



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: 150m above ground level

MAP 20,333 G

74 I/8a and 64 L/5c, d

SASKATCHEWAN

SCALE 1:25,000

FEET 2000 1000 0 1000 2000 3000 4000 5000 1 MILE

METRES 500 0 500 1000 1500 2000 METRES

PUBLISHED 1978

This map was compiled from digitally-recorded aeromagnetic survey data obtained using an inboard rubidium vapour magnetometer which measured the total magnetic field in 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 150 metres.

The data was edited, compiled, leveled and gamma values for contouring interpolated on a square grid (2.5 cm grid spacing at published map scale) by computer processes.

The leveling 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 along the control line. The corrected control lines were used to level the traverse lines by a method of least squares.

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

Aerobase survey and digital compilation was carried out by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The survey operations took place in August and September 1977, using Beechcraft Dornier 65-580 aircraft CF-WZ20 and CF-WZ21.

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

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

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. Copies of this map may be obtained from the Saskatchewan Department of Mineral Resources, Regina, or from the Geological Survey of Canada, Ottawa.