

LEGEND

- Rock Sample
- △ Rock Chip Sample
- Anomalous
- Weakly Anomalous

Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. **3837** MAP #**9**

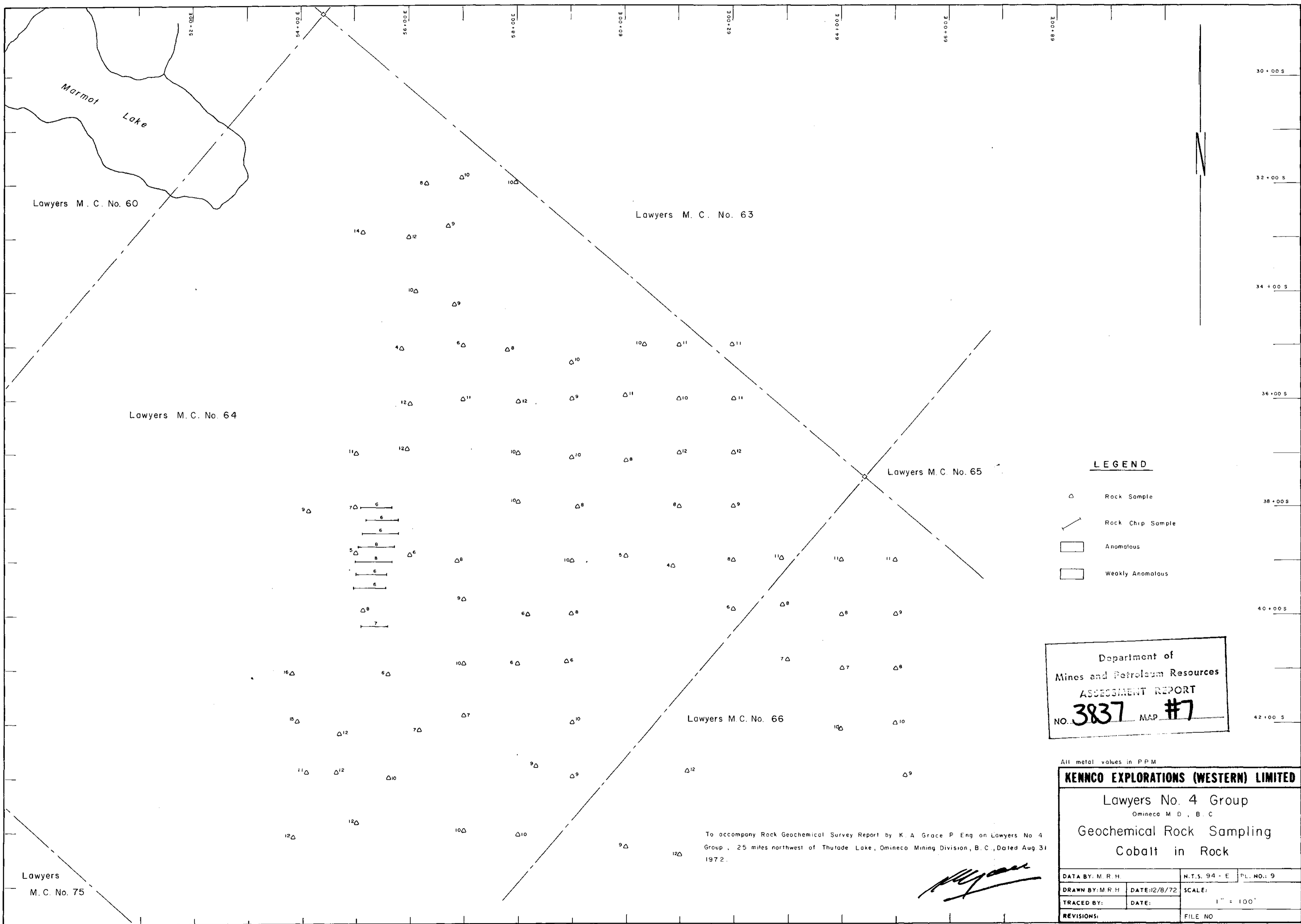
All metal values in P.P.M.

KENCO EXPLORATIONS (WESTERN) LIMITED			
Lawyers No. 4 Group Division M.C. - B.C.			
Geochemical Rock Sampling Gold in Rock			
DATA BY: M.R.H.	M.T.S. 38-1-E	PL. NO. 1-2	
DRAWN BY: M.R.H.	DATE: 12/6/72	SCALE: 1" = 100'	
TRACED BY:	DATE:		
REVISIONS:	FILE NO.:		

To accompany Rock Geochemical Survey Report by A. R. Grace, P. Eng. on Lawyers No. 4 Group - 25 miles northwest of Thule Lake, Ontario Mining Division, B.C., Dated Aug 31 1972.

A. R. Grace

Lawyers
M.C. No. 75



Lawyers M. C. No. 60

Lawyers M. C. No. 63

Lawyers M. C. No. 64

Lawyers M. C. No. 65

Lawyers M. C. No. 66

Lawyers
M. C. No. 75

LEGEND

- △ Rock Sample
- ▬ Rock Chip Sample
- Anomalous
- Weakly Anomalous

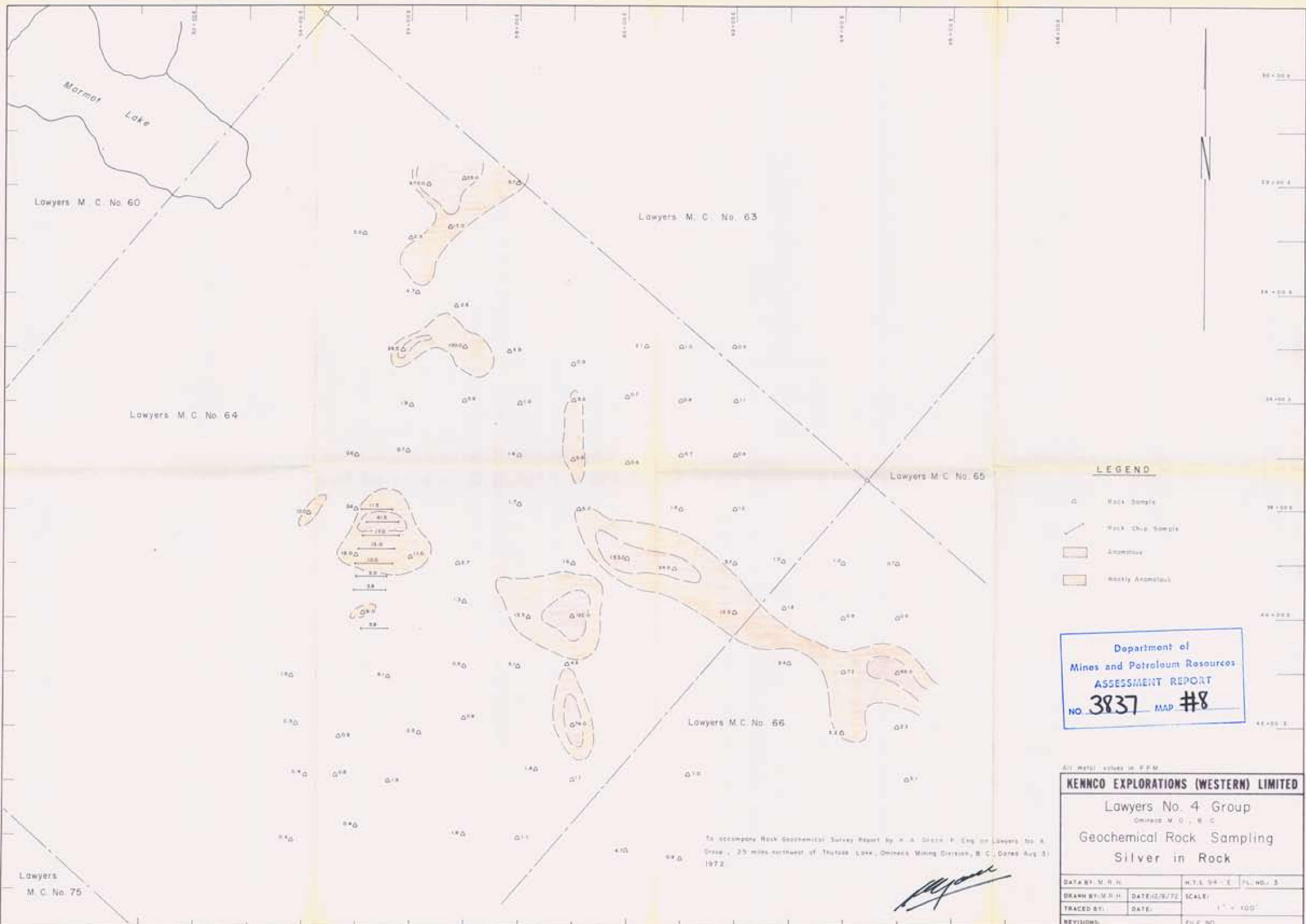
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **3837** MAP **#7**

All metal values in PPM
KENCO EXPLORATIONS (WESTERN) LIMITED

Lawyers No. 4 Group
Omineca M. D., B. C.
Geochemical Rock Sampling
Cobalt in Rock

To accompany Rock Geochemical Survey Report by K. A. Grace P. Eng on Lawyers No. 4 Group, 25 miles northwest of Thutade Lake, Omineca Mining Division, B. C., Dated Aug 31 1972.

DATA BY: M. R. H.	N.T.S. 94 - E	PL. NO.: 9
DRAWN BY: M. R. H.	DATE: 12/8/72	SCALE: 1" = 100'
TRACED BY:	DATE:	
REVISIONS:	FILE NO	



LEGEND

- Rock Sample
- Rock Chip Sample
- Anomalous
- Highly Anomalous

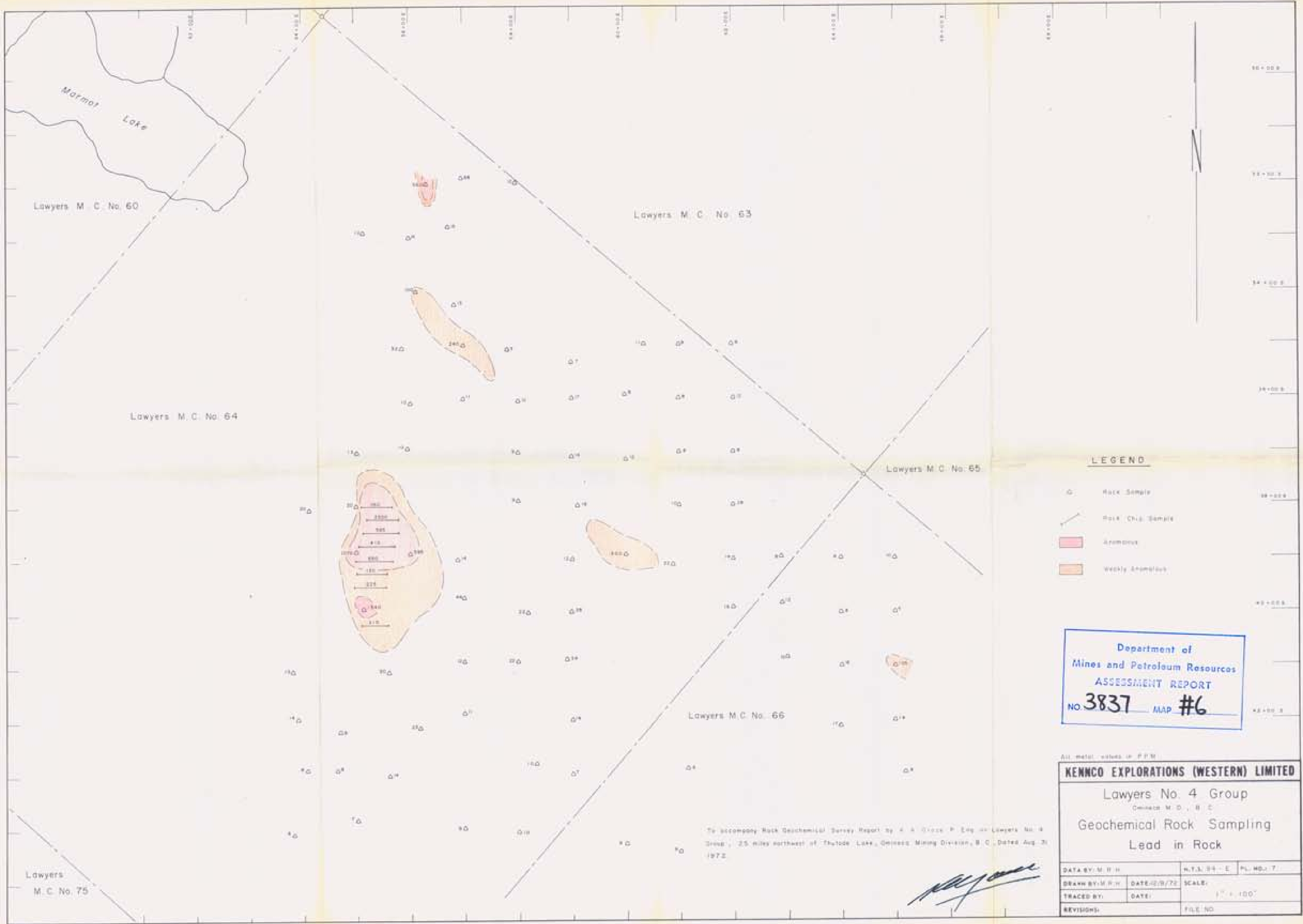
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3837 MAP #8

All metal values in P.P.M.

KENNCO EXPLORATIONS (WESTERN) LIMITED			
Lowyers No. 4 Group			
Office M. C. B. C.			
Geochemical Rock Sampling			
Silver in Rock			
DATA BY: M. R. H.	M.T.S. 94-E	PL. NO. 3	
DRAWN BY: M. R. H.	DATE: 2/2/72	SCALE:	
TRACED BY:	DATE:	1" = 100'	
REVISIONS:	FILE NO.		

To accompany Rock Geochemical Survey Report by K. A. Grace, P. Eng. on Lowyers No. 4 Group, 2.5 miles northeast of Thytsoe Lake, Ontario Mining Division, B. C., Dated Aug. 31, 1972.

[Handwritten Signature]



LEGEND

- Rock Sample
- △ Rock Chip Sample
- Anomalous
- Weakly Anomalous

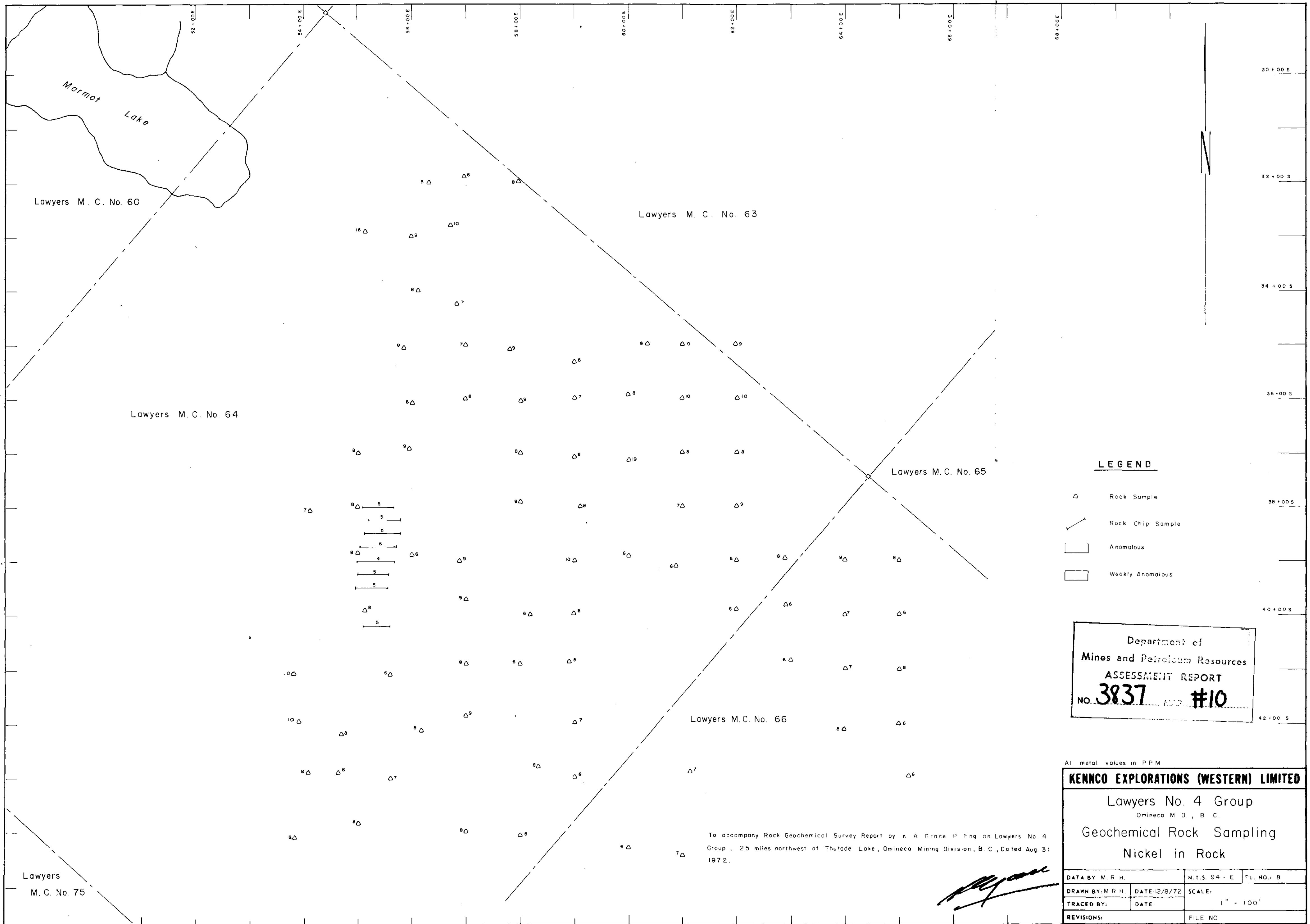
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3837** MAP #**6**

KENCO EXPLORATIONS (WESTERN) LIMITED			
Lawyers No. 4 Group <small>Geological M.C. B.C.</small>			
Geochemical Rock Sampling Lead in Rock			
DATA BY: M.P.H.	N.T.S. 24 - E	PL. NO. 7	
DRAWN BY: M.P.H.	DATE: 12/2/72	SCALE:	
TRACED BY:	DATE:	1" = 100'	
REVISIONS:	FILE NO.		

To accompany Rock Geochemical Survey Report by A. A. Gross, P. Eng. on Lawyers No. 4 Group, 25 miles northwest of Thutode Lake, Geology Mining Division, B.C., Dated Aug. 31, 1972.

M.P.H.

Lawyers
M.C. No. 75



LEGEND

- △ Rock Sample
- ▤ Rock Chip Sample
- Anomalous
- Weakly Anomalous

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3837** #10

KENCO EXPLORATIONS (WESTERN) LIMITED

Lawyers No. 4 Group
 Omineca M.D., B.C.
 Geochemical Rock Sampling
 Nickel in Rock

DATA BY: M.R.H.	N.T.S. 94 - E	PL. NO.: B
DRAWN BY: M.R.H.	DATE: 12/8/72	SCALE:
TRACED BY:	DATE:	1" = 100'
REVISIONS:	FILE NO.	

To accompany Rock Geochemical Survey Report by K. A. Grace P. Eng on Lawyers No. 4 Group, 25 miles northwest of Thutade Lake, Omineca Mining Division, B.C., Dated Aug. 31 1972.

[Handwritten Signature]

3837

KANCO EXPLORATIONS, (WESTERN) LIMITED

REPORT

ON

ROCK GEOCHEMICAL SURVEY

LAWYERS NO. 4 GROUP

(Lawyers Mineral Claims 55-58, 60, 63-66, 93-97, 99,
131-140, 151-160, 177, 178 Fr, 179 Fr)

Situated 25 miles northwest of Thutade Lake,
Omineca Mining Division,
British Columbia

57°18'N:

127°12'W

July 16 to July 18, 1972

94 E / 6 E

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3837 MAP.....

By:

M. R. Hegge

K. A. Grace, P. Eng.

August 31, 1972

Mining Recorder's Office
RECORDED

SEP 8 1972

AT.....
SMITHERS, B.C.

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#8 Plate No. 7 Silver in Rock	"
#9 Plate No. 8 Gold in Rock	"
#10 Plate No. 9 Nickel in Rock	"



Kennco Explorations (Western) Ltd.

Lawyers Group No. 4

Situated 25 Miles Northwest of Thutade Lake

Omineca M. D., B. C.

57° 16' N 127° 12' W

Scale: 1 : 250,000

Location Map

3837 M-1

INTRODUCTION

The mineral property discussed in this report is situated about 20 miles northwest of Thutade Lake, British Columbia. The exploration work on these claims consisted of a rock geochemical survey.

The planning, interpretation, and writing of this report for the survey work was conducted by M.R. Hegge, B.Sc., P.Geol.(Alta). Sampling personnel are listed under 'Statement of Costs Incurred'. The work was done under the supervision of K.A. Grace, P.Eng.

LOCATION AND ACCESS

The property is situated at Latitude 57°18'N, Longitude 127°12'W, about 180 miles due north of Smithers. This is about 25 miles northwest of Thutade Lake. The survey area is about 5500' to 5700' above sea level. The area is all above tree-line, and outcrop is prominent.

Access to the property is by fixed-wing aircraft from Smithers to Black Lake, a distance of about 165 miles, and by helicopter from there. Local travel on the Lawyers property is fairly easy. A helicopter was used to set out sampling crews in order to minimize travel time from camp which is a four-hour round trip on foot from the survey area.

ROCK GEOCHEMICAL SURVEY

Rock Survey Field Work

Sample Site Control

A control grid was established by chain and compass survey. Laths and surveyor's flagging were used to mark the stations as the survey area is above tree-line. This gave good control of sample sites, with minimum expenditures.

Sample lines were run at 100-foot intervals in a north-south direction. A base map with a scale of 1" = 100' was compiled for use in plotting the sample results.

Rock Sample Collection

The samples were taken at 100-foot intervals along the grid lines or from outcrops within a 25-foot radius of the proposed sample centre if no outcrop existed at that point. Bed-rock samples were obtained where possible but, in some areas, frost-heaved material was sampled if it was considered to not have undergone any lateral movement.

Sample chips about 1" to 2" were taken with a standard prospector's hammer. About 2-3 pounds of these chips were collected from each sample site. The sample site and number were then plotted on a field map and a note made if the sample had been obtained other than by the standard procedure.

Packaging

The samples were placed in 6" x 10" cloth sample bags constructed especially for rock samples. The sample number was written on both sides of the bag and then sealed by string.

Sample Preparation

The samples were shipped to our laboratory in North Vancouver. Particular care was taken to avoid contamination in the preparation of these samples as the analyses were to be done in parts per million. The sample was primary crushed to 1/4" mesh; secondary crushed to minus 10 mesh; dried; and then pulverized to minus 100 mesh. The pulverizer was flushed with "clean" rock after each sample. The average analysis of this cleaning work is as follows:

7 ppm Cu
0 ppm Mo
30 ppm Zn
4 ppm Pb
0.3 ppm Ag
0.00 ppm Au
10 ppm Co
10 ppm Ni

Analysis

The samples were analysed in the North Vancouver laboratory of Kennco Explorations, (Western) Limited under the supervision of H. Goddard, Laboratory Manager. Total extraction

from a weighed sample is achieved by digestion with nitric acid and 70% perchloric acid. Determination of the Cu, Mo, Zn, Pb, Ag, Co, Ni content is made by aspiration in a Techtron AA5 Atomic Absorption Spectrophotometer. To determine the Au content, a weighed sample is digested in aqua regia, filtered, and the gold removed by solvent-solvent extraction in an organic solvent, MIBK (methyl-isobutyl-ketone). This is aspirated in the Techtron AA5.

Interpretation

The purpose of the rock geochemical survey was to examine the trace metal content of the various rock units in the area that appeared most promising for normally invisible Au, Ag, and other metal mineralization; with this information, background values could be established in addition to delineating trenching or diamond drill hole targets. The results are plotted on Plate No.'s 2 to 9, and have been contoured to extrapolate information between sample sites.

Silver values in rock appear to coincide well with fracture zones which trend 000°, 040°, and 325°; mineralization is strongest where these structures coincide or are individually strong - for example, at 56+00E, 39+00S and 56+00E, 32+00S. At the latter site, the silver-anomalous zone is open to the north; a similar but weaker situation exists at 65+00E, 41+00S, where the anomaly is open to the southeast.

Gold correlates well with silver values but exhibits less continuity. The low background values for gold, coupled

with greater analytical error at these levels, render silver a more useful geochemical guide for possible gold-bearing, lithologic zones.

The copper mineralization which might be considered as anomalous is centered at 56+00E, 39+00S where it is associated with strong zinc and lead values. Ag:Pb ratios are less in this zone, however, than seen elsewhere on the grid and this may be indicative of a different stage of silver mineralization. The higher silver values are more peripheral to 56+00E, 39+00S and, in these zones, molybdenum appears to be another valuable indicator of rocks favourable for silver and gold mineralization. Nickel and cobalt results are below values of any significance.

Results of the geochemical survey, in addition to providing a knowledge of metal associations in the area, indicate that further work should be conducted to the north and southeast of the grid where anomalous zones of Ag-in-rock are still open to extension. These zones should be rock sampled at 100' centres with subsequent cat-trenching or diamond drilling conducted in areas of favourable results.

In the central part of the grid, it is recommended that diamond drilling be conducted in areas of high Ag-in-rock values in order to test the indicated favourable structures at depth. Holes should be drilled at -50° and oriented at 090° as most of the structures are vertically dipping. Suggested targets are:

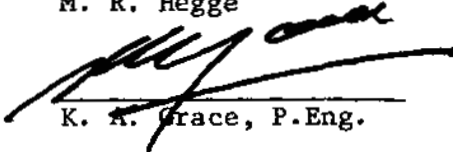
1. 56+00E, 32+00S
2. 55+00E, 38+00S
3. 60+00E, 39+00S

Collars should be located to intersect the favourable structures at a 50' vertical depth.

Vancouver, B.C.

August 31, 1972


M. R. Hegge


K. A. Grace, P.Eng.

STATEMENT OF COSTS INCURRED

Lawyers Group No. 4

Survey Details:

Time: 2 days - July 16 & 18, 1972
Samplers: J. Paine, I. Hayes
No. of Samples on 100' Centres: 89

Survey Costs:

<u>Wages:</u> 4 man-days x \$21/day	\$ 84.00
<u>Room & Board:</u> 4 man-days x \$16.50/day	66.00
<u>Helicopter Time Per Day:</u> (5 mile round trip x 2 trips/day) 2 x 1/3 hr/day x (\$130/hr + \$48/hr for fuel [\$3/gal at camp])	118.00
<u>Analyses:</u> 89 samples for Cu,Mo,Zn,Pb,Co,Ni,Ag,Au x \$4.50/sample	400.50
<u>Supervision & Interpretation:</u> (Geologist) 1 man-day x \$56.50/day (includes support)	56.50
<u>Drafting & Typing:</u>	<u>50.00</u>
TOTAL	<u>\$657.00</u>

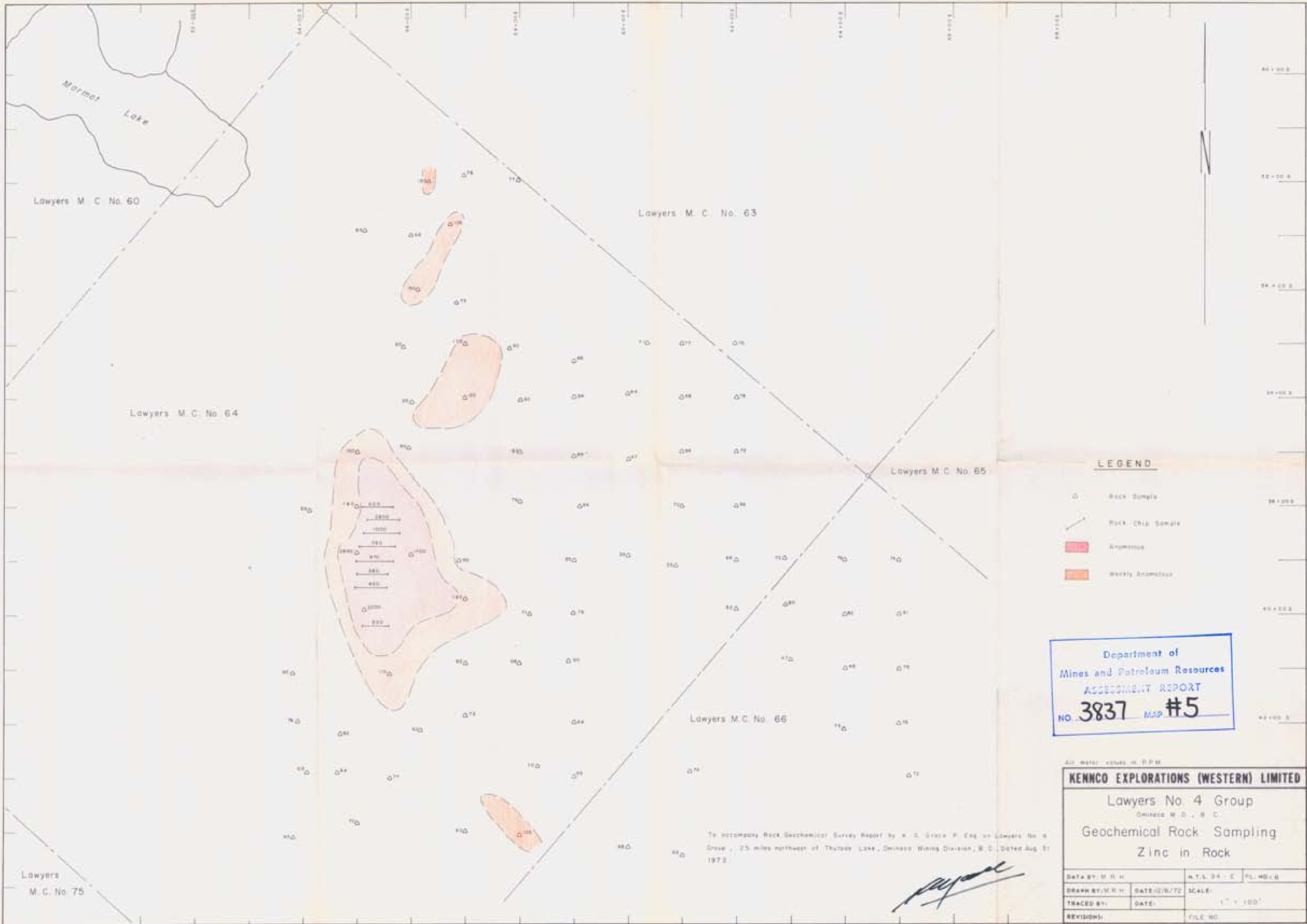
OR: $\frac{\$657.00}{89} = \$7.38/\text{sample}$



DISTRIBUTION OF WORK

Lawyers Group No.4

<u>Claim No.</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Years Work Applied</u>
58	91773	Sept.10	1
60	91775	Sept.10	1
177	101565	Aug. 6	1
178 Fr.	101564	Aug. 6	1
179 Fr.	103149	Sept. 3	1
** 180 Fr.	- applied on affidavit but should have been claim No. 62		
62	91777	Sept.10	1



Lowyers M.C. No. 60

Lowyers M.C. No. 63

Lowyers M.C. No. 64

Lowyers M.C. No. 65

Lowyers M.C. No. 66

Lowyers
M.C. No. 75

To accompany Rock Geochemical Survey Report by K. A. Brock P. Eng. on Lowyers No. 4 Group, 2.5 miles northwest of Thurston Lake, DeWasa Mining Division, B.C., Dated Aug. 31, 1973.

LEGEND

- △ Rock Sample
- ▲ Rock Chip Sample
- Anomaly
- Weekly Anomaly

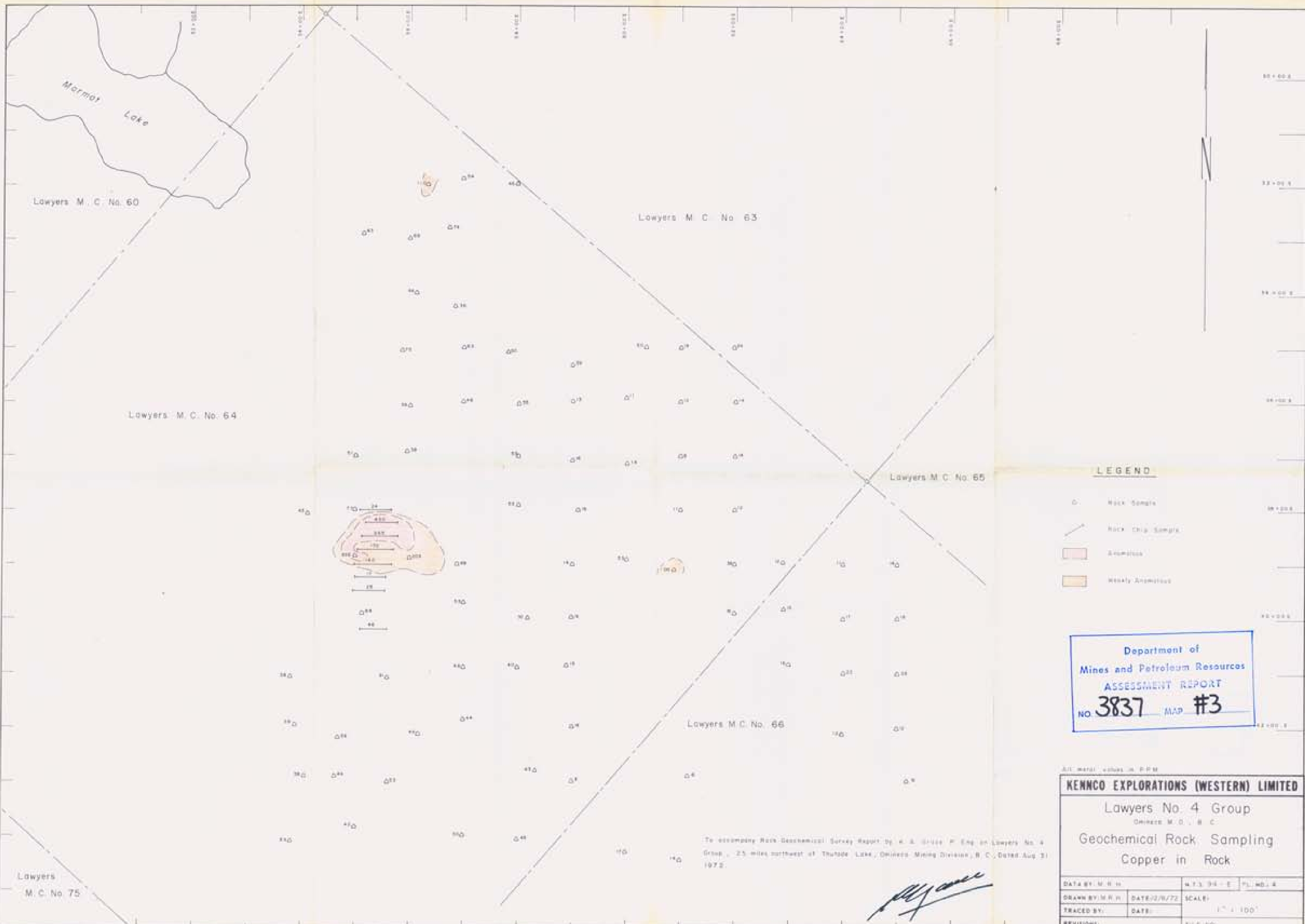
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3837 MAP #5

KENNCO EXPLORATIONS (WESTERN) LIMITED

Lowyers No. 4 Group
DeWasa M.D., B.C.
Geochemical Rock Sampling
Zinc in Rock

DATA BY: M.R.H.	A.T.S. DR. - E.	PL. NO. 6
DRAWN BY: M.R.H.	DATE: 02/16/72	SCALE:
TRACED BY:	DATE:	1" = 100'
REVISIONS:	FILE NO.	

[Handwritten signature]



LEGEND

- Rock Sample
- ✕ Rock Chip Sample
- Anomalous
- Weakly Anomalous

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3837** MAP # **3**

KENCO EXPLORATIONS (WESTERN) LIMITED

Lawyers No. 4 Group
 Owners M. D. L. B. C.
 Geochemical Rock Sampling
 Copper in Rock

DATA BY: M. R. H.	N.T.S. 34" x 45"	PL. NO. 4
DRAWN BY: M. R. H.	DATE: 2/9/72	SCALE:
TRACED BY:	DATE:	1" = 100'
REVISIONS:	FILE NO.:	

To accompany Rock Geochemical Survey Report by W. A. Gillet P. Eng. on Lawyers No. 4 Group, 25 miles northwest of Thudor Lake, Okanogan Mining Division, B. C., Dated Aug. 31, 1972.

M. R. H.

Lawyers
M. C. No. 75



LEGEND

- Rock Sample
- Rock Chip Sample
- Anomalous
- Highly Anomalous

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3837** MAP **#4**

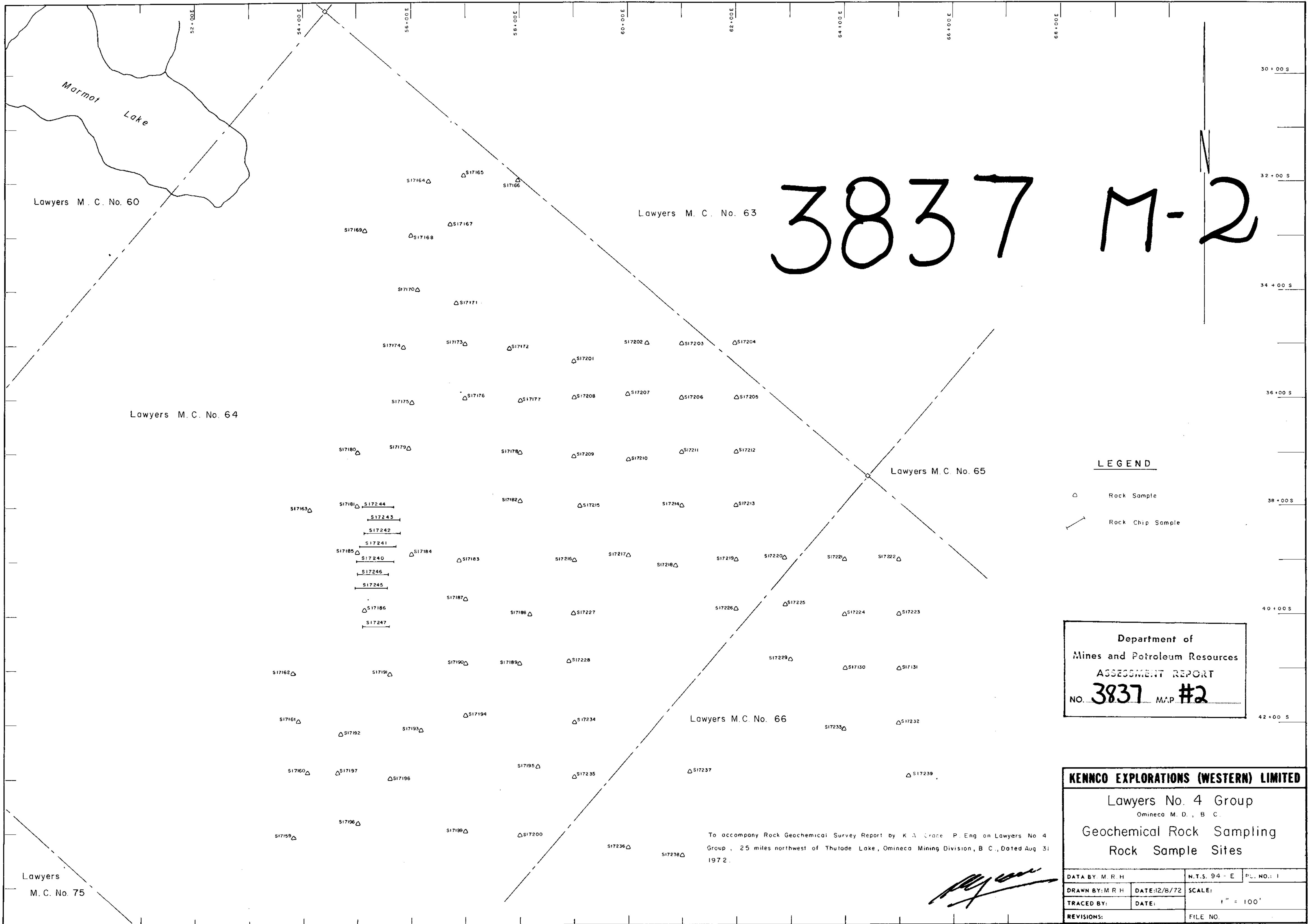
KENNCO EXPLORATIONS (WESTERN) LIMITED

Lawyers No 4 Group
Ontario M. D. B. C.
 Geochemical Rock Sampling
 Molybdenum in Rock

DATA BY: M. R. H.	H.T.S. 94 - E	PL. NO. 5
DRAWN BY: M. R. H.	DATE: 12/8/72	SCALE:
TRACED BY:	DATE:	1" = 100'
REVISIONS:	FILE NO.	

To accompany Rock Geochemical Survey Report by K. A. Clark, P. Eng. of Lawyers No. 4 Group, 2.5 miles northwest of Thurston Lake, Ontario Mining Division, B. C., dated Aug. 31, 1972.

Lawyers
M. C. No. 75



3837 M-2

LEGEND

- △ Rock Sample
- Rock Chip Sample

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **3837** MAP #2

KENCO EXPLORATIONS (WESTERN) LIMITED

Lawyers No. 4 Group
Omineca M. D., B. C.
Geochemical Rock Sampling
Rock Sample Sites

To accompany Rock Geochemical Survey Report by K. A. Grace, P. Eng. on Lawyers No. 4 Group, 25 miles northwest of Thutade Lake, Omineca Mining Division, B. C., Dated Aug 31 1972.

[Handwritten Signature]

DATA BY: M. R. H.	N.T.S. 94 - E	PL. NO.: 1
DRAWN BY: M. R. H.	DATE: 12/8/72	SCALE: 1" = 100'
TRACED BY:	DATE:	
REVISIONS:	FILE NO.	

Lawyers M. C. No. 60

Lawyers M. C. No. 63

Lawyers M. C. No. 64

Lawyers M. C. No. 65

Lawyers M. C. No. 66

Lawyers
M. C. No. 75