DESCRIPTIVE NOTES

This map was compiled from digitally-recorded aeromagnetic survey data obtained using an inboard rubidium vapour magnetometer which measured the total field with a resolution of 0.02 gamma. Flight altitude was 150 m above ground at 300 m average flight line spacing. Double control lines were flown at an average spacing of 7.5 kilometers.

The data was edited, compiled, levelled and gamma values for contouring interpolated on a square grid (0.25 cm grid spacing at published map scale) by computer processes.

The levelling process employed the two components of the double control line and the short segments of traverse which connected them where they were not exactly coincident. This data was used to minimize and distribute non-geological contributions from the total magnetic field profile along the control line. The corrected control lines were used to level the traverse lines by a method of minimal sum-total adjustment.

The final data grid was contoured and plotted using the automatic contouring program and digital plotting facilities of Dataplotting Services Ltd., Toronto.

Airborne survey and digital compilation was carried out by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The survey operations took place in August 1978 using Beechcraft Queenair 65-B80 aircraft C-FWZG.

No correction has been made for the regional gradient of the earth's magnetic field.

The survey data used to compile this map is available in digital form from the Geological Survey of Canada at the cost of retrieval and copying.

ISOMAGNETIC LINES (absolute total field)

250 gammas.....

50 gammas.....

10-20 gammas.....

2 gammas.....

(1 gamma = 1 nanotesla in SI units)

Magnetic depression.....

Flight lines.....

Flight altitude: 150 m above ground level

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

PART OF 52 L/4f, g
MANITOBA
TOTAL MAGNETIC FIELD

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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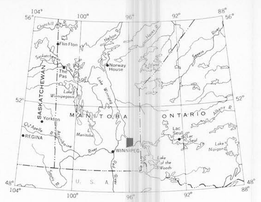

INDEX MAP

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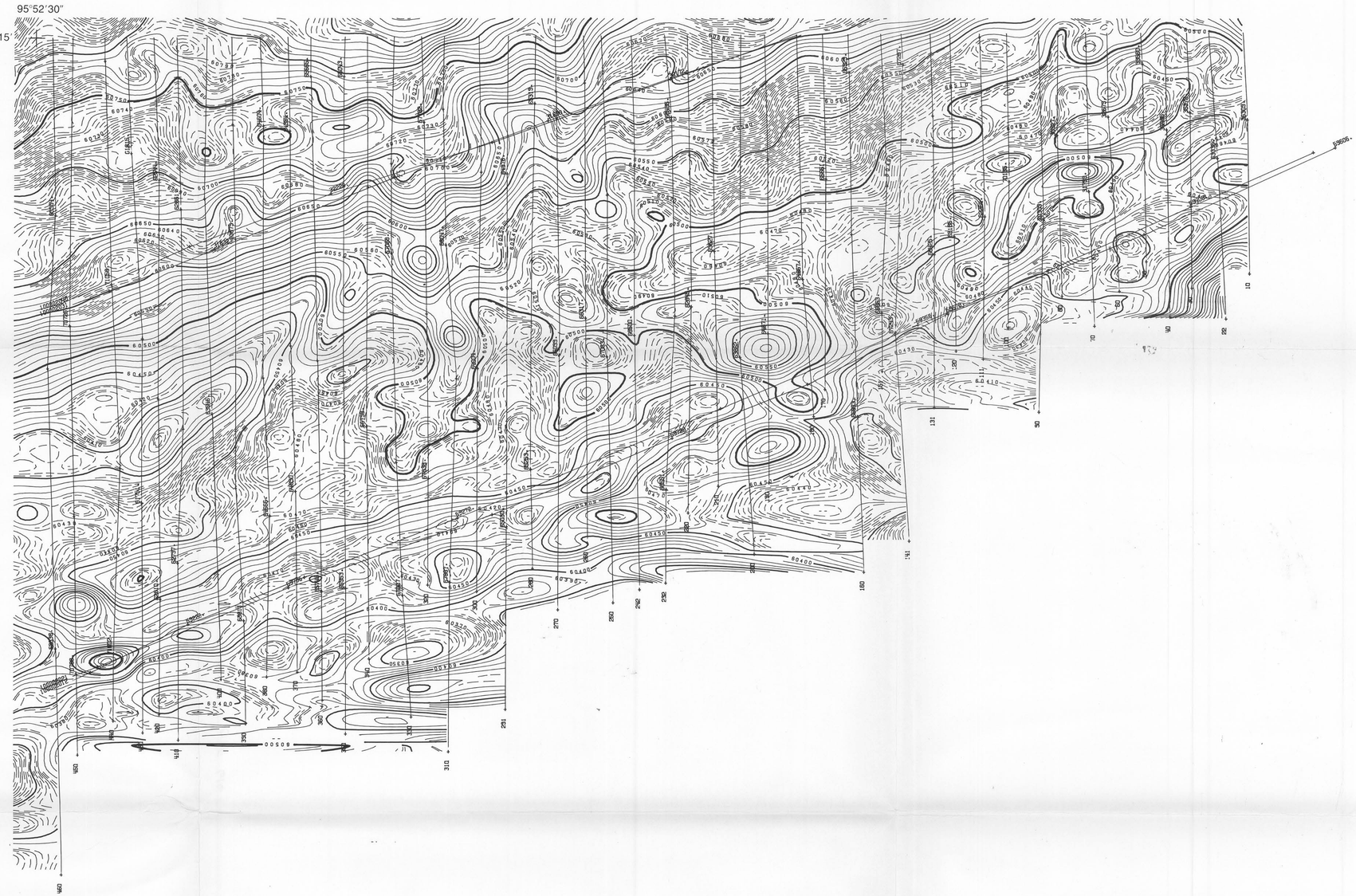
DOSSIER PUBLIC
616
JULY 1979
GEOLOGICAL SURVEY
COMMISSION GEOLOGIQUE
OTTAWA



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