

1998

RECONNAISSANCE

GEOCHEMICAL REPORT

on a portion of the

BEA & GIANT CLAIMS

owned by

KELSO EXPLORATIONS LTD. (NPL)

Situated in the Hope area of B.C.

New Westminster M.D.

Lat. $49^{\circ} 25'$ N., Long. $121^{\circ} 28'$ W.

by

J. A. Mitchell, P. Eng.

Vancouver, British Columbia.

September 1969.

Survey Dates - July 14 - 17, 1969.

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Department of Mines and Petroleum Resources ASSESSMENT REPORT	
NO. <u>1998</u>	MAP

C E R T I F I C A T I O N

I, JAMES A. MITCHELL, of 2991 Mathers Avenue,
West Vancouver, British Columbia, do hereby certify that:

1. I am a graduate of the University of British Columbia,
1932, and hold the Degree of Bachelor of Applied Science
in Mining and have practised my profession since that time.
2. I am a registered Professional Engineer of the Province
of British Columbia.
3. This report is based on a Geochemical Survey made in
July, 1969 on the Eea & Giant Group Mineral Claims.
4. I have no interest directly or indirectly in the properties
or securities of Kelso Explorations Ltd. (N.P.L.), nor do
I intend to hold any such interest.


J. A. Mitchell, P. Eng.

West Vancouver,

British Columbia.

September 10, 1969. 

INTRODUCTION


The Bea & Giant Group of Mineral Claims are held by record by Kelso Explorations Ltd. (NPL), and form part of a contiguous block of claims lying some three miles north of the town of Hope, B.C. This survey was performed as part of a continuing program of exploration as recommended by the auth

GEOLOGY

The claim area is underlain by a batholith of diorite, granddiorite and granite of early Mesozoic age. The batholithic rocks have been further intruded by a broad belt of pyroxenites and hornblendites occurring in elongated north-south trending zones along contact areas. The ultrabasic intrusives have in turn been intruded by diorite and quartz diorite and accompanying dikes of felsite and andesite.

On the Giant Mascot Nickel Mine property to the west, nickel mineralization is found in masses of pyrrhotite in hornblendite. Pentlandite, associated with the pyrrhotite and minor chalcopyrite and other accessory minerals accounts for the nichel production from the mine.

PROPERTY

The Giant and Bea claims are located at approximately 49 25' N. latitude and 121 27' W. Longitude. The claim area borders the southeasterly side of the Giant Mascot Nickel mine property. Access to the claims area is by a network of logging roads which connect with the Trans Canada Highway north of Hope. However, travel other than along the old secondary roads is made difficult by the closely spaced young second growth and an abyndance of logging slash over a rather steep mountainside. 

The mineral claims comprising the Bea & Giant Group and their corresponding record numbers are as follows:

<u>Claim Names</u>	<u>Record Numbers</u>
Giant 2 - 29 inclusive	16088 - 16115 incl.
Bea 78, 80, 82 & 84	14759, 14761, 14763 & 14765.

PROCEDURE

Because this was a reconnaissance survey no attempt was made to grid the area. Rather the survey, being in an extremely rough terrain, existing roads were used as much as possible. But more than half the area traversed did not have road access. As a result of this progress was slow. Moreover much of the area was not suitable for soil sampling, hence stations were often far apart.

GEOCHEMICAL PROSPECTING

A soil profile is well developed and soil samples were collected at the top of the "B" soil horizon at each station location. Silt samples were taken from the bottom of the few streams and creeks that flow through the area. Samples were taken by use of a small auger to clear top level away and scoop the sample into soil sample bags as provided by T.S.L. laboratories. Samples were in general clear of organic matter.

Analysis

Soil analyses were made by T.S.L. Laboratories Ltd., 325 Howe Street, Vancouver 1, British Columbia.

Nickel and copper determinations were made on 54 silt and soil samples gathered from a portion of the Bea & Giant mineral claims. The samples were treated as follows at the T.S.L. Laboratories.

After receipt, the samples were sorted in numerical order, dried at 200 degrees fahrenheit and screened through a minus 80 mesh nylon screen. From the minus 80 portion a 1 gram was weighed. The organic material was burned off and the sample treated for one hour at 212 degrees fahrenheit with Hydrochloric acid.

After cooling the sample was brought to a certain volume and the copper content of this solution was measured by atomic absorption spectrophotometer (A.A.). The copper value in the soil sample was then calculated and reported in parts per million.

For determination of nickel it was digested 1:1 solution of HCl and heated. The solution was then diluted by water and measured by A.A. The nickel value in the soil was taken then and calculated in parts per million (P.P.M.).

Results

Nickel. No true anomalies were discovered but two highs considered to be in the anomalous ranger were obtained, one coinciding with a high copper and a high gravity reading. It is proposed to detail this area before deciding whether it can be called anomalous. Statistically any reading over 80 PPM was considered anomalous, and this sample ran 104 PPM. The other high ~~nickel~~ reading was 96 PPM and is in a difficult location about 6200 feet east of the other. It was not supported by any other geochemical or geophysical data.

Copper. Only one copper sample could be considered anomalous. This, as indicated above, coincided with the nickel high and ran 98 PPM in a background of copper readings of less than 55 PPM.

CONCLUSION

The high nickel and copper count at station 3 on line 2, supported as it is by a high gravity reading is of interest and will be further investigated by taking further samples at close intervals in the area and by some detailed geological mapping. If further encouragement is obtained it will probably be drilled.

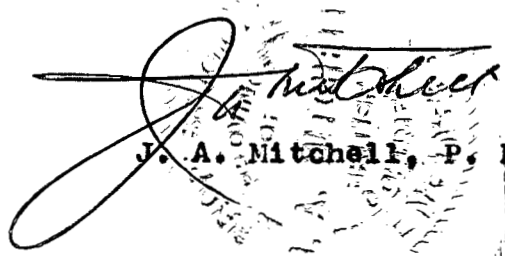
A handwritten signature in cursive script, appearing to be 'J. M.', is located in the lower right quadrant of the page. The signature is written in black ink and is somewhat stylized.

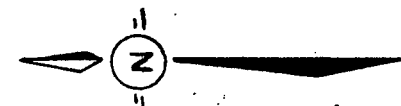
STATEMENT OF EXPENDITURE

The following is a cost breakdown of the Geochemical Prospecting on the Bea & Giant claims of Kelso Explorations Ltd. (N.P.L.)

<u>Item</u>	<u>Expenditure</u>
Wages - Project Supervisor @ 30.00/day	\$120.00
Assistant 25.00/day (Includes travelling to & from site)	100.00
Room & Board	35.00
Jeep employed in collecting samples	60.00
Geochemical analyses, 54 samples @ 1.85 each	99.50
	<hr/> 414.50
Report & Maps	100.00
	<hr/>
TOTAL	\$554.50
	<hr/> <hr/>

Vancouver, British Columbia,
September 1969.


 J. A. Mitchell, P. Eng.



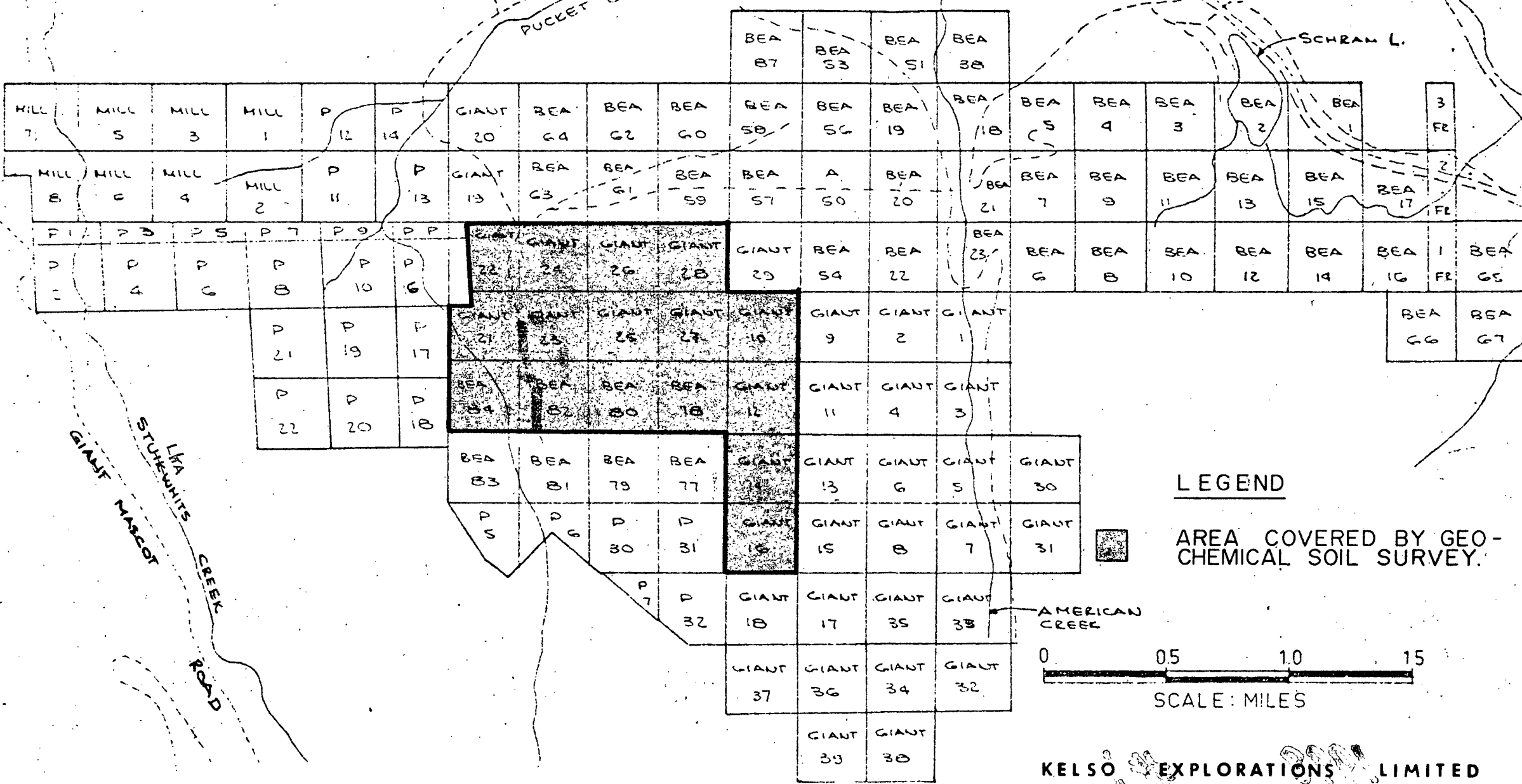
TRANS CANADA HWY (HWY NO. 1)

C.P.R.

FRASER RIVER

PUCKET CREEK

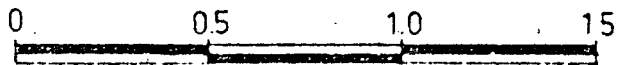
SCHRAM L.



LEGEND



AREA COVERED BY GEO-CHEMICAL SOIL SURVEY.



SCALE: MILES

KELSO EXPLORATIONS LIMITED

CLAIM LOCATION MAP

BEA & GIANT GROUPS

TO ACCOMPANY REPORT BY J. A. MITCHELL, P. ENG.

DRAWN BY: E. J. BOLDT, C. E. T.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **1998** MAP **#1**

T
S
L

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM *KELSO EXPLORATIONS*

REPORT NO.
6205-1

SAMPLE(S) OF *SOIL*

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	LINE 1 SPL 1	14				34		
2	L-1 S-2	22				65		
3	L-1 S-3	36				40		
4	L-1 S-4	15				19		
5	L-2 S-1	48				41		
6	L-2 S-2	45				76		
7	L-2 S-3	98				104		
8	L-2 S-3a	5				12		
9	L-2 S-4	27				40		
0	L-2 S-5	33				54		
1	L-2 S-6	18				46		
2	L-2 S-7	10				26		
3	L-2 SILT SAMPLE 1	26				53		
4	L-3 S-1	52				76		
5	L-3 S-2	37				70		
6	L-3 S-3	46				58		
7	L-3 S-4	17				47		
8	L-3 S-5	28				55		
9	L-3 SILT SAMPLE 1	18				47		
0	LINE 4 S-1	24				38		

DATE July 22, 1969

SIGNED R. B. Hitchcock

N.B. Samples discarded after 3 months unless otherwise requested.



T
S
L

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM *KELSO EXPLORATIONS*

REPORT NO.
V 6205-2

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

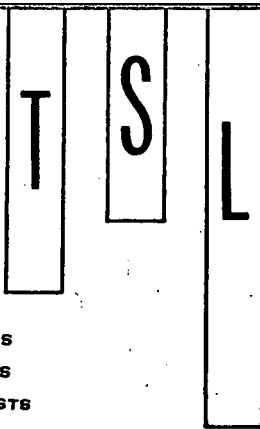
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	L-4 S-2	12				16		
2	L-4 S-3	26				41		
3	L-4 S-4	10				22		
4	L-4 PUCKET CR. (UPPER) SILT SAMPLE	28				61		
5	LINE 4 SILT SAMPLE 2	13				41		
6	LINE 5 S-1	45				46		
7	LINE 5 S-2	53				27		
8	L-5 S-3	16				26		
9	L-5 S-4	23				41		
0	L-5 S-5	24				37		
1	L-5 S-6	29				47		
2	L-5 S-7	23				96 ✓		
3	L-5 S-8	32				62		
4	LINE 6 SAMPLE 1	9				53		
5	L-6 S-2	33				72		
6	L-6 S-3	38				19		
7	L-6 S-4	6				44		
8	L-6 S-5	8				47		
9	L-6 S-6	23				8		
0	L-6 S-7	34				19		

DATE July 22, 1969

SIGNED R. B. Fletcher

N.B. Samples discarded after 3 months unless otherwise requested.





Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM *KELSO EXPLORATIONS*

REPORT NO.
V6205-3

SAMPLE(S) OF *S OIL*

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	<i>L-6 S-8</i>	<i>25</i>				<i>46</i>		
2	<i>L-6 S-9</i>	<i>5</i>				<i>5</i>		
3	<i>L-6 S-10</i>	<i>51</i>				<i>81</i>		
4	<i>A, CREEK SOIL BELOW LOGGING ROAD</i>	<i>39</i>				<i>68</i>		
5	<i>PUCKET CR A SILT SAMPLE</i>	<i>21</i>				<i>61</i>		
6	<i>PUCKET CR A SOIL SAMPLE</i>	<i>21</i>				<i>58</i>		
7	<i>PUCKET CR SILT SAMPLE 1</i>	<i>22</i>				<i>41</i>		
8	<i>PUCKET CR LINE 3 S-6</i>	<i>26</i>				<i>30</i>		
9	<i>POST 1 BEA 77+78 FP #1</i>	<i>17</i>				<i>26</i>		
0	<i>LINE 1 200' N POST 1 #2</i>	<i>17</i>				<i>34</i>		
1	<i>1500 FT. NORTH OF POST #3</i>	<i>21</i>				<i>62</i>		
2	<i>NORTH 3200 FT. FROM POST #4</i>	<i>13</i>				<i>36</i>		
3	<i>4300 NORTH OF POST #5</i>	<i>19</i>				<i>66</i>		
4	<i>INTERSECTION OF MILL CREEK ROAD AND ROAD TO BEA-B3, BY LINE #6</i>	<i>18</i>				<i>20</i>		
5								
6								
7								
8								
9								
0								

BY HOT HCl—ACID EXTRACTION

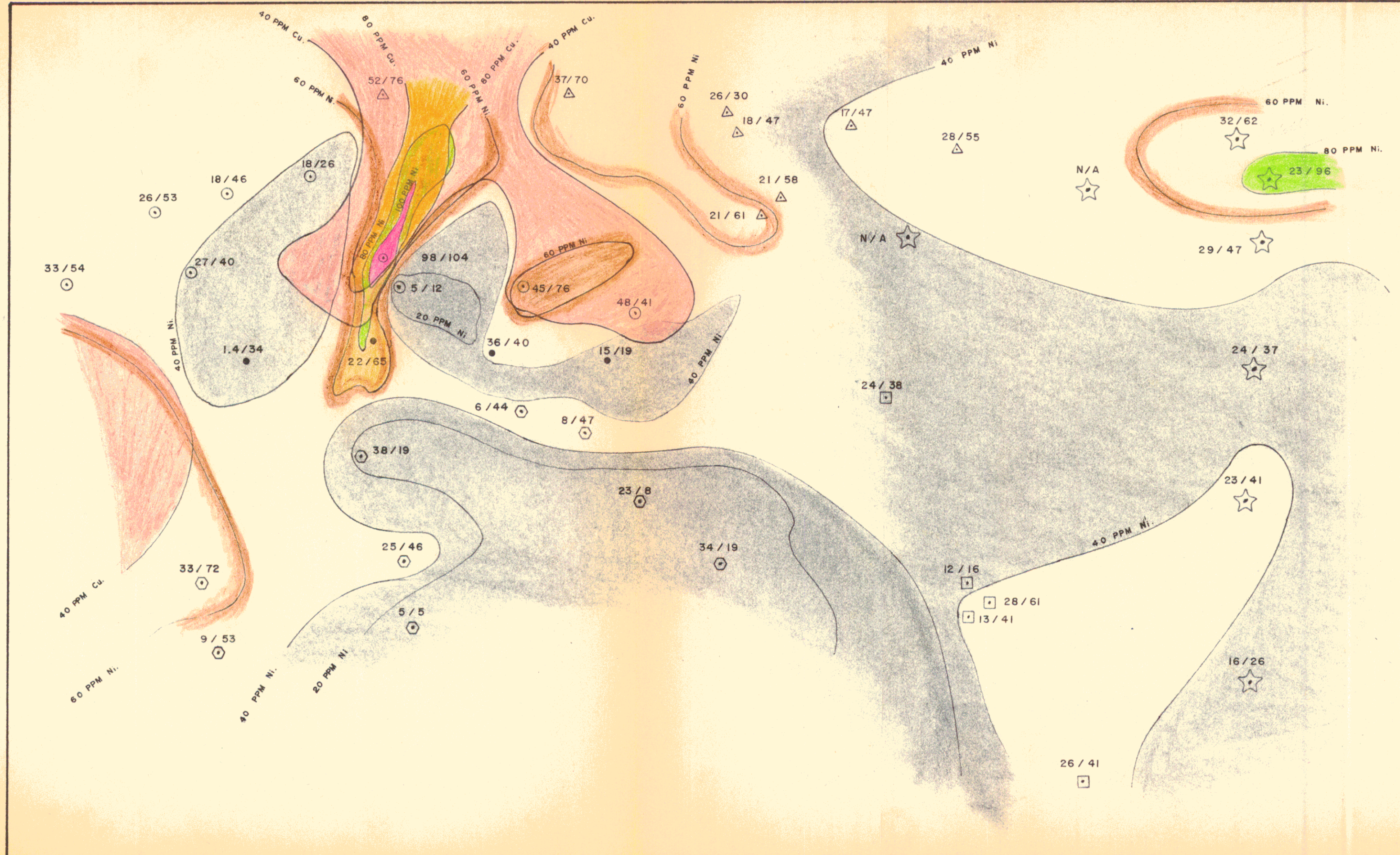
DETERMINED BY A.A.

DATE *July 22, 1969*

SIGNED *R.B. Glitcher*

N.B. Samples discarded after 3 months unless otherwise requested.



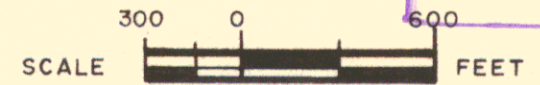


LEGEND

98/104		Cu. / Ni. VALUES IN PPM RESPECTIVELY			
SAMPLE	LOCATION	ALONG	LINE	No.1.	
●	"	"	"	No.2.	
○	"	"	"	No.3.	
△	"	"	"	No.4.	
□	"	"	"	No.5.	
☆	"	"	"	No.6.	

Orange	>	80	PPM	Cu
Light Orange	-	40 - 80	PPM	Cu
White	<	40	PPM	Cu
Pink	>	100	PPM	Ni
Green	-	80 - 100	PPM	Ni
Light Green	-	40 - 80	PPM	Ni
Grey	<	40	PPM	Ni

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **1998** MAP #2



1998

KELSO EXPLORATIONS LIMITED
GEOCHEMICAL SOIL SURVEY
BEA & GIANT GROUPS
TO ACCOMPANY REPORT BY J. A. MITCHELL, P. ENG.
DRAWN BY: E. J. BOLDT, C. E. T.