

45° 25'

#### DESCRIPTIVE NOTES

This map is derived from total field data recorded during aeromagnetic survey operations by a self-orienting rubidium-vapour magnetometer which was installed in the tail stinger of a Beechcraft B80 Queenair aircraft. The data was digitally-recorded with a resolution of 0.02 gammas. A second boom mounted above the tail stinger at a distance of 2.08 metres forms a vertical gradiometer system.

Flight altitude was 500 feet above ground at 1000 feet average. Flight line spacing and double control lines were flown at an average spacing of 4 miles.

The data was edited, compiled, levelled and gradient values for contouring interpolated on a square grid (0.1" grid spacing at the published map scale) by automatic computer processes.

A two dimensional 177 point spatial operator was applied to the gridded high sensitivity total field data to derive the calculated vertical gradient map.

The final grid was contoured and plotted using the automatic contouring program and digital plotter facilities of the Department of Energy, Mines and Resources, Computer Science Centre.

Airborne survey was carried out in April 1975 and digital compilation by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The Queenair aircraft of the Geological Survey of Canada was flown under contract to Kenting Earth Sciences Ltd.

The photo and map base for this map was compiled by Surveys and Mapping Branch, Department of Energy, Mines and Resources.

#### EQUIPOTENTIAL LINES (vertical gradient field)

.5 gammas/meter .....

.1 gammas/meter .....

.025 gammas/meter (above 0.0) .....

.025 gammas/meter (below 0.0) .....

Magnetic depression .....

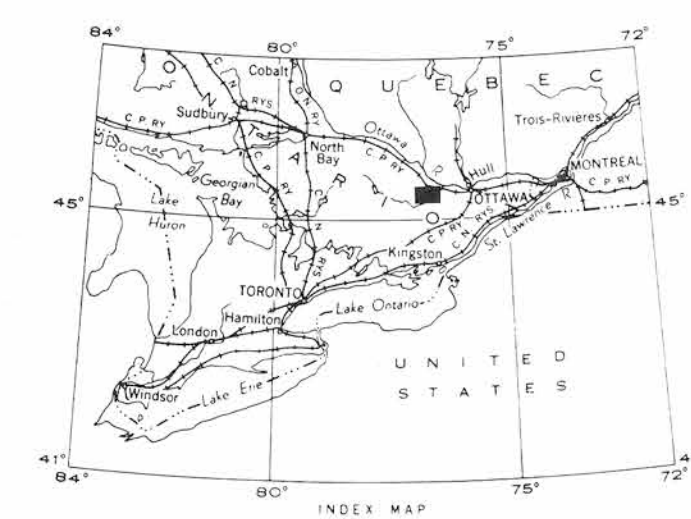
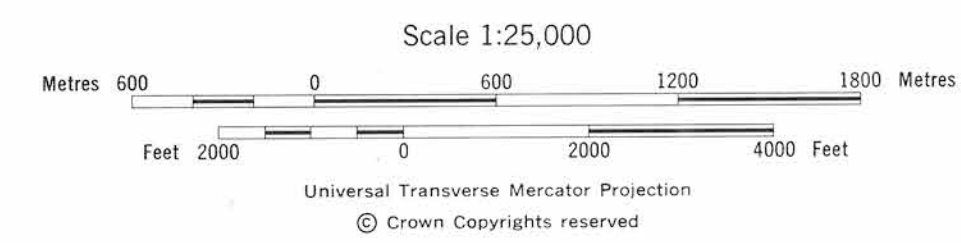
Flight altitude: 500 feet above ground level

Contour interval: .1 gammas/meter

Intermediate contour interval between +/-1.0 gammas/meter  
:0.025 gammas/meter



## PART OF 31F/7 ONTARIO CALCULATED VERTICAL GRADIENT



OPEN FILE  
DOSSIER PUBLIC  
339  
APRIL 1976  
GEOLOGICAL SURVEY  
COMMISSION GÉOLOGIQUE  
OTTAWA

76° 40'

45° 15'  
76° 30'