

High Sensitivity Airborne Gamma-Ray Spectrometric and Aeromagnetic Surveys Central British Columbia, 2004 - 2005

In 2004 and 2005, Fugro Airborne Surveys completed nine multi-sensor airborne geophysical surveys in the central region of British Columbia for the Geological Survey of Canada...

Gamma-ray Spectrometric Data The airborne gamma-ray measurements were made with an Eplantronics BR80 gamma-ray spectrometer using nine 102 x 102 x 400 mm NaI (Tl) crystals...

Potassium is measured directly from the 1460 keV gamma-ray photons emitted by ⁴⁰K, whereas uranium and thorium are measured indirectly from gamma-ray photons emitted by daughter products of ²³⁸U, ²³⁵U, and ²³²Th...

Gamma-ray spectra were recorded at one-second intervals at a planned terrain clearance of 120m or 80m depending on the survey area and an air speed of 120km/h...

Corrected data were filtered and interpolated to a 100m grid for the 1:250 000 scale maps and to a 50m grid for the 1:20 000 and 1:50 000 scale maps. The results of an airborne gamma-ray spectrometer survey represent the average surface concentrations...

Magnetic Data The helicopter was equipped with a Soritex CS-2 cesium vapour magnetic sensor mounted in a HMI high-resolution single sensor stinger mounted system...

After editing the survey data, the intersections of traverse and control lines were determined and the differences in the magnetic values were computed, analyzed and manually verified to obtain the leveling network...

Positional Data Line spacing and direction for survey grid control lines were selected for each block to ensure the best intersection of local geological features. Terrain clearance was monitored by radar altimeter...

Data Presentation Colour levels and contours were calculated for each grid and combined with map around information to create postscript plot files, which were plotted using HP DesignJet colour plotters.

Planimetric Symbols Topographic Contour, Drainage, Roads, Culture, Railway, Flight lines, Isobal

NATIONAL TOPOGRAPHICAL SYSTEM REFERENCE AND GEOGRAPHICAL MAP INDEX

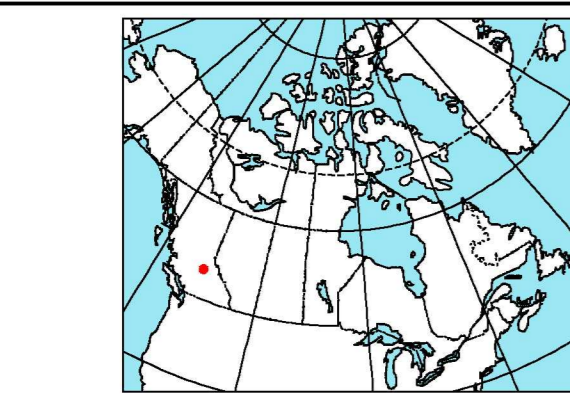
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URANIUM

SYLVESTER CREEK BRITISH COLUMBIA

93N/8, 93O/5

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GEOPHYSICAL SERIES - NTS 93N/8, 93O/5 - SYLVESTER CREEK BRITISH COLUMBIA

URANIUM

Scale 1:50 000 - Échelle 1/50 000



Universal Transverse Mercator Projection North American Datum 1983

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