

41286 G, 21J/13a

41286 G, 21J/14c.d

41286 G, 21J/14e.f

AEROMAGNETIC VERTICAL GRADIENT MAP CARTE AÉROMAGNÉTIQUE DU GRADIENT VERTICAL

MAP 41297 G CARTE

21J/14e,f

NEW BRUNSWICK
NOUVEAU-BRUNSWICK

SCALE 1:20 000 ÉCHELLE 1/20 000

Kilometre 0 0.5 1.0 1.5 2.0 2.5 3.0 Kilometres

Contribution to Canada-New Brunswick 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 audacieuse Canada-Nouveau-Brunswick 1984-1989, une entente subsidiaire 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 recorded by Geophysical Surveys Inc. between August 24, 1985 and November 9, 1985 using an helicopter-borne gradiometer. Two cesium vapour magnetometers were used to record vertical gradient data. The surveys were conducted under an helicopter at an average elevation of 150 m above ground. The average traverse and control line spacing were respectively 300 m and 12 km. Flight path recovery was achieved by flying a series of overlapping loops. The data were collected in a digital format.

The vertical gradient values, which approximate closely to 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 the separation distance between them. The coordinates of the intersections of traverse and control line and differences in their magnetic values were printed out for use in the manual leveling analysis. Then, the vertical gradient values were converted to a digital format and stored in a data base for use in a computer program.

As the noise level of the vertical gradient data was negligible, no filtering was done during the compilation of this data. The base used for this map was obtained from a 1:50 000 scale topographic map of the area. The vertical gradient data were projected onto this base.

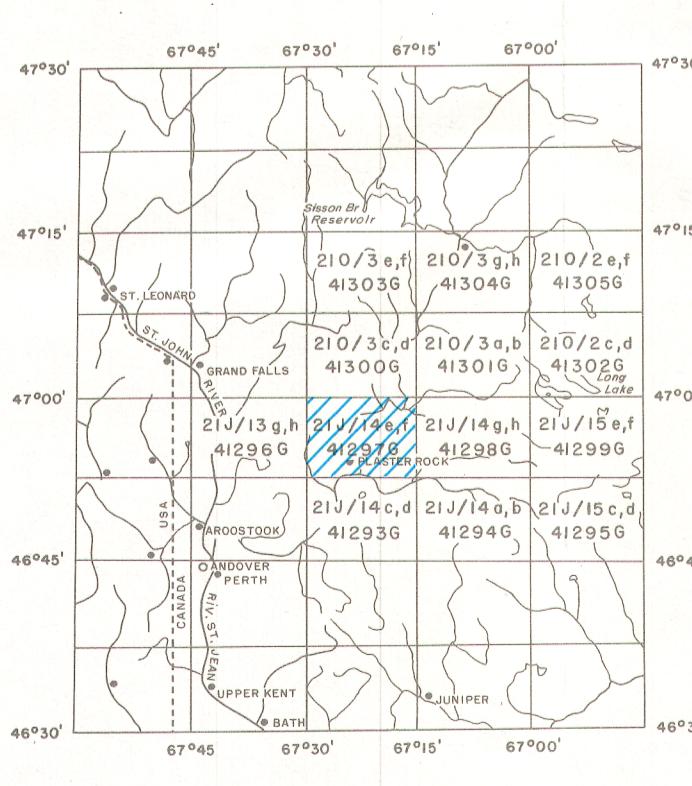
Copies of this map may be obtained either from the New Brunswick Department of Natural Resources, Geological Survey Branch, Mineral Resources Division, P.O. 6000, Fredericton, N.B., E3H 5H1, and from P.O. 50, Bathurst, N.B., E2A 3Z1 or the Geological Survey of Canada, Ottawa, Ontario, K1A 0E6.

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

Des exemplaires de cette carte sont disponibles auprès des ministères des Ressources naturelles, c.s. 6000, Fredericton, Nouveau-Brunswick, et à l'adresse postale suivante : P.O. 50, Bathurst, N.B., E2A 3Z1 ou à la Commission géologique du Canada, 601 rue Booth, Ottawa, Ontario, K1A 0E6.

Les données de levé utilisées pour élaborer la présente carte sont disponibles sous forme numérique à la Commission géologique du Canada ou coûte du recouvrement et de reproduction des données.

MAP 41297 G CARTE
21J/14e,f
NEW BRUNSWICK
NOUVEAU-BRUNSWICK

INDEX MAP
CARTE DE LOCALISATIONMAGNETIC CONTOUR LINES
COURSES DE NIVEAU MAGNÉTIQUE

+ 5 gamma/mètre

+ 1 gamma/mètre

+ 0.25 gamma/mètre

- 5 gamma/mètre

- 1 gamma/mètre

- 0.25 gamma/mètre

Flight altitude

Lignes de vol

Flight altitude

Altitude du vol

150 mètres au-dessus du niveau de sol

1 gamma = 10^{-8} tesla in SI units1 gamma = 10^{-8} tesla en unités SI

2500

2000

1500

1000

500

0

500

1000

1500

2000

2500

3000

3500

4000

4500

5000

5500

6000

6500

7000

7500

8000

8500

9000

9500

10000

10500

11000

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41000

41500

42000

42500

43000

43500

44000

44500

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45500

46000

46500

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47500

48000

48500

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49500

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