

A quantitative gamma-ray spectrometric and aeromagnetic airborne geophysical survey of the Bonaparte Lake area, British Columbia, was completed by Sander Geophysics Limited. The survey was flown from September 17th to October 23rd, 2006, using a Boeing Stearman biplane aircraft. The nominal instrument and control line spacings were, respectively, 400 m and 2500 m, and the aircraft flew at a nominal terrain clearance of 125 m at an air speed of 220 km/h. Over areas not flown by the Stearman, the survey was completed by a Global Positioning System (GPS) aircraft. The flight path was recorded following post-flight differential correction to new data recorded by a Global Positioning System. The survey was flown on a pre-determined flight surface to minimize differences in magnetic values at the intersections of control and survey lines.

Gamma-ray Spectrometric Data
The airborne gamma-ray measurements were made with an Epsilon GM200 gamma-ray spectrometer using fourteen 102 x 102 x 400 mm NaI(Tl) crystals. The main detector array consisted of twelve crystals (total volume 50.4 litres). Two crystals (total volume 8.4 litres), shielded by the main array, were used to detect uranium and thorium and to monitor the background. The system also monitored the natural thorium peaks for each crystal, and using a Gaussian least squares algorithm, adjusted the gain for each crystal.

PLANIMETRIC SYMBOLS
Topographic contour
Drainage
Wellhead
Mining Area
Pipeline
Power Line
Road
Trail
Flight Line

ISOMAGNETIC LINES
1000 nT
250 nT
50 nT
10 nT
Magnetic Depression

SYMBOLS PLANIMÉTRIQUES
Courbes de niveau
Terrain inondé
Aire d'exploitation minière
Ligne de haute tension
Chemin
Sentier
Ligne de vol

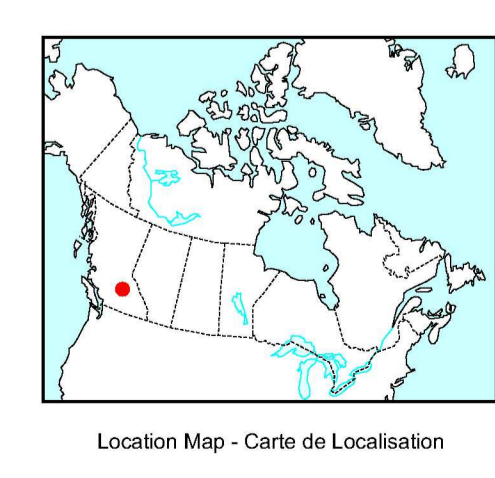
**BONAPARTE LAKE WEST GEOPHYSICAL SURVEY, BRITISH COLUMBIA
LEVÉ GÉOPHYSIQUE BONAPARTE LAKE WEST, COLOMBIE-BRITANNIQUE**

GEOPHYSICAL SERIES / SÉRIE GÉOPHYSIQUE
GREEN LAKE 92 P/6
BRITISH COLUMBIA / COLOMBIE-BRITANNIQUE
BONAPARTE LAKE WEST GEOPHYSICAL SURVEY, BRITISH COLUMBIA
LEVÉ GÉOPHYSIQUE BONAPARTE LAKE WEST, COLOMBIE-BRITANNIQUE
RESIDUAL TOTAL MAGNETIC FIELD

Authors: Coyle M., Dumont, R., Potvin, J., Carson, J.M., Buckle, J.L., Shives, R.B.K., and Harvey, B.J.A.
Date acquisition, compilation and map production by Sander Geophysics Limited, Ottawa, Ontario.
Contract and project management by the Geological Survey of Canada, Ottawa, Ontario.

Auteurs: Coyle M., Dumont, R., Potvin, J., Carson, J.M., Buckle, J.L., Shives, R.B.K., et Harvey, B.J.A.
L'acquisition, la compilation des données ainsi que la production des cartes furent effectuées par Sander Geophysics Limited, Ottawa, Ontario.
La gestion et la supervision du projet furent effectuées par la Commission géologique du Canada, Ottawa, Ontario.

COMPOSANTE RÉSIDUELLE DU CHAMP MAGNÉTIQUE TOTAL
Scale 1 : 50 000 - Échelle 1 / 50 000
Natural Resources Canada / Ressources naturelles Canada
Geoscience BC
Canada



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