

# 5822

PROSPECTING REPORT  
FOR

SUN 1 - 4                      Numbers 37743 - 46  
MOON 1 - 4                     Numbers 37747 - 8

92L/12E

|   |       |
|---|-------|
| Department of<br>Mines and Petroleum Resources<br>ASSESSMENT REPORT |       |
| NO. 5822  | MAP 1 |

# 5822

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#5e) Enlarged Geochemical Map.

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#7g) " Traverse lines

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#9 LOCATION MAP AND ENLARGEMENT

PROSPECTORS QUALIFICATIONS

NAME

GORDON F. MCLEOD

ACADEMIC

1962 - 1967 Graduate Bachelor of Commerce -Casual study of Geology  
1967 Attended the Dept. of Mines sponsored Geology Prospectors  
School course.  
1967 Successfully completed qualifications and mineral  
identification examination for Government (Provincial)  
Grubstake under Mr. D. Rae.  
1969 Attended Dept. of Mines prospectors night course in  
Prince George (Refresher)  
1969 - 1976 Reading Geology texts specifically relating to  
identification of economic minerals and economic geology.

PRACTICAL EXPERIENCE

1965 - 1966 3 Months continuous prospecting in Port Hardy, Princeton,  
and Britannia Beach areas.  
1967 Prospected June - August on B.C. Government Grubstake  
under supervision of Mr. Rae. Port Hardy and North  
of Kamloops.  
After grubstake, regional prospecting in B.C., Yukon,  
and Alaska.

QUALIFICATIONS - CONTINUED

1968 - 1975

Continued prospecting, usually two weeks to four weeks continuous per annum (not sufficient time period to prospect on Grubstake program)

Areas in which activity has centered:

Port Hardy area

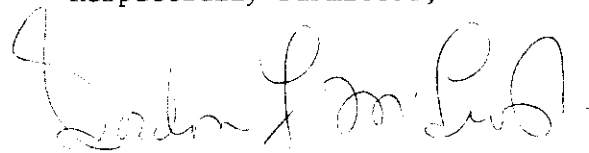
North of Kamloops B.C.

North of Cache Creek, B.C.

East of Prince George, B.C.

This combinatinn of informal educational experience and practical experience has qualified me to submit this report for Mr. J. Sieb, whom I have accompanied on most of these prospecting surveys.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Gordon F. McLeod".

GORDON F. MCLEOD

REPORT ON INVESTIGATIONSSUN 1 - 4 CLAIMS

Detailed prospecting of the Sun claims is hampered by the sporadic nature of outcrops and abundant overburden. The Northern boundary of the claim block is particularly difficult to apply conventional prospecting techniques in that it is heavily treed and covered by abundant overburden. The central claim group is logged, has more overburden and a logging road which is of assistance in prospecting some areas of this group.

There are two areas of interest in this claim block. The North-Western portion of the claim block contains large areas of observable porphyritic granodiorite. Erratic zones of fine lightly mineralized pyrite and calcopyrite were observed. The geochemistry survey outlined several high halos in this area.

In the central area of the claim block light green limestones are abundant and have observable erratic areas containing pyrite and calcopyrite. In three areas, south easterly, creek beds have exposed skarn zones. These zones have observable high grade zones of calcopyrite and sphalerite. The values have been intermittantly exposed over a length of approximately 400 feet. It is interesting to note that in a well exposed mineralized skarn zone, where a creek striped an area approximately 20 feet in width and twelve feet depth the skarn intrudes the green limestone and appears to have erupted as a heated mass - possibly hydrothermal - resembling some high grade samples observed in a high grade area north of the Island Copper deposit. There is a small area on surface covering the skarn zone which is the characteristic grey limestone of the Quatsino formation. Samples having high specific gravity, and being almost cinder like were taken, these samples were mineralized. Copper values to 1.67% have been obtained and ~~zinc~~<sup>zinc</sup> sample assaying .84% Cu., and 6.98% ~~zn.~~<sup>zn.</sup>, 1 oz. Ag. have been taken.

The area to the north of the claim block dividing at the peak of the hill at the north of the claim block represents a change in geological setting. Overburden prevents observation of the contact, but, a change of geology from Bonanza formations to the older and less promising Karmutsen takes place. This northern area is largely covered by andesites. More outcrops occur in this area to the North and are much less promising geologically. There have been areas of low grade magnetite observed possibly explaining the presence of the high magnetic anomaly in this area (Geological Service Airborne Magnetometer Survey.)

The Wanocana Creek area was explored from the South West of the claim block to its North East terminal. Andesites, tuffs and breccias, quartz-diorite, and light green limestones occur but only sporadic and light pyrite mineralization was observed.

MOON GROUP

This area is covered by large areas of overburden. One area of mineralization has been discovered in the center of the claim block. An area altered limestone containing calcopyrite mineralization is exposed. Several samples of limestone which have pyrite and minor calcopyrite spread into fracture seams were observed in several areas which were opened by a logging road which traverses the property. This mineralization is not in the host but shot into the fracture seams.



WEST SEE MAP 92L/12W

Wakalish Lake

Wakalish R.

Wakalish

Wakalish

Apple Bay

Orch.

Hennise FL.

Strapping

CLIFF WOOD 56 (12)

|       |  |                    |
|-------|--|--------------------|
| 70010 |  | 20011              |
|       |  | DEBBIE WEST 66 (2) |
|       |  | DEBBIE WEST 68 (2) |
|       |  | DEBBIE WEST 67     |

|                |                |                |                |
|----------------|----------------|----------------|----------------|
| 37742<br>SUN 1 | 37743<br>SUN 2 | 37744<br>SUN 3 | 37745<br>SUN 4 |
|----------------|----------------|----------------|----------------|

|                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|
| 31257<br>PAK C70 | 31258<br>PAK C71 | 31259<br>PAK C72 | 31260<br>PAK C73 | 31261<br>PAK C74 |
|------------------|------------------|------------------|------------------|------------------|

|                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| 31657<br>IDA 40 | 31658<br>IDA 41 | 31659<br>IDA 42 | 31660<br>IDA 43 | 31661<br>IDA 44 | 31662<br>IDA 45 | 31663<br>IDA 46 | 31664<br>IDA 47 | 31665<br>IDA 48 | 31666<br>IDA 49 | 31667<br>IDA 50 | 31668<br>IDA 51 | 31669<br>IDA 52 | 31670<br>IDA 53 | 31671<br>IDA 54 | 31672<br>IDA 55 | 31673<br>IDA 56 | 31674<br>IDA 57 | 31675<br>IDA 58 | 31676<br>IDA 59 | 31677<br>IDA 60 | 31678<br>IDA 61 | 31679<br>IDA 62 | 31680<br>IDA 63 | 31681<br>IDA 64 | 31682<br>IDA 65 | 31683<br>IDA 66 | 31684<br>IDA 67 | 31685<br>IDA 68 | 31686<br>IDA 69 | 31687<br>IDA 70 | 31688<br>IDA 71 | 31689<br>IDA 72 | 31690<br>IDA 73 | 31691<br>IDA 74 | 31692<br>IDA 75 | 31693<br>IDA 76 | 31694<br>IDA 77 | 31695<br>IDA 78 | 31696<br>IDA 79 | 31697<br>IDA 80 | 31698<br>IDA 81 | 31699<br>IDA 82 | 31700<br>IDA 83 | 31701<br>IDA 84 | 31702<br>IDA 85 | 31703<br>IDA 86 | 31704<br>IDA 87 | 31705<br>IDA 88 | 31706<br>IDA 89 | 31707<br>IDA 90 | 31708<br>IDA 91 | 31709<br>IDA 92 | 31710<br>IDA 93 | 31711<br>IDA 94 | 31712<br>IDA 95 | 31713<br>IDA 96 | 31714<br>IDA 97 | 31715<br>IDA 98 | 31716<br>IDA 99 | 31717<br>IDA 100 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|

5822 M-1

|               |               |               |
|---------------|---------------|---------------|
| 17874<br>SI 1 | 17875<br>SI 2 | 17876<br>SI 3 |
|---------------|---------------|---------------|

|               |               |
|---------------|---------------|
| BETTY'S (R/S) | RAINBOW (S/S) |
|---------------|---------------|



22

20

18

16

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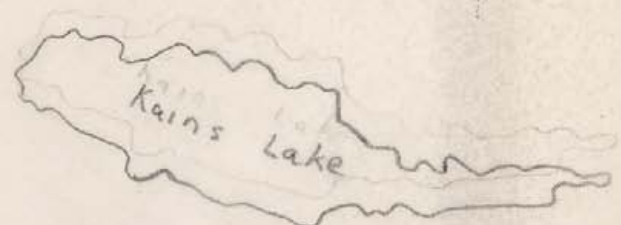
11

89 90 91 92 95  
T T T T T

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

- GEOLOGICAL MAP - NO. 2822 ON  
MAP (outcrop investigation)

# 5822 M-1



-  ANDESITE.
-  MINERALIZATION  
SKARN - Pb, Zn, Cu  
LIMESTONE - Cu.
-  GRANITES
-  SKARN - mineralized
-  BLUE-GREY LIMESTONES
-  CHERT
-  LIGHT ALTERED LIMESTONE
-  QUARTZING LIMESTONES  
(DARK GREY)

GEOLOGICAL MAP  
(OUTCROP INVESTIGATION)



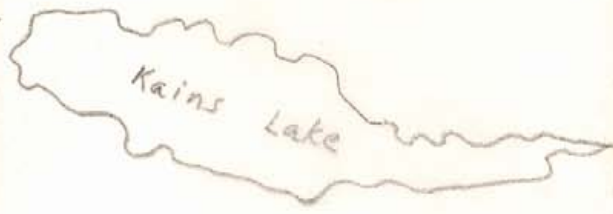
22  
5822  
21  
M-2

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

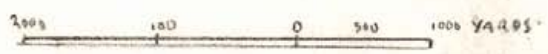
LOCATION OF GEOCHEMICAL

SAMPLES.

(SEE ACCOMPANYING ENLARGEMENT FOR RESULTS)



20  
19  
18  
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12



SCALE - 1: 50,000

1.25" = 1 mile

**GEOCHEMICAL  
TRAVERSES**

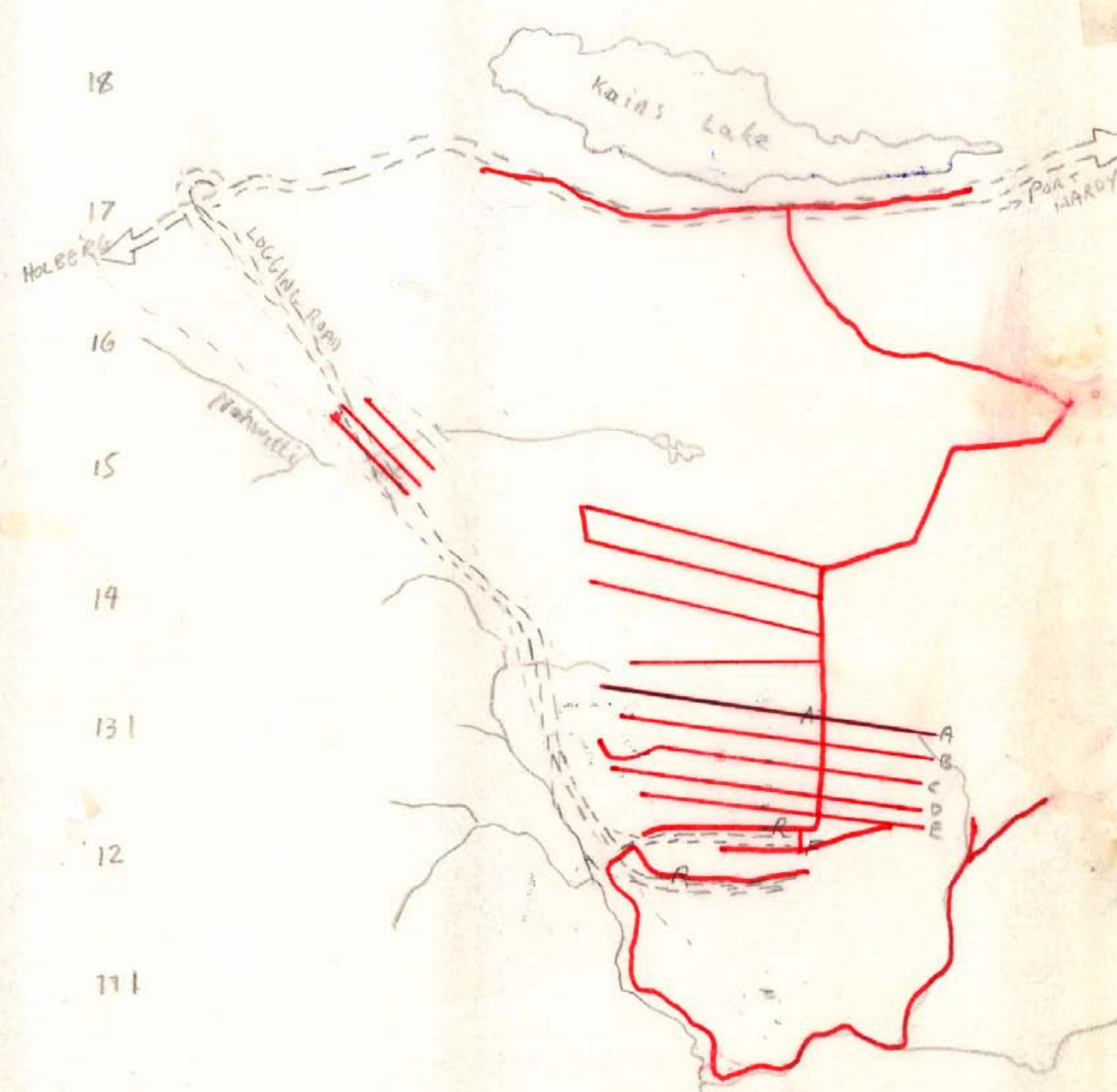
11  
10

5822  
M-3

5822  
M-3

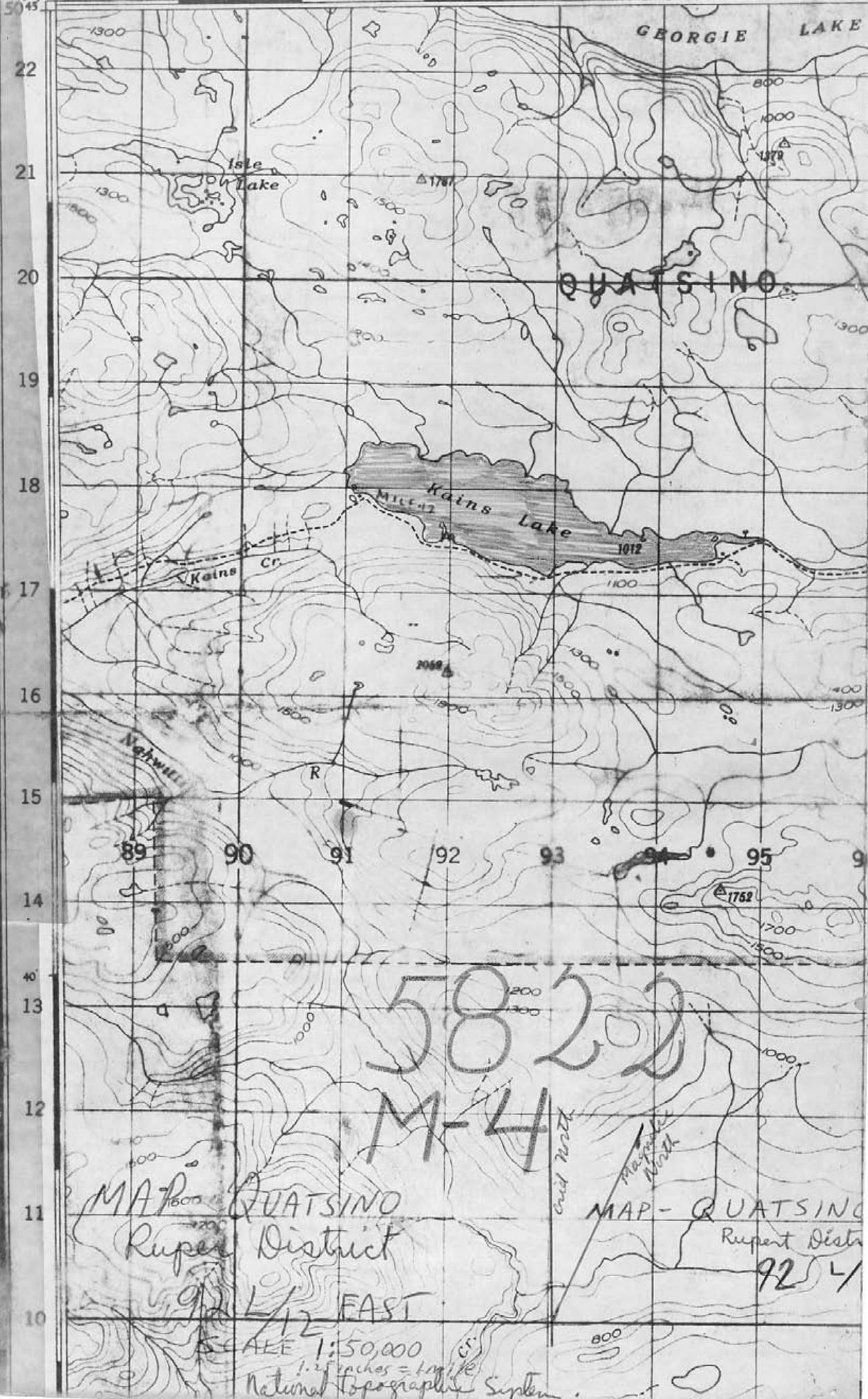
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2852 MAP 3

PROSPECTING & GEOCHEMICAL  
TRAVERSE MAP



— TRAVERSE LINES  
PROSPECTING &  
GEOCHEM.  
SURVEY





GEORGIE LAKE

QUATSINO

5822  
M-4

MAP - QUATSINO  
Super District

MAP - QUATSINO  
Super District  
92 1/2

92 1/2 EAST  
SCALE 1:50,000  
1.25 inches = 1 mile  
National Topographic System

5045  
22  
21  
20  
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12  
11  
10

Department of  
Mines and Petroleum Resources

Annual Report

No. 5822 MAP 5

Karna  
Karna  
Lake

9.5m

(9)

(e)

5822 M-5

-  ANDESITE
-  MINERALIZATION  
SKARN - Zn, Pb, Cu  
LIMESTONE - Cu
-  GRANITE-S
-  SKARN - MINERALIZED
-  BLUE-GRAY LIMESTONE
-  CHERT
-  LIGHT - ALTERED - LIMESTONE
-  DARK GRAY QUARTZITE LIMESTONE



CANYON  
RIVER

ENLARGED GEOLOGICAL MAP  
(OUTCROP INVESTIGATION)



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5822 MAP 6

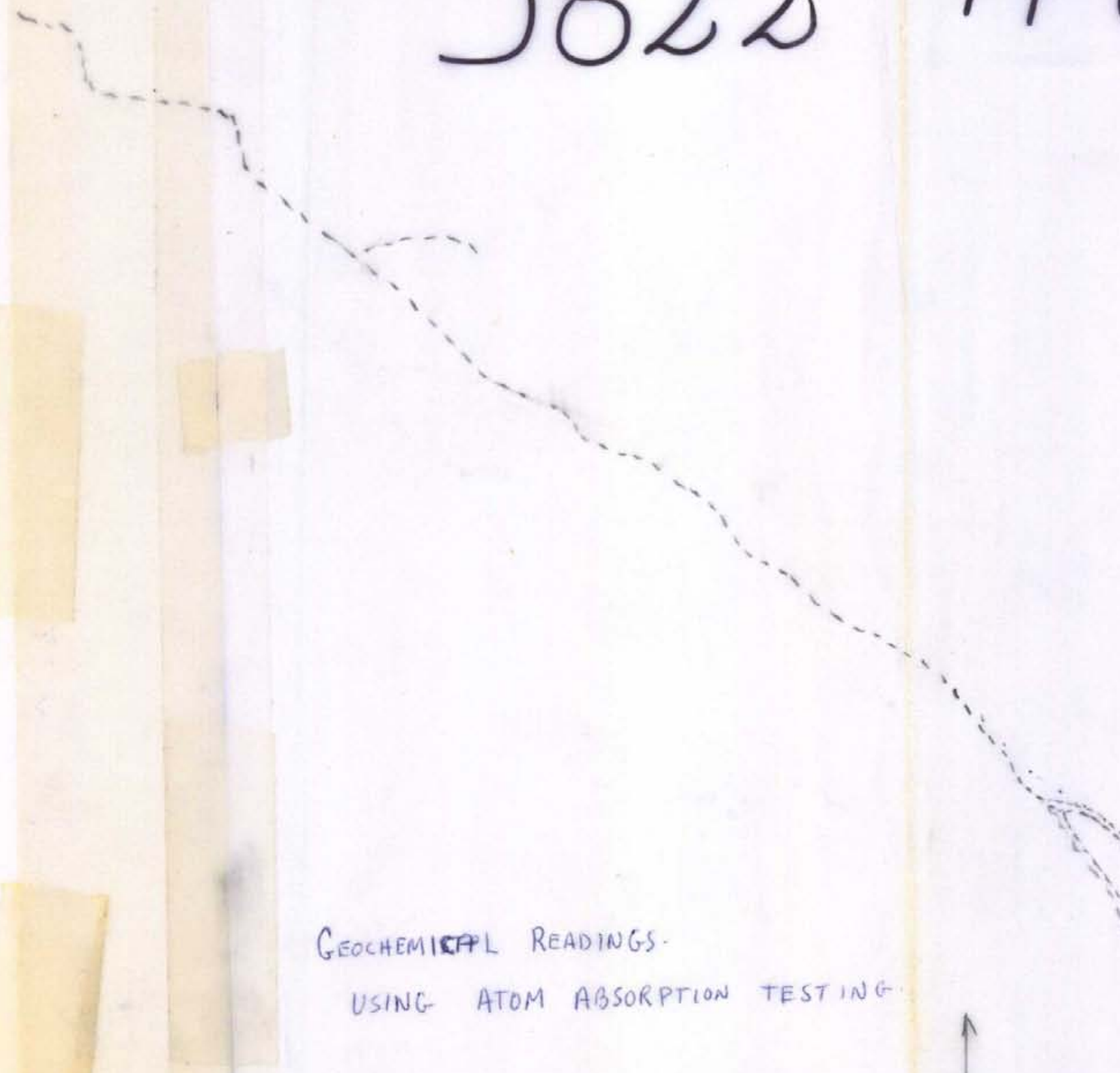
5822 M-6

Holberg ↔ Port Hardy

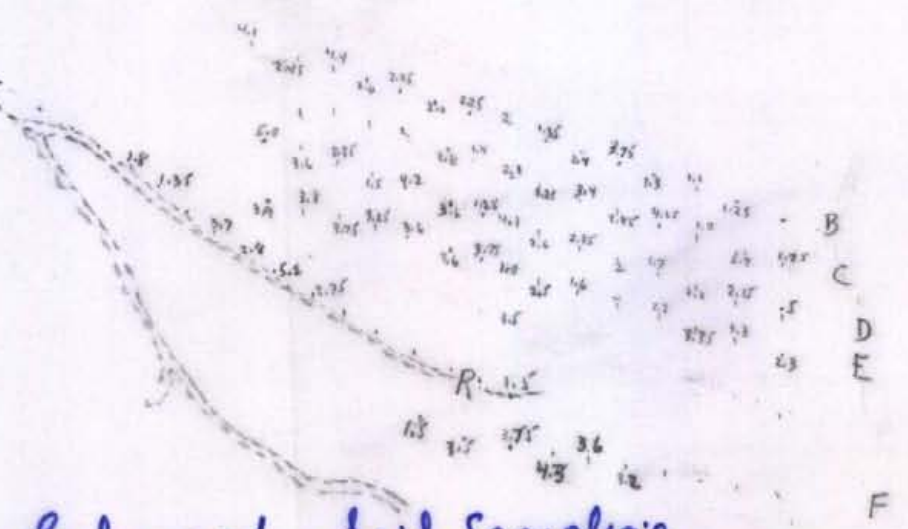
96m  
(7)

Lake  
Kamo  
Lake

(f)

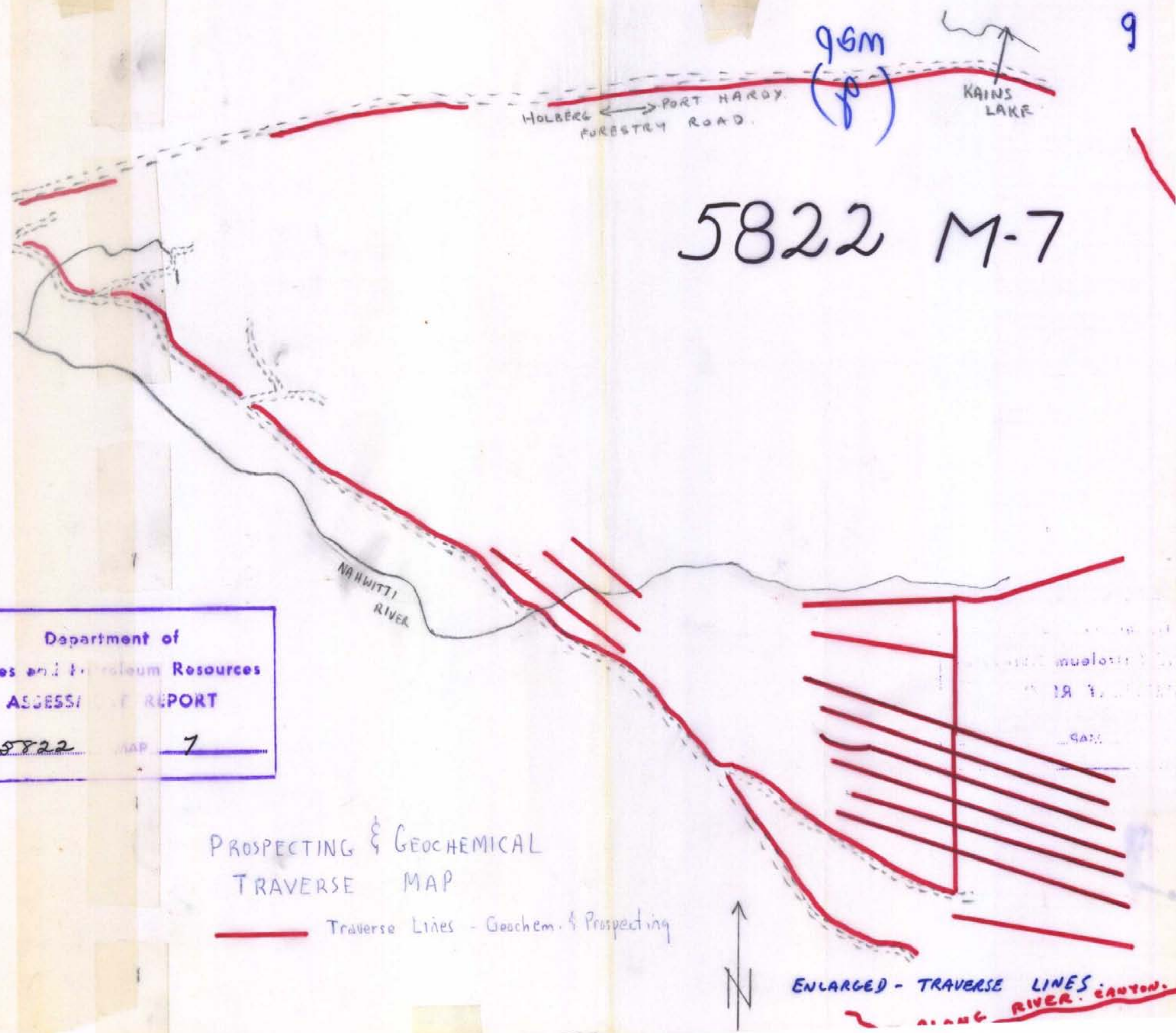


GEOCHEMICAL READINGS  
USING ATOM ABSORPTION TESTING



Enlarged Soil Sampling  
Grid Results - Atomic Absorption





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Department of  
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 NO. 5822 MAP 7

PROSPECTING & GEOCHEMICAL  
 TRAVERSE MAP

— Traverse Lines - Geochem. & Prospecting



ENLARGED - TRAVERSE LINES  
 ALONG RIVER CANYON.

10/1/22

Dear Sir:

I would like to confirm that Gordon McLeod, accompanied me during the staking and prospecting of my Sun and Moon mineral claims.

The principal reason Gordon McLeod accompanied me was to perform the task of prospecting and as such to submit the enclosed report.

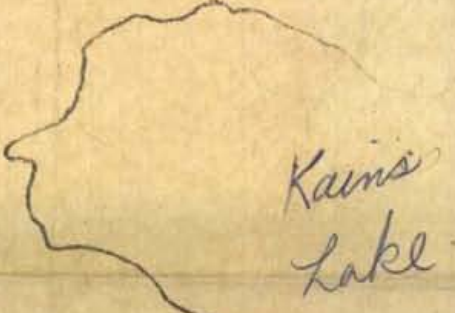
Cordially yours,

J. M. Lieb



1" = 1320'

h



Kains Lake

20 ch = 1 inch  
2-3-70  
RAW

FDR

Part Hardy

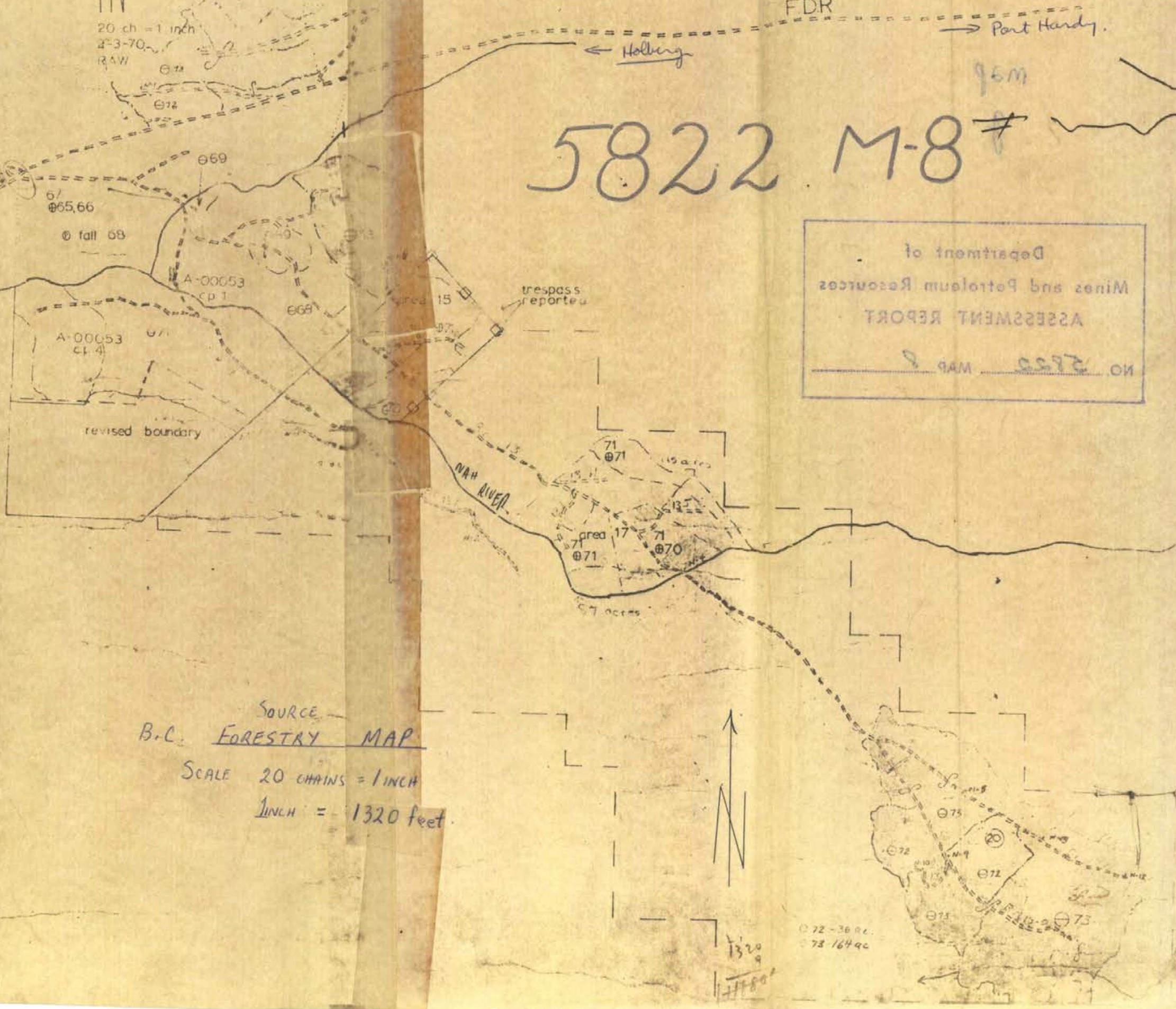
Holberg

96M

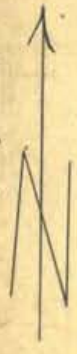
5822 M-8

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5822 MAP 8 ON

Rehutte Et  
2700'



SOURCE  
B.C. FORESTRY MAP  
SCALE 20 CHAINS = 1 INCH  
1 INCH = 1320 feet



72-36 01  
73-164 90

1320  
11180



CLAIM MAPS to

ACCOMPANY.

GEOLOGICAL MAPS

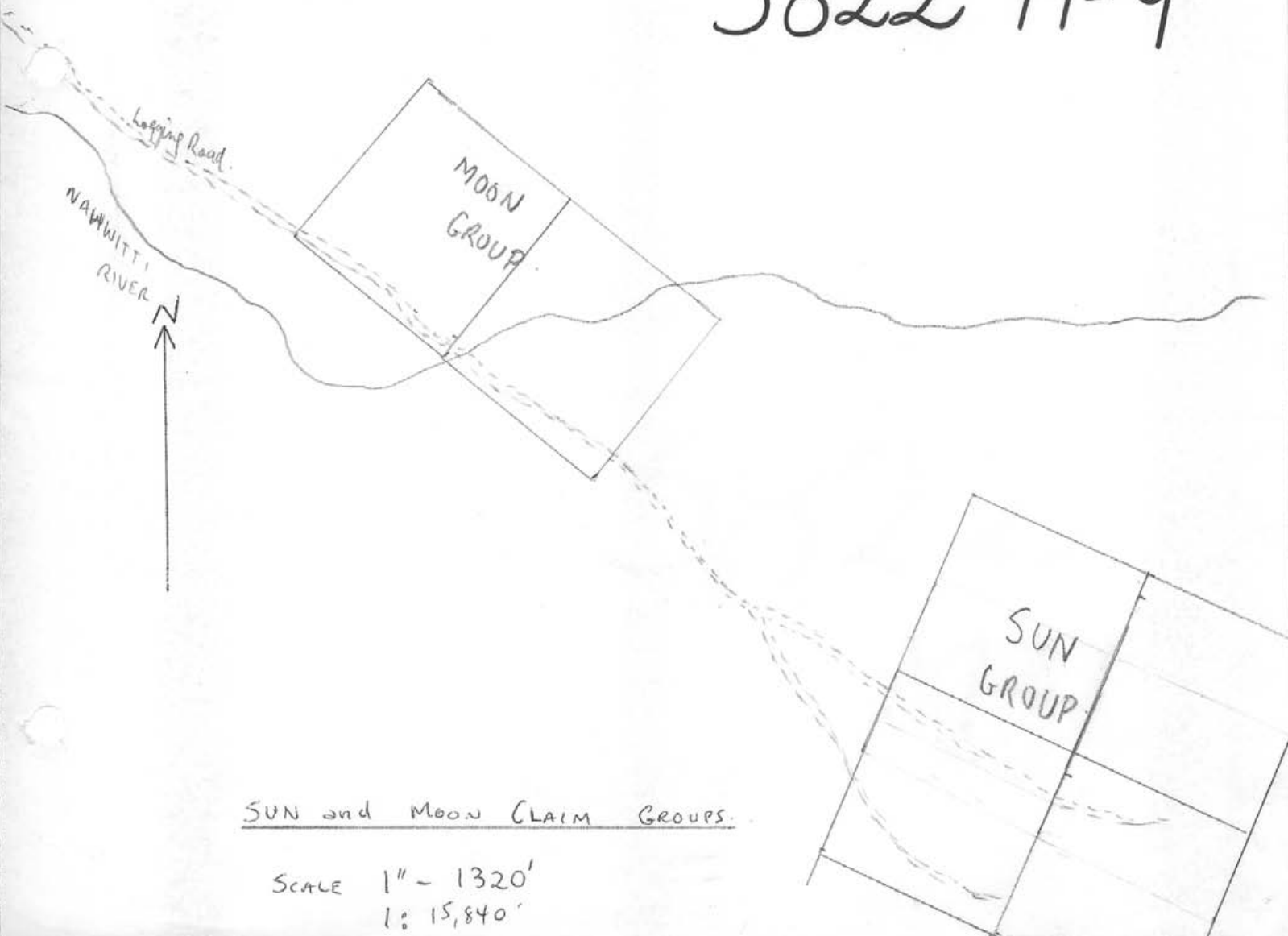
(DETAILED SCALE)

KAINS LAKE

Hobling ROAD  
Pt. Hardy

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5822 MAP 9

5822 M-9



SUN and Moon CLAIM GROUPS.

SCALE 1" = 1320'  
1: 15,840'

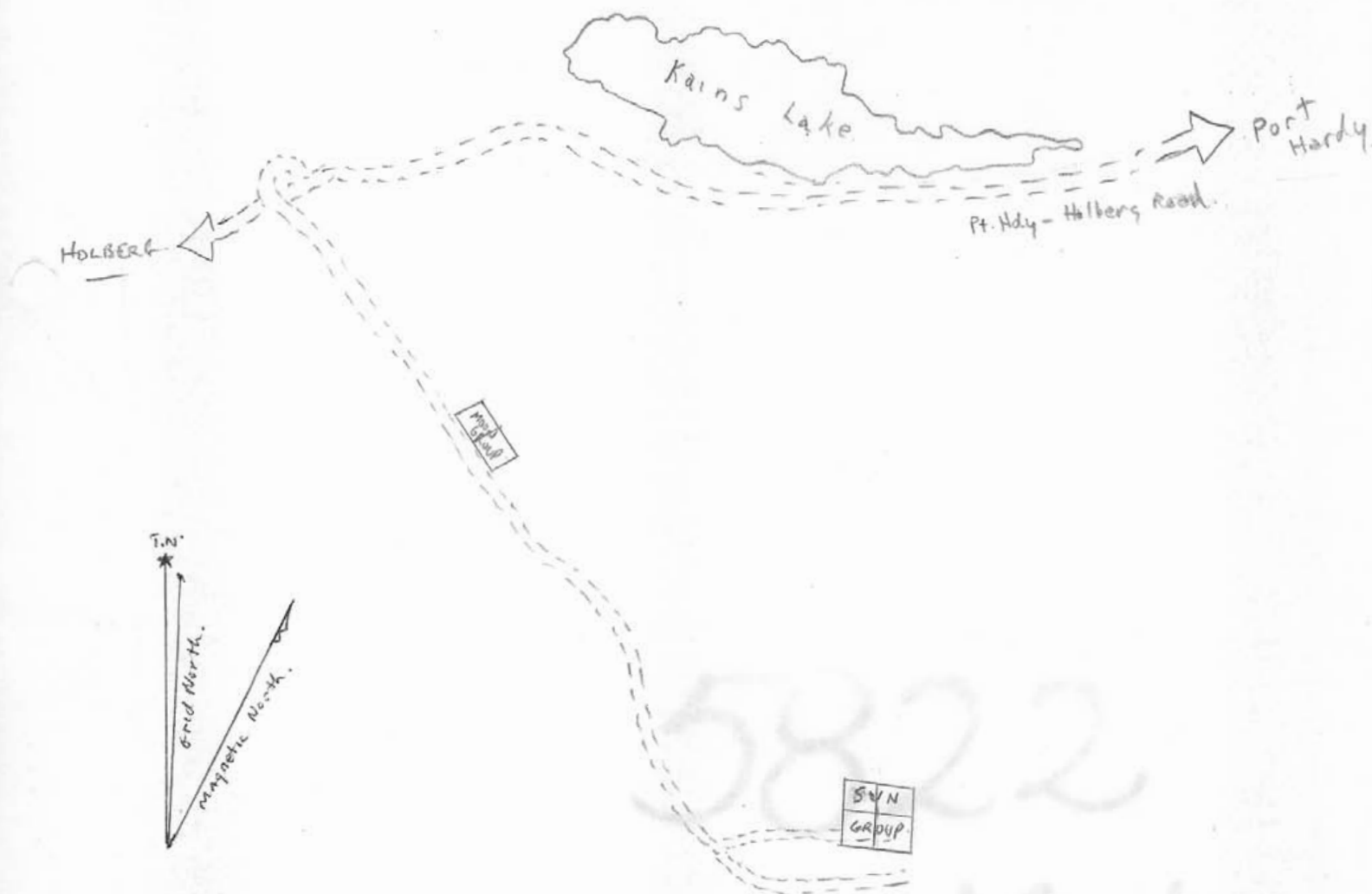
CLAIM MAPS to

ACCOMPANY GEOLOGICAL MAPS (SCALE 1:50,000).

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 2822 MAP 2

5822 M-9a



SUN and MOON CLAIM GROUPS

SCALE 1:50,000  
1:25" to 1 mile



SECTION - 8 - VALUATION OF WORK

SUN GROUP

|    |  |                   |
|----|--|-------------------|
| a) | Number of days worked - $7\frac{1}{2}$ x 14 hours per day x 2 men x \$5 per hour | \$1,050.00        |
|    | Dates worked - August 23, 1973 to August 31, 1974                                |                   |
| b) | Rate of fee - \$5.00 per hour  |                   |
| c) | Cost of Food   | \$90.00           |
|    | Cost of Restaurant meals   | 85.00             |
|    | Accommodation - 2 nights hotel   |                   |
|    | Remainder in tent  | 36.00             |
|    |  | 211.00            |
| d) | Cost of necessary ground transportation 1920 miles x .15¢                        | 288.00            |
|    | Type of vehicle - Plymouth   |                   |
| e) | Nil  |                   |
| f) | Cost of instrument rental for geophysical survey                                 | 60.00 ←           |
| g) | Cost of analysis of geochem samples 46 hours x \$5                               | 240.00 ←          |
| h) | Cost of preparation of report pertaining to investigation 30 hours x \$8         | 240.00            |
| i) | Other itemized costs for investigation - Ferry transportation                    | 60.00             |
|    | TOTAL  | <u>\$2,149.00</u> |

MOON GROUP

|    |  |               |
|----|--|---------------|
| a) | Days worked 1.5 days x 12 hours x 2 men x \$5 per hour                                 | 180.00        |
| b) | Dates worked - August 28, $\frac{1}{2}$ day August 31, 1973                            |               |
| b) | Rate of fee - \$5.00 per hour  |               |
| c) | Cost of Food   | 15.00         |
|    | Cost of restaurant meals   | 10.00         |
| d) | Cost of necessary ground transportation  | 30.00         |
|    | Vehicle - Plymouth   |               |
| e) | Nil  |               |
| f) | Nil  |               |
| g) | Nil  |               |
| h) | Cost of preparation of report pertaining to investigation<br>4 hours x \$8.00 per hour | 32.00         |
|    | TOTAL  | <u>267.00</u> |