

DESCRIPTIVE NOTES FOR TOTAL FIELD MAPS

This map was compiled from digitally-recorded aeromagnetic survey data obtained using an inboard cesium vapour magnetometer which measured the total field with a resolution of 0.005 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 1:25,000 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 final data grid was contoured and plotted at 1:20,000 scale using the automatic contouring program and digital plotting facilities of Dataplotting Services Limited, 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 May and June 1981 using Beechcraft Queenair 65-B80 aircraft C-FWZG.

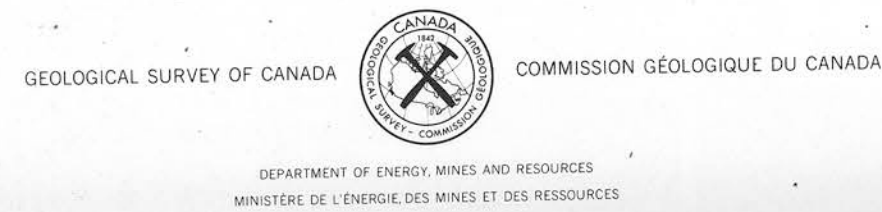
No correction has been made for the regional gradient of the earth's magnetic field.

The survey data used to compile this map is available in digital form from the Geological Survey of Canada on a cost recovery basis.

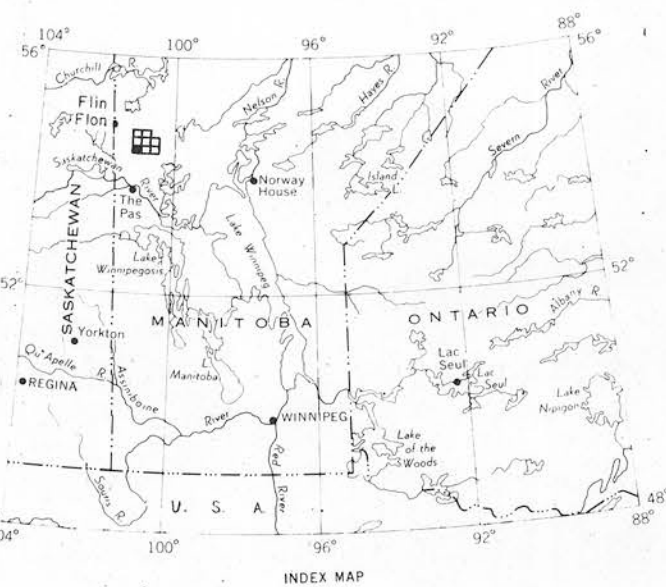
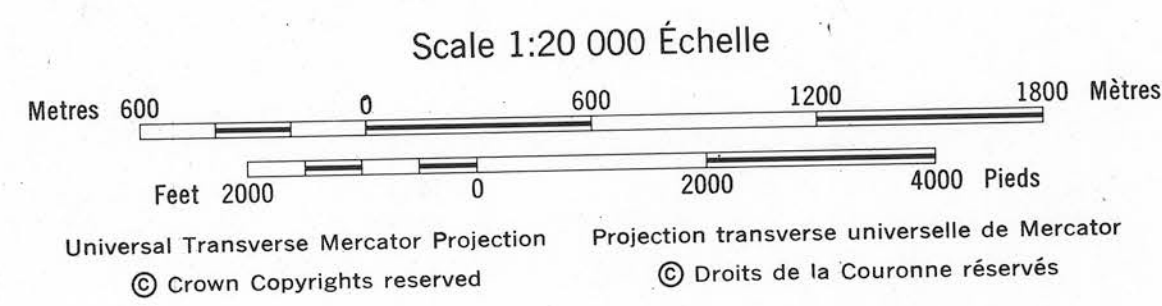
This was a shared-cost project of the Manitoba Energy and Mines Division and the Geological Survey of Canada.

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



**63 K/6g.h
MANITOBA
TOTAL MAGNETIC FIELD**



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