



**BRITISH COLUMBIA  
REGIONAL GEOCHEMICAL SURVEY (RGS) RELEASE  
PRELIMINARY RESULTS  
(93G/E1/2, 93H/W1/2, plus parts of 93H/E1/2)**

By E. L. Faulkner

**INTRODUCTION**

Data from the joint Canada/British Columbia reconnaissance Regional Geochemical Survey completed in the summer of 1984 were released at 0830 hours PDT on 27th June 1985 in Prince George, Vancouver, and Victoria as province of British Columbia open file BC-RGS-12-1984 and Geological Survey of Canada Open File 1107.

The survey covers approximately 14 800 square kilometres with an average sample density of one sample per 13 square kilometres. Stream sediment samples were analysed for zinc, copper, lead, nickel, cobalt, silver, manganese, arsenic, molybdenum, iron, mercury, uranium, vanadium, cadmium, antimony, tungsten, barium, and loss-on-ignition. Stream waters were analysed for uranium, fluorine, and pH.

Each open file package contains a sample location map, British Columbia Ministry of Energy, Mines and Petroleum Resources Mineral Inventory Maps, 21 geochemical maps, and a text of field, analytical, and statistical data. Packages are available at a cost of \$50.00 each from: *Publications Distribution, 552 Michigan Street, Victoria, B.C. V8V 1X4.*

Information in this year's release, which was not available in the 1984 release, includes analyses for vanadium, cadmium, barium, and loss-on-ignition, the Mineral Inventory maps, surficial geological information, and histograms and regional trend maps for each element.

**RESULTS**

Number of packages sold:	
Prince George .....	17
Vancouver .....	20
Victoria .....	3
TOTAL .....	40

An additional 19 packages were sold after the release date for a total of 59 to October 8, 1985.

A count of mineral claims in good standing in the release area (excluding Crown-granted leases) was made before the field season, the day before the release, and after the field season. The results are as follows:

Date:	26 April 1985	26 June 1985	8 October 1985
Claim units:	5685	5853	6924
2-post claims:	326	346	432

There was only modest staking prior to the release (168 claim units and twenty 2 post claims) but a total of 1 071 claim units and eighty-six 2 post claims were staked on or after the release date.

Three areas accounted for much of the activity:

- (1) 93G/7E and 93G/8 — this is a much faulted area of the Quesnel Trough southwest of Hixon with a number of coincident high contrast antimony, arsenic, and mercury anomalies.
- (2) 93H/3W and 93H/12E — these two areas are both in the Bowron River valley on the faulted eastern edge of the Slide Mountain terrane. They show coincident high contrast barium anomalies and moderate contrast mercury anomalies with some spot high arsenic values.

**COMMENTS**

- (1) The inclusion of histograms and regional trend maps in this release was particularly well received.
- (2) The addition of barium to the list of elements analysed led to significant staking in two areas.
- (3) The turnout on the release date was below average but the activity generated was much higher than anticipated. This was especially so as the area includes a major urban centre, is almost entirely accessible by vehicle, and has been well prospected and heavily staked in the past.
- (4) This release also generated interest that is not reflected in the preceding figures; there was a moderate amount of 'anticipation' or 'pre-emptive' staking in the area during the 1984 field season. One major company and two juniors indicated that announcement of the Regional Geochemical Survey was a factor in the staking and location of their 1984 field programs.
- (5) Although it is too early to assess the results of this year's staking, one major company traced an anomalous area to mineralization in place.

British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1985, Paper 1986-1.

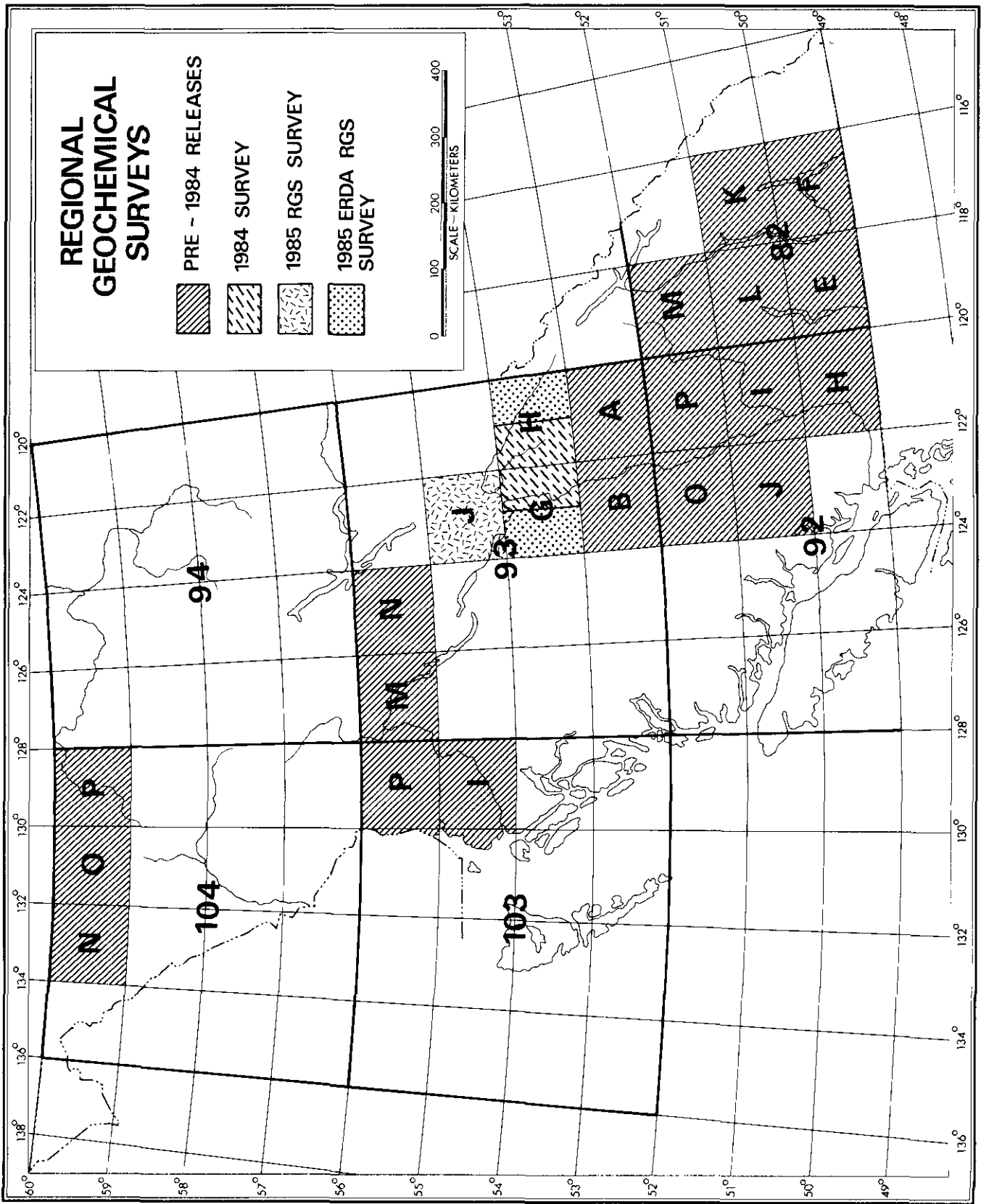


Figure 15-1. Location map for regional geochemical surveys carried out in British Columbia.