

# 3315

KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT

ON

SILT GEOCHEMICAL SURVEY

LAWYERS NO. 2,3,4 GROUPS

(Lawyers Mineral Claims 2,7-10,19-20,31-44,55-66,  
87-97,99,105-116,118,125-140,145-174,177,178 Fr,179 Fr)

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **3315** MAP.....

Situated 20 miles northwest of Thutade Lake,  
Omineca Mining Division,  
British Columbia

57°19'N; 127°13'W

94 E / 6 E

By

R. W. Stevenson, P. Eng.

Work done June 14 to July 19, 1971

Mining Recorder's Office  
RECORDED  
OCT 27 1971  
AT.....  
SMITHERS, B.C.

October 25, 1971

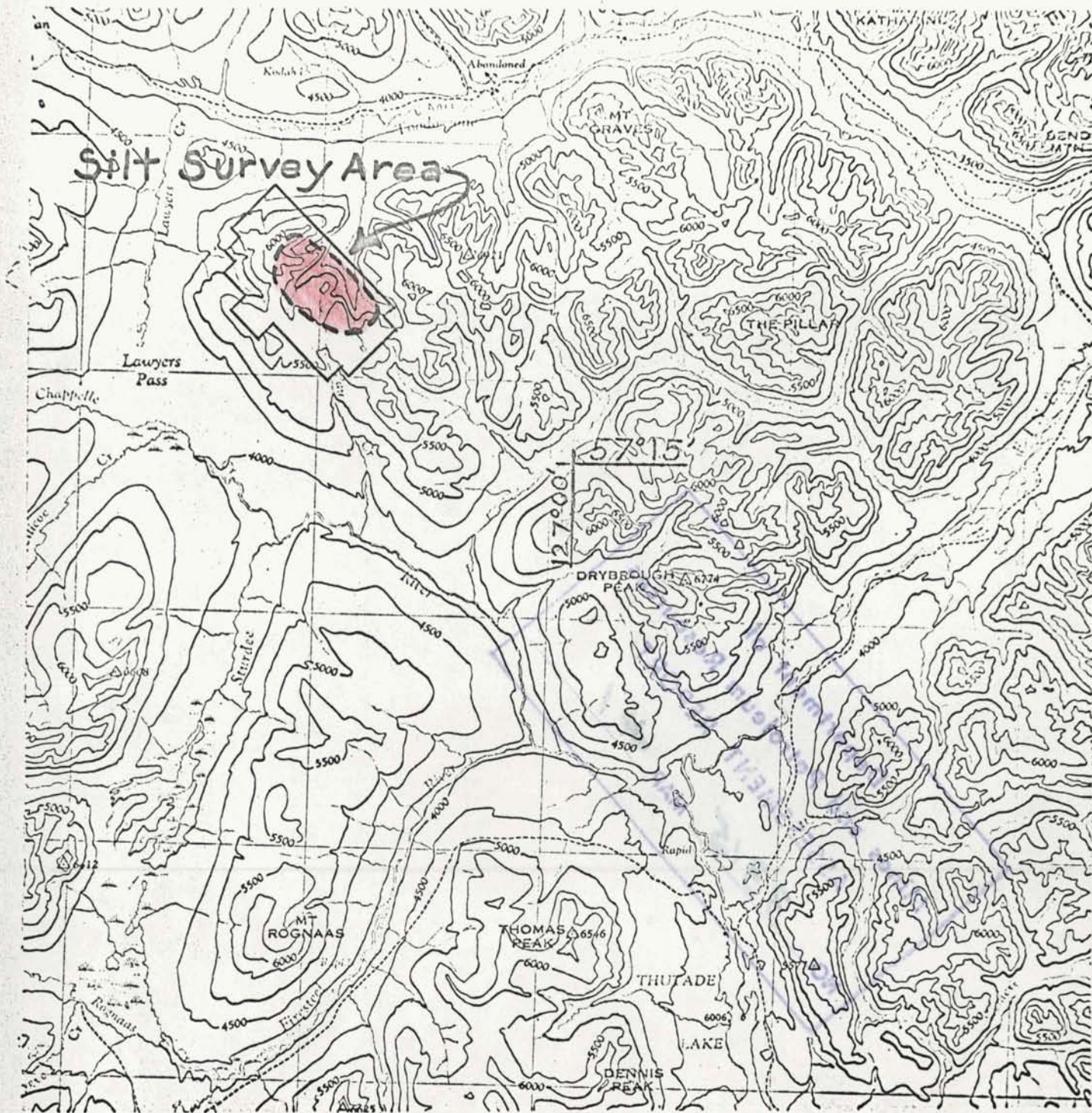
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Kennco Explorations, (Western) Limited

LAWYERS CLAIMS

Situated 20 miles northwest of Thutade Lake

Omineca Mining Division  
British Columbia

57° 127° SE

LOCATION MAP

*R. St. Stevens*

Scale:  
1 : 250,000

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 silt geochemical survey. It was done between June 14 and July 19, 1971, and was applied on claims having a record date of November 4.

The personnel employed are listed in the 'Statement of Costs'. The work was done under the supervision of R.W. Stevenson, P. Eng.



LOCATION AND ACCESS

The property is situated at Latitude  $57^{\circ}19'N$ , Longitude  $127^{\circ}13'W$ , about 290 miles northwest of Prince George. This is about 20 miles northwest of Thutade Lake. The survey area is about 4200' to 6000' above sea level. Most of the area is above tree-line, and is grass-covered; but alpine fir grows in some of the valleys.

Access to the property is by fixed-wing aircraft from Smithers to Black Lake, a distance of about 180 miles, and by helicopter from there. Local travel on the Lawyers property is fairly easy, except for the difference in elevation between the lower parts of the streams, and their sources. Helicopter set-outs were used so as to minimize the travel time to the wide-spread survey locations.

SILT GEOCHEMICAL SURVEY

Silt Survey Field Work

Sample Site Control

Sample sites were plotted in the field, on a topographic map having a scale of 1" = 2640'. These maps were obtained by enlarging portions of the 1:250,000 topographic map. Each sampling traverse was started from a point which could be identified easily on the topographic map. Sample site locations were plotted by pace and compass until another easily identifiable checkpoint was reached. Crews were set out by helicopter on the traverses that were remote from camp so as to utilize as much as possible of the working day in sample collection. A drainage base map with a scale of 1" = 2640' was compiled for use in plotting the sample results for office interpretation.

Silt Sample Collection

In general, the samples were taken at 800-foot intervals on the main streams, depending on where suitable silt could be found. More detail was added in areas containing numerous small streams or seepages.

Samples were taken from "active" material; that is, under flowing water, either in streams or seepages. The samples were taken with a shovel. Fine-grained silt was selected. Care was taken to avoid high organic material, and well washed clay.

The sample site and number were then plotted on the field map. A note was made of the sample number; the width, depth, and speed of flow of the stream; the type of sediment sampled; and any peculiarities of nearby drainage, such as above or below a pond or swamp.

### Packaging

The samples were placed in 3" x 4 1/2" brown paper envelopes on which the sample numbers had been marked. These were closed with a triangular triple fold. (The bags are not anomalous in trace metals).

### Sample Preparation

The samples were taken to base camp, and partly air-dried. The samples were then shipped to our laboratory in North Vancouver, where they were oven-dried at 80°C and sieved through an 80-mesh size stainless steel screen. (These sieves do not show noticeable wear even after several thousand samples have been sifted.) The minus 80 mesh fraction was collected for all the analyses involved.

### 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 concentrated 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 gold 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-keytone). This is aspirated in the Techtron AA5.

### Interpretation

The purpose of the silt survey was to explore the potential of the property prior to doing the soil survey. The configuration of streams and seepages made this a practicable goal. The results are plotted on Plates 1 to 9.


Sample stations that are considered to be background are uncoloured. Sample stations that are considered to be only weakly anomalous are coloured yellow; those that are anomalous are coloured red. The weakly anomalous levels vary somewhat with the size of the stream and the drainage area. For example, a value of 300 ppm Cu would be only weakly anomalous in a small seepage, but would be definitely anomalous in a large stream.

Copper, molybdenum, lead, and nickel are not anomalous. Zinc, and cobalt are not anomalous, except for one site that is also anomalous in gold.

Silver forms a well defined, strong anomaly about the source of the most northerly stream sampled. Several seepages on other streams are weakly anomalous. Only a few sites are anomalous in gold, but several of these are strongly anomalous. Only one of them is co-anomalous in silver. Sample no. S5692, near the north apex of Lawyers No. 4 Group is co-anomalous in gold, cobalt, and zinc; although the latter two elements are only weakly anomalous.

Vancouver, B. C.

October 25, 1971

  
R. W. Stevenson, P. Eng.



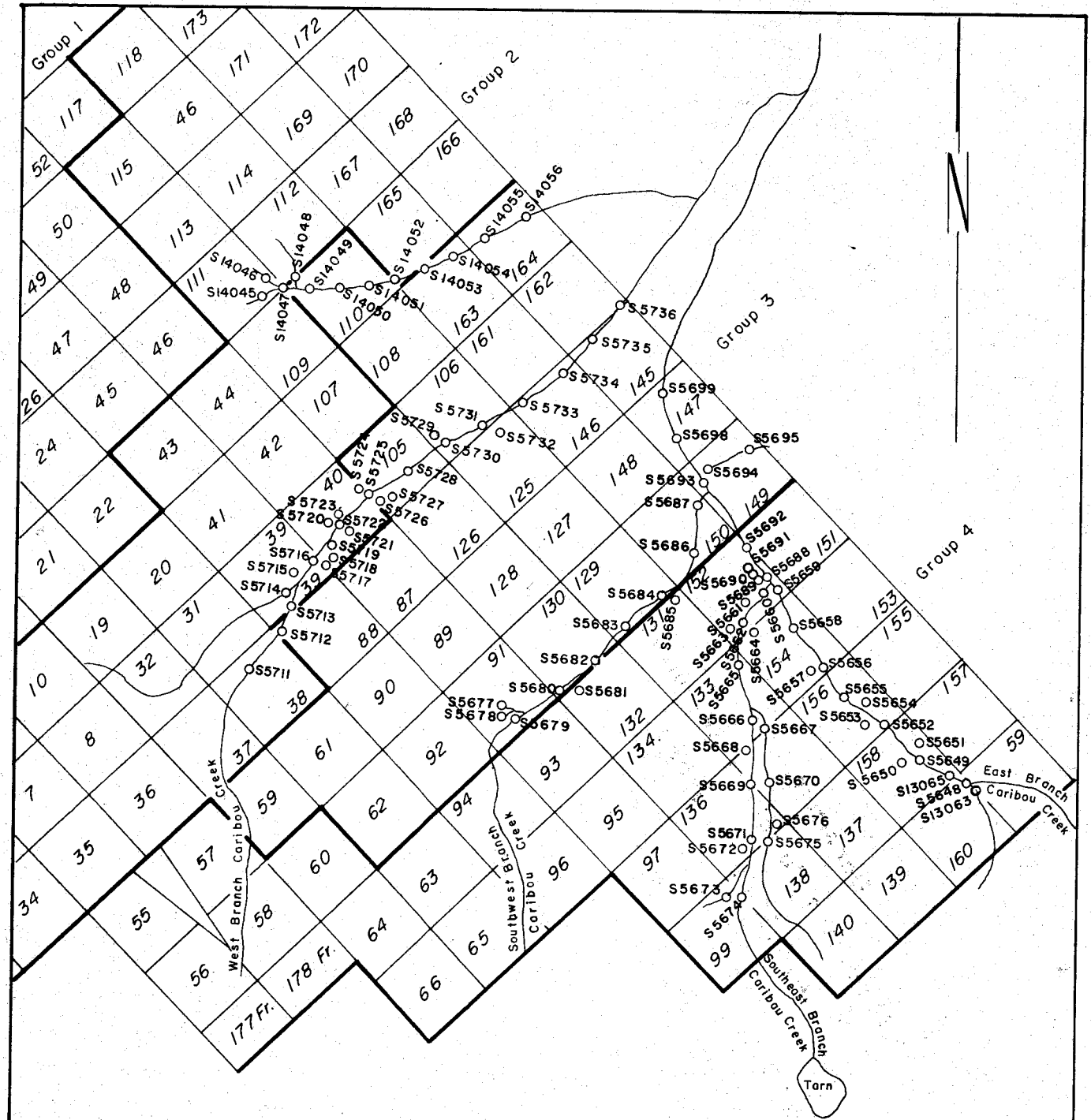
STATEMENT OF COSTS

The costs incurred on assessment work on the  
Lawyers No. 2,3,4 Groups of mineral claims were as follows:

Silt Geochemical Survey

Analysis of 90 silt samples for Cu,Mo,Zn,Pb,Ag,Au,Co,Ni		\$ 495.00
Wages & Board:		
S.C. Gower	June 14,16;July 19 @ \$35.00 + \$10.00	135.00
E.A. Black	June 14,16,17 @ \$21.00 + \$10.00	93.00
R.S. Lopaschuk	July 19 @ \$17.00 + \$10.00	27.00
M.J. Steven	June 14,16,17 @ \$19.00 + \$10.00	87.00
Helicopter set-outs on the property; 2:40 hrs @ \$175/hr		466.00
Drafting and typing		<u>60.00</u>
	Total =	\$1,363.00

Amount spent on Group 2	=	\$ 224.00
Amount spent on Group 3	=	\$ 622.00
Amount spent on Group 4	=	<u>\$ 517.00</u>
		\$1,363.00



**LEGEND**

○ Silt Sample

*R. S. Stevenson*

**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 2, 3 & 4 Groups

Omineca M.D., B.C.

Silt Geochemical Survey

Silt Sample Sites

DATA BY: S.C.G.

N.T.S. 94 - E PL. NO.: 1

DRAWN BY:

DATE:

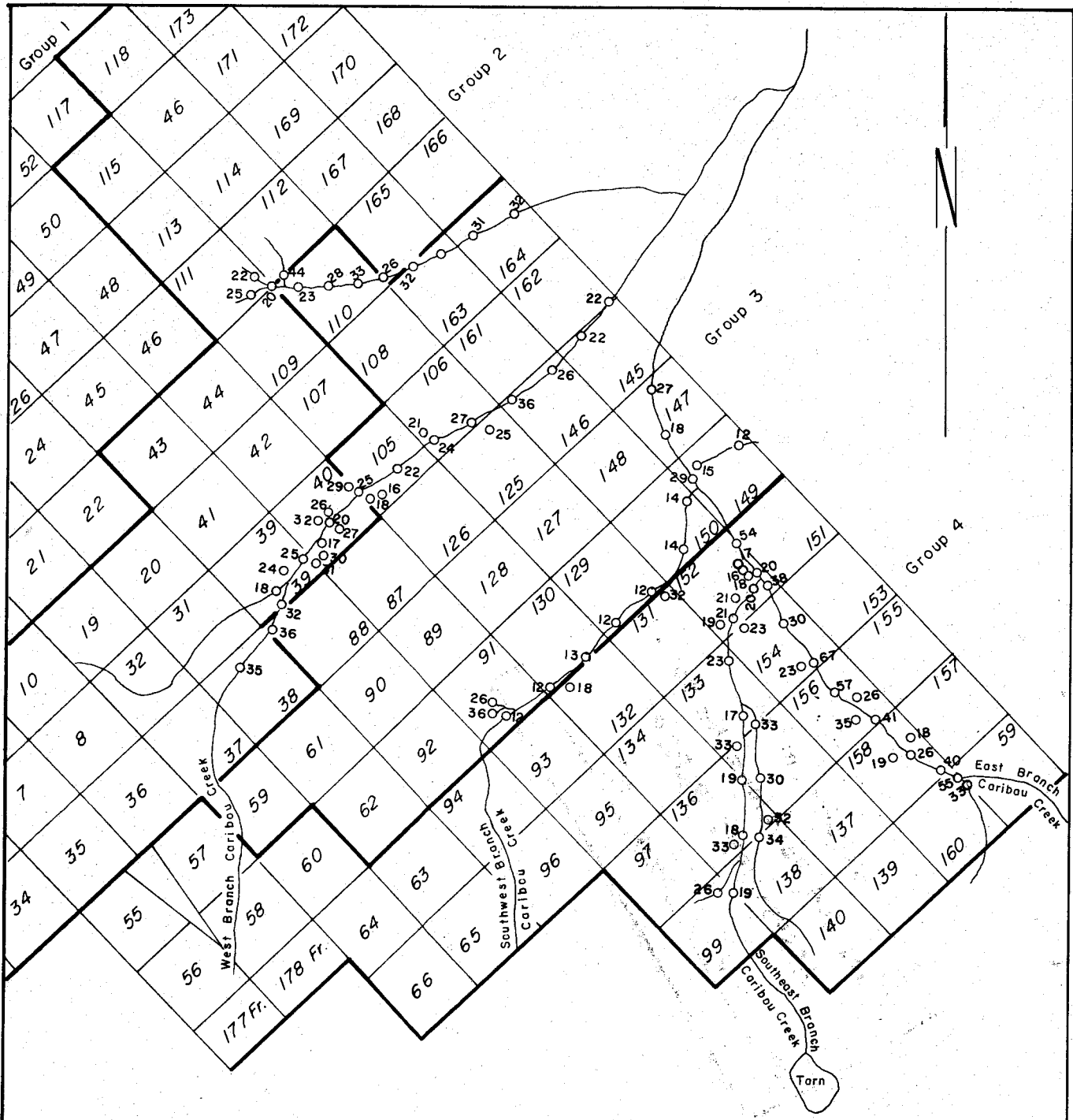
SCALE: 1" = 2640'

TRACED BY: J.Q.L.

DATE: 5/10/71

REVISIONS: P.N.S.Y.

FILE NO.



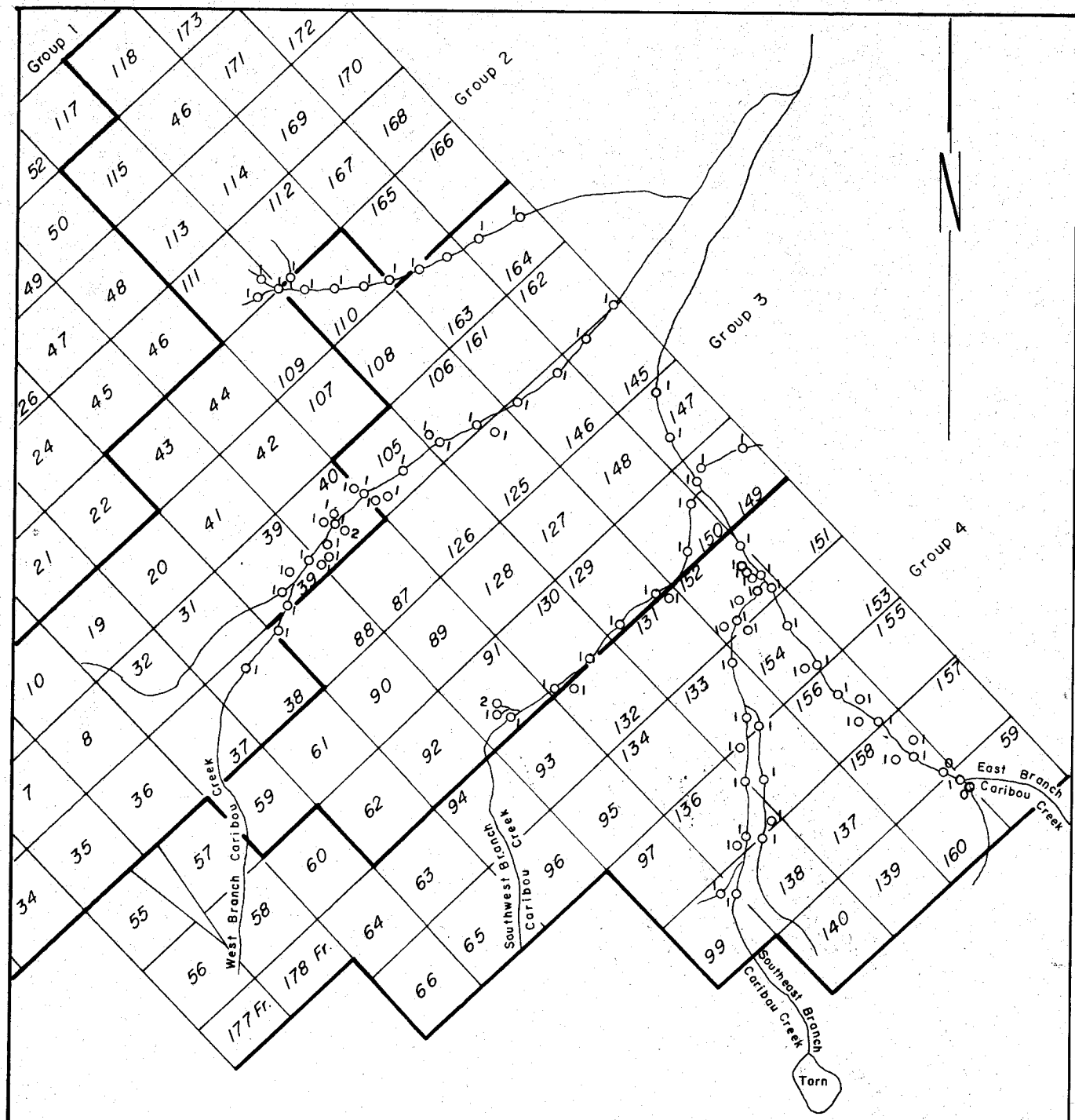
**LEGEND**

- Silt Sample
- Anomalous
- Weakly Anomalous

*R. H. Stevenson*

All Metal Values in P. P. M.

<b>KENCO EXPLORATIONS (WESTERN) LIMITED</b>			
Lawyers No. 2, 3 & 4 Groups			
Omineca M.D., B.C.			
Silt Geochemical Survey			
Copper in Silt			
DATA BY: S. C. G.	M.T.S. 94 - E	PL. NO. 2	
DRAWN BY:	DATE:	SCALE: 1" = 2640'	
TRACED BY: J. Q. L.	DATE: 5/10/71		
REVISIONS: P.N.S.Y.	FILE NO.		



**LEGEND**

- Silt Sample
- Anomalous
- Weakly Anomalous

*R. S. Steiner*

All Metal Values in P. P. M.

**KENCO EXPLORATIONS (WESTERN) LIMITED**

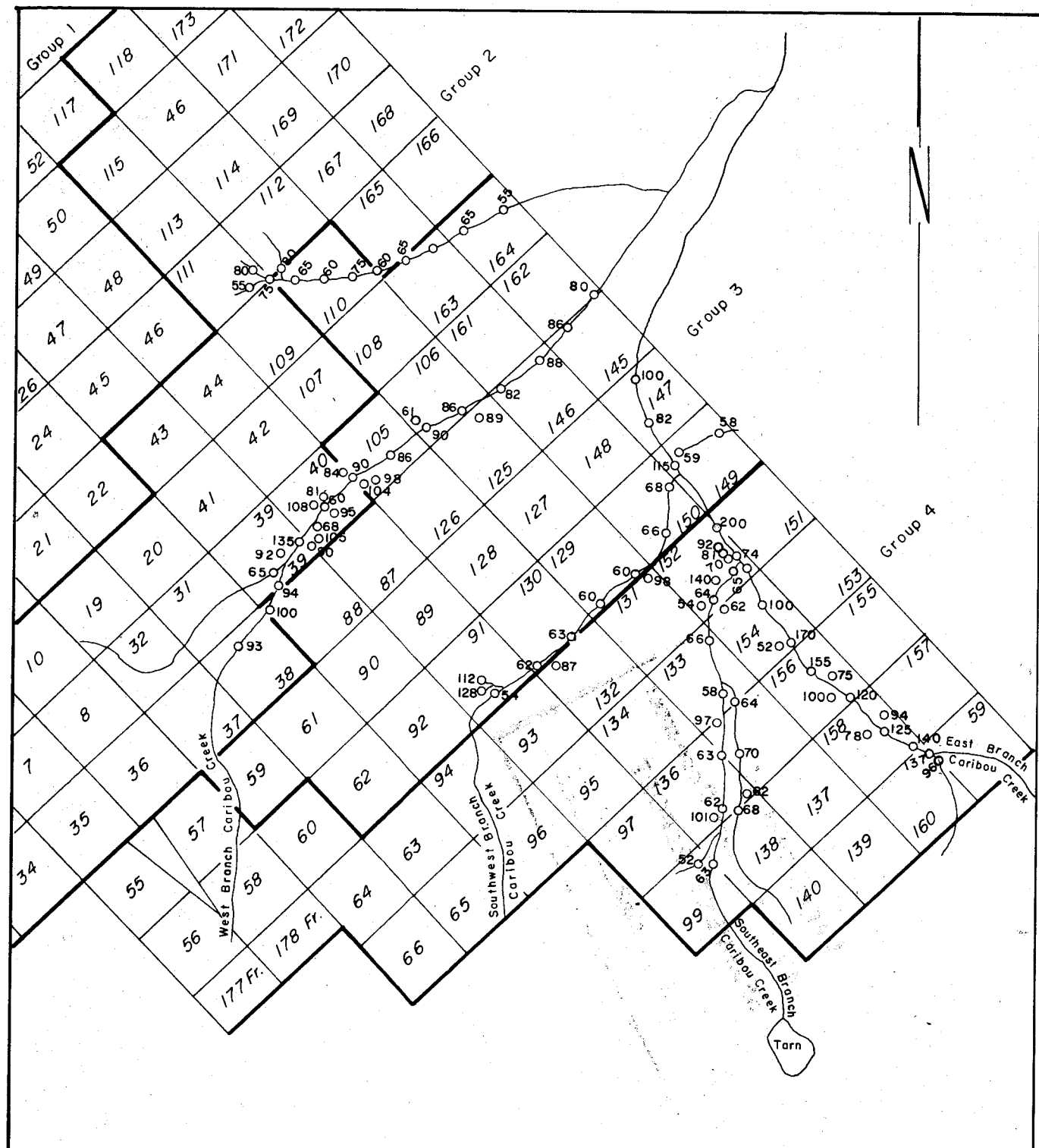
Lawyers No. 2, 3 & 4 Groups

Omineca M. D., B. C.

Silt Geochemical Survey

Molybdenum in Silt

DATA BY: S. C. G.	N.T.S. 94 - E	PL. NO. 3
DRAWN BY:	DATE:	SCALE: 1" = 2640'
TRACED BY: J. Q. L.	DATE: 5/10/71	
REVISIONS: P. N. S. Y.	FILE NO.	



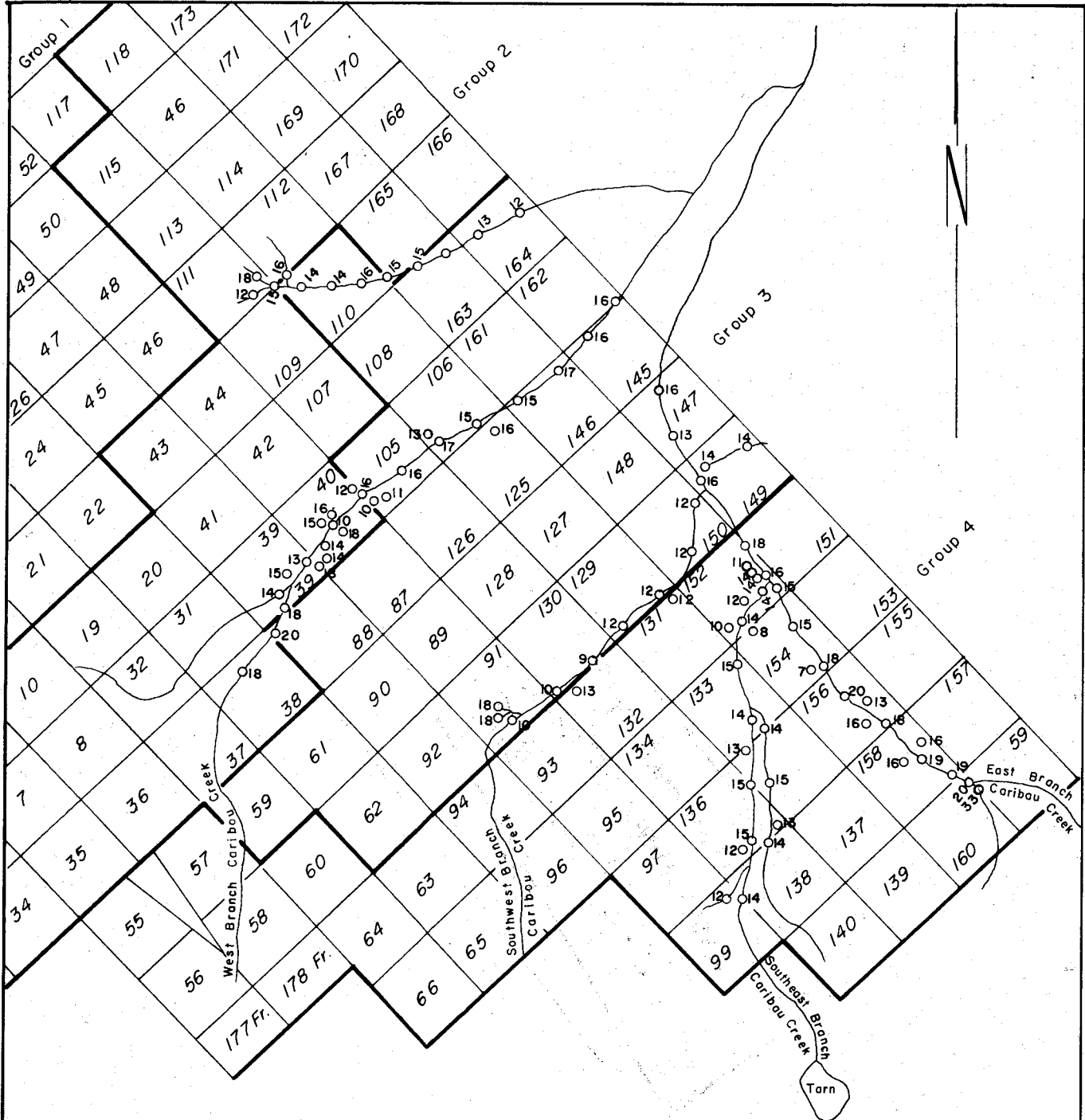
**LEGEND**

- Silt Sample
- Anomalous
- Weakly Anomalous

*R. H. Stevens*

All Metal Values in P. P. M.

<b>KENCO EXPLORATIONS (WESTERN) LIMITED</b>		
Lawyers No. 2, 3 & 4 Groups		
Omineca M. D., B. C.		
Silt Geochemical Survey		
Zinc in Silt		
DATA BY: S. C. G.	N.T.S. 94 - E	PL. NO. 4
DRAWN BY:	DATE:	SCALE: 1" = 2640'
TRACED BY: J. Q. L.	DATE: 5/10/71	
REVISIONS: P. N. S. Y.	FILE NO	



**LEGEND**

- Silt Sample
- Anomalous
- Weakly Anomalous

*R. H. Stevenson*

All Metal Values in P. P. M.

**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 2, 3 & 4 Groups

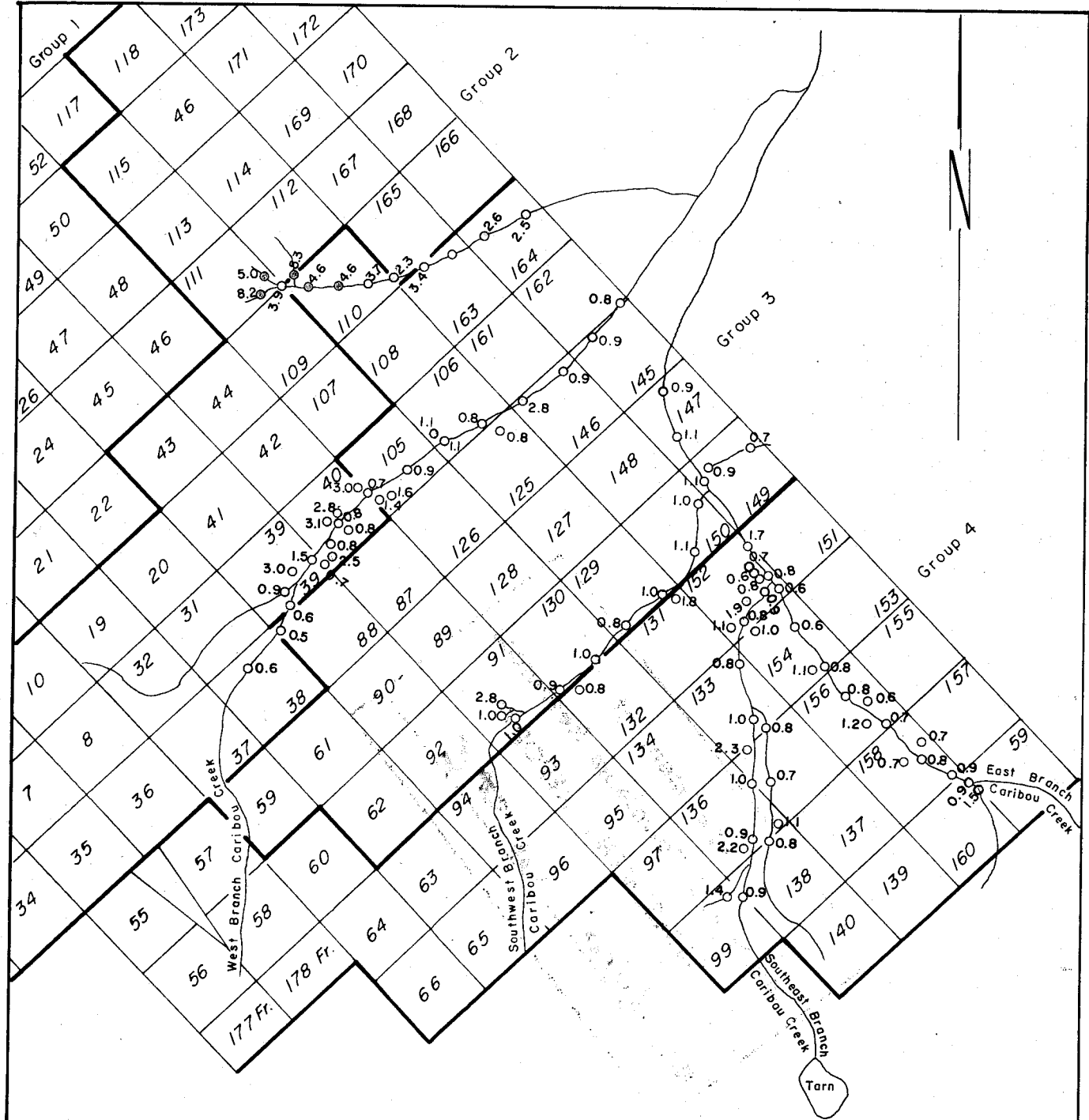
Omineca M.D., B. C.

Silt Geochemical Survey

Lead in Silt

DATA BY: S. C. G.		N.T.S. 94 - E	PL. NO. 5
DRAWN BY:	DATE:	SCALE: 1" = 2640'	
TRACED BY: J. Q. L.	DATE: 5/10/71		
REVISIONS: P. N. S. Y.		FILE NO.	





**LEGEND**

- Silt Sample
- ⊗ Anomalous
- Weakly Anomalous

*R. H. Stevenson*

All Metal Values in P. P. M.

**KENCO EXPLORATIONS (WESTERN) LIMITED**

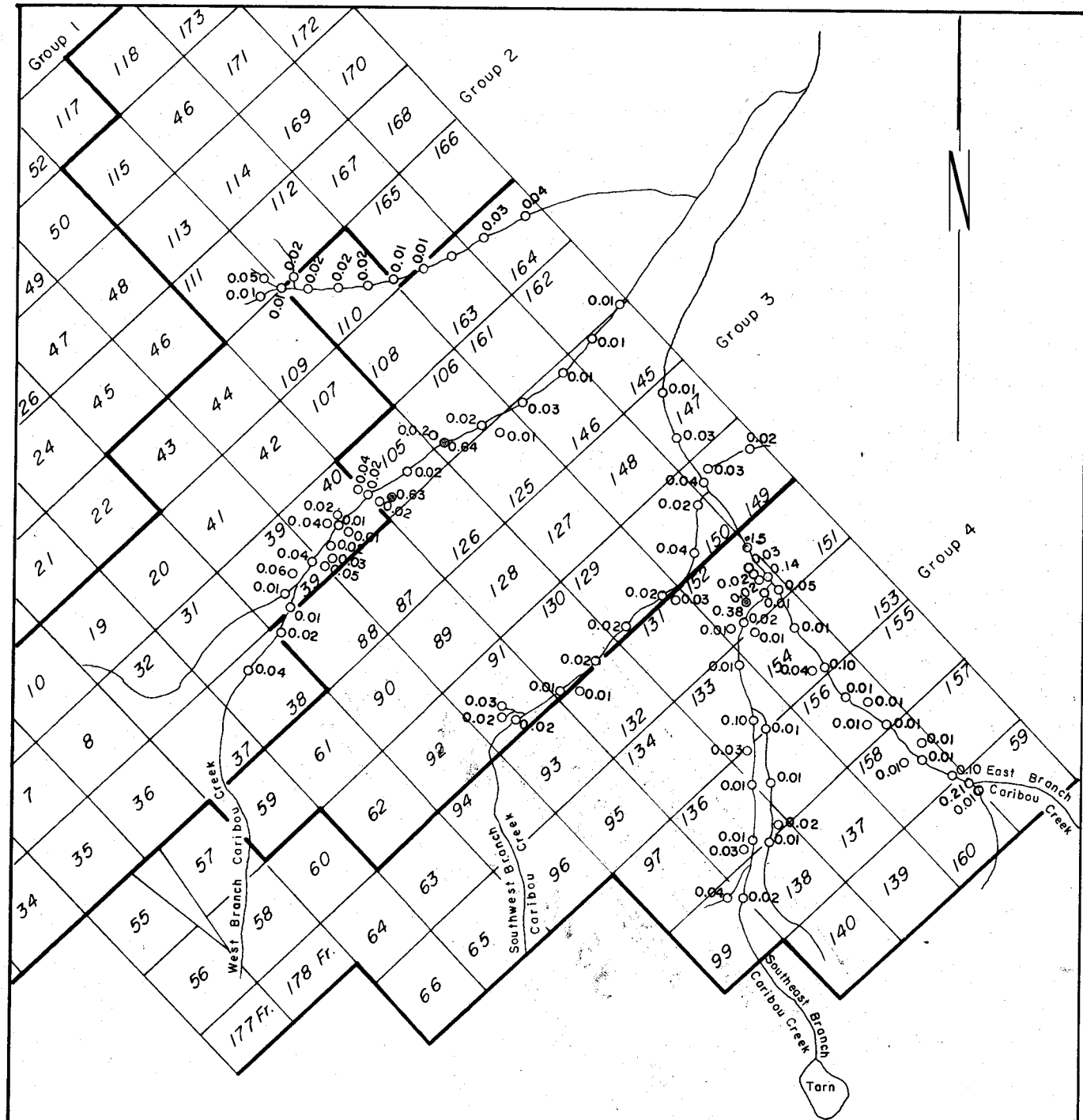
Lawyers No. 2, 3 & 4 Groups

Omineca M. D., B. C.

Silt Geochemical Survey

Silver in Silt

DATA BY: S. C. G.		N.T.S. 94 - E	PL. NO.: 6
DRAWN BY:	DATE:	SCALE: 1" = 2640'	
TRACED BY: J. Q. L.	DATE: 5/10/71		
REVISIONS: P. N. S. Y.	FILE NO.		



**LEGEND**

- Silt Sample
- Anomalous
- Weakly Anomalous

*R. S. Stevenson*

All Metal Values in P. P. M.

**KENCO EXPLORATIONS (WESTERN) LIMITED**

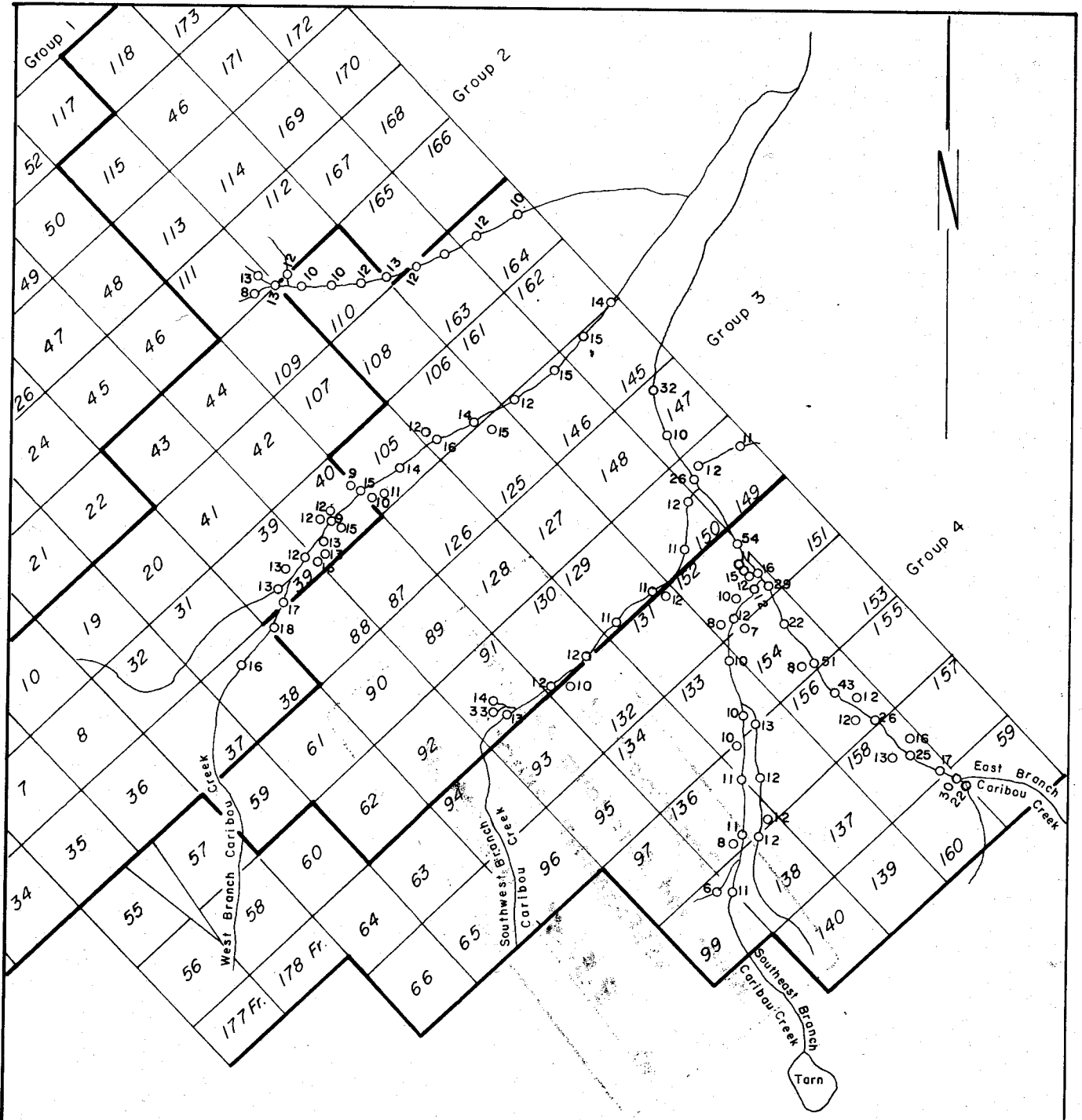
Lawyers No. 2, 3 & 4 Groups

Omineca M.D., B.C.

Silt Geochemical Survey

Gold in Silt

DATA BY: S.C.G.		N.T.S. 94 - E	PL. NO. 7
DRAWN BY:	DATE:	SCALE: 1" = 2640'	
TRACED BY: J.Q.L.	DATE: 5/10/71		
REVISIONS: P.N.S.Y.	FILE NO.		



**LEGEND**

- Silt Sample
- Anomalous
- Weakly Anomalous

*R. S. Stevenson*

All Metal Values in P. P. M.

**KENCO EXPLORATIONS (WESTERN) LIMITED**

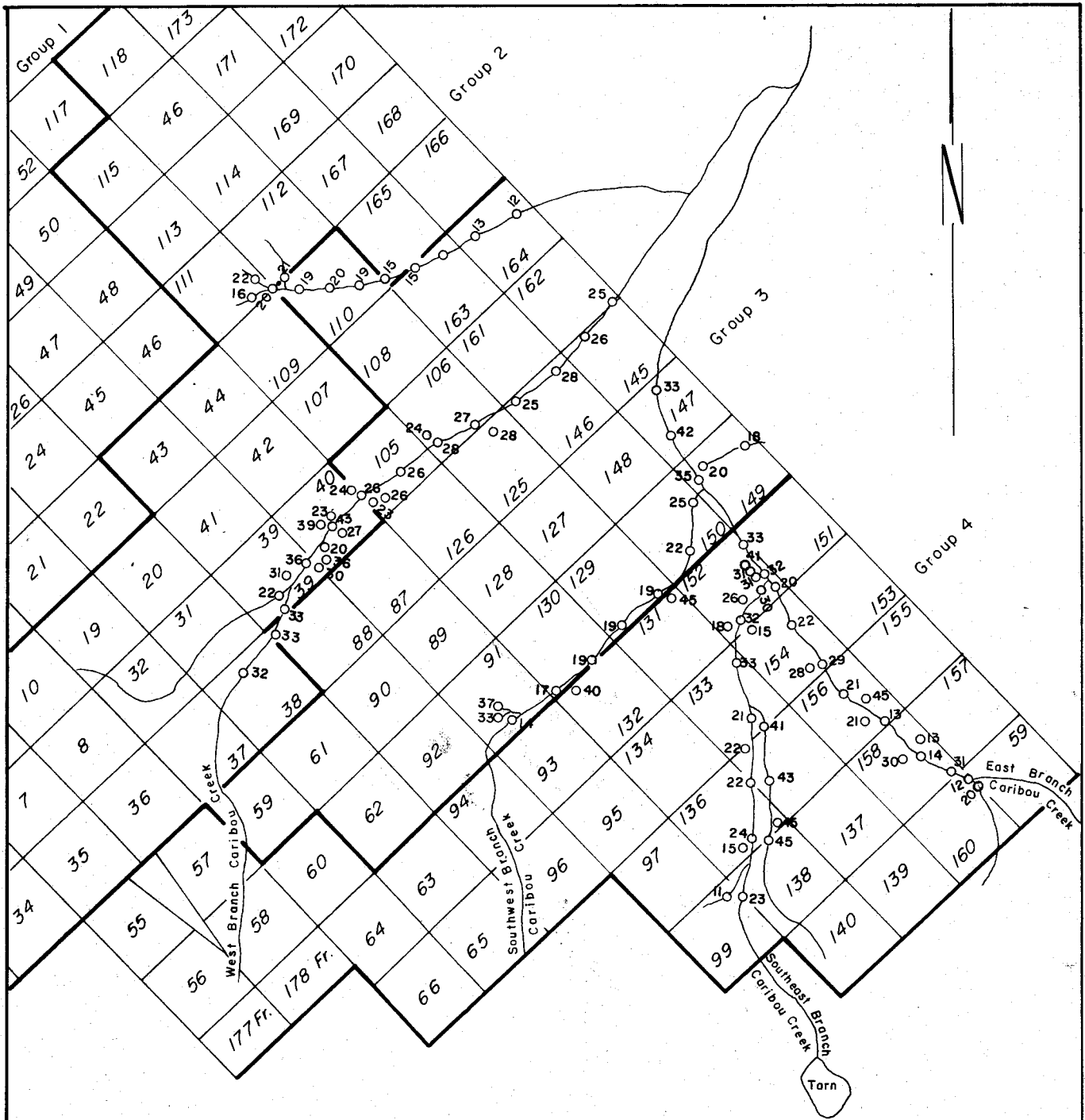
Lawyers No. 2, 3 & 4 Groups

Omineca M.D., B.C.

Silt Geochemical Survey

Cobalt in Silt

DATA BY: S. C. G.		N.T.S. 94 - E	PL. NO.: 8
DRAWN BY:	DATE:	SCALE: 1" = 2640'	
TRACED BY: J. Q. L.	DATE: 5/10/71		
REVISIONS: P. N. S. Y.		FILE NO.	



**LEGEND**

- Silt Sample
- Anomalous
- Weakly Anomalous

*R. H. Stevenson*

All Metal Values in P. P. M.

**KENCO EXPLORATIONS (WESTERN) LIMITED**

Lawyers No. 2, 3 & 4 Groups  
 Omineca M.D., B.C.  
 Silt Geochemical Survey  
 Nickel in Silt

DATA BY: S.C.G.		M.T.S. 94 - E	PL. NO.: 9
DRAWN BY:	DATE:	SCALE: 1" = 2640'	
TRACED BY: J.Q.L.	DATE: 5/10/71		
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