

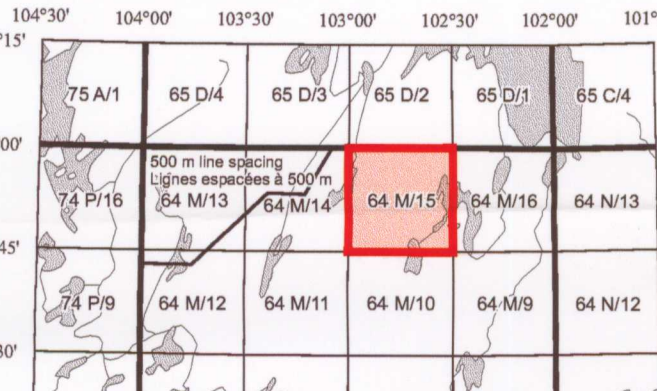
An airborne geophysical survey of the Phelps Lake area, Saskatchewan, was flown by Sander Geophysics Limited (SGL) for the Geological Survey of Canada and Saskatchewan Energy and Mines. The purpose of the survey was to obtain gamma-ray spectrometric, aeromagnetic and VLF-EM data. The survey was flown between August 14 and September 7, 2000 using a Britten-Norman Islander BN2B-21 aircraft flying 120 m above the terrain at a mean speed of 620 km/h. The 1000 m spaced, north-west-south-east oriented survey lines and orthogonal 10 000 m spaced control lines were planned using the SDRope system. Hill lines were flown in the northwest sector of the survey area to produce 500 m line spacing. In-flight positional data were recorded using an Onistar real-time differential GPS system. GPS ground station data were combined with GPS aircraft data to produce differentially corrected positional data with an accuracy of 1 to 2 m.

Potassium is measured directly from the 1460 keV gamma-ray photons emitted by ⁴⁰K. Uranium and thorium must be measured indirectly from gamma-ray photons emitted by daughter products (²¹⁴Pb for uranium and ²¹⁴Pb for thorium). Although these daughters are far down their respective decay chains, they are assumed to be in equilibrium with their parents; thus gamma-ray spectrometric measurements of uranium and thorium are referred to as equivalent uranium (eU) and equivalent thorium (eTh).

LEGEND / LÉGENDE
Wetland / Marais
Lake / Lac; Intermittent
Watercourse / Cours d'eau
Flooded area / Région inondée
Esker / Esker
Elevation contour / Courbes d'élévation
Depression contour / Courbes de dépression
Flight Line / Ligne de vol L1410-1

Digital cartographic base information supplied by Information Services Corporation of Saskatchewan.
Elevation contour interval 10 metres.
L'information cartographique numérique a été fournie par Information Services Corporation of Saskatchewan.
Équidistance des courbes d'élévation 10 mètres.

Recommended citation:
Carson J.M., Holman P.B., Shives R.B.K., Ford K.L., Harper C.T., Simmon W., 2001. Thorium / Potassium Map, Warren Lake, Saskatchewan; NTS 64M/15, Geological Survey of Canada, Open File 3951_147, Scale 1:50 000



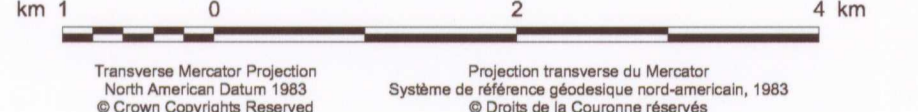
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THORIUM / POTASSIUM MAP
CARTE DU THORIUM / POTASSIUM

WARREN LAKE
SASKATCHEWAN
NTS / SNRC 64M/15

Scale 1 : 50 000 - Échelle 1 / 50 000



Open File
Dossier Public
3951_147
Geological Survey of Canada
Commission géologique du Canada
Ottawa
2001

SEM Open File 2001-2
Map 147 of 160

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