestablish an old grid.

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT



**GROUND MAGNETIC MAP**

**ELOISE CLAIM**  
ADAM RIVER, B.C.  
NTS 92L/1E  
**NANAIMO MINING DIVISION**

