

1872

KENNCO EXPLORATIONS, (WESTERN) LIMITED

GEOCHEMICAL REPORT ON HARMON NO. 1 AND 2 GROUPS

(Harmon M. C.'s 1 to 18)

57° 127° NE 94E/11E

7 miles southwest of Chukachida Lake, B. C.

July 8 to 25, 1968

By: R. W. Stevenson, P.Eng.

May 14, 1969

KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT

ON

GEOCHEMICAL SURVEY

HARMON NO. 1 AND 2 GROUPS
(Harmon Mineral Claims No. 1 to 18)

Situated 7 miles southwest of Chukachida Lake,
Omineca Mining Division,
British Columbia

57° 127° NE

By

R. W. Stevenson, P. Eng.

July 8 to 25, 1968

May 14, 1969

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Department of
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NO. 1872 MAP

LIST OF CLAIMS AND DISTRIBUTION OF WORK

HARMON NO. 1 AND 2 GROUPS
(Harmon Mineral Claims No. 1 to 18)

Harmon No. 1 Group (8 claims)

<u>Claim No.</u>	<u>Record No.</u>	<u>Staking Date</u>	<u>Record Date</u>	<u>\$ Silt Geochem Work Each Claim</u>	<u>Years Applied</u>
1	60867	June 24	July 16	56	
2	60868	"	"	9	
3	60869	"	"	38	
4	60870	"	"	38	
5	60871	"	"	47	1
6	60872	"	"	84	1
7	60873	"	"	66	1
8	60874	"	"	66	1
Total				\$ 404	4

Harmon No. 2 Group (10 claims)

<u>Claim No.</u>	<u>Record No.</u>	<u>Staking Date</u>	<u>Record Date</u>	<u>\$ Silt Geochem Work Each Claim</u>	<u>Years Applied</u>
9	60875	June 24	July 16	21	
10	60876	"	"	21	
11	60877	"	"	11	
12	60878	"	"	21	
13	60879	"	"	21	
14	60880	"	"	11	
15	60881	"	"	21	1
16	60882	"	"	97	
17	60883	"	"	11	1
18	60884	"	"	97	1
Total				\$ 332	3

The Harmon No. 1 to 18 mineral claims were staked on June 24, 1968, and recorded on July 16. The silt survey was done between July 8 and 25, 1968.

STATEMENT OF COSTS INCURRED

Silt Geochemical Survey

A detailed explanation of how the silt geochemical survey expenditures were incurred is given under the section titled 'Silt Survey Field Work'.

The total cost of silt geochemical survey on Harmon No. 1 and 2 groups is as follows:

Chemical analysis of 74 samples - Cu, Mo, Zn, Pb		\$444.00
Wages:		
R. W. Stevenson - July 8, 10, 21, 25	@ \$35/d	140.00
I. McDougall - July 8, 10, 21, 25	@ \$20/d	80.00
D. Stark - July 8, 10, 21, 25	@ \$18/d	<u>72.00</u>
		\$736.00

The silt geochemical survey was distributed on the two claim groups as follows:

Harmon No. 1 claim group	\$404.00
Harmon No. 2 claim group	\$332.00

The amount expended on each claim is shown in the list of claims.

INTRODUCTION

The mineral property discussed in this report is about 7 miles southwest of Chukachida Lake, B. C. The exploration work on these claims consisted of a silt geochemical survey. It was done during the period July 8 to 25, 1968. The Harmon claims were staked on June 24, and recorded on July 16, 1968. The work was done under the supervision of R. W. Stevenson, P. Eng.

LOCATION AND ACCESS

The property is situated at Latitude 57°33'N, Longitude 127°12'W, about 305 miles northwest of Prince George. This is about 7 miles southwest of Chukachida Lake. It is on the gently sloping floor of a broad valley, at about 4700' elevation. This is approximately at tree line, and vegetation consists of grassland, with scattered stands of alpine fir.

Access to the area is by fixed-wing aircraft from Smithers, a distance of about 205 miles. Travel on the property is relatively easy.

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. A drainage base map with a scale of 1" = 800' was compiled for use in plotting the sample results for office interpretation.

Silt Sample Collection

In general, the samples were taken at about 800' intervals, depending on when suitable silt could be found. Seepages were sampled as frequently as they could be found.

Samples were taken from "active" material; that is, under flowing water, either in streams or in seepages. The samples were taken with either a folding shovel, or with a hand trowel, depending on the depth of silt and the presence of pebbles or boulders. 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 a 3" x 4½" brown paper envelope, 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 the base camp, and were oven-dried at 80°C. They were then shipped to our laboratory in North Vancouver, where they were 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 John Barakso, MSc.

A one-gram sample is weighed to within \pm 2 mgm. making a possible error of 2% at this stage. This is much more accurate than a volumetric scoop.

The sample is placed in a dry test tube, and 1 ml of reagent grade 70% nitric acid is added, or just enough to wet the sample. Four ml of reagent grade 70% perchloric acid ($\text{HClO}_4 \cdot \text{H}_2\text{O}$) is added, and the sample is digested at 200°C on a hot plate for four hours. After cooling, the sample is diluted up to 50 ml with distilled water, agitated, and allowed to settle for two hours.

An aliquot of this solution is used for determination of copper, zinc, and lead by atomic spectrophotometer.

An aliquot of this solution is also taken for determination of molybdenum. Ammonium thiocyanate, stannous chloride, and amyl acetate are added to the solution. Molybdenum forms a thiocyanate complex which is removed by solvent extraction in the amyl acetate. This is aspirated in the atomic absorption spectrophotometer to determine molybdenum.

Interpretation

The purpose of the silt survey was to explore the potential of the property. The configuration of streams and seepages made this a practicable goal.

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.

Vancouver, B. C.

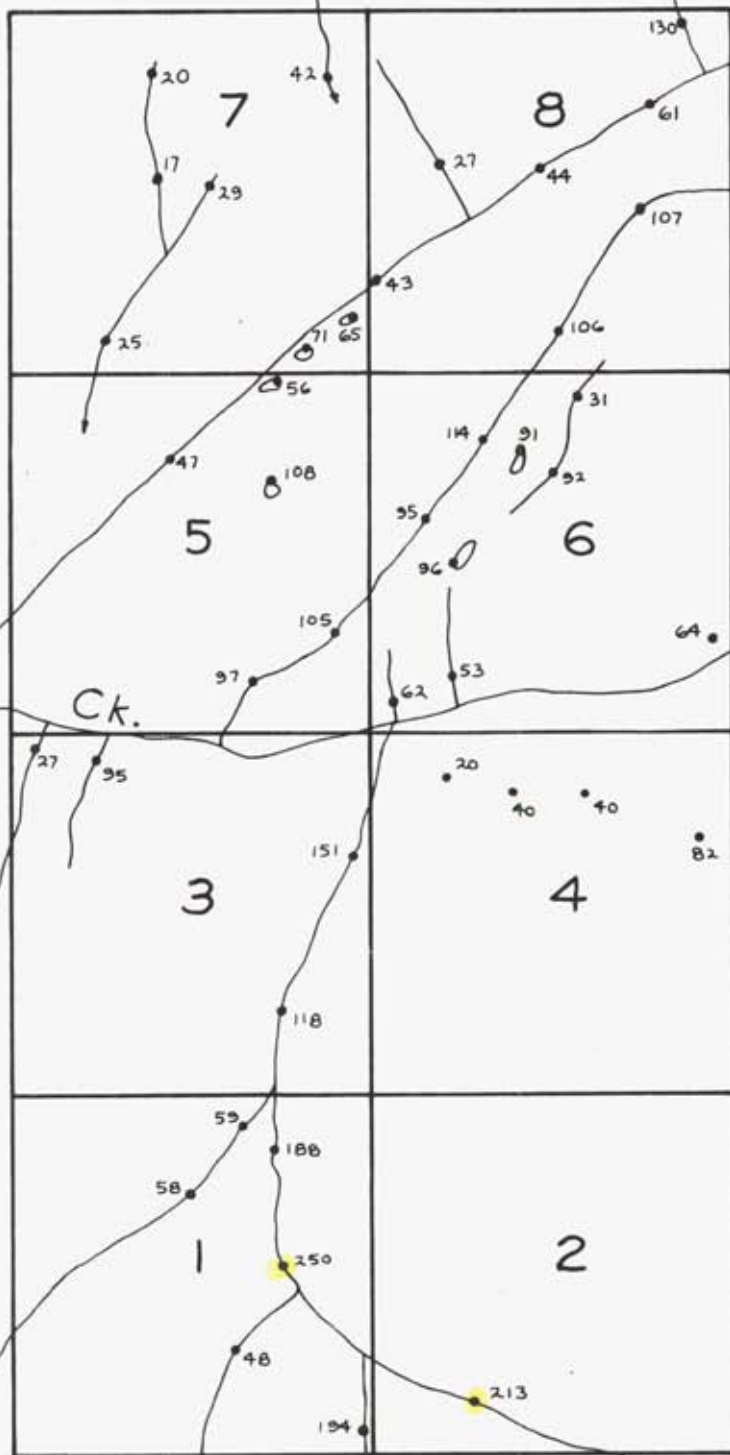
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NO. 1872 MAP 1

Anomalous ———— ●
Weakly Anomalous ———— ●
Metal Values in ppm ———— ●



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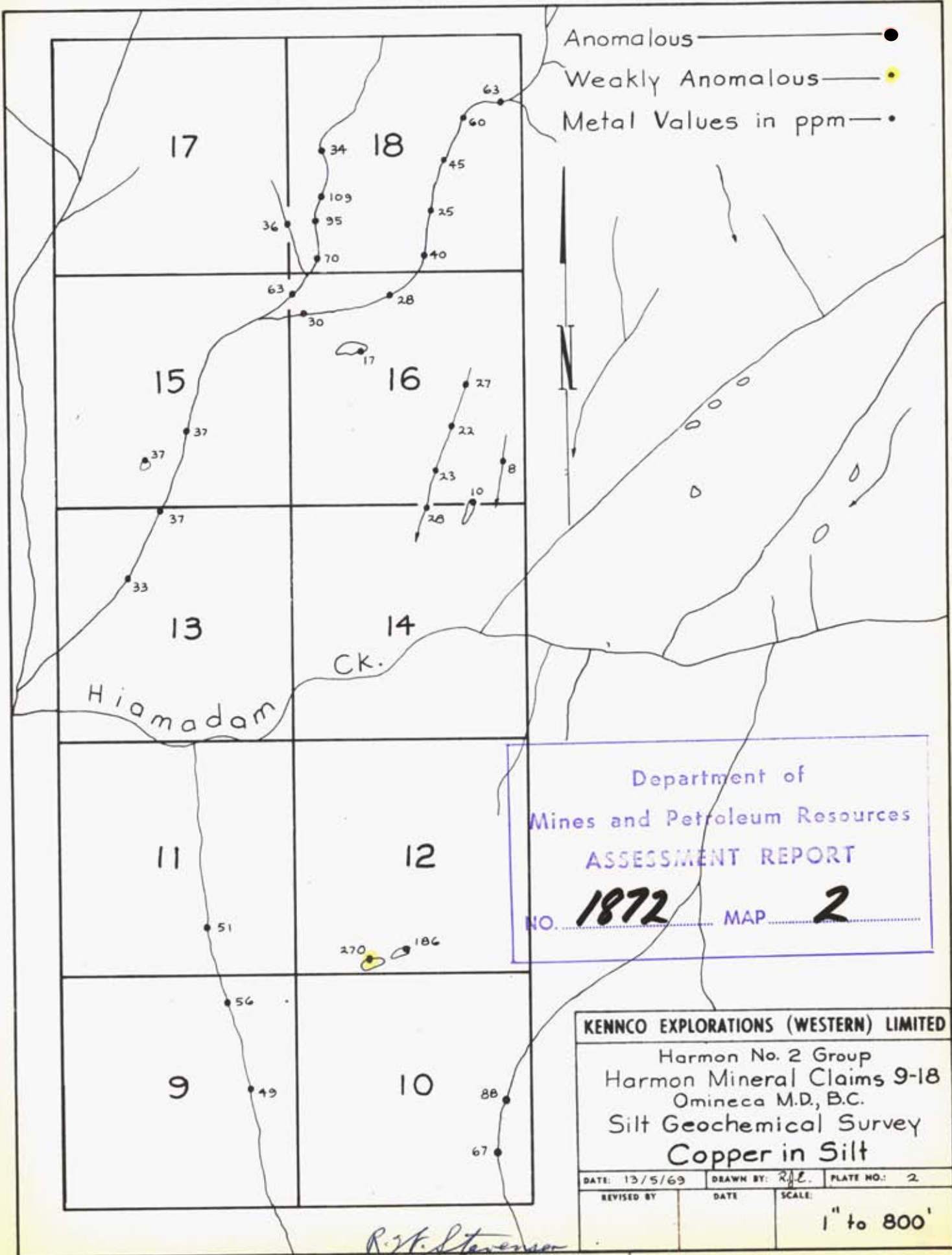
Harmon No. 1 Group
Harmon Mineral Claims 1-8
Omineca M.D., B.C.
Silt Geochemical Survey
Copper in Silt

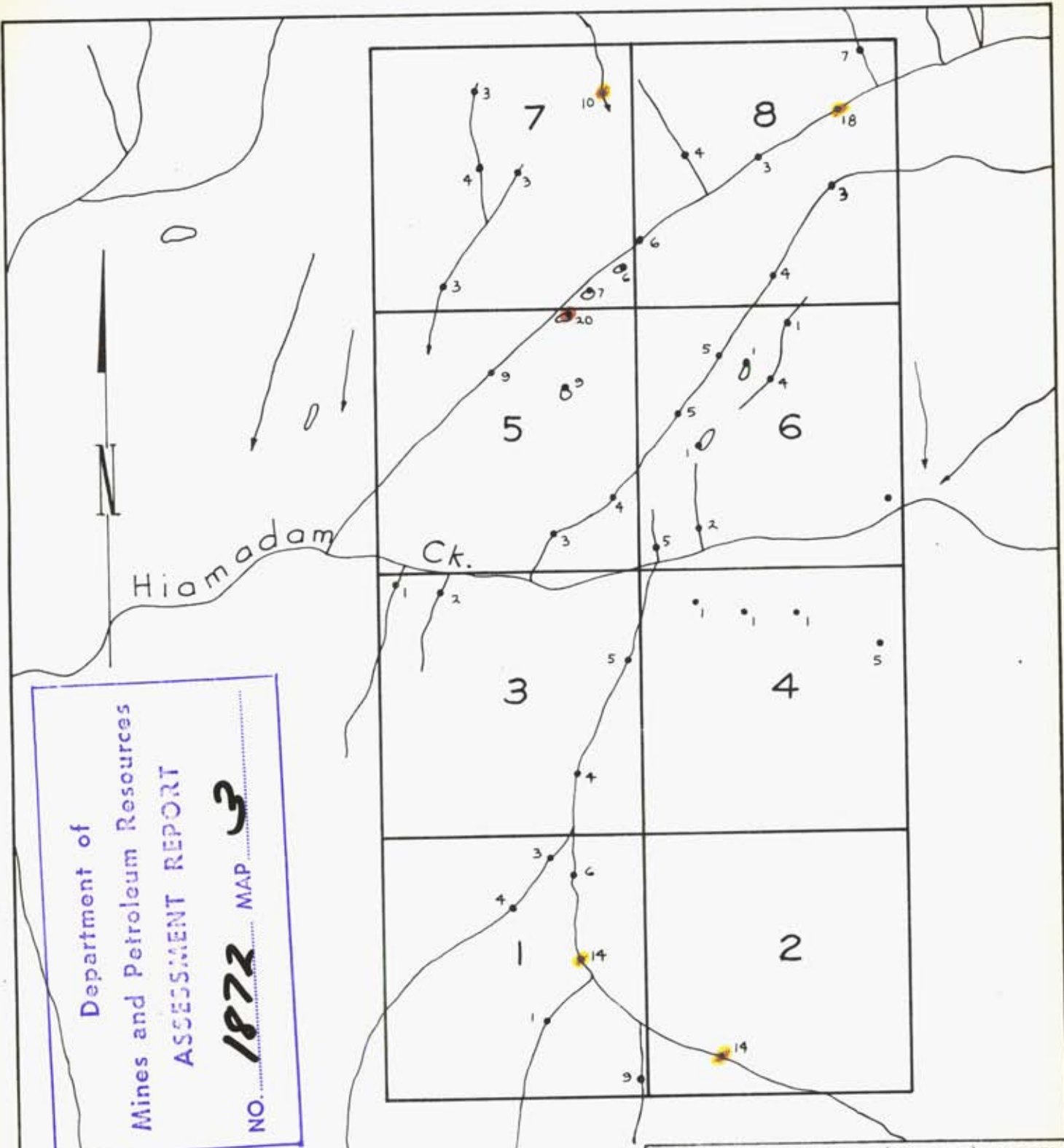
DATE: 13/5/65 DRAWN BY: R.J.C. PLATE NO.: 1

REVISED BY	DATE	SCALE
		1" to 800'

R. W. Stevenson

Anomalous —●—
 Weakly Anomalous —●—
 Metal Values in ppm —●—





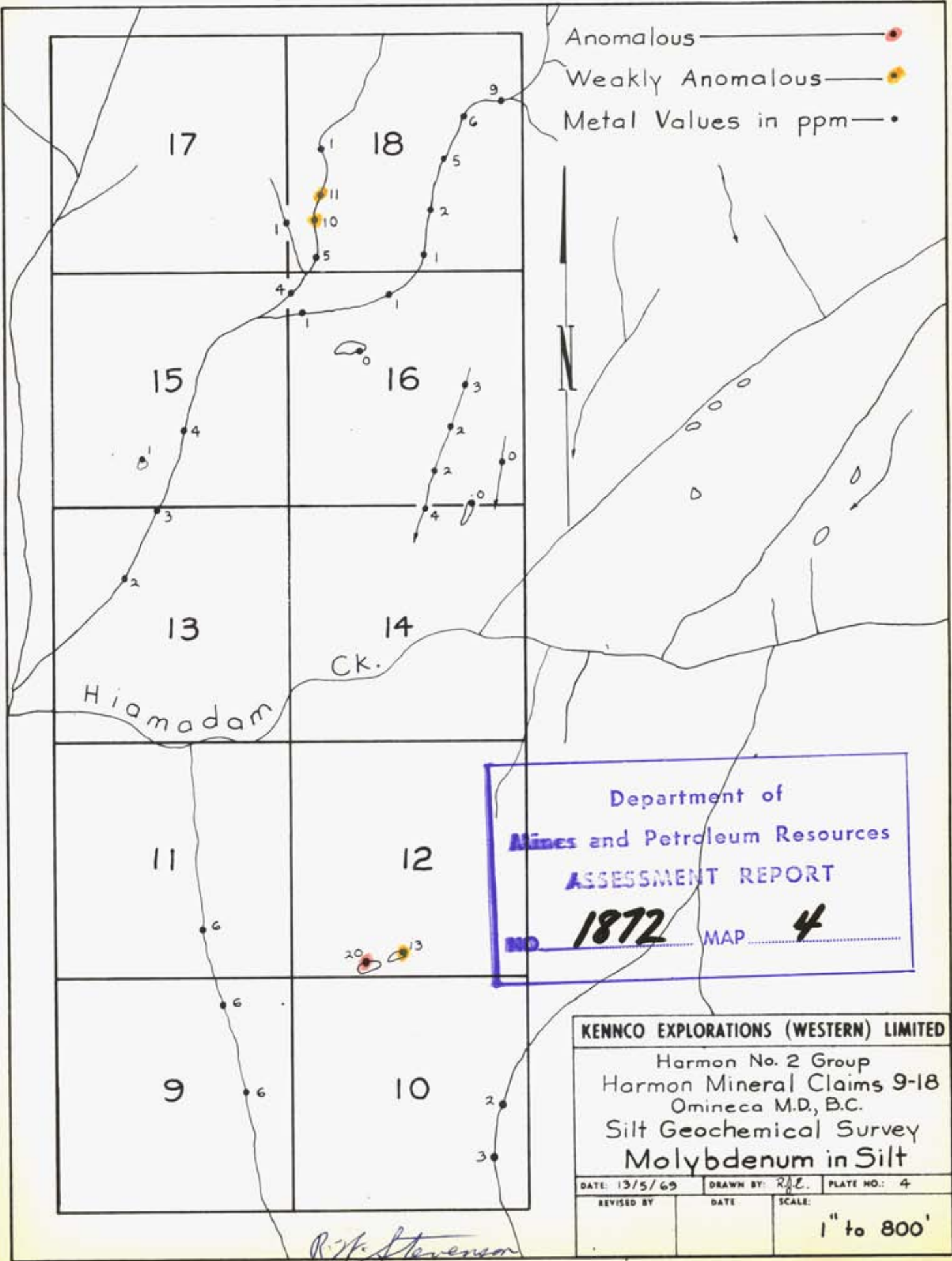
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 NO. 1872 MAP 3

Anomalous ———— ●
 Weakly Anomalous ———— ●
 Metal Values in ppm ———— •

KENNCO EXPLORATIONS (WESTERN) LIMITED
 Harmon No. 1 Group
 Harmon Mineral Claims 1-8
 Omineca M.D., B.C.
 Silt Geochemical Survey
 Molybdenum in Silt

DATE: 13/5/69	DRAWN BY: R.J.C.	PLATE NO.: 3
REVISED BY:	DATE:	SCALE:
		1" to 800'

R.W. Stevenson



Anomalous — ●
 Weakly Anomalous — ●
 Metal Values in ppm — ●

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 NO. **1872** MAP **4**

KENNCO EXPLORATIONS (WESTERN) LIMITED
 Harmon No. 2 Group
 Harmon Mineral Claims 9-18
 Omineca M.D., B.C.
 Silt Geochemical Survey
 Molybdenum in Silt

DATE: 13/5/69	DRAWN BY: R.N.	PLATE NO.: 4
REVISED BY:	DATE:	SCALE:
1" to 800'		

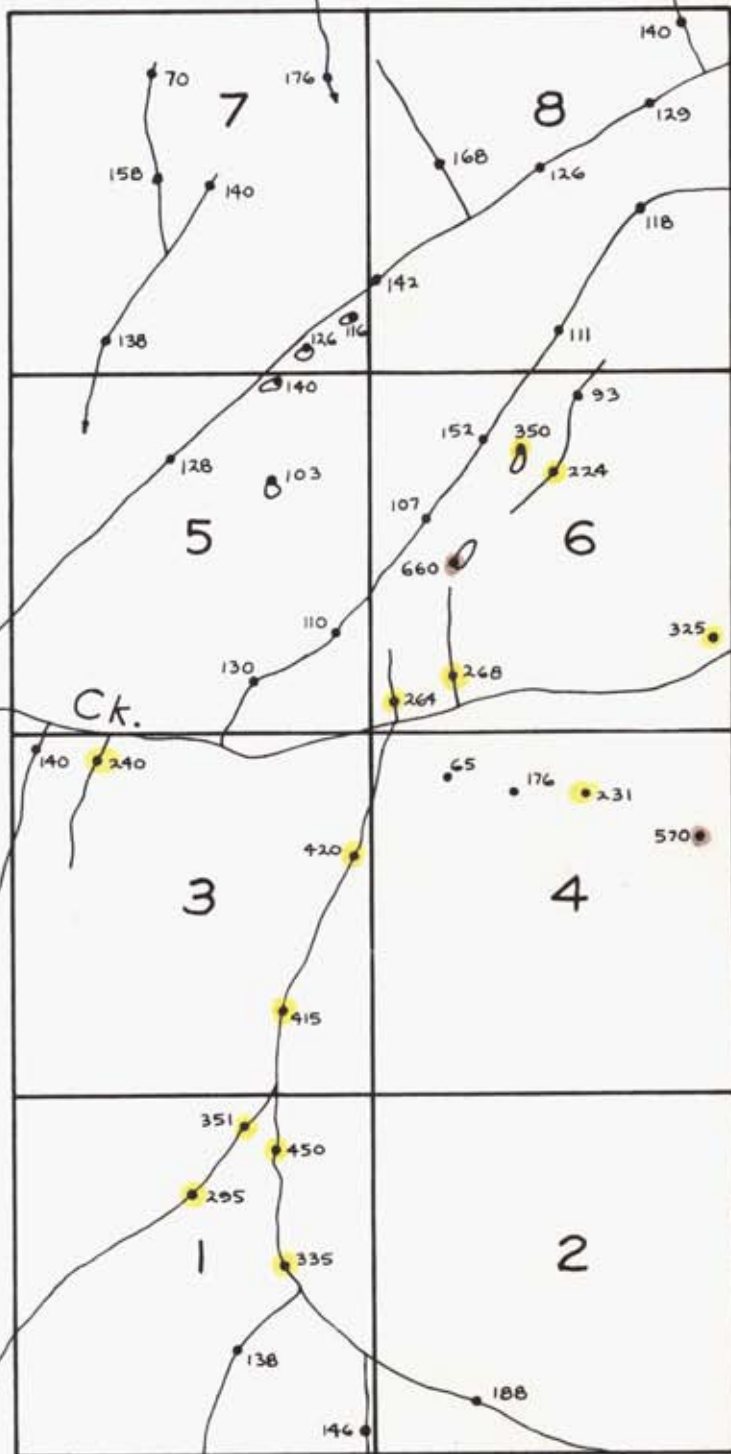
R. N. Stevenson

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NO. 1872 MAP 5

Anomalous ———— ●
Weakly Anomalous ———— ●
Metal Values in ppm ———— ●

R. H. Stevenson



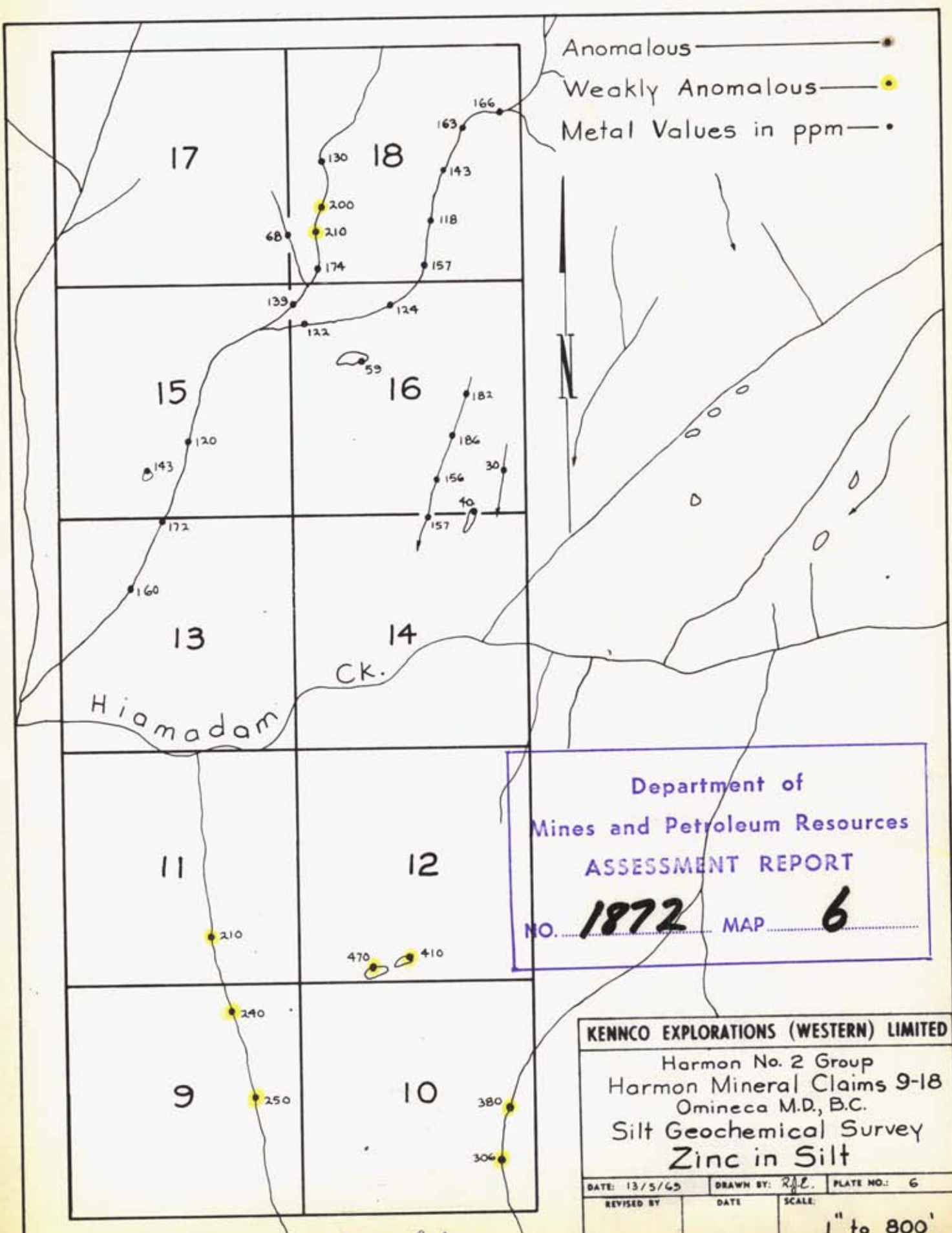
KENCO EXPLORATIONS (WESTERN) LIMITED

Harmon No. 1 Group
Harmon Mineral Claims 1-8
Omineca M.D., B.C.
Silt Geochemical Survey
Zinc in Silt

DATE: 13/5/69 DRAWN BY: R.J.C. PLATE NO.: 5

REVISED BY: DATE: SCALE: 1" to 800'

Anomalous — ●
 Weakly Anomalous — ●
 Metal Values in ppm — ●



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 NO. **1872** MAP **6**

KENNCO EXPLORATIONS (WESTERN) LIMITED
 Harmon No. 2 Group
 Harmon Mineral Claims 9-18
 Omineca M.D., B.C.
 Silt Geochemical Survey
 Zinc in Silt

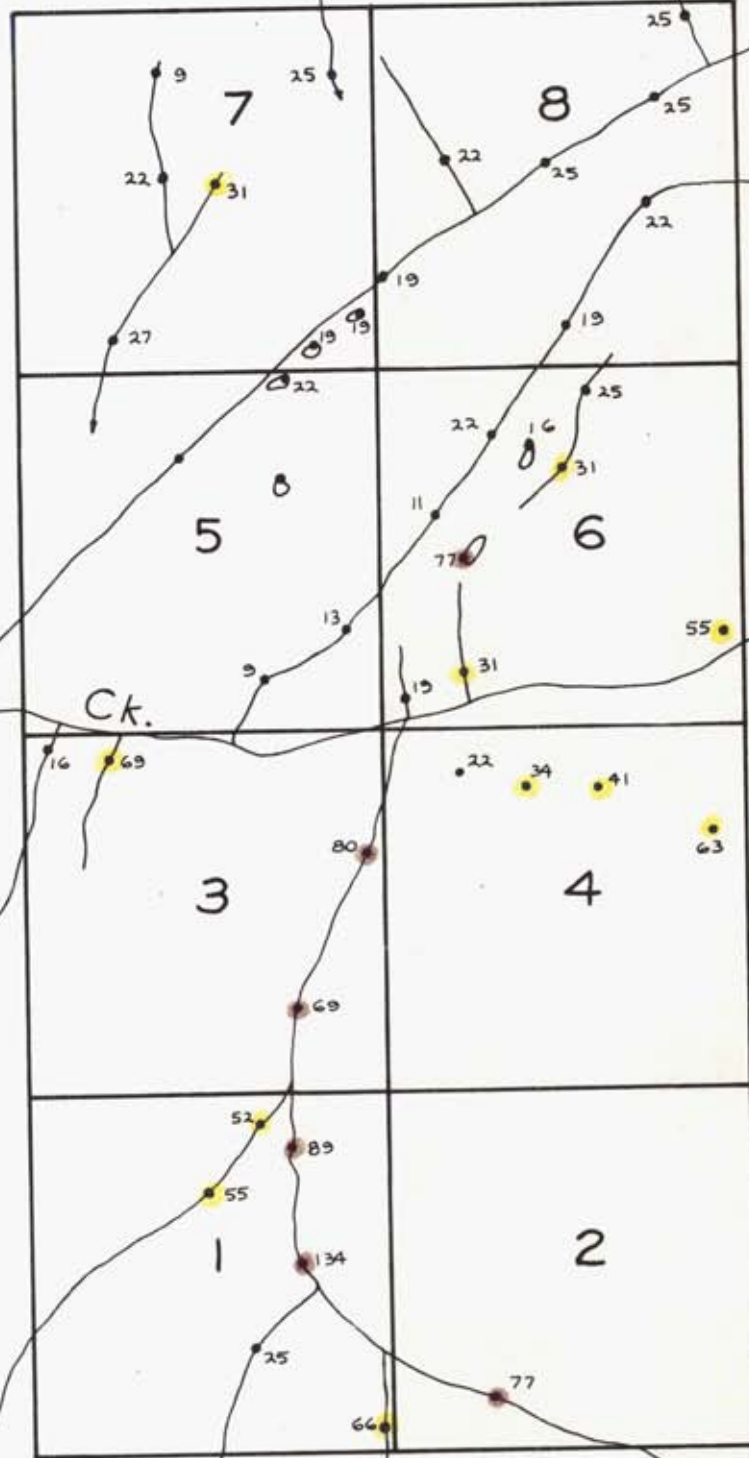
DATE: 13/5/65	DRAWN BY: R.J.E.	PLATE NO.: 6
REVISED BY:	DATE:	SCALE:
1" to 800'		

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NO. 1872 MAP 7

Anomalous — ●
Weakly Anomalous — ●
Metal Values in ppm — ●



KENNCO EXPLORATIONS (WESTERN) LIMITED

Harmon No. 1 Group
Harmon Mineral Claims 1-8
Omineca M.D., B.C.
Silt Geochemical Survey
Lead in Silt

DATE: 13/5/69 DRAWN BY: R.J.C. PLATE NO.: 7

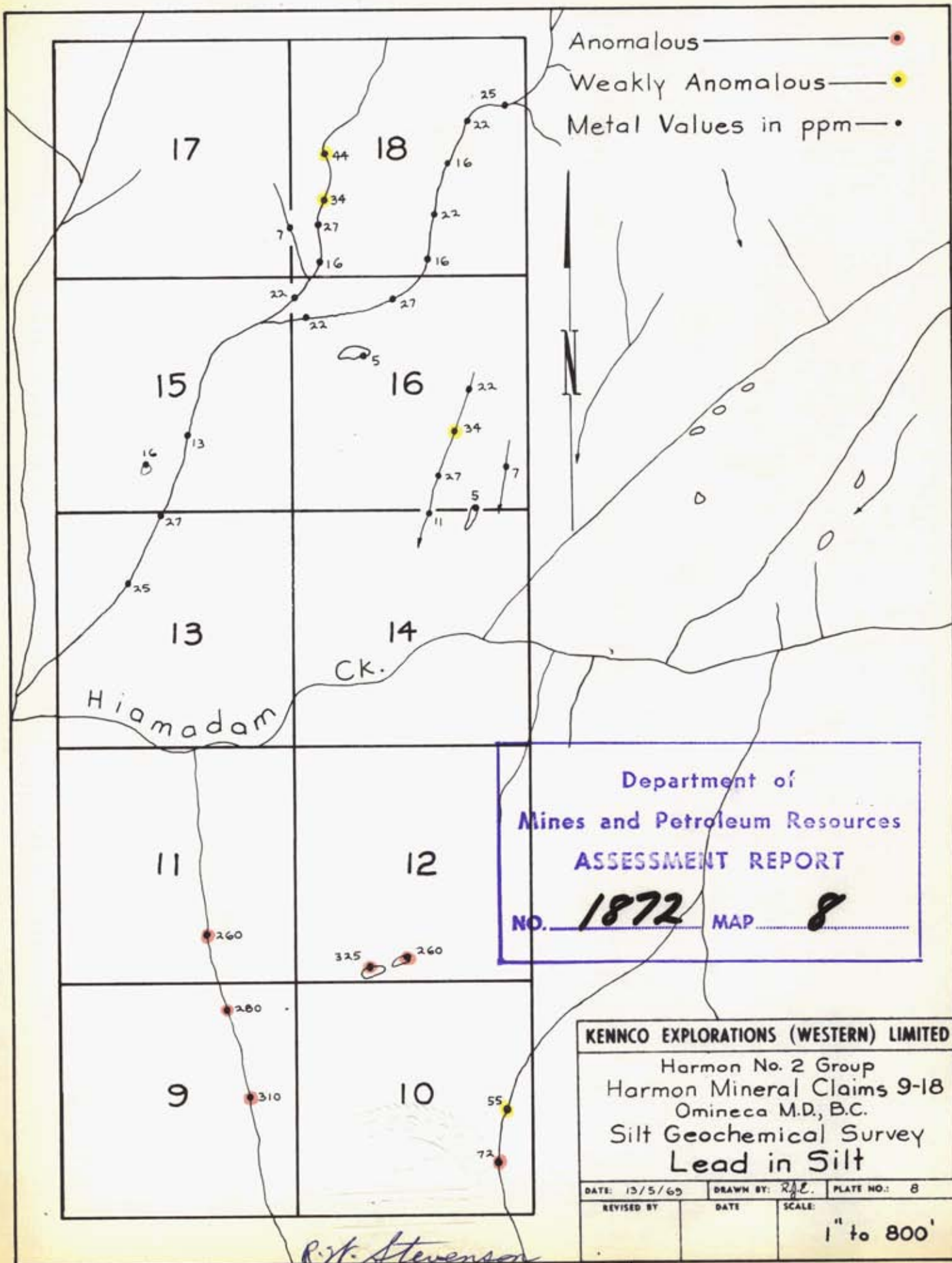
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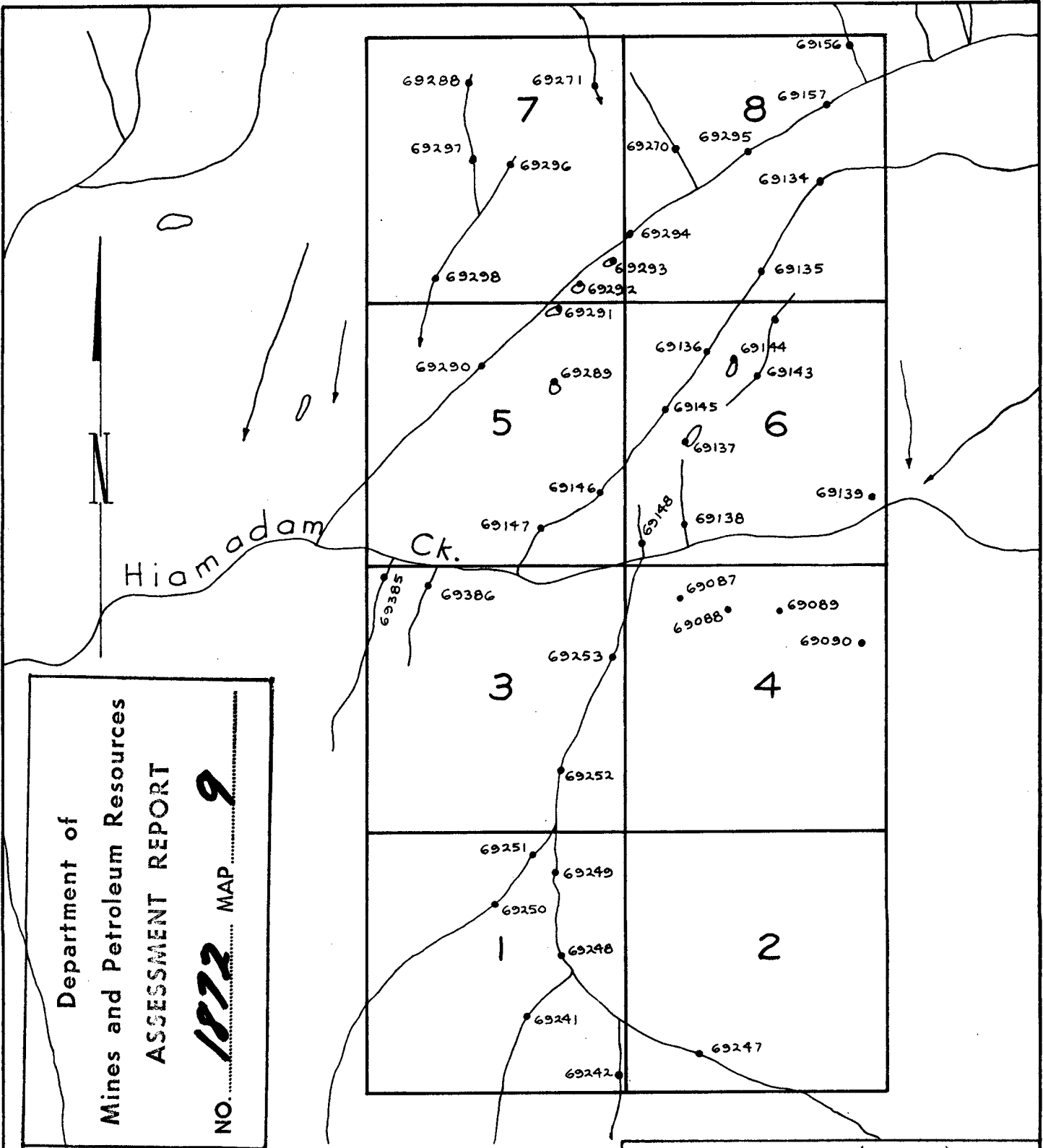
DATE

SCALE:

1" to 800'

R.J.C. Stevenson





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NO. **1872** MAP **9**

- Anomalous ————— •
- Weakly Anomalous ————— •
- Metal Values in ppm ————— •

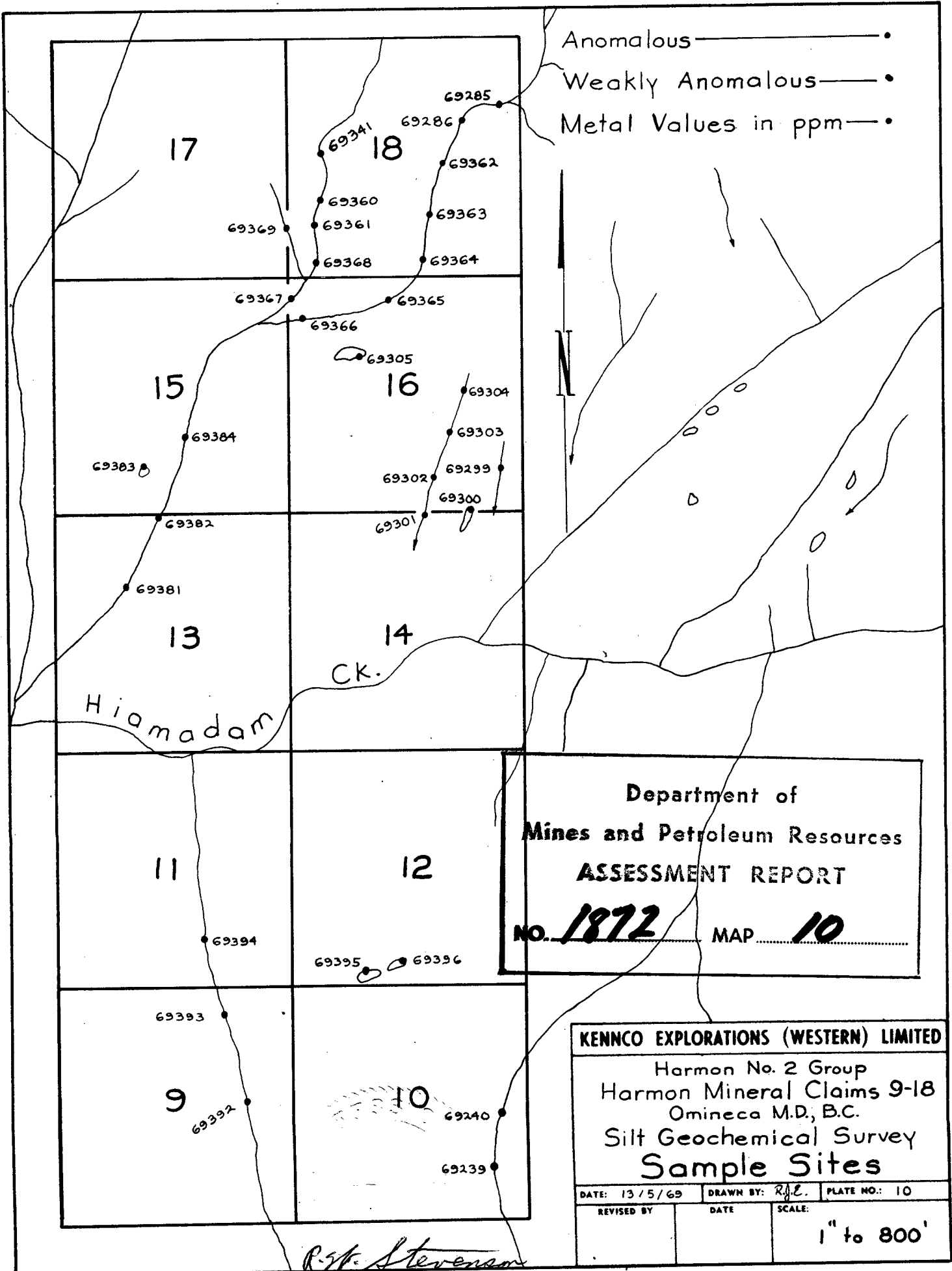
KENNCO EXPLORATIONS (WESTERN) LIMITED

Harmon No. 1 Group
Harmon Mineral Claims 1-8
Omineca M.D., B.C.
Silt Geochemical Survey
Sample Sites

DATE: 13/5/69	DRAWN BY: R.J.E.	PLATE NO.: 9
REVISED BY	DATE	SCALE: 1" to 800'

R.H. Stevenson

Anomalous ——— •
 Weakly Anomalous ——— •
 Metal Values in ppm ——— •



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 No. **1872** MAP **10**

KENCO EXPLORATIONS (WESTERN) LIMITED
 Harmon No. 2 Group
 Harmon Mineral Claims 9-18
 Omineca M.D., B.C.
 Silt Geochemical Survey
Sample Sites

DATE: 13 / 5 / 69	DRAWN BY: R.J.L.	PLATE NO.: 10
REVISED BY:	DATE:	SCALE:
1" to 800'		

R. S. Stevenson