

45° 25'

DESCRIPTIVE NOTES

This map is based on in-flight digitally recorded high sensitivity aeromagnetic data obtained with two self-orienting Rubidium vapour magnetometers installed in twin tail booms inboard a Beechcraft 880 aircraft. The magnetometer heads are separated by a distance of 2.08 metres with each measuring the total magnetic field to a resolution of 0.02 gammas.

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.

The vertical gradient data was filtered with a digital operator to remove noise spikes and instrument hash. The vertical gradient data from the tie lines was not used to compile the map, instead each line was individually adjusted as required.

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

GEOLOGICAL SURVEY OF CANADA



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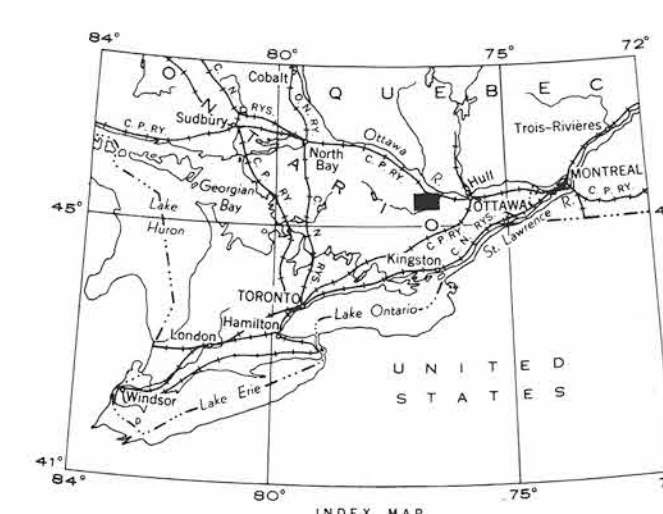
DEPARTMENT OF ENERGY, MINES AND RESOURCES
 MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

PART OF 31 F/7
 ONTARIO
 VERTICAL GRADIENT

Scale 1:25,000

Metres 600 0 600 1200 1800 Metres
 Feet 2000 0 2000 4000 Feet

Universal Transverse Mercator Projection
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 GEOLOGICAL SURVEY
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 OTTAWA

76° 40'

76° 45' 15"
76° 30'