

94E/6E  
KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT ON ROCK GEOCHEMICAL SURVEY

LAWYERS NO. 5 GROUP

(Lawyers No. 1, 3-6, 9-18, 21-30, 45-54)

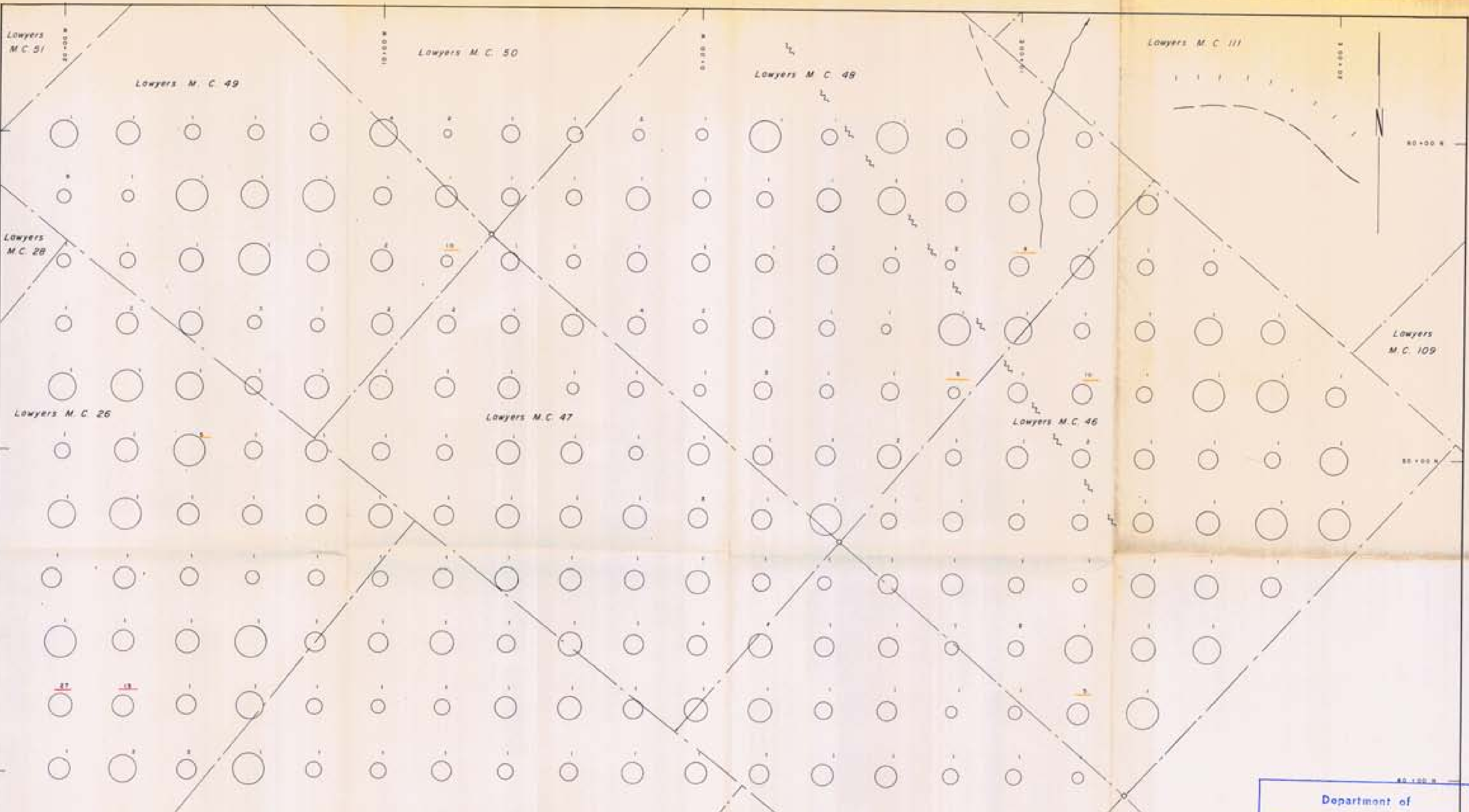
Situated approx. 180 mi. N. of Smithers,  
25 mi. NW of Thutade Lake,

57°18'N Omineca M. D., B. C. 127°10'W






July 23, 25-28, 30-31, 1972

By: K. A. Grace, P. Eng. September 26, 1972

3841



**LEGEND**

-  Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
-  Claim post & line
-  Airphoto indicated lineament
-  Anomalous
-  Weakly anomalous

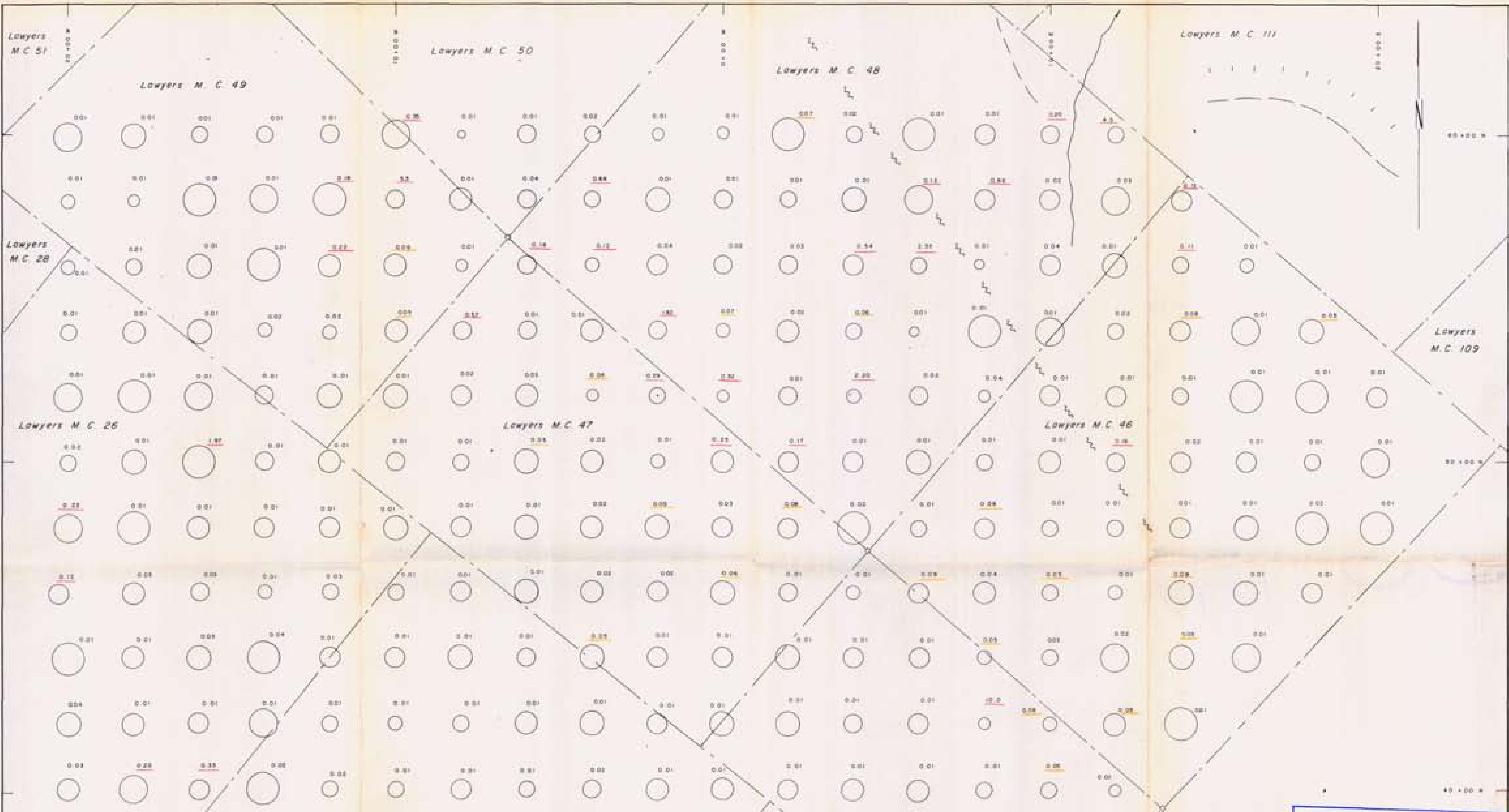
Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
NO. **3841** MAP #**FL**

**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 5 Group  
Omineca M.D., B.C.  
**Geochemical Rock Sampling**  
Molybdenum in Rock

To accompany Rock Geochemical Survey Report by K.A. Grace P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Thutade Lake, Omineca M.D., B.C. Dated Sept. 26, 1972.

DATA BY: M. R. H.	H.T.S. 94-E	PL. NO. 5
DRAWN BY: M. R. H.	DATE: 29/9/72	SCALE: 1" = 200'
TRACED BY:	DATE:	
REVISIONS:	FILE NO.	



**LEGEND**

- Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
- Claim post & line
- Airphoto indicated lineament
- Anomalous
- Weakly anomalous

To accompany Rock Geochemical Survey Report by K. A. Grace P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Thutade Lake, Ontario M.D., B.C. Dated Sept 26, 1972.

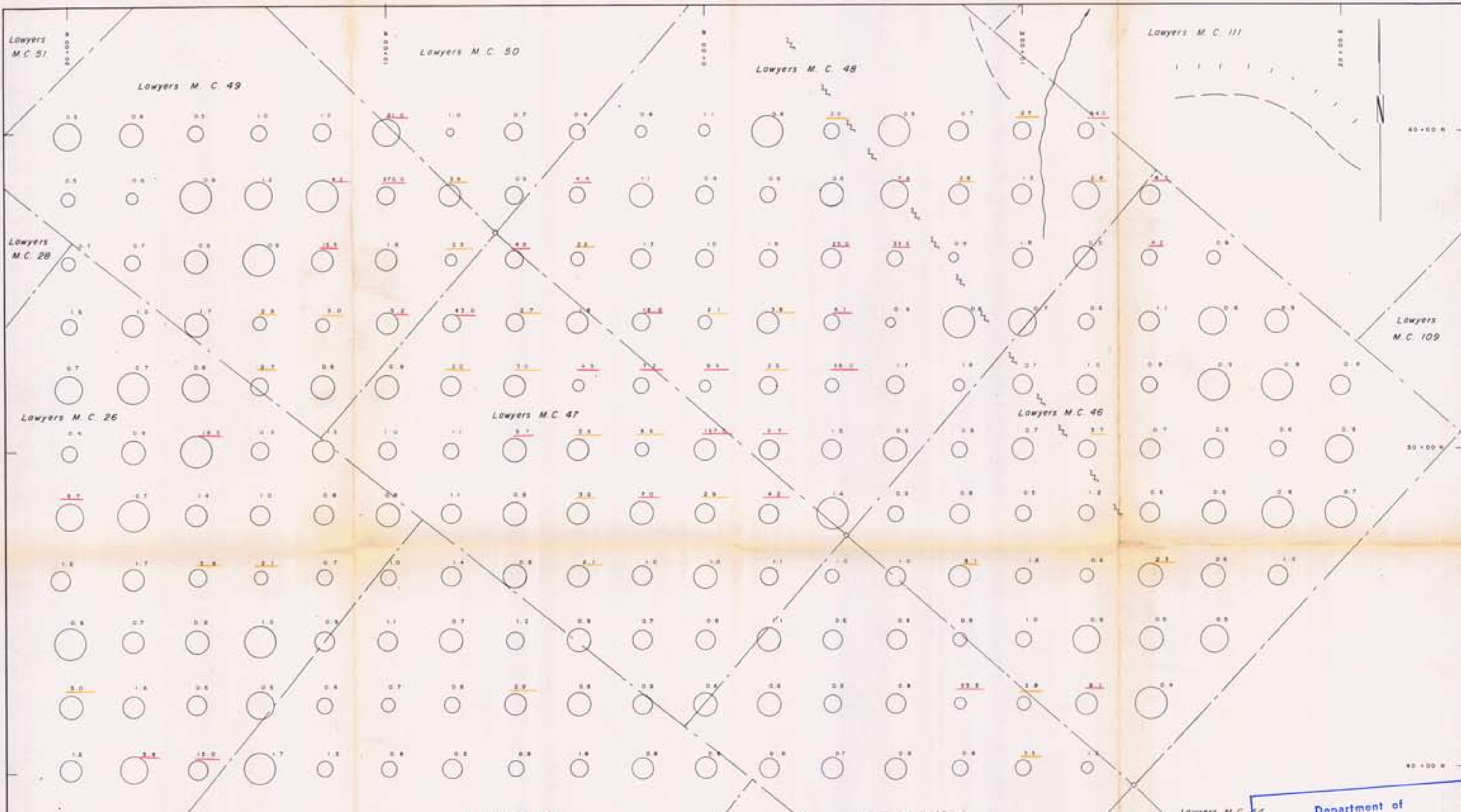
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Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
NO. **3841** MAP # **3**






**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 5 Group  
Ontario M.D., B.C.  
**Geochemical Rock Sampling**  
Gold in Rock

DATA BY: M. R. H.	H.T.S. 94-E	PL. NO.: 2
DRAWN BY: M. R. H.	DATE: 29/9/72	SCALE: 1" = 200'
TRACED BY:	DATE:	
REVISIONS:		FILE NO.



**LEGEND**

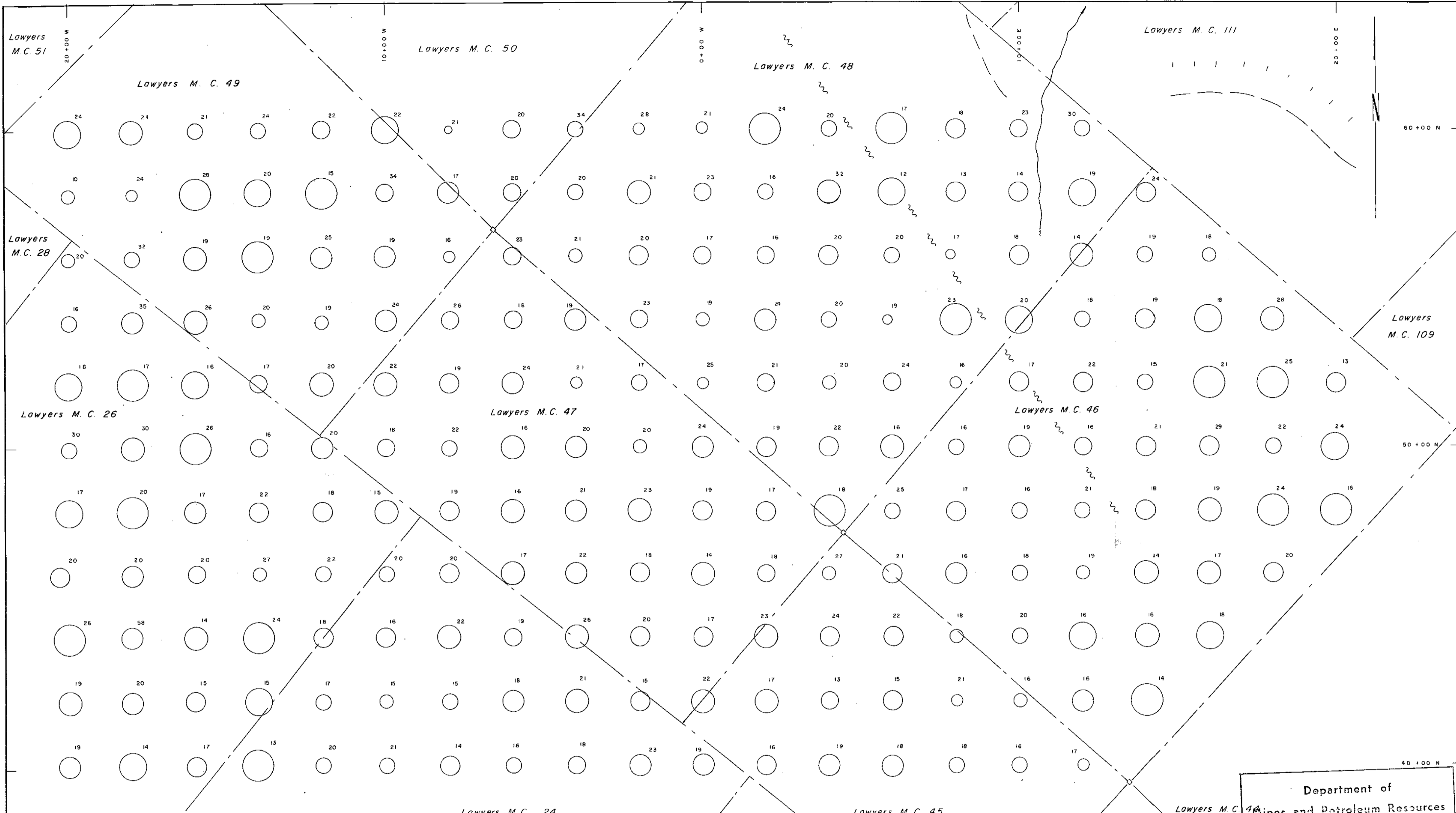
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-  Claim post & line
-  Airphoto indicated lineament
-  Anomalous
-  Weakly anomalous

To accompany Rock Geochemical Survey Report by K.A. Grace P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Thutade Lake, Omineca M.D., B.C. Dated Sept. 26, 1972.

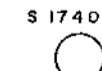
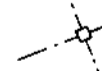
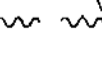


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Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3841 MAP #4

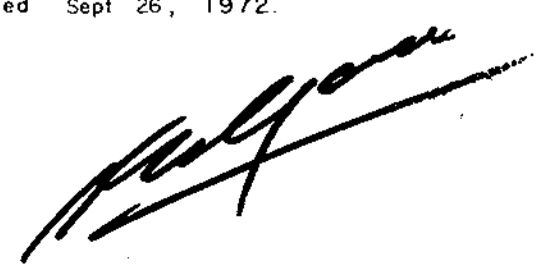
KENNCO EXPLORATIONS (WESTERN) LIMITED		
Lawyers No. 5 Group Omineca M.D., B.C.		
Geochemical Rock Sampling Silver in Rock		
DATA BY: M. R. H.	N.T.S. 94 - E	PL. NO. 3
DRAWN BY: M. R. H.	DATE: 20/9/72	SCALE: 1" = 200'
TRACED BY:	DATE:	
REVISIONS:	FILE NO.	



**LEGEND**

- 
 S 17403  
 Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
- 
 Claim post & line
- 
 Airphoto indicated lineament
- 
 Anomalous
- 
 Weakly anomalous

To accompany Rock Geochemical Survey Report by K. A. Grace P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Thutade Lake, Omineca M.D., B.C. Dated Sept 26, 1972.

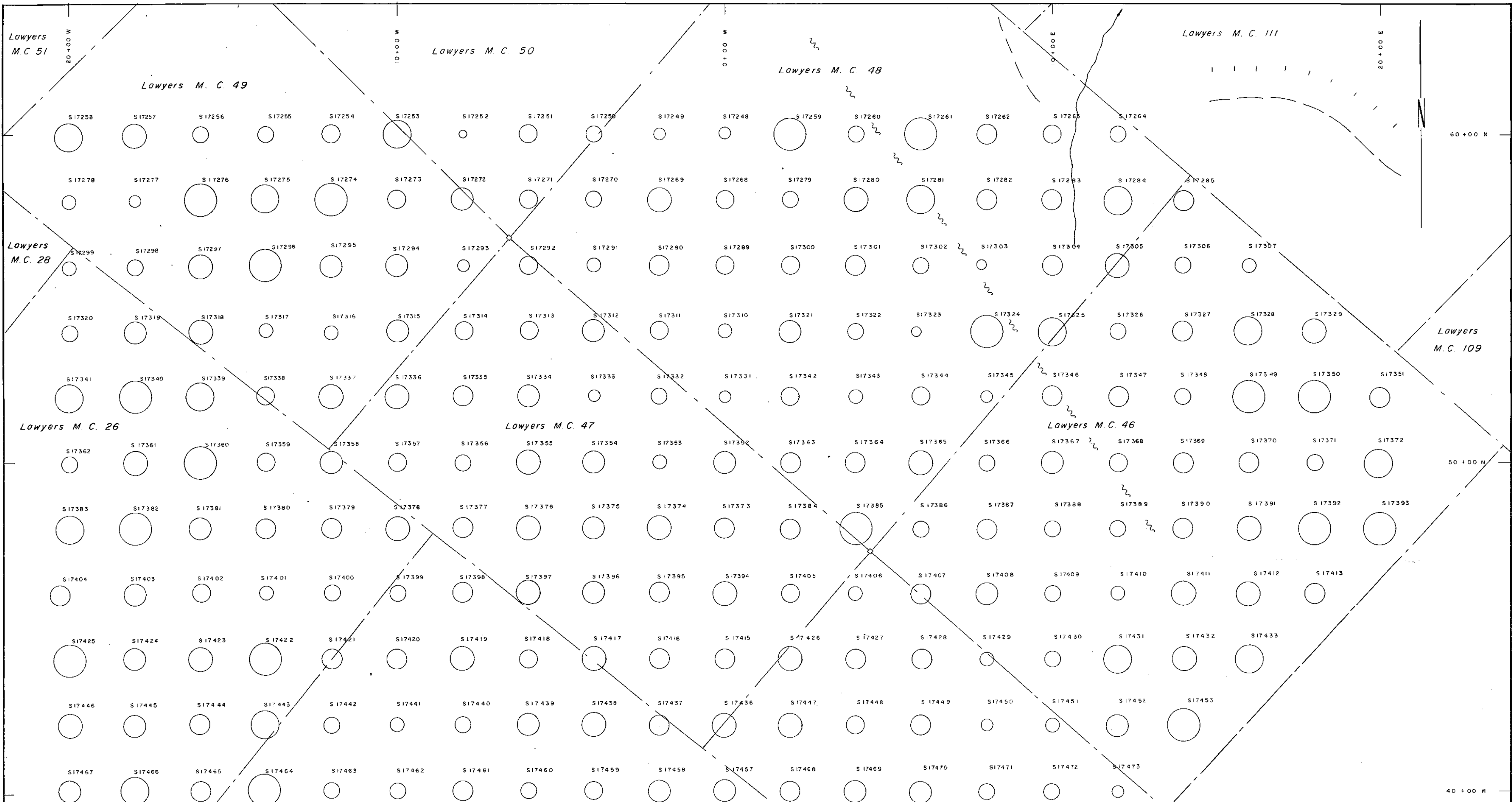


Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **3841** MAP # **5**

**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 5 Group  
Omineca M. D., B. C.  
Geochemical Rock Sampling  
Copper in Rock

DATA BY: M. R. H.	N.T.S. 94 - E	PL. NO.: 4
DRAWN BY: M. R. H.	DATE: 29/8/72	SCALE: 1" = 200'
TRACED BY:	DATE:	
REVISIONS:	FILE NO.	



**LEGEND**

- S 17403 Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
- Claim post & line
- Airphoto indicated lineament
- Anomalous
- Weakly anomalous

3841 M-2

To accompany Rock Geochemical Survey Report by K. A. Grace P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Thutade Lake, Omineca M.D., B.C. Dated Sept. 26, 1972.

Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
NO. **3841** MAP. **#2**

<b>KENCO EXPLORATIONS (WESTERN) LIMITED</b>		
Lawyers No. 5 Group Omineca M. D., B. C.		
Geochemical Rock Sampling Rock Sample Sites		
DATA BY: M. R. H.	N.T.S. 94 - E	PL. NO.: 1
DRAWN BY: M. R. H.	DATE: 29/8/72	SCALE: 1" = 200'
TRACED BY:	DATE:	
REVISIONS:	FILE NO.	

# 3841

KENNEDY EXPLORATIONS (WESTERN) LIMITED

REPORT

ON

ROCK GEOCHEMICAL SURVEY

LAWYERS NO. 5 GROUP

(Lawyers No. 1, 3-6, 9-18, 21-30, 45-54)

Situated approx. 180 mi. N of Smithers,  
25 mi. NW of Thutade Lake,  
Omineca Mining Division,  
British Columbia

57°18'N

127°10'W

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 3841 MAP

By

K. A. Grace, P. Eng.

Work Done:

July 23, 25-28, 30-31, 1972

September 26, 1972

Mining Recorder's Office  
RECORDED

SEP 29 1972

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

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
LOCATION AND ACCESS	2
ROCK GEOCHEMICAL SURVEY	3
Rock Survey Field Work	3
Sample Site Control	3
Rock Sample Collection	3
Packaging	4
Sample Preparation	4
Analysis	4
Interpretation	5
STATEMENT OF COSTS INCURRED	7
DISTRIBUTION OF WORK	8

LIST OF ILLUSTRATIONS

#1	Location Map	1 : 250,000
#2	Plate No. 1    Rock Sample Sites	1" = 200'
#3	Plate No. 2    Au in Rock	"
#4	Plate No. 3    Ag in Rock	"
#5	Plate No. 4    Cu in Rock	"
#6	Plate No. 5    Mo in Rock	"
#7	Plate No. 6    Zn in Rock	"
#8	Plate No. 7    Pb in Rock	"
#9	Plate No. 8    Ni in Rock	"
#10	Plate No. 9    Co in Rock	"





Kennco Explorations (Western) Ltd.

Lawyers Group No. 5

Situated 25 Miles Northwest of Thutade Lake

Omineca M. D., B. C.

57° 18' N 127° 10' W

Scale: 1 : 250,000

Location Map

**M-1**  
**3841**

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3841 #1

1-M

3841

INTRODUCTION

The mineral property discussed in this report is situated at 57°18'N, 127°10'W, about 25 miles northwest of Thutade Lake, British Columbia. The exploration work on these claims consisted of a rock geochemical survey.

The field work was conducted by a crew under the direct supervision of M.R. Hegge, B.Sc., P.Geol. (Alta.). Sampling personnel are listed under 'Statement of Costs Incurred'. The work was done as part of an exploration program under the overall supervision of K.A. Grace, P.Eng.

LOCATION AND ACCESS

The property is situated at Latitude  $57^{\circ}18'N$ , Longitude  $127^{\circ}10'W$ , about 180 miles due north of Smithers. This is about 25 miles northwest of Thutade Lake. The survey area is located about 5500' 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 five-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 200-foot intervals in east-west and north-south directions. A base map with a scale of 1" = 200' was compiled for use in plotting the sample results.

All work was performed on Lawyers No. 24, 26, 45-50 mineral claims.

Rock Sample Collection

The samples were taken at 200-foot intervals along the grid lines or from outcrops within a 25-50' radius of the proposed sample centre if no outcrop existed at that point. Bedrock 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.

Silver values in rock appear to coincide with fracture zones which trend northwest; mineralization is strongest where these structures intersect cross-cutting fracture systems. Silicification is strong, as seen by the ample quartz float, and consists mainly of quartz veins ranging in width from 1/8" to 24" - locally, to form parallel stockworks up to 50' wide. Sulfide mineralization, however, is weak and is comprised of only local patches and pods of disseminated pyrite (~ 0.5% by volume) in the quartz veins, within these pyritic zones, some dark grey streaks are assumed to host the Ag mineralization.


Gold correlates well with silver values. 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.

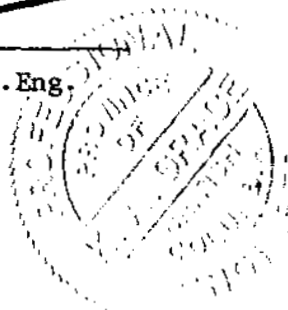
Other elements occur in concentrations that are only weakly anomalous, or not at all.

Results of the geochemical survey, indicate that detailed work should be conducted where anomalous zones of Ag-in-rock occur. These zones should be rock-sampled at closely spaced intervals with subsequent cat-trenching or diamond drilling conducted in areas of favourable results. Detailed geologic mapping is also required.

Vancouver, B. C.

September 26, 1972

  
K. A. Grace, P.Eng.





STATEMENT OF COSTS INCURRED

Geochemical Rock Sampling

Lawyers No. 5 Group

Time: 7 days - July 23, 25-28, 30-31, 1972

Samplers: R.S. Lopaschuk, C.P. Archibald

No. of Samples: 211 (on 200' centres)

Helicopter Time/Day: (8-mile round trip x 2 trips/day)

7 days x 25 min./day x (\$130/hr + \$48/hr for fuel  
(\$3/gal at camp)) =  $(7) \frac{(25)}{60} (178)$  \$ 519.16

Room & Board: 14 mandays x 16.50/day 231.00

Wages: (\$550/mo. for 25 mandays = \$21/day)

14 mandays x \$21/day 294.00

Analyses: (6 elements)

211 x \$4.50 949.00

Supervision & Interpretation & Reporting (Geologist)


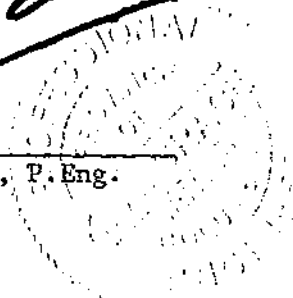
2 mandays x \$56.50/day (includes support) 113.00

Drafting & Typing:

100.00

Total \$2,206.66

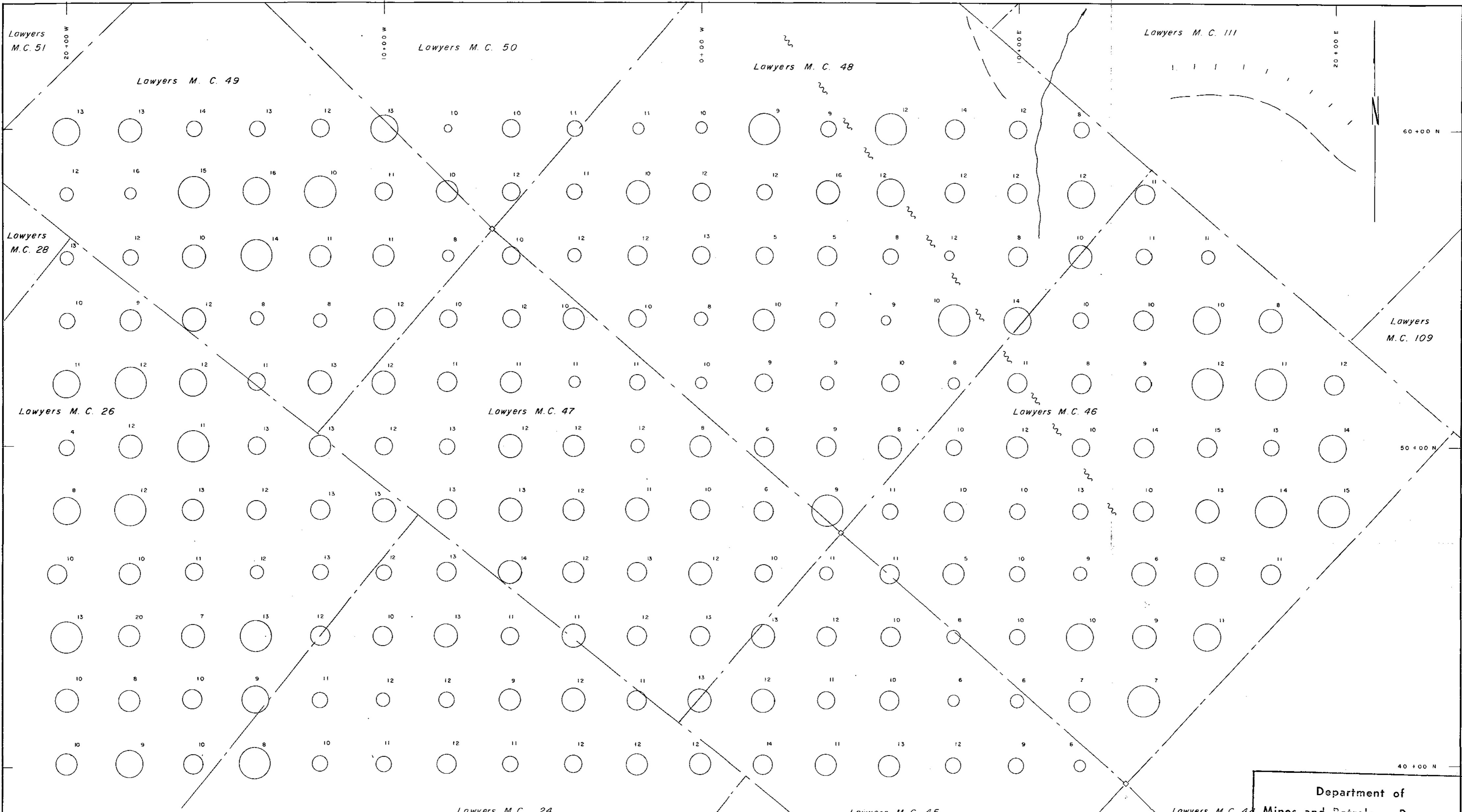
$$\frac{2206.66}{211} = \$10.46/\text{sample}$$

  
  
K. A. Grace, P. Eng.

DISTRIBUTION OF WORK

Lawyers No. 5 Group

<u>Claim No.</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Years of Work To Be Applied</u>
Lawyers 10	84343	February 11	1
Lawyers 12	84345	"	1
Lawyers 17	84350	"	1
Lawyers 18	84351	"	1
Lawyers 22	84355	"	1
Lawyers 24	84357	"	1
Lawyers 25	84358	"	1
Lawyers 26	84359	"	1
Lawyers 27	84360	"	1
Lawyers 28	84361	"	1
Lawyers 29	84362	"	1
Lawyers 30	84363	"	1
Lawyers 45	89966	August 7	1
Lawyers 46	89967	"	1
Lawyers 47	89968	"	1
Lawyers 48	89969	"	1
Lawyers 49	89970	"	1
Lawyers 50	89971	"	1
Lawyers 51	89972	"	1
Lawyers 52	89973	"	1
Lawyers 53	89974	"	1
Lawyers 54	89975	"	1



**LEGEND**

- S17403 Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
- Claim post & line
- Airphoto indicated lineament
- Anomalous
- Weakly anomalous

Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
NO. **3841** MAP # **10**

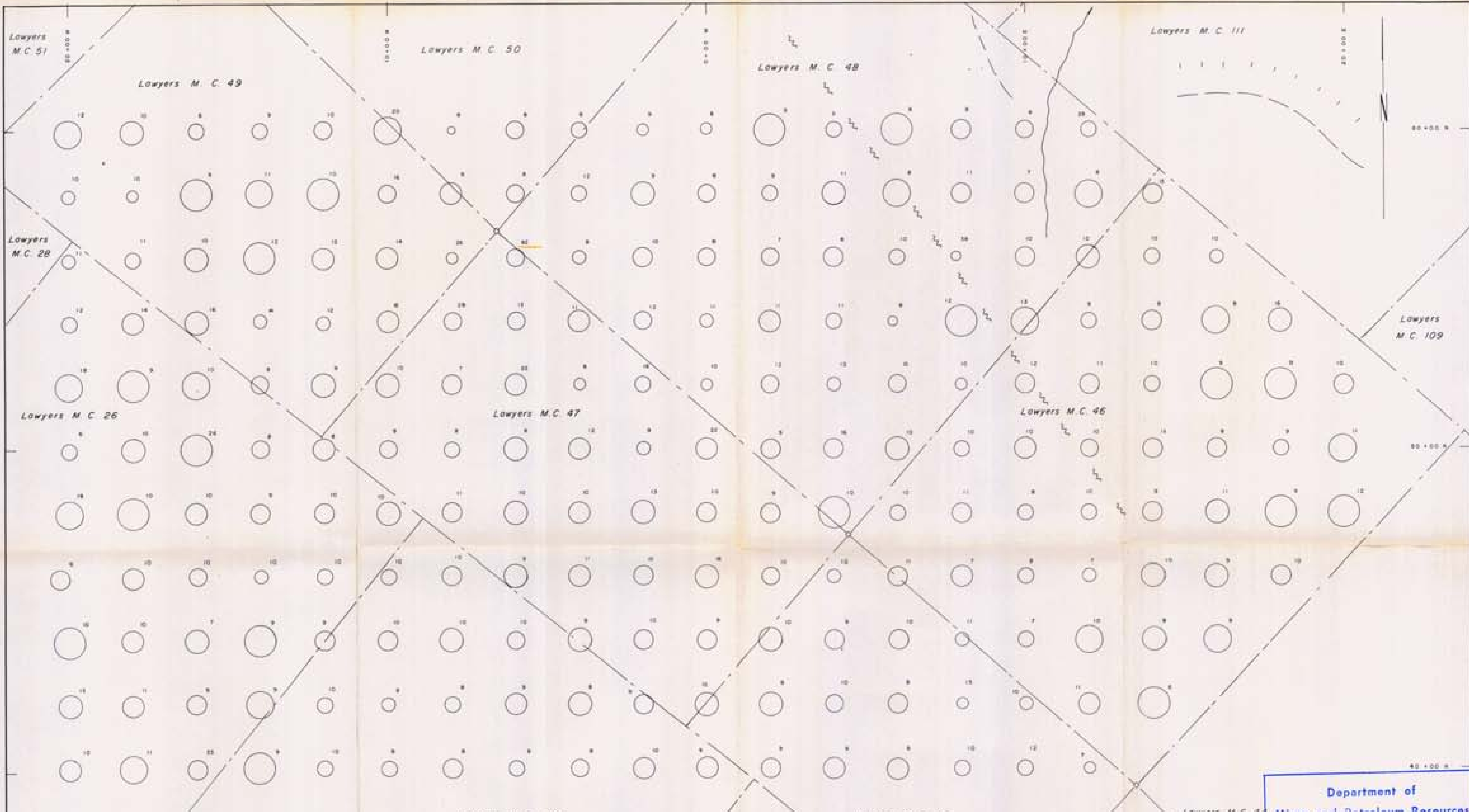
**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 5 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. 5 Group,  
25 miles northwest of Thutade Lake, Omineca M.D., B.C. Dated Sept. 26, 1972.

*[Handwritten signature]*

DATA BY: M.R.H.	N.T.S. 94 - E	PL. NO.: 9
DRAWN BY: M.R.H.	DATE: 29/8/72	SCALE: 1" = 200'
TRACED BY:	DATE:	
REVISIONS:	FILE NO.	



**LEGEND**

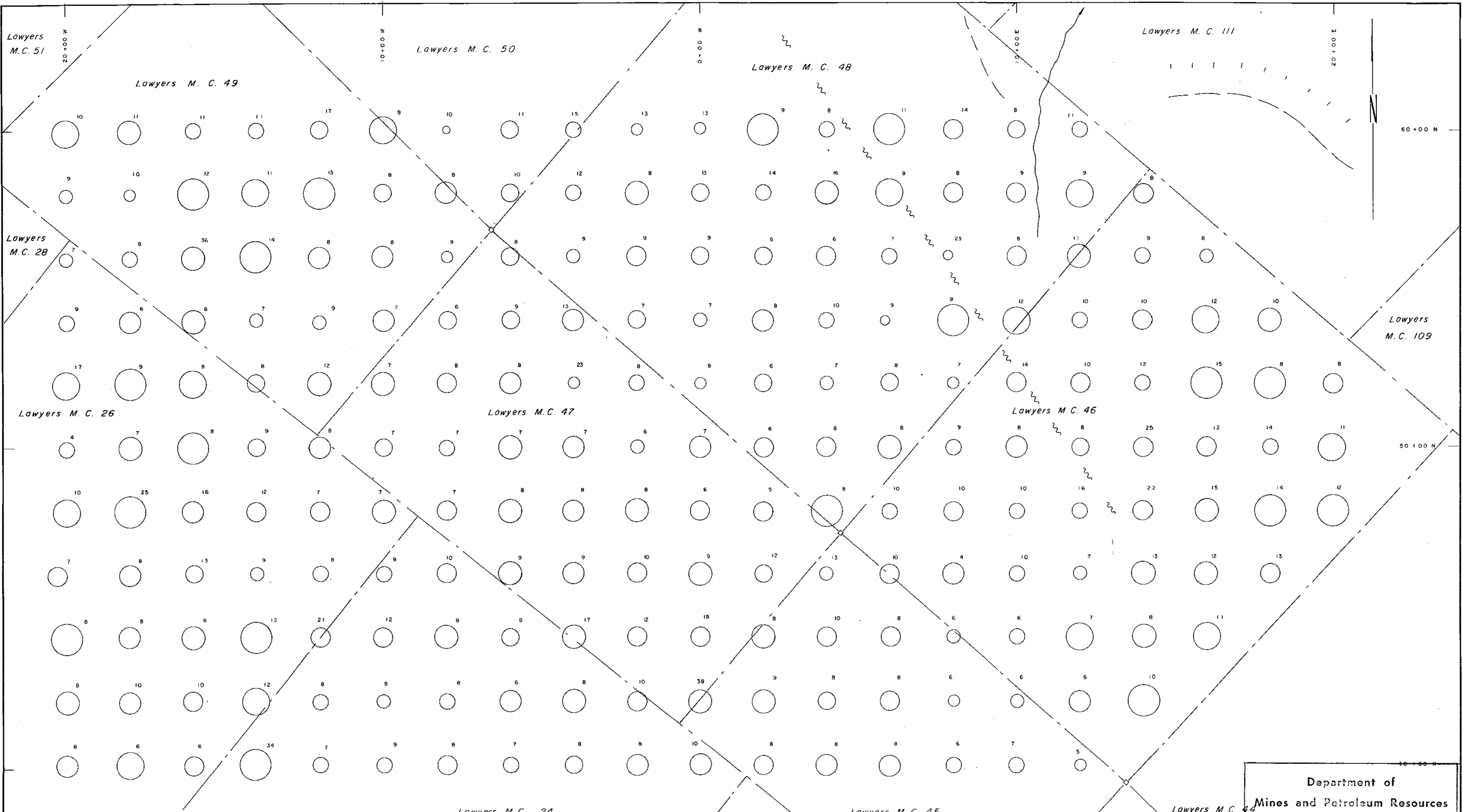
- 
 Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
- 
 Claim post & line
- 
 Airphoto indicated lineament
- 
 Anomalous
- 
 Weakly anomalous

To accompany Rock Geochemical Survey Report by K. A. Gross, P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Thutade Lake, Omineca M.D., B.C. Dated Sept 26, 1972






*[Handwritten signature]*

Department of  
 Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
 NO. **3841** MAP **#8**

<b>KENCO EXPLORATIONS (WESTERN) LIMITED</b>			
Lawyers No. 5 Group Omineca M.D., B.C. <b>Geochemical Rock Sampling</b> <b>Lead in Rock</b>			
DATA BY: M. R. H.	N.T.S. 94 - E	PL. NO. 7	
DRAWN BY: M. R. H.	DATE: 29/9/72	SCALE:	
TRACED BY:	DATE:		1" = 200'
REVISIONS:		FILE NO.	



**LEGEND**

- 
 S 17403  
 Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
- 
 Claim post & line
- 
 Airphoto indicated lineament
- 
 Anomalous
- 
 Weakly anomalous

Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
NO. **3841** MAP. **#9**

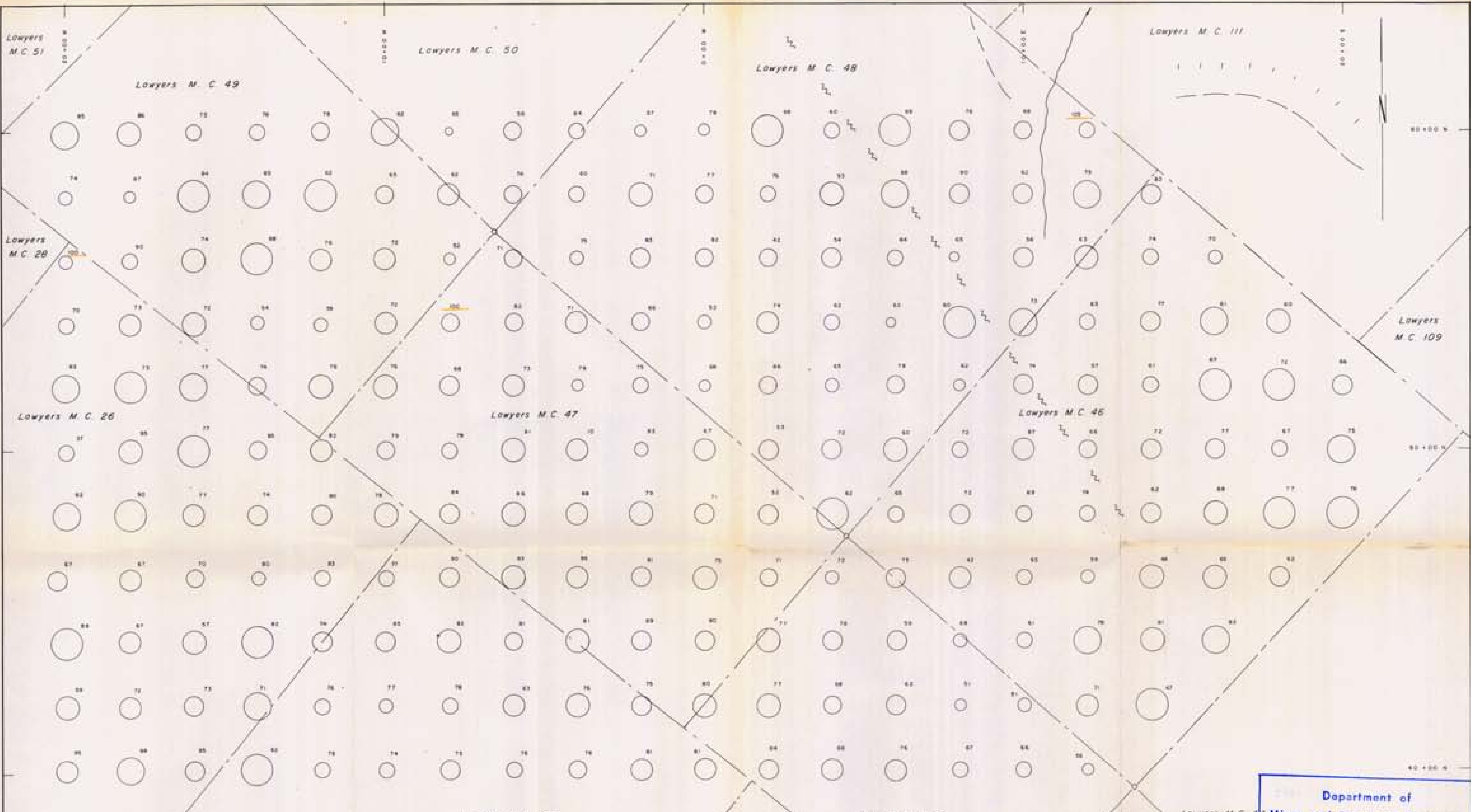
**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 5 Group  
Omineca M. D., B. C.  
**Geochemical Rock Sampling**  
**Nickel in Rock**






DATA BY: M. R. H.		N.T.S. 94 - E	PL. NO.: 8
DRAWN BY: M. R. H.	DATE: 29/8/72	SCALE: 1" = 200'	
TRACED BY:	DATE:		
REVISIONS:	FILE NO.		

To accompany Rock Geochemical Survey Report by K. A. Grace P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Thutade Lake, Omineca M.D., B.C. Dated Sept. 26, 1972.





**LEGEND**

-  017403  
Approximate area surrounding grid centre from which rock sample was obtained (outcrop or frost-heaved material where possible, otherwise float)
-  Claim post & line
-  Airphoto indicated lineament
-  Anomalous
-  Weakly anomalous

To accompany Rock Geochemical Survey Report by K.A. Grace P. Eng. on Lawyers No. 5 Group, 25 miles northwest of Tholade Lake, Okinco M.D., B.C. Dated Sept. 26, 1972

Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
NO. **3841** **#7**

**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 5 Group  
Okinco M.D., B.C.  
**Geochemical Rock Sampling**  
**Zinc in Rock**

DATA BY: M.R.H.	N.T.S. 94 - E	PL. NO. 5
DRAWN BY: M.R.H.	DATE: 29/9/72	SCALE: 1" = 200'
TRACED BY:	DATE:	
REVISIONS:	FILE NO.	