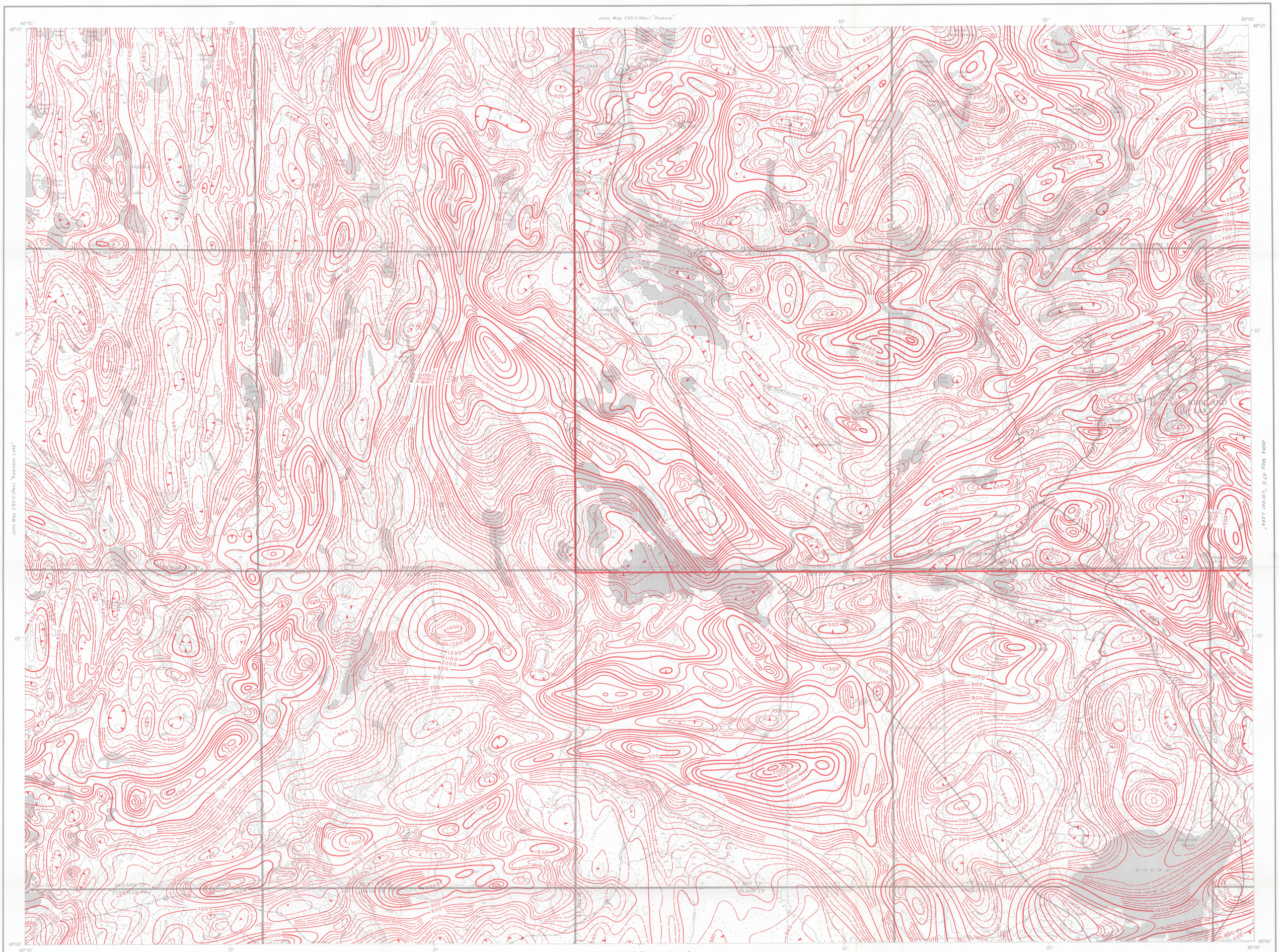
PROVINCE
OF
ONTARIO
DEPARTMENT OF MINES

DEPARTMENT
OF
ENERGY, MINES AND RESOURCES
GEOLOGICAL SURVEY OF CANADA

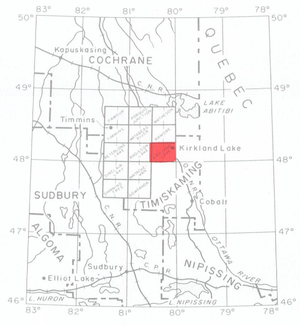
AEROMAGNETIC SERIES

SHEET 42 A/1



Published , 1970

INDEX MAP



Scale, 1 inch to 100 miles

ISOMAGNETIC LINES (total field)

500 gammas
100 gammas
20 gammas
10 gammas
Magnetic depression

Flight altitude 500 feet above ground level

MAP 289 G (Rev.)

KIRKLAND LAKE

TIMISKAMING DISTRICT

ONTARIO

Scale: One Inch to One Mile = $\frac{1}{63,360}$

Miles

1 1/2 0 1 2 3

The Department of Energy, Mines and Resources is indebted to the NEW JERSEY ZINC EXPLORATION CO. LTD. for permission to publish these data which were produced by the DOMINION GULF CO., TORONTO, from information recorded during the course of their surveys in 1947, 1948, and 1949.

No correction has been made for regional variation.

The topography for this map was reproduced from 1:50,000 topographical map sheets, published by the Department of Energy, Mines and Resources, Ottawa.

Drafting and Reproduction by International Mapping Services Limited, Toronto.

The magnetic data on this map were compiled from information recorded along the flight lines shown. The anomalies expressed by the magnetic contours are dependent on the variable magnetic intensities of the underlying rocks, and may be due to conditions near, or at unknown depths below the surface. High magnetic anomalies normally indicate the presence of basic rocks, such as diabase, gabbro, or serpentinite, which have a relatively high iron content, but in special instances may be due, or partly due, to concentrations of magnetic minerals. By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced into, or across, areas of few or no outcrops. In many instances, however, no interpretation of particular anomalies may be possible without further geological information.

GEOPHYSICS PAPER 289 (Rev.)

KIRKLAND LAKE

ONTARIO

SHEET 42 A/1