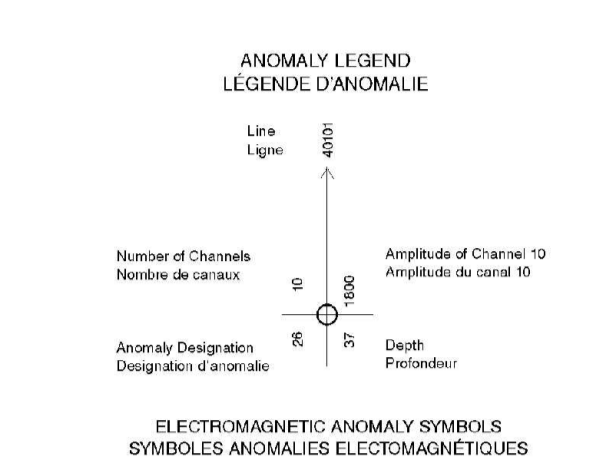
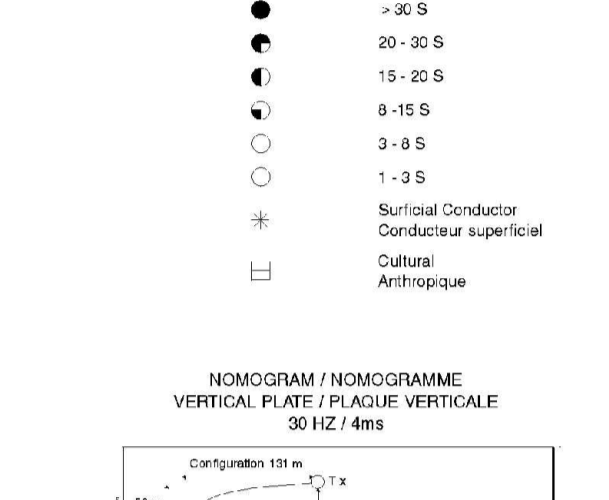


**INTRODUCTION**  
This map was compiled from data acquired during an airborne electromagnetic survey carried out by FUGRO AIRBORNE SURVEYS using a MEGATEM II system. The system was installed on a Fairchild C-441 aircraft. The survey was carried out during the period from February 16 to March 23, 2002.

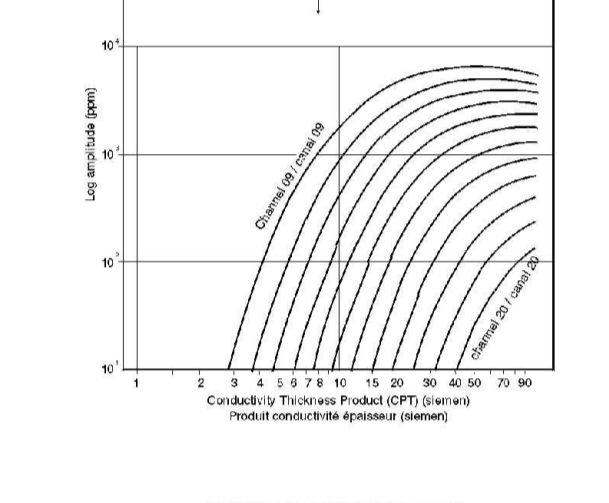
The survey line spacing was 125 m and 150 m for blocks A and B, respectively. The contour line spacing was 100 m. The contour interval was 200 nT. The contour interval was 100 nT. The contour interval was 100 nT. The contour interval was 100 nT.



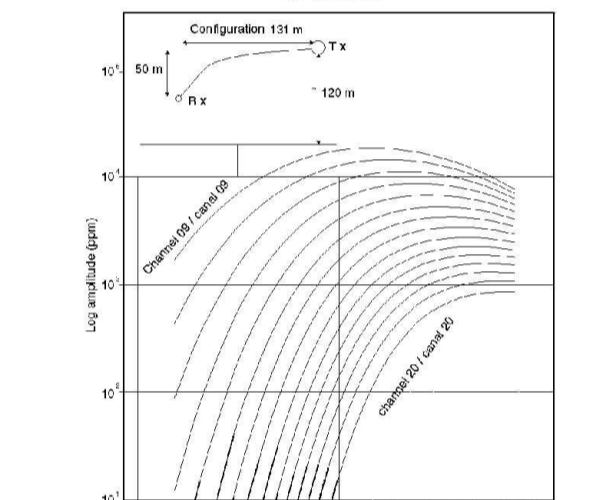
**RESIDUAL MAGNETIC TOTAL FIELD MAP**  
The residual magnetic field map was derived from the total magnetic field map by subtracting the International Geomagnetic Reference Field (IGRF) model. The IGRF model was used to remove the Earth's main magnetic field from the total magnetic field. The residual magnetic field is a measure of the magnetic anomalies caused by local magnetic sources.



**EM ANOMALIES**  
The EM anomalies were identified from the MEGATEM data by comparing the measured EM responses with typical EM responses derived from mathematical model studies. The EM anomalies were identified by comparing the measured EM responses with typical EM responses derived from mathematical model studies. The EM anomalies were identified by comparing the measured EM responses with typical EM responses derived from mathematical model studies.



**NOTES DESCRIPTIVES**  
Ces données ont été compilées à partir des données acquises pendant un levé électromagnétique aéroporté effectué par FUGRO AIRBORNE SURVEYS en utilisant un système électromagnétique EM dans le cadre du levé MEGATEM II. Le système était installé à bord d'un avion quadrimoteur Fairchild C-441. Le levé fut effectué pendant la période allant du 16 février au 23 mars 2002.



**CARTE DU CHAMP MAGNÉTIQUE RÉSIDUEL**  
Le champ magnétique résiduel a été calculé en soustrayant le champ magnétique de référence de la carte du champ magnétique total. Le champ magnétique de référence a été calculé à l'aide du modèle IGRF 2000. Le champ magnétique résiduel est une mesure des anomalies magnétiques locales causées par des sources magnétiques.

**COEFFICIENTS DE CORRELATION KEATING**  
Les coefficients de corrélation Keating (1995) d'anomalies électromagnétiques consistaient à calculer un coefficient de corrélation, à l'intérieur d'une fenêtre mobile, entre le mode d'une anomalie magnétique et le mode d'une anomalie électromagnétique. Les coefficients de corrélation Keating (1995) d'anomalies électromagnétiques consistaient à calculer un coefficient de corrélation, à l'intérieur d'une fenêtre mobile, entre le mode d'une anomalie magnétique et le mode d'une anomalie électromagnétique.

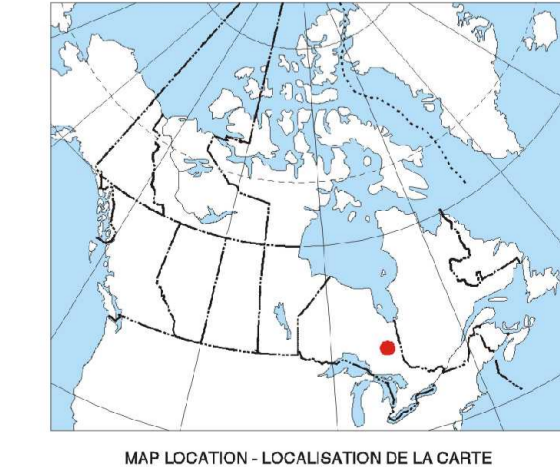
**REFERENCE**  
Keating, P., 1995. A simple technique to identify magnetic anomalies due to kimberlite pipes. Explor. Mining Geol., 4, 121-125.

**ISOMAGNETIC LINES / LIGNES ISOMAGNÉTIQUES**  
100 nT, 50 nT, 0 nT, -50 nT, -100 nT, -150 nT, -200 nT, -250 nT, -300 nT, -350 nT, -400 nT, -450 nT, -500 nT, -550 nT, -600 nT, -650 nT, -700 nT, -750 nT, -800 nT, -850 nT, -900 nT, -950 nT, -1000 nT.

**PLANIMETRIC SYMBOLS / SYMBOLES PLANIMÉTRIQUES**  
Road, Pipeline, Drainage, etc.

**ARBORNE MEGATEM SURVEY DISCOVER ABITIBI PROJECT TIMMINS AREA**  
**LEVÉ MEGATEM AÉROPORTÉ PROJET DÉCOUVRENS L'ABITIBI RÉGION DE TIMMINS**

Project jointly funded by Industry Canada, Ontario Geological Survey, Falconbridge Ltd and the Geological Survey of Canada.



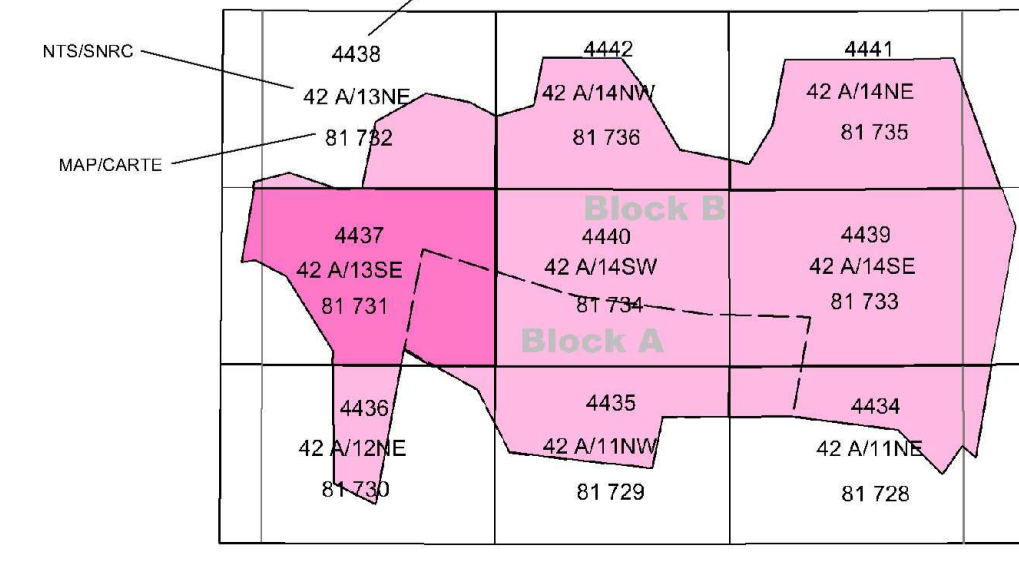
**CREDITS**  
Data acquisition, data collection and data processing by Fugro Airborne Surveys, Ontario, Canada. Control and project management, map compilation by the Geological Survey of Canada, Ottawa, Canada.

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OGS MAP/OGC CARTE 81 731

RESIDUAL MAGNETIC FIELD CONTOURS AND EM ANOMALIES WITH KEATING COEFFICIENTS  
CONTOURS DU CHAMP MAGNÉTIQUE TOTAL RÉSIDUEL AVEC ANOMALIES EM ET COEFFICIENTS KEATING

42 A/13SE  
ONTARIO

Scale 1:20 000/Echelle 1/20 000



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4437  
2002

Ontario  
MAP 81 731

Recommended citation:  
Dunlop, E., Coyte, M., Chisholm, D., and Pothin, J.  
2002. Residual magnetic field contours and EM anomalies with Keating coefficients, 42A/13SE, Ontario Geological Survey of Canada Open File 4437, Ontario Geological Survey of Canada, Ottawa, Ontario, 1:20 000.