

GEOCHEMICAL SURVEY  
OF THE  
MAR 11, 12 & 13 CLAIMS  
OMINECA MINING DIVISION  
BRITISH COLUMBIA  
N.T.S. 93-F/11W & 12E  
53°37'N, 125°30'W

OWNER: GUYTON EXPLORCO LTD.  
OPERATOR: SELCO INC.  
AUTHOR: C.M. REBAGLIATI

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,549**

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### Summary And Conclusions

In the MAR claim area 2475 hectares have now been extensively covered by conventional prospecting and soil geochemistry. Mixed results have been obtained. Over a large region intermittent zones of hydrothermal alteration are evidenced by argillization, minor quartz-chalcedony veining and stockwork development with minor sulphide accumulations. These zones of alteration are only slightly enriched in gold, arsenic and/or mercury, in the range of 10ppb, 50ppm and 100 ppb respectively. A notable exception occurs on the western boundary of MAR 11, where mercury ranges from 160 to 4600ppb across a 10m wide interval of manganese oxide stained, weakly argillized rhyolite lying beside a north striking fault. Gold concentrations associated with the enhanced mercury are only slightly elevated, being in the 5 to 20ppb range with little arsenic.

Soil geochemistry also returned a few isolated one sample highs, but without developing what could be considered as a worthwhile exploration target.

Neither rock nor soil samples indicate a significant source of gold or associated metals. Only drill testing would determine if the argillization, chalcedonic quartz veining and mercury enrichment are a high level expression of an underlying precious metal deposit. However, the lack of gold mineralization or multi-element anomalies of associated metals in rocks and soils make the MAR claims a high risk-low potential situation.

Recommendations

Work undertaken in 1983 should be filed for assessment credit, and the region around the MAR claims monitored for new developments which may add a new perspective to the geological setting.

Introduction

This report describes the results of a soil geochemical survey over the MAR 11, 12 & 13 claims, Omineco Mining Division, carried out during the period of August 3-16 inclusive 1983. The claims are situated approximately 70km south of Burns Lake, B.C. on the north shore of Intata Reach of the Ootsa Lake reservoir, N.T.S. 93-F/11W,12E.

CLAIM DATA      MAR - GROUP 2

<u>Claim</u>	<u>Staking Date</u>	<u>Recording Date</u>	<u>Record No.</u>	<u>No. of Units</u>
MAR11	August 16, 1980	September 9, 1980	3202	9
MAR12	July 18, 1983	August 12, 1983	5524	15
MAR13	July 17, 1983	August 12, 1983	5525	9

Access to the claims is excellent, gained by means of a well maintained network of logging roads which cut through the claims.

Relief over the claims is moderate, with elevations ranging between 870m to 1170m.

The claims are a patchwork of clear-cut logging sites in various stages of regrowth, immature and mature stands of spruce, fir and Jack Pine with small lakes and swamps occupying valley bottoms.

GEOLOGY

The MAR claims are predominatly underlain by Late Cretaceous -

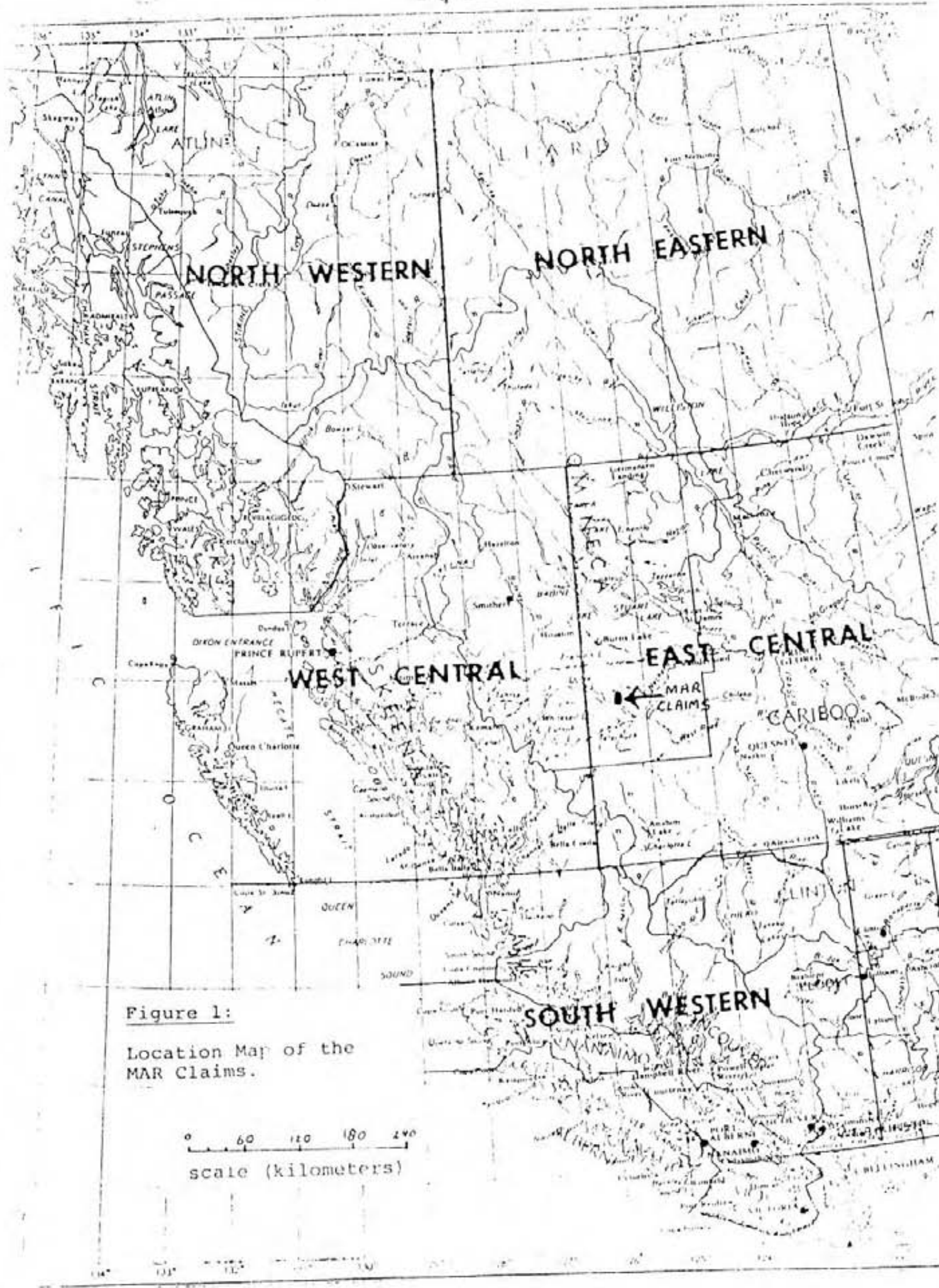


Figure 1:  
 Location Map of the  
 MAR Claims.

0 60 120 180 240  
 scale (kilometers)

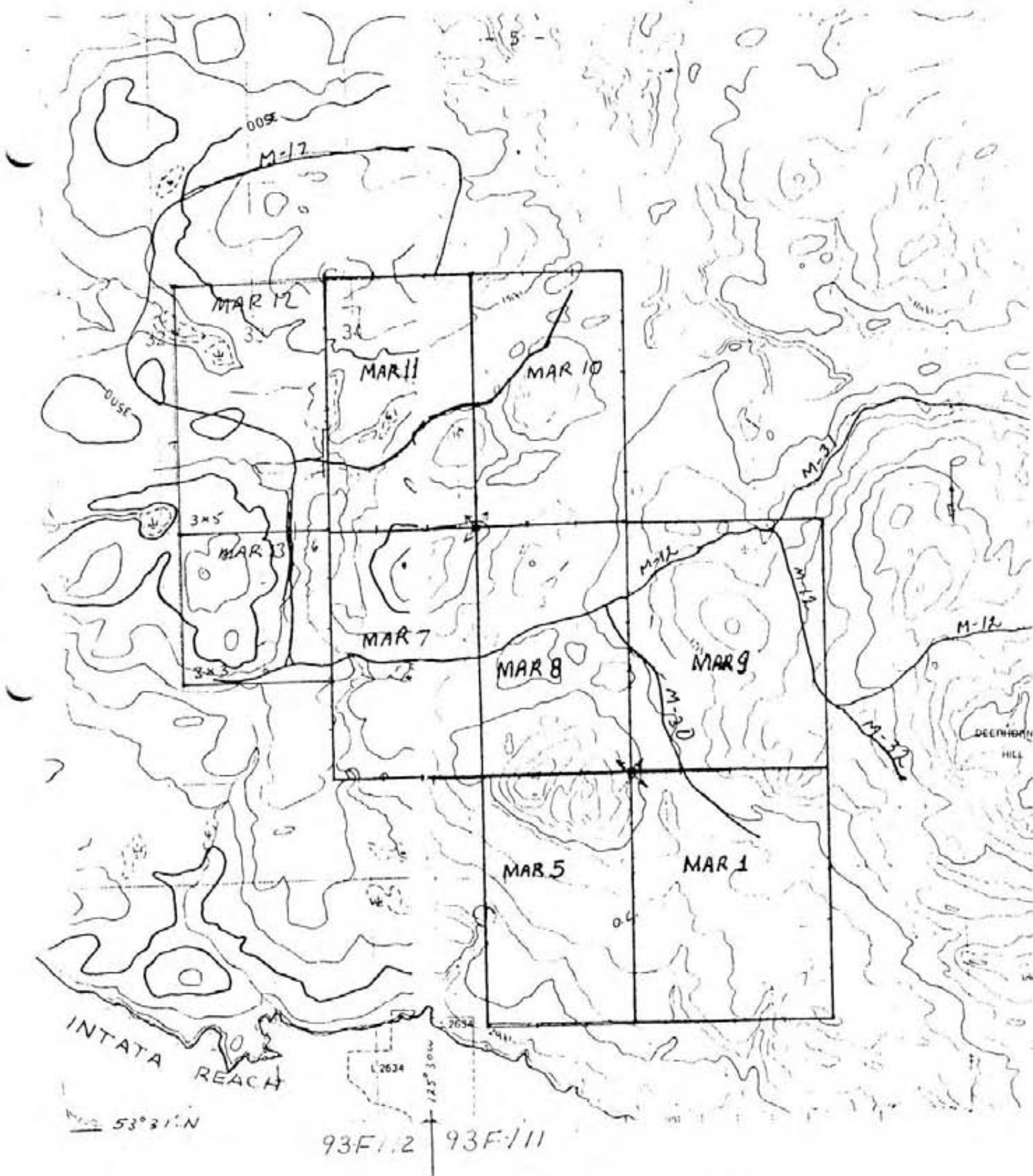
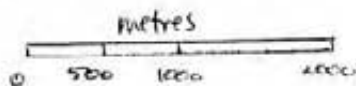


Figure 2: Topographic Map of the MAR Claims. (scale 1:50000)





Early Tertiary acid to intermediate volcanic and volcanoclastic rocks of the Ootsa Lake Group. Underlying the Ootsa volcanics are Upper Triassic Takla Group flows, tuffs and breccias with interbedded argillite and minor limestone. Overlying the Ootsa Lake Group are andesite and basalt flows of the Miocene Endako Group.

A detailed description of property geology was included in J. Ireland's Assessment Report filed September 8, 1981.

#### Soil Geochemical Survey

The soil survey was undertaken to test areas for their precious metal potential where earlier reconnaissance soil surveys had indicated enhanced gold values or where high mercury concentrations were found in outcrop.

A total of 328 soil samples were collected from the claim area, of these 220 came from within the claim boundaries. Arsenic, silver and zinc concentrations were determined using atomic absorption methods. Gold was determined by combined fire assay and atomic absorption. Samples were collected from the reddish brown "B" soil horizon on a 200 x 200m sample spacing on the MAR 12 & 13 claims, and on a 100 x 200m grid spacing on the northern end of the MAR 11 claim.

The geochemical survey did not identify any coherent single or multi-element anomalies. Background levels are low, and show

little contrast. No significant co-relation exists between samples with slightly enhanced concentrations of individual metals. Only a slight increase in the arsenic content north of MAR 11 is apparent.

Two conclusions can be drawn from the geochemical survey; no significant mineralization exists; or adverse soil-overburden conditions, such as clay beds and reworked till, effectively mask all geochemical evidence of buried mineralization.

Expenditures

Sam Zastavnikovich	Contract soil sampling	\$4,063.50
Chemex Labs Ltd.	Analyses	<u>3,808.05</u>
		\$7,871.58

Of the 328 soil samples collected 220 were from within the claim boundaries.

$220 \times 7871.58 \div 328 =$	\$5,279.72
Draughting and report preparation	<u>450.00</u>
	\$5,729.72

References

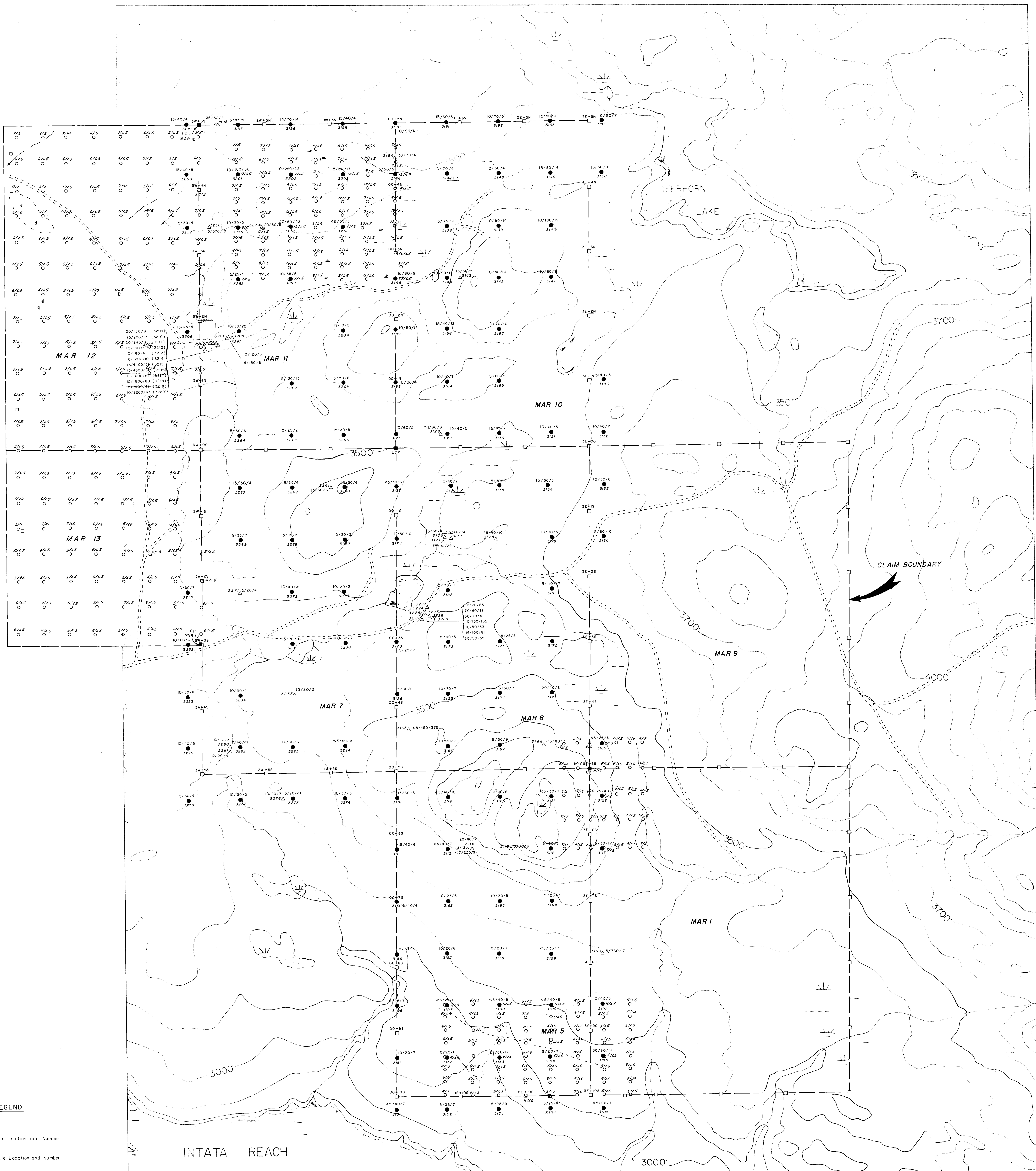
1. J.C. Ireland (1980)

Geological and Geochemical Survey  
of the MAR Claims, Omineca Mining  
Division, N.T.S. 93-F/11, 12.  
(filed for assessment credits  
Sept. 9, 1981.)

CERTIFICATE

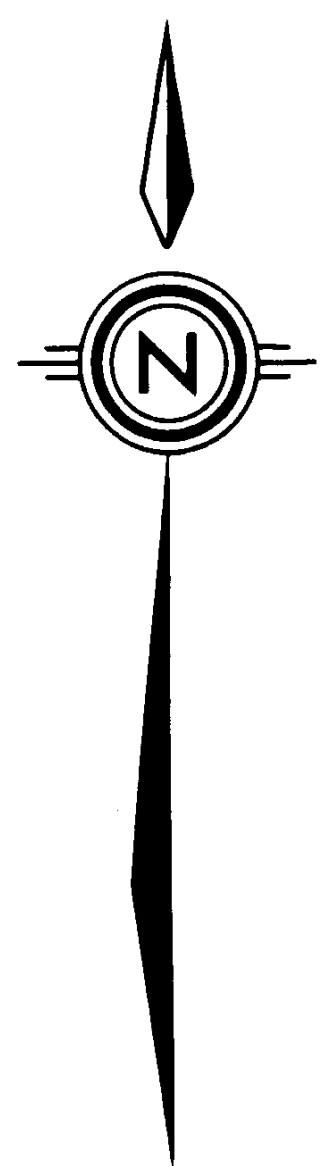
I, C.M. Rebagliati of Vancouver, B.C. certify that:

1. I am a practicing Geological Engineer and have been engaged in mineral exploration for the past 19 years.
2. I am a member of the Association of Professional Engineers of the Province of British Columbia with registration number 8352.
3. I supervised the work carried out on the MAR - Group 2 Claims in August, 1983.



**LEGEND**

- Soil Sample Location and Number
- ▲ Rock Sample Location and Number
- 5/25/5 Au(ppb)/Hg(ppb)/As(ppm) Geochemical Values
- 1983 Soil Sample Location and Geochemical Values  
As ppm / Au ppb



Scale 1:10,000

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

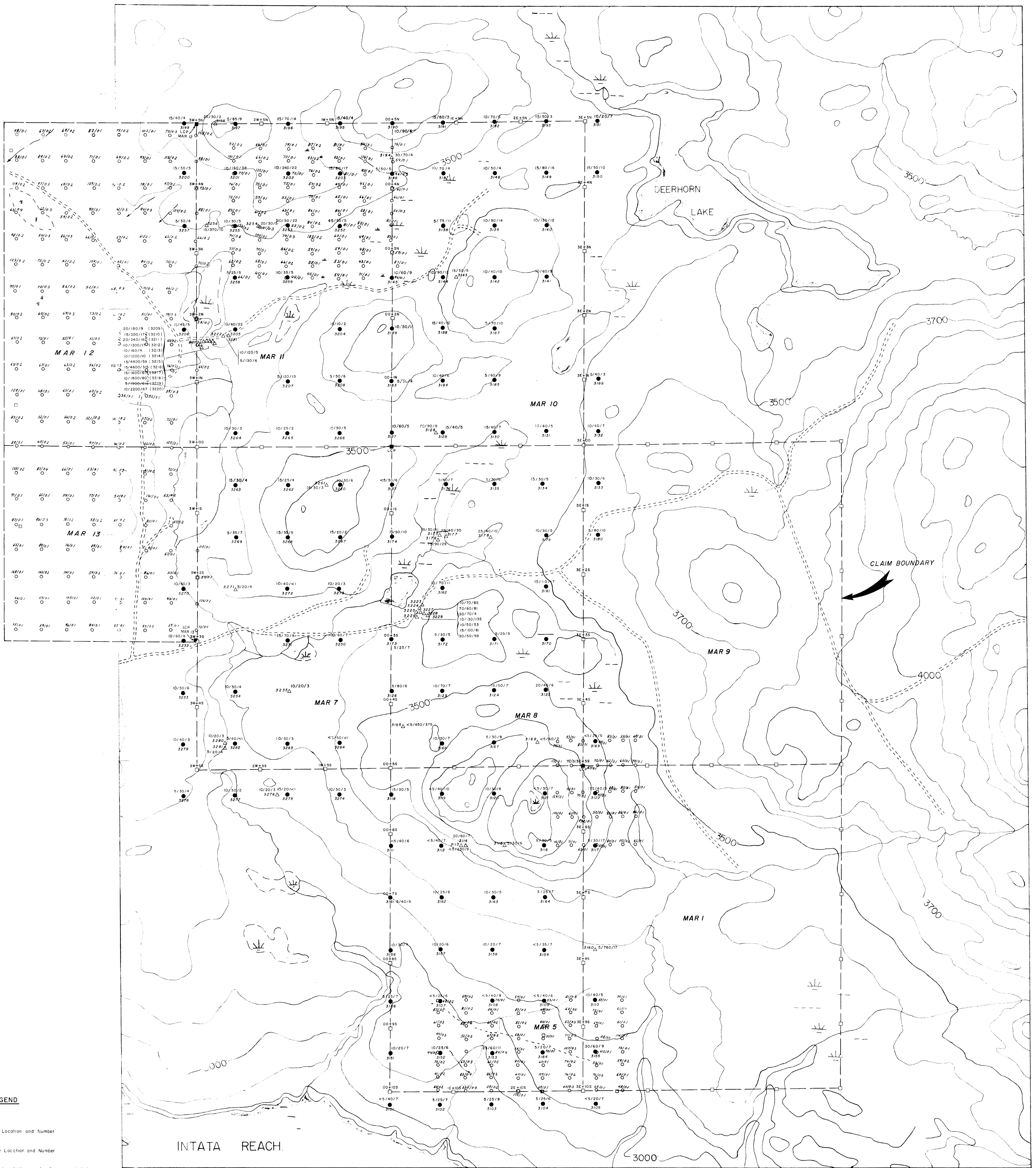
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**SELCO INC.** EXPLORATION  
WESTERN CANADA

**MAR GROUP  
GEOCHEMISTRY**

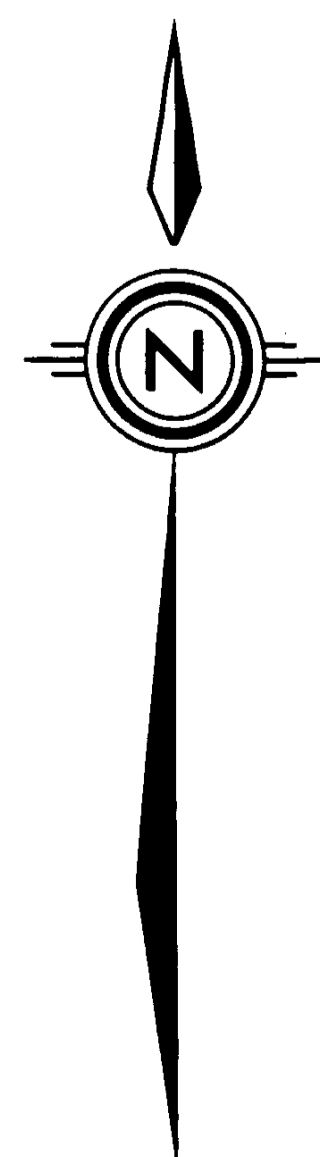
Au(ppb)/Hg(ppb)/As(ppm)

DRAWN BY K.W.H.	DATE APR 1981/AUG 1983	N.T.S.	PLAN 3
TRACED BY J.I.H.M.C.	DATE	93F/IE, 8121	



**LEGEND**

- Soil Sample Location and Number
- ▲ Rock Sample Location and Number
- 5/25/5 Au(ppb)/Hg(ppb)/As(ppm) Geochemical Values
- 1983/2 Soil Sample Location and Geochemical Values  
Zn ppm / Ag ppm



Scale 1:10,000

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WESTERN CANADA

**MAR GROUP  
GEOCHEMISTRY**

Au(ppb)/Hg(ppb)/As(ppm)  
Zn(ppm)

DRAWN BY K.W.H.	DATE APR 1981/AUG 1983	N.T.S.	PLAN
TRACED BY J.I., H.M.C.	DATE	93 F/IE, 8121	4