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813

KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT

ON

GEOCHEMICAL SURVEY

STONEY #1 CLAIM GROUP
(Stoney Mining Claims Nos. 1 to 15)

Stone Creek,
Fort Steele Mining Division,
British Columbia

Lat. 49°12'N

Long. 115°55'W

By

K.E. Northcote
July 3rd to 6th, 1966

J.A. Gower, P. Eng.

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DISTRIBUTION OF WORK

<u>Claim Group No.</u>	<u>Claim No.</u>	<u>Record No.</u>	<u>Distribution of Geochemical Work</u>	<u>Years Work Claimed</u>
Stoney #1	Stoney 1	4856	\$ 180.00	1
	" 2	4855	154.30	1
	" 3	4869	192.88	1
	" 4	4870	167.16	1
	" 5	4871	37.75	1
	" 6	4872	-	1
	" 7	4873	26.28	1
	" 8	4874	-	1
	" 9	4875	167.16	1
	" 10	4876	180.00	1
	" 11	4877	26.28	1
	" 12	4878	-	1
	" 13	4920	26.28	
	" 14	4921	37.75	
	" 15	4922	90.00	
			<u>\$1,285.84</u>	<u>12</u>

INTRODUCTION

The claim group discussed in this report is west of Stone Creek in the Fort Steele Mining Division of British Columbia. The claims are owned by J. Van Koughnett and J.E. Sanderson of Cranbrook, B. C. The work described in this report was done during the period July 3rd to July 6th, 1966 and consisted of a soil geochemical survey.

The soil samples were collected by S.C. Gower, P. Hutzkal, G. Davies, J.S. Northcote and K.E. Northcote. The work was supervised by K.E. Northcote.

The soil samples were analysed July 22, 1966 by colorimetric methods under the supervision of J. Barakso in Kennco Explorations (Western) Limited's laboratory.

LOCATION & ACCESS

The property is located at Latitude 49°12'N, Longitude 115°55'W, 6 miles southwest of Moyie Lake on the west side of Stone Creek. The elevation ranges from 3500 feet to 5500 feet. The claim location lines, run by pace and compass, run northerly along the flank of the ridge which slopes east to Stone Creek. The average slope is approximately 20°.

Vegetation consists of pine and larch with some fir. Alder is found in swampy areas and near streams. The forest growth is light at higher elevations on the claims but becomes very dense at lower elevations, in swampy areas and in stream courses.

The claim area can be reached by following Stone Creek from a natural gas pipeline access road on the southeast side of Moyie River Valley. In order to do this work, however, the crew and equipment was flown in by helicopter to a cleared area in Stone Creek.

FIELD PROCEDURES

Control Survey Lines

The claim location lines were run earlier by pace and compass and were used as reference lines for soil sampling. Intermediate lines for soil sampling were also run by pace and compass. All lines were run with sufficient control and accuracy to show existence and location of anomalous areas. The sample positions are shown on a base map prepared on a scale of 1" = 500'. (See Plate 1).

Geochemical Survey

The geochemical survey consisted of a careful soil sampling survey. Soil samples were collected at 200-foot intervals north-south along the east facing flank of Stone Creek Valley and at 500-foot intervals east-west down-slope. Sample locations were flagged and numbered. The soil profile development was good. Samples were taken from a "B" soil horizon at all sample sites. The samples were analysed for total copper, total lead, total zinc and total molybdenum by colorimetric methods at Kennco Explorations (Western) Limited's geochemical laboratory in North Vancouver. The results are plotted on Plates 2 to 4 on a scale of 1" = 500'.

INTERPRETATION

Good soil samples representative of the "B" horizon were obtained over the entire area except at a few locations on talus slopes. The claim area is considered to be suitable for geochemical soil sampling methods of exploration. The depth to bedrock in general is shallow as is indicated by hillside contours, presence of numerous scattered outcrops on the hillside and in stream beds. Although the depth of overburden was not everywhere known, it is improbable that differences in depth to bedrock in the claim area would seriously affect the results of this survey. The samples were analysed for total copper, total lead, total zinc and total molybdenum. The results are discussed separately.

The total copper results are plotted on Plate 2. Background values are fairly uniform in the range of 10 to 30 ppm. Except for a few scattered values of 40 to 50 ppm, the only continuous high values partially coincides with a probable structurally controlled stream which crosses the hillside diagonally through claims 3, 4, 2 and 15. An anomalous area is indicated by an elongate pattern of contours around a single high value of 150 ppm. This anomaly presumably indicates copper mineralization. Additional work is necessary to explain this anomaly.

The total lead results are plotted on Plate 3. The results are almost entirely negative. The lead values are fairly uniform with most values between 10 to 20 ppm. Two slightly higher values occur adjacent to Stone Creek at the boundaries of claims 14 and 15. These values of 30 and 41 ppm lead are not considered to be of economic significance.

The total zinc results are plotted on Plate 4. Geochemically, zinc is best used to confirm results of other metal patterns. In this case, scattered irregular-shaped high patterns occur which

do not closely correspond to the copper pattern. A weak high, however, corresponds to the weak lead high at Stone Creek between claims 14 and 15. Other highs are found in the southern part of claim 2 and the north half of claim 9. These values, with a maximum of 357 ppm, are not considered to be of economic significance.

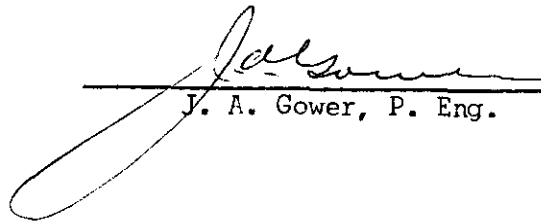
The total molybdenum results were completely negative. The highest values obtained were 2 ppm Mo.

Vancouver, B. C.

August 26, 1966



K. E. Northcote



J. A. Gower, P. Eng.

APPENDIX I - Geochemical Results

*J. E. Sanderson -
J. Van Koughnett*

GEOCHEMICAL RESULTS :- SEDIMENTS July 22nd, 1966							
Sample No.	Mo ppm	Cu ppm	Zn ppm	Pb ppm			
82064	0	21	128	13			
65	0	53	155	17			
66	0	23	93	10			
67	0	14	120	16			
68	0	23	143	23			
69	0	33	143	23			
70	0	41	137	16			
71	0	14	123	16			
72	0	23	155	14			
73	0	21	303	10			
74	0	21	147	11			
75	0	12	125	16			
76	0	14	265	14			
77	0	14	117	9			
78	0	28	196	17			
79	0	12	95	14			
80	0	25	110	11			
81	0	14	105	11			
82	0	39	163	18			
83	0	25	120	11			
84	0	33	143	15			
85	0	14	133	10			
86	1	16	117	10			
87	0	16	245	14			
88	0	23	233	22			
89	1	21	310	17			
90	1	23	143	16			
91	0	21	125	14			
92	0	18	128	20			
93	1	28	218	15			
94	0	14	117	10			
95	0	16	100	12			
96	0	18	112	9			
97	1	14	95	12			
98	0	14	112	11			
99	1	21	105	17			
82100	1	23	103	10			
01	1	25	95	14			
02	1	35	57	13			
03	1	28	80	10			
04	1	28	125	25			
05	0	16	67	16			
06	1	21	100	14			
07	1	16	108	18			

GEOCHEMICAL RESULTS :- SEDIMENTS July 22nd, 1966

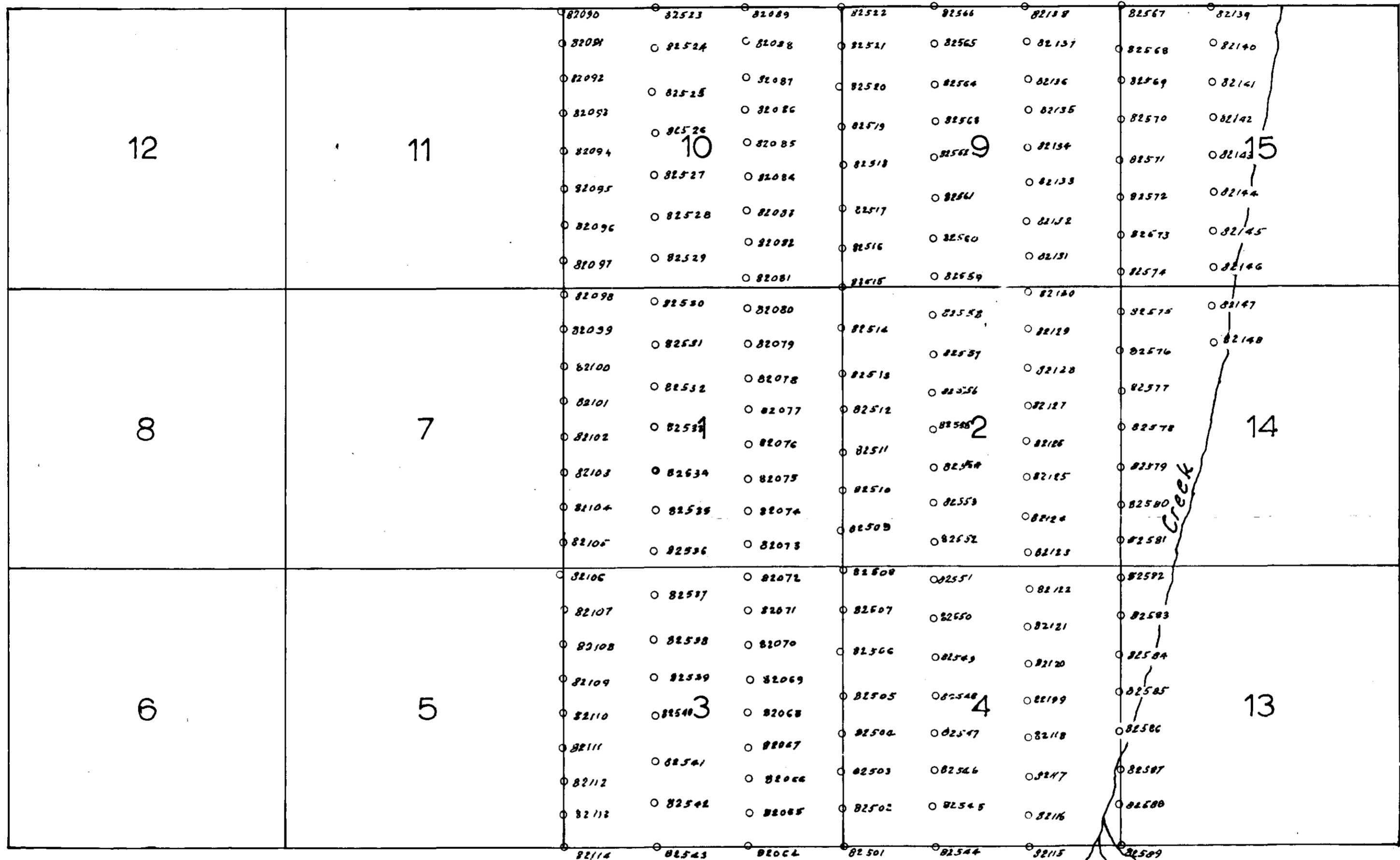
Sample No.	Mo ppm	Cu ppm	Zn ppm	Pb ppm			
82108	0	23	95	8			
09	0	21	150	10			
10	0	18	170	15			
11	0	25	208	12			
12	0	21	208	12			
13	0	41	240	17			
14	0	37	188	19			
15	0	14	290	12			
16	0	23	228	10			
17	1	21	240	17			
18	1	18	137	16			
19	0	21	213	10			
20	1	23	192	15			
21	0	21	137	10			
22	0	23	150	15			
23	0	21	130	14			
24	1	53	274	11			
25	0	39	310	10			
26	0	35	170	15			
27	1	21	143	12			
28	0	18	208	11			
29	0	21	137	9			
30	0	14	63	10			
31	0	23	143	10			
32	0	16	73	14			
33	1	7	68	8			
34	0	12	75	14			
35	0	16	196	4			
36	0	21	310	8			
37	0	23	188	10			
38	0	18	240	8			
39	0	21	103	17			
40	0	18	98	14			
41	0	16	282	10			
42	0	23	120	14			
43	0	25	52	13			
44	0	25	137	5			
45	0	18	337	18			
46	0	14	357	41			
47	0	21	343	25			
48	1	35	245	30			

GEOCHEMICAL RESULTS :- SEDIMENTS July 22nd, 1966

Sample No.	Mo ppm	Cu ppm	Zn ppm	Pb ppm			
82501	1	21	218	9			
02	0	18	150	11			
03	0	23	110	12			
04	0	25	192	12			
05	0	18	310	6			
06	0	43	213	14			
07	0	30	240	14			
08	1	50	357	16			
09	0	18	357	11			
10	0	25	245	10			
11	0	23	200	16			
12	0	18	192	8			
13	0	28	167	10			
14	0	28	257	11			
17	0	21	250	8			
18	0	16	196	9			
19	0	23	170	18			
20	1	41	350	20			
21	0	23	175	16			
22	0	25	100	14			
23	0	21	155	10			
24	1	23	147	12			
25	1	18	125	10			
26	1	23	140	14			
27	1	30	297	16			
28	0	30	163	14			
29	0	16	105	14			
30	1	18	120	10			
31	0	14	140	12			
32	0	10	103	16			
33	1	12	93	13			
34	0	16	100	11			
35	0	14	80	16			
36	1	21	71	10			
37	1	23	140	18			
38	1	35	196	18			
39	0	18	274	15			
40	0	16	137	16			
41	1	21	128	8			
42	0	18	115	12			
43	0	14	160	14			
44	0	16	196	9			
45	2	28	118	8			

GEOCHEMICAL RESULTS :- SEDIMENTS July 22nd, 1966

Sample No.	Mo ppm	Cu ppm	Zn ppm	Pb ppm			
82546	0	28	123	18			
47	0	18	143	15			
48	0	18	147	14			
49	0	18	118	13			
50	0	16	163	10			
51	0	150	303	24			
52	1	21	140	16			
53	0	18	223	16			
54	0	18	330	16			
55	0	14	128	10			
56	0	18	400	13			
57	0	14	113	26			
58	1	21	103	16			
59	0	18	123	14			
60	0	14	257	14			
61	0	14	86	18			
62	0	18	357	19			
63	0	18	357	16			
64	0	21	240	15			
65	Sample Missing						
66	0	14	400	16			
67	0	18	108	16			
68	0	14	71	17			
69	1	18	297	11			
70	0	18	297	26			
71	0	21	110	12			
72	0	12	86	9			
73	0	10	54	10			
74	0	16	265	12			
75	0	16	240	14			
76	0	18	163	14			
78	1	30	120	18			
79	0	21	115	11			
80	0	18	143	14			
81	1	23	170	14			
82	0	12	218	9			
83	0	21	123	16			
84	0	21	115	12			
85	0	14	233	10			
86	0	14	125	14			
87	1	14	78	18			
88	0	12	52	12			
89	1	18	59	14			



KENNCO EXPLORATIONS (WESTERN) LIMITED			
STONEY CREEK GROUP '1			
- GEOCHEMISTRY -			
Sample Sites			
DATE Aug 31, 66	DRAWN BY H. E. M.	SCALE	1
F.W.A. (Tr)	DATE	SCALE	1" = 500'

PLATE NO 1.

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NO. 813 MAP # 10

MI

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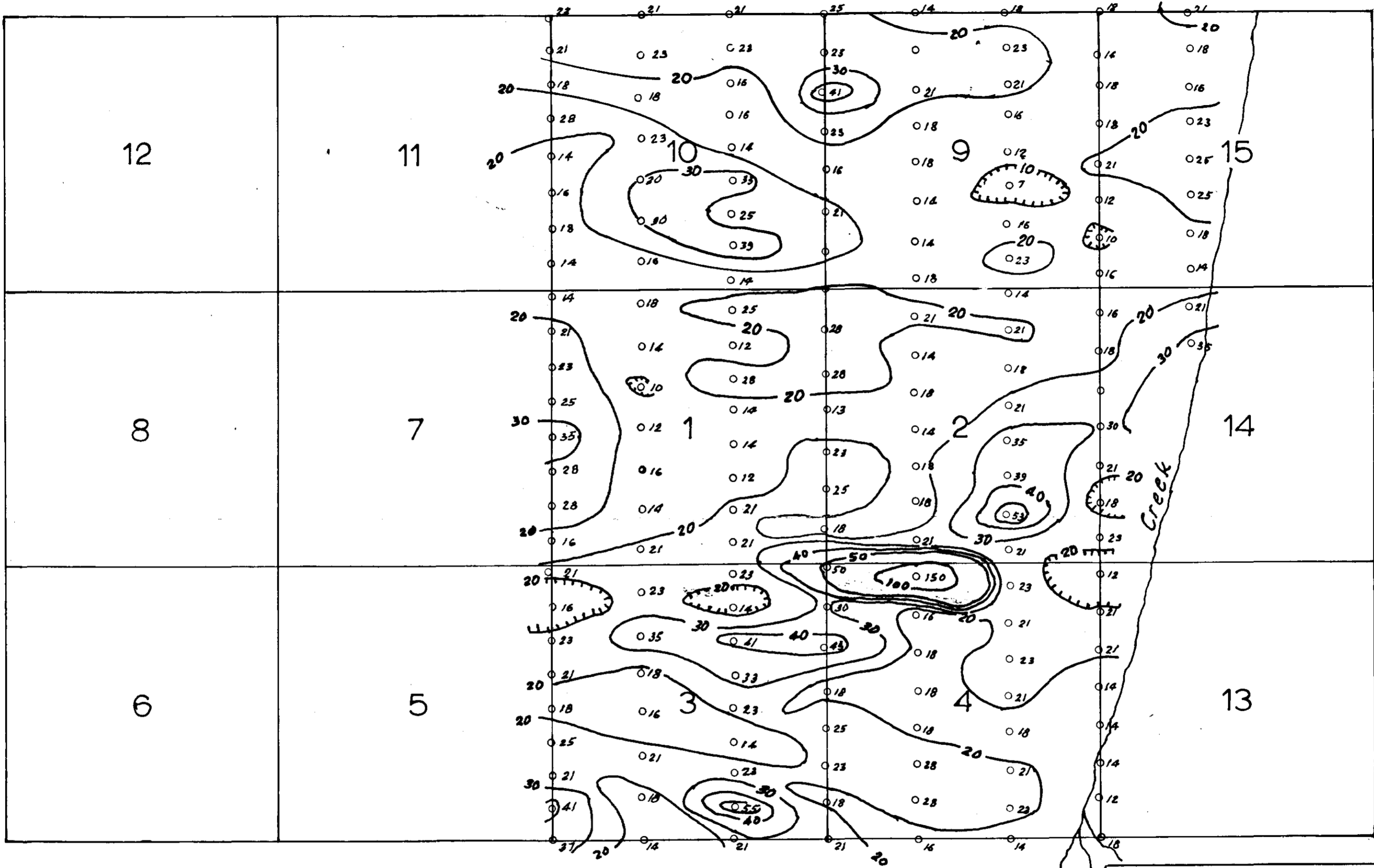


PLATE NO: 2

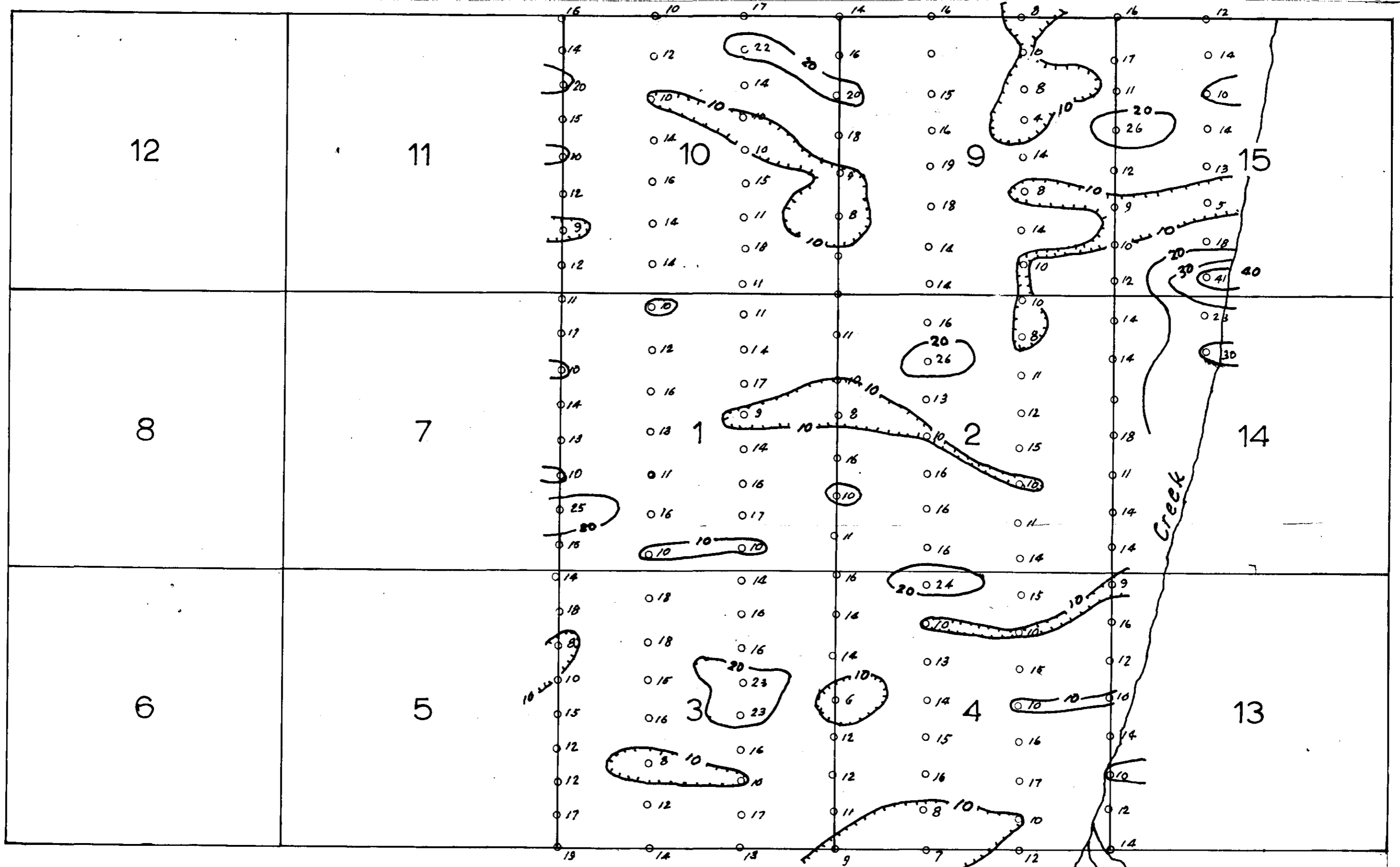
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 813 MAP # 11

M2

KENCO EXPLORATIONS (WESTERN) LIMITED
STONEY CREEK GROUP '1
 — GEOCHEMISTRY —
 p.p.m. Cu in Soils
 DATE Aug 31-66 DRAWN BY H. E. N. PLATE NO. 2
 F.W.R. DATE SCALE
 1" = 500'

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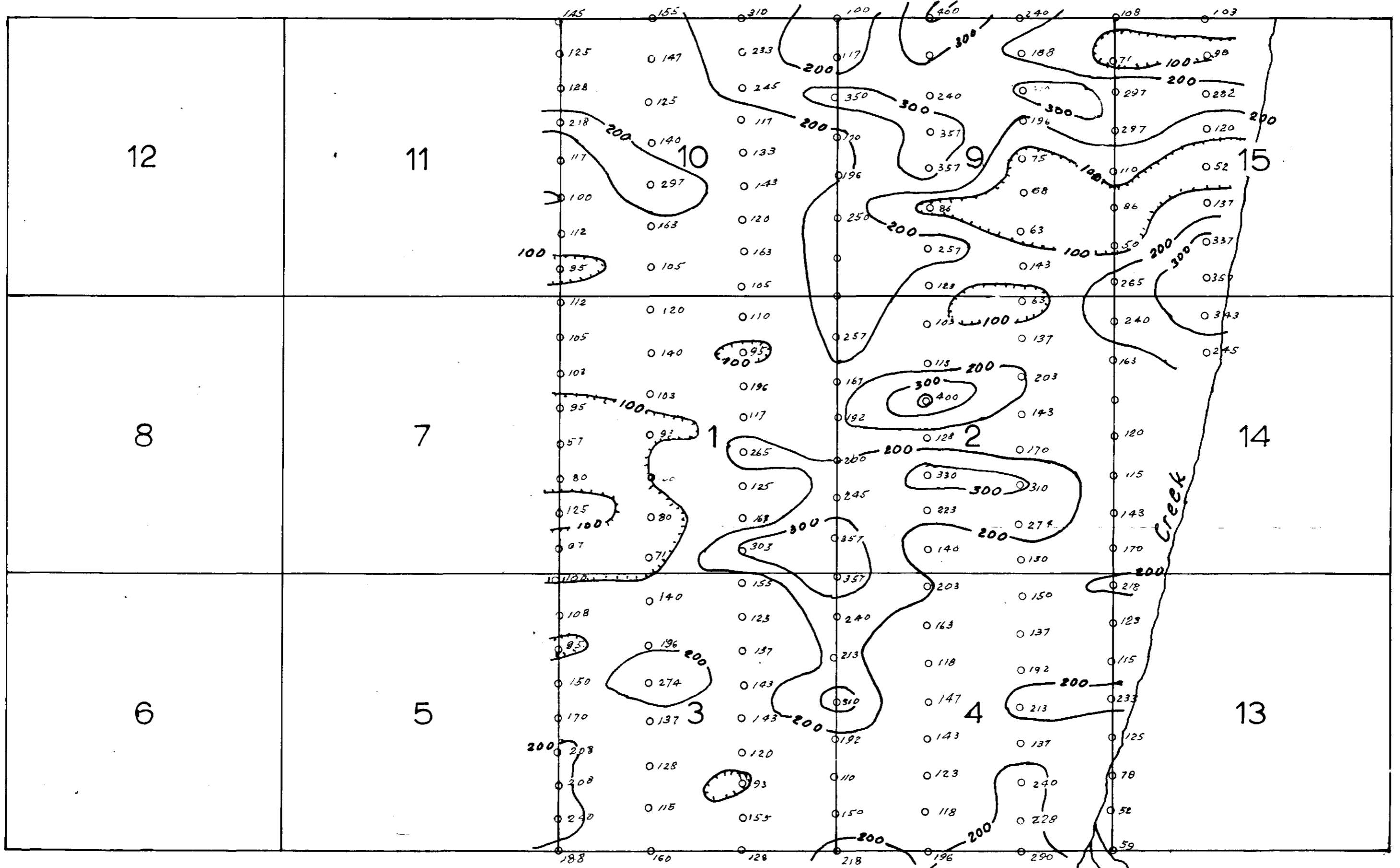


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PLATE NO 3
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 NO. 813 MAP # 12

M3

KENNCO EXPLORATIONS (WESTERN) LIMITED
 STONEY CREEK GROUP
 — GEOCHEMISTRY —
 p.p.m. Pb in Soils
 DATE: Aug 31, 66 DRAWN BY: H. E. N. PLATE NO: 3
 F.W.A. DATE SCALE: 1" = 500'



KENCO EXPLORATIONS (WESTERN) LIMITED
 STONEY CREEK GROUP "1"
 — GEOCHEMISTRY —
 p.p.m. Zn in Soils
 DATE Aug 31 - 66 DRAWN BY H. E. N. PLATE NO 4
 F.W.R. DATE SCALE
 1" = 500'

PLATE NO 4
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NO. 813 MAP # 12

(M4)

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