

PECHINEY DEVELOPMENT LIMITED NPL

SUITE 701 - 744 WEST HASTINGS ST., VANCOUVER 1, B.C., CANADA
AREA CODE 604 TELEPHONE 687-1564 TELEX 04-53301

5229

94D/8W

ASSESSMENT REPORT

MAP CLAIMS

Latitude $56^{\circ}16'30''$ N, Longitude $126^{\circ}22'35''$ W: NTS 94D

Field Season: July 31, 1974 - September 12, 1974.

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5229	MAP

Oct. 15, 1974

Report by:
N.J. Mistry, B.Sc., M.S.
Geologist
Pechiney Development Ltd.
Vancouver, B.C.

ASSESSMENT REPORT

MAR CLAIM PROPERTY, B.C.

Latitude $56^{\circ}16'30''\text{N}$; $126^{\circ}22'35''\text{W}$; NTS 94D

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Appendix I: Itemized Exploration cost: July 31, 74-Sept. 12, 74.

Appendix II: Personnel certificates.

Encl.

- #4 Location map: McConnell Creek, NTS 94 (topo Map) (in text)
- #1 Claim map # 1
- #2 Geology map # 2
- #3 Geochemical map # 3
- #3b Trench map # 3 in text
- #5 Claim map

Report by
N.J. Mistry, B.Sc., M.S.
Geologist
Pechiney Development Ltd.
Vancouver, B.C.

SUMMARY

This report describes exploration program carried out on MAR claim group property by Pechiney Development Ltd. during this summer from July 31, 1974 through September 12, 1974. The exploration program consists of geological mapping, geochemical sampling and surface trenching on the property. Approximately \$ 5,356,00 has been spent on this property to this date.

LOCATION AND ACCESSIBILITY

The MAR claim group property is situated 22 air-miles SW from Johanson Lake in Northern B.C. and approximately 170 air-miles north-northwest of Fort St James, B.C., which drains NE to Carruthers Creek and thence to Omineca River. Latitude $56^{\circ}16'30''N$, Longitude $126^{\circ}22'35''W$; NTS 94D (Refer Location Map: McConnell Creek, topo map NTS 94D)

Access from Fort St James to Johanson Lake during summer period is provided by aircraft and thence by helicopter to the property. Also there is a gravelled road from Fort St James to Johanson Lake.

CLAIMS AND OWNERSHIP

The MAR claim group property consists of 26 contiguous full sized claims on the Sikanni Range in the Omineca Mining Division of B.C. The claims are owned by Pechiney Development Ltd. of Vancouver, B.C. The following is the list of claims and their corresponding record numbers. (Refer claim map enclosed)

<u>Name of claim</u>	<u>Record Number</u>
MAR #1	131027
MAR #2	131028
MAR #3	131029
MAR #4	131030
LEN #1	131031
LEN #2	131032
MAR #5	128237
MAR #6	128238
MAR #7	128239
MAR #8	128240
MAR #9	128241
MAR #10	128242
MAR #15	128243
MAR #16	128244
MAR #17	128245
MAR #18	128246
MAR #21	128247
MAR #22	128248
MAR #23	128249
MAR #24	128250
MAR #25	128251
MAR #26	128252
MAR #27	128253
MAR #28	128254
MAR #29	128255
MAR #30	128256

EXPLORATION WORK DONE ON THE MAR CLAIM GROUP DURING SUMMER 1974

The following is the detail of exploration program carried out on the MAR claim group property by Pechiney Development Ltd. from July 31, 1974 through September 12, 1974.

(1) Soil Sampling program

The field party of Mr. David Hopper and Mr. Paul Kendrick laid out 3.75 mile grid pattern consisting of the base line (Azimuth 320°) with cross lines (azimuth 230°) 500 feet apart. The lines were run by using a compass and 143 soil samples were collected from "B" horizon of the soil, at every 100 feet flagged station, using 4 feet steel auger. These samples were assayed by Min-En Laboratories Ltd. of North Vancouver for copper and manganese by using atomic absorption after hot extinction. The assay results do not indicate any significant copper or manganese values on the soil. (Refer geochem. map)

(2) Geological mapping program

Detailed geological mapping of the property was done by the author. 56 mineralized rock samples taken from various locations were assayed mainly for copper, lead and zinc contents of the samples. (Refer Geology map)

(2a) General Geology and Mineralization

The most prominent physiographic feature on the property is the cirque area which rises from 5340 feet above sea level to 7000 feet above sea level towards rugged NW ridge of the cirque. The local tree line on the property is well over

5600 feet above sea level and thus the property is covered with alpine flora. The property area drains northwest to Curruthers Creek and thence to Omineca River.

The consolidated rocks in the map area on the property are of upper Takla group Division (Jurassic age). The Takla group on the property comprises essentially conformable assemblage of pyroclastic rocks and volcanic flows. Pyroclastic rocks range from coarse agglomerates to fine grained tuffaceous argillite. Volcanic flow rocks range from augite porphyry to dacite porphyry. The general strike of the outcrops is 310° (azimuth) dipping at about 50° to north east. (Refer geological map)

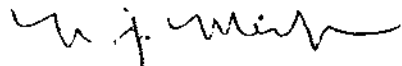
Excellent copper mineralization is readily noticed on SE ridge and NW ridge of the cirque area. The host rock here in these ridges, is fine grained bedded tuffaceous argillite, which is often altered in places. Fair to good scattered copper showings are observed on different locations on the map-area. Alteration minerals include epidote, calcite, chlorite and sericite which are often associated with bornite, chalcocite, covellite, chalcopyrite and malachite.

(3) Surface trenching on claim MAR 5

Seven surface trenching of various dimensions were made on the claim MAR 5 from August 15, 1974 through September 12, 1974 by Mr. Alan Woolsey, a professional driller. Drilling was done with the "Atlas Copco" Cobra drill and blasting was done with dynamite purchased from Continental Explosives Ltd. of Vanderhoof, B.C. 405 cubic feet of earth was removed and chip samples from the trenches were assayed for copper, silver and gold. Approximately 2200 square feet of bedrock on the claim consists mainly of shattered and jointed dacite porphyry. Fair amount of copper

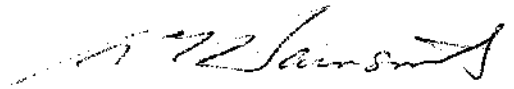
mineralization occurs in the dacite porphyry. (Refer geological map of trenches)

Respectfully submitted



N.J. Mistry B.Sc., M.S.
Geologist
Pechiney Development Ltd.
Vancouver, B.C.

Oct. 15, 1974



W.G. Hainsworth, P.Eng.

APPENDIX I: ITEMIZED EXPLORATION COST FROM JULY 31, 1974 to
SEPTEMBER 12, 1974

1. GEOLOGY, GEOCHEMISTRY

a) Salaries for geological mapping and soil survey			
Mistry Neil	24 days at \$ 50.00	1,200	
Hopper David	4 days at \$ 20.00	80	
Kendrick Paul	4 days at \$ 18.00	<u>72</u>	\$ 1,352.00
b) Travel expenses from Vancouver to Johanson Lake for Mr. Neil Mistry, David Hopper and P. Kendrick			
			400.00
c) Analyses			
143 samples at \$ 1.50/sample			214.50
d) Food			
58 man/day at \$10			580.00
e) Helicopter support (Northern Mountain Helicopter of Johanson Lake)			
5 hours at \$ 300/hour			1,500.00
f) Supervision			
3 days at \$ 80/day			240.00
g) Report			<u>400.00</u>
			<u>\$ 4,686.50</u>

I wish to apply \$ 4,400 of this work to the claims listed below
for one year assessment: Mar #7-#10, #17 and #18, #21 to #30
and for two years assessment to claims MAR #6, #15 and #16.

Declared before me at the
of _____, in the
Province of British Columbia, this
VANCOUVER, B. C.
day of _____, A.D.

W. J. Smith

OCT 28 1974
[Signature]
Sub-Mining Recorder

.....
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

2. PHYSICAL WORK (TRENCHING)

Salary

M. Woolsey 20 days at \$ 33/day \$ 660

Food

20 man/day at \$ 8/day 160

Cobra rental

2 cobra drills \$ 10/day 200

Explosives

50

Helicopter support (out of Johanson Lake)

2 hours at \$ 300 600

\$ 1,670

I wish to apply \$ 1,400 of this work for 1 year assessment to the claims listed below:

MAR #5

LEN #1, #2

MAR #1 to #4

W. G. Hainsworth

W. G. Hainsworth
W.G. Hainsworth, P.Eng.

Declared before me at the

of

in the

Province of British Columbia **VANCOUVER, B. C.**

day of

OCT 28 1974 A.D.

[Signature]
Sub-Mining Recorder

[Handwritten signature]

.....
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

APPENDIX II: PERSONNEL CERTIFICATES

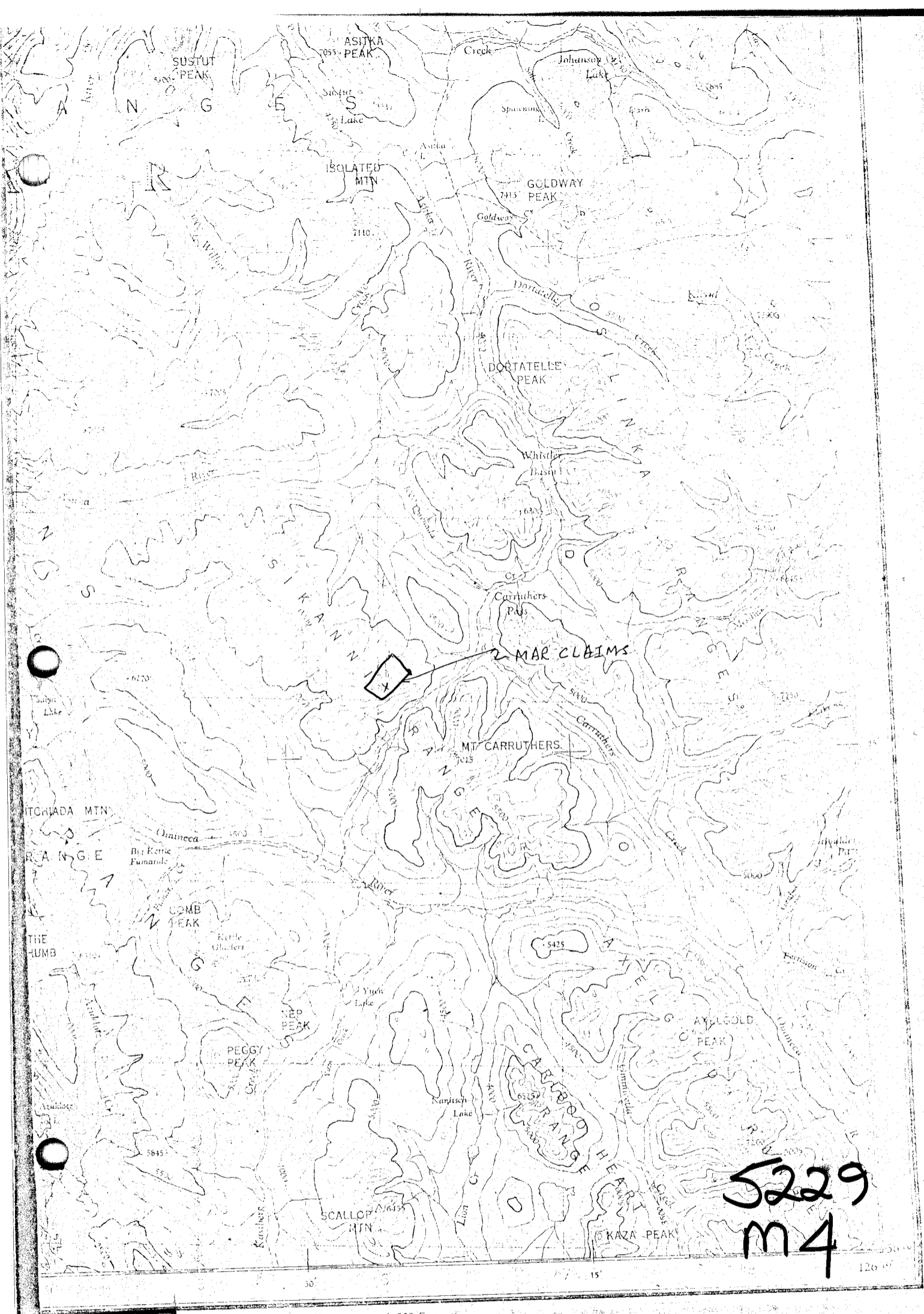
Mistry, N.J. Geologist on the MAR claim property project;
 Graduated from Stanford University, Calif. U.S.A.
 Exploration experiences in B.C. since 1968.

Hopper, David Student at U.B.C.; soil sampler; Field experiences:
 Three summer seasons in B.C.

Caron, Leonard: Student, U.B.C.; Geological helper.

Kendrick, Paul: Student U.B.C.; Soil sampler.

Woolsey, Alan: Professional driller
 Address: 635 Keith St.,
 North Vancouver, B.C.



5229
M4

Contour interval 500 Feet
All Elevations in Feet above Mean Sea Level.

McConnell Creeks - NTS 94D

REFERENCE

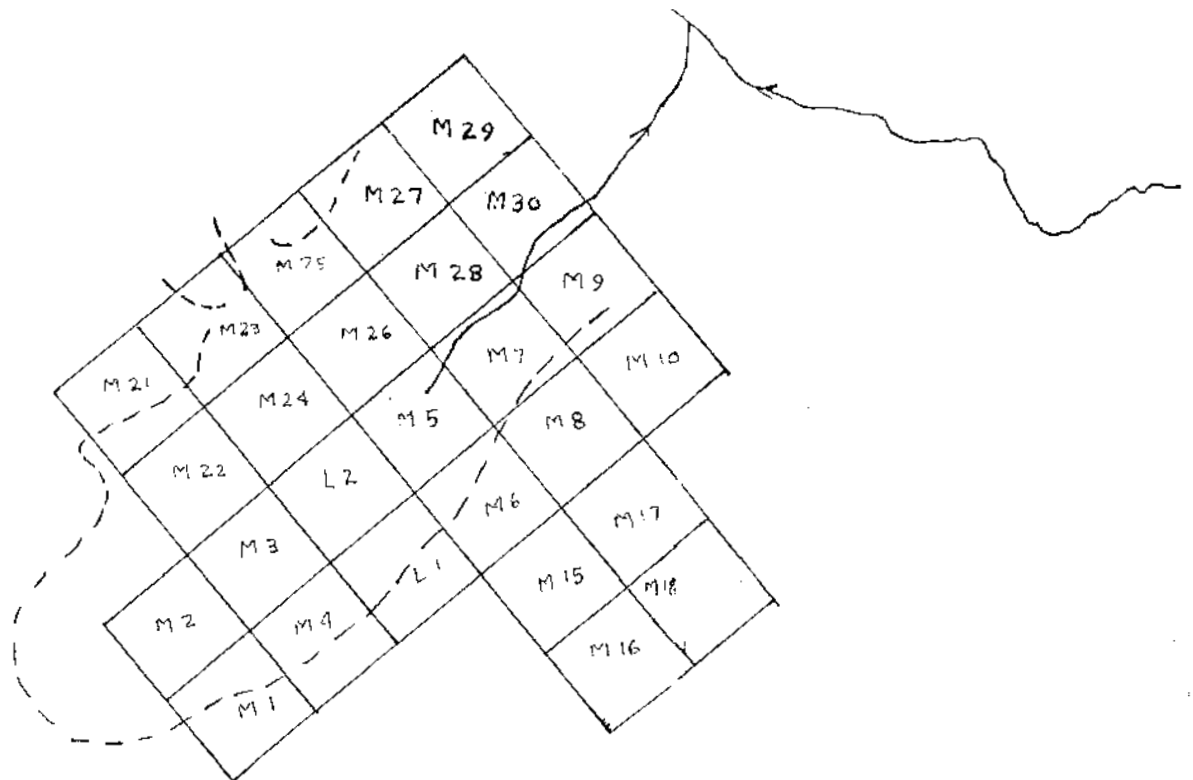
Horizontal Control Point	△	Spot Elevation, in feet	124
Contours, Elevation	100-500	Forest, unclassified	
Depression	100-500	Sump or Marsh	
Approximate			
Glacier or Snowfield			
Stream, Intermittent		Ferry	
Dam		Lighthouse	
Falls		Mud Sand	
Airfield, on Land		Water	
Power Transmission Line		Landing Ground	
		Anchorages	



NOTE: On the above index the sheets published are shown in solid lines.

LEGEND

- M MAR CLAIM
- L LEN "
- CIRQUE RIDGE
- > CREEK



MAR GROUP LEN GROUP
M1 - M30 L1 - L2

CLAIM MAP

SCALE: 1" = 1/2 MILE

PHOTO: A 12262 - 115
GOVT. OF CANADA
DEPT. OF ENERGY, MINES & RESOURCES

Mineral Resources Sector	
ASSESSMENT REPORT	
NO. 5229	MAP #5

SKETCH NO. 3b

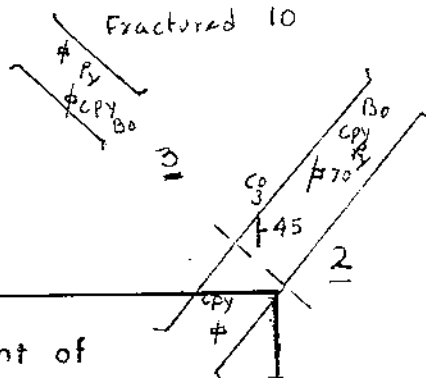
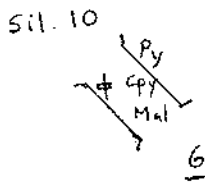
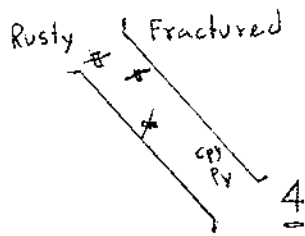
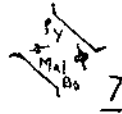
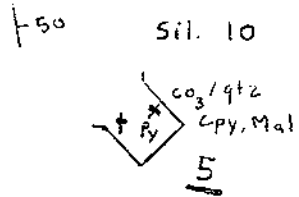
GEOLOGICAL MAP OF TRENCHES

LOCATION: CLAIM MAR 5

LEGEND

- 10 Dacite porphyry
- 1 etc. Trench number
- cpy chalcopyrite
- Bo Bornite
- Mal Malachite
- Py Pyrite
- Sil Silicified
- f20 Strike E. Dip
- f50 Joints

LAKE



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5229 MAP #3b

PECHINEY DEVELOPMENT LTD. VAN. B.
MAR-CLAIM GROUP PROPERTY, B. C.
GEOLOGY BY N.J. HISTRY
Scale: 1" = 20'
Oct. 1974

PECHINEY DEVELOPMENT LIMITED NPL

SUITE 701 - 744 WEST HASTINGS ST., VANCOUVER 1, B.C., CANADA
AREA CODE 604 TELEPHONE 687-1564 TELEX 04-53301

DEC 13 1974

December 9, 1974

Mr. E. J. Bowles,
Chief Gold Commissioner
Department of Mines &
Petroleum Resources
Victoria, B.C.



18878

Dear Sir:

DEPT. OF MINES
AND PETROLEUM RESOURCES

Re: LEN-MAR MINERAL CLAIMS
Geological-Geochemical Report #5219

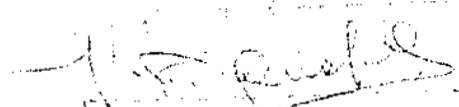
In reply to your letter dated December 5, 1974, relative to the above, we would advise as follows:

- (1) Copper minerals on the SE and NW ridges as well as in the dacite porphyry near the lake occur as disseminations through the rock as well as fracture fillings. Fractures may or may not carry calcite fillings. Some fractures also carry quartz fillings. On the SE and NW ridges small seams carry essentially disseminated mineralization without many visible fractures.
- (2) Yes to this question. It is a fact that the mineralization observed in the argillite consists essentially of chalcosite and bornite. It is also a fact that the mineralization observed in the dacite porphyry near the lake consists essentially of pyrite and chalcopyrite.
- (3) An error was made when drafting map # 2 (Geology) which led to an error in the text as the map was used as basis for the description of our work. In fact, the trench area is immediately southwest of the lake as indicated on the field sketch 3b. Consequently paragraph 3 on page 4 should read: "Surface Trenching on Claim LEN 2: seven surface trenches of various dimensions were made on claim LEN # 2 from August 15, 1974, (unchanged)".

I am sending you a set of new and more complete maps to replace the ones in your possession (Map # 2 - Geology).

I am sorry for any inconvenience this might have caused you and trust that the report can now be approved.

Yours very truly,
PECHINEY DEVELOPMENT LTD.


J.P. Guelpa, Geologist

cc: Mining Recorder,
Smithers, B.C.

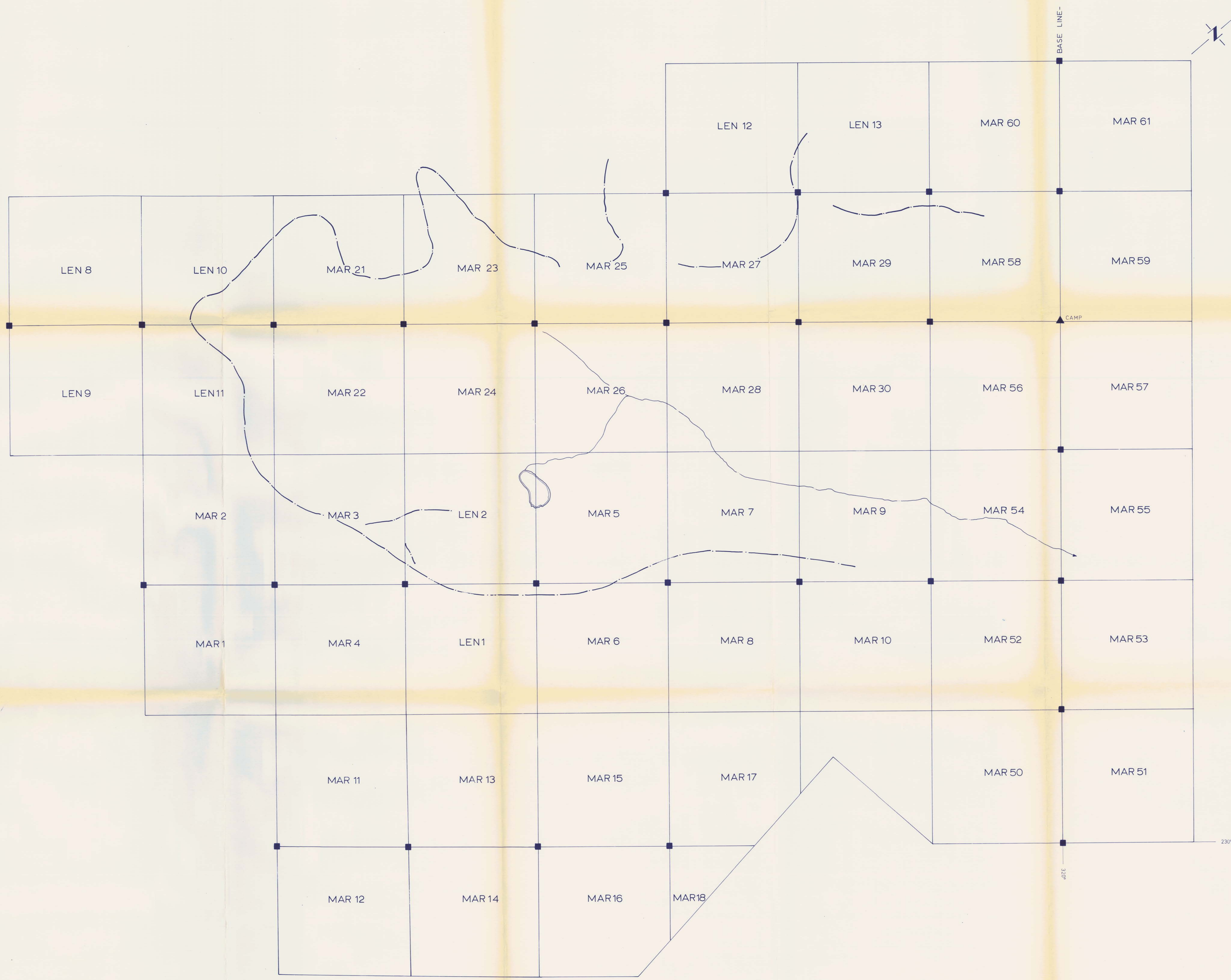
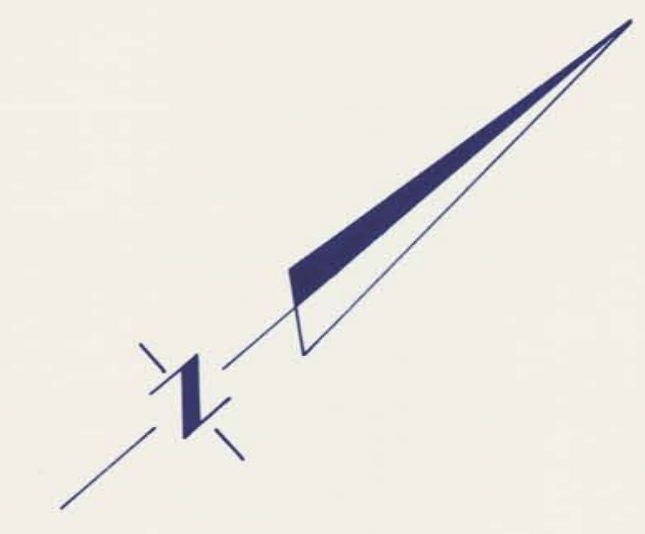
MAR-LEN CLAIMS GROUP

SUSTUT AREA B.C

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5229 MAP #1

SCALE: 1" = 400'

SEPTEMBER 1974



- LEGEND
- Claim post
 - Claim boundary
 - ~ Creek
 - - - Cirque ridge

5229
map 1

MAR-LEN CLAIMS GROUP

SUSTUT AREA BC

GEOLOGY

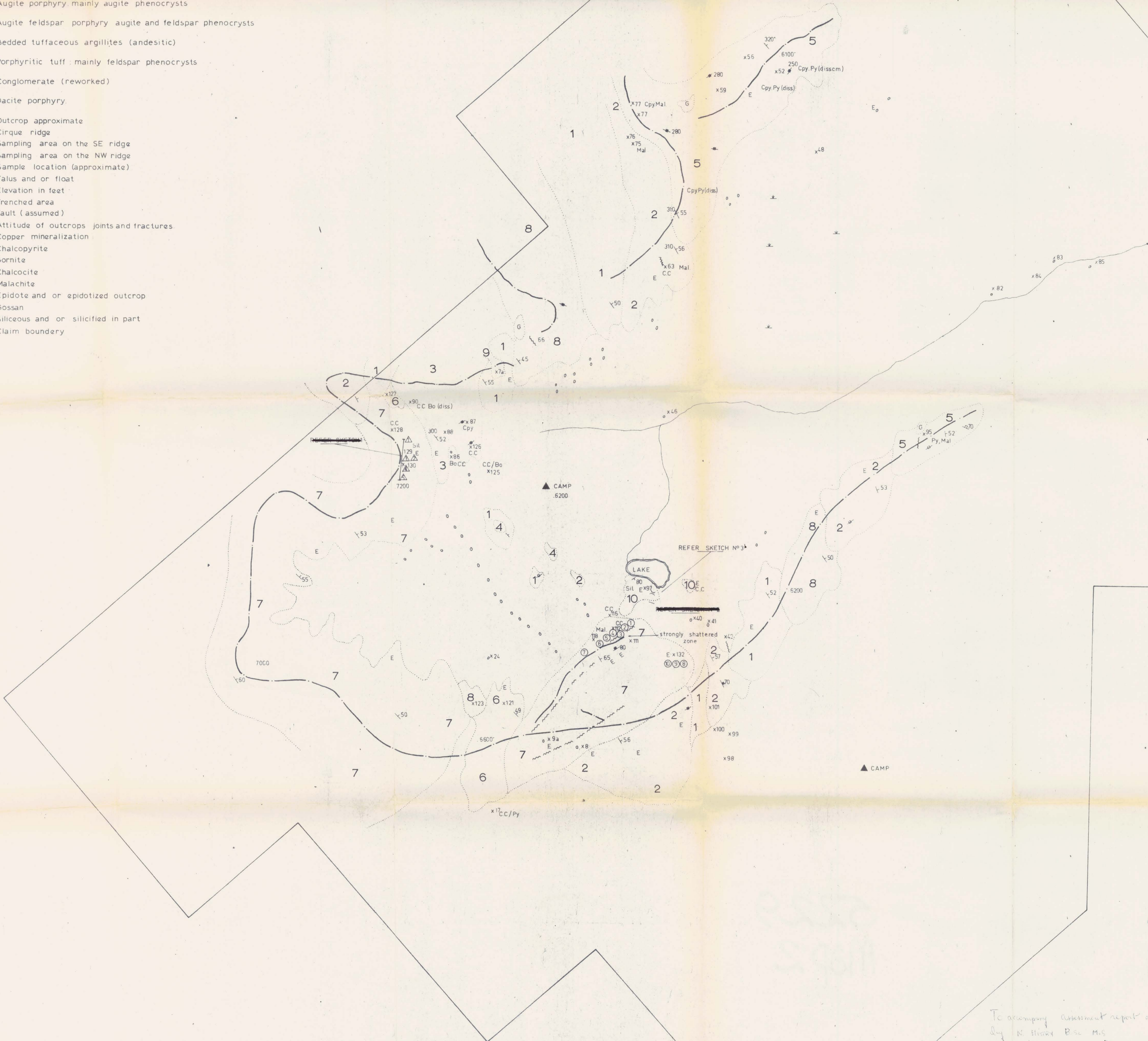
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5229 MAP #2

SCALE: 1 inch = 400 ft
0 400 800

NOVEMBER 1974

LEGEND

- JURASSIC: TAKLA GROUP (UPPER DIVISION)
- 1 Redish coarse agglomerate, clasts larger than 1/4"
 - 2 Redish medium agglomerate, clasts smaller than 1/4"
 - 3 Greenish agglomerate, mainly greenish clasts
 - 4 Metamorphosed redish coarse agglomerate
 - 5 Augite porphyry, mainly augite phenocrysts
 - 6 Augite feldspar porphyry, augite and feldspar phenocrysts
 - 7 Bedded tuffaceous argillites (andesitic)
 - 8 Porphyritic tuff, mainly feldspar phenocrysts
 - 9 Conglomerate (reworked)
 - 10 Dacite porphyry
- Outcrop approximate
 - ~ Cirque ridge
 - Sampling area on the SE ridge
 - △ Sampling area on the NW ridge
 - x Sample location (approximate)
 - o Talus and/or float
 - 6200 Elevation in feet
 - () Trenched area
 - - - Fault (assumed)
 - / Attitude of outcrops, joints and fractures
 - Copper mineralization
 - Cpy Chalcopyrite
 - Bo Bornite
 - CC Chalcocite
 - Mal Malachite
 - E Epidote and/or epidotized outcrop
 - G Gossan
 - Sil Siliceous and/or silicified in part
 - ~ Claim boundary



5229
Map 2

To accompany assessment report on the Mar-Len Claims Group
by N. H. B. B. S. M. S.
Dated 10/11/74
J. P. P. P. P.

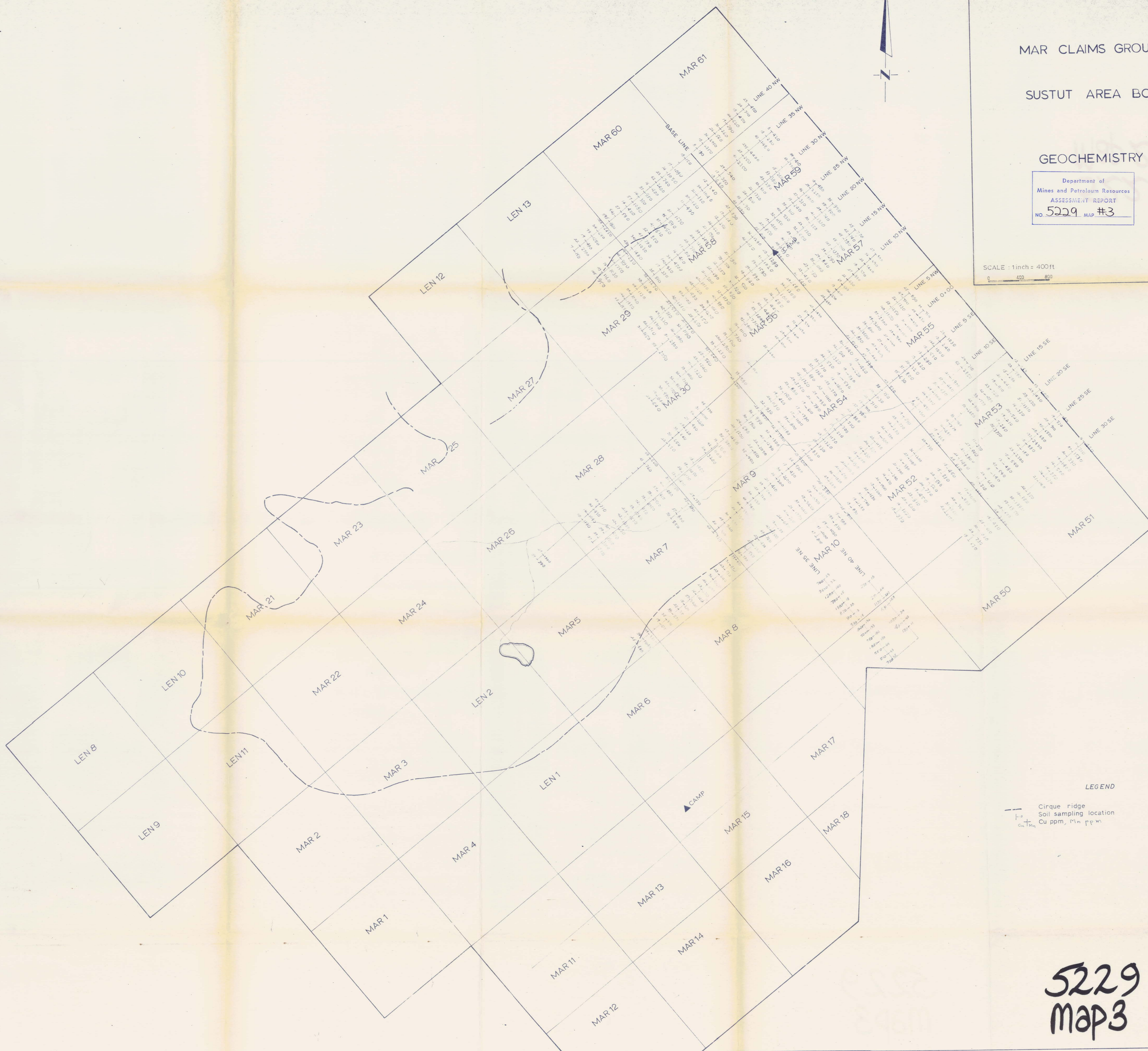
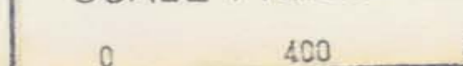
MAR CLAIMS GROUP

SUSTUT AREA BC

GEOCHEMISTRY

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5229 MAP #3

SCALE : 1 inch = 400ft



LEGEND

- Cirque ridge
- + Soil sampling location
- Cu ppm, Mn ppm

5229
MAP 3