




ROCKS TO RICHES

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

Scale 1:50 000 - Échelle 1:50 000


^a 2004 and 2005. Data: Alabama Census completed also with census, alabama, census

Gamma-ray Spectrometric Data

The airborne gamma-ray measurements were made with an Explanium GP820 gamma spectrometer using nine 102 × 102 × 406 mm NaI (Tl) crystals. The main detector array consisted of eight crystals (total volume 33.6 litres). One crystal (total volume 4.2 litres), shielded by the rest of the array, was used to detect variations in background radiation caused by atmospheric radon. The system constantly monitored the natural potassium peak for each crystal, and using a Gauss

Potassium (^{40}K) 1360 - 1560 keV
 Uranium (^{234}Th) 1060 - 1090 keV
 Thorium (^{232}Th) 2410 - 2810 keV

Potassium 57.3 cps/% (2004) 56.9 cps/% (2005)
 Uranium 6.7 cps/ppm (2004) 6.4 cps/ppm (2005)
 Thorium 3.6 cps/ppm (2004) 3.7 cps/ppm (2005)

Magnetic Data
The helicopter was equipped with a Scintrex CS-2 cesium vapour magnetic sensor mounted on an IM1 high-resolution single sensor stinger mounted system. The system recorded readings at

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

Parametric Symbols

Topographic Contour	
Drainage	
Roads	
Culture	
Railway	
Flight lines, Isobars	

10100

NATIONAL TOPOGRAPHICAL SYSTEM REFERENCE AND GEOPHYSICAL MAP INDEX
SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE ET INDEX DES CARTES GÉOPHYSIQUES

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THORIUM
