



SCALE 1:20 000 ÉCHELLE 1/20 000

Contribution to Canada-Manitoba Mineral Development Agreement 1984-1989, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by Geological Survey of Canada.

Contribution à l'Entente auxiliaire Canada-Manitoba sur l'Exploitation minière 1984-1989 faisant partie de l'Entente de développement économique et régional. Ce projet a été financé par la Commission géologique du Canada.

This map was compiled from data obtained as a result of an electromagnetic gradiometer survey carried out by Kenning Earth Sciences Limited using a Permagravert cessionary magnetometer (C-FREY). Two 0.005 gamma resolution belt-type neovium cesium vapour magnetometers were mounted in the twin tail booms of a survey aircraft and the survey was carried out in a series of parallel flight lines. The survey was carried out from August 1986 to October 1986, at a flight altitude of 150 m mean terrain clearance. The average flight line spacing was 300 m. Control lines were flown at an average spacing of 5 km. Flight photographs were effected using a vertically mounted 35 mm camera.

Data obtained from the magnetometers were processed in a series of steps, which approximate closely the first vertical derivative of the earth's total field, were obtained by dividing the difference between the total field readings of the two magnetometers by their vertical separation. The vertical gradient data were then filtered with a digital operator to remove transient noise and to level the data. The data were then plotted on a grid of 100 m squares and the data were contoured. All of the data processing and plotting was done by Kenning Earth Sciences Limited except gridding and contouring which was done using the computer facilities of DataProcessing Systems. The base used for this map was obtained from a topographic map published by the Department of Energy and Mines and Resources, Ottawa.

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